UNIVERSITY OF ADELAIDE LIBRARY 8.9.99

Zinc, Cadmium and Mercury 1,1-Dithiolates

A Thesis Submitted for the Degree of

Doctor of Philosophy

by

Michael Jason Cox B.Sc. (Hons)

at

THE UNIVERSITY OF ADELAIDE

Department of Chemistry

February 1999

UNIVERSITY OF ADELAIDE LIBRARY

ADDENDUM

Page 27: The structures reported in this thesis were solved by utilising the PATTY option in the DIRDIF package.

Table 5.III.1: The choice of space group was determined by the successful refinement.

The compound in Table 6.III.1 is $[Cd(S_2CN(CH_2CH(CH_3)_2)_2)_2]$.

Appendices: The temperatures at which data were collected are in K.

Figure 1.6: The compound is $[Cd(S_2COCH_2CH_2OMe)_2]$.

N.B. Values reported in Tables of bond lengths and angles in the text were calculated using reflections that satisfied the $I \geq 3.0\sigma(I)$ criterion of observability.

DECLARATION

This thesis contains no material which has been accepted for any other degree or diploma in any university or other tertiary institution and, to the best of my knowledge and belief contains no material published or written by another person, except where due reference is made.

I consent to this thesis being made available for photocopying and loan.

ACKNOWLEDGMENTS

I would like to extend genuine gratitude to my supervisor, Dr E.R.T. Tiekink, who through his continual guidance, immeasurable assistance and helpful conversation has contributed significantly to the essence of this research.

I thank my fellow research workers for their assistance and friendship: George Siasios, Doug Smyth, Frances Kosovel, Andrea Collins, Tushar Basu-Baul, Mohamed Ismail Mohamed-Ibrahim, Veronica Hall and other members of Lab 10. It has been appreciated immensely and made the time very enjoyable.

To both my family and Robyn and Eric, for the support and encouragement you have provided over the years, I thank you.

I would like to thank Dr Mark Buntine for his advice with particular emphasis on the molecular orbital calculations and to Prof. Bill Jensen for proof reading this thesis.

I am heavily indebted to my wife Sheralee, for her support, sacrifices and understanding during these years, which has helped to keep my sanity and made this work possible.

The receipt of a Science Faculty Postgraduate Research Award is gratefully acknowledged.

PUBLICATIONS

(1) Cox, M. J.; Tiekink, E. R. T.: Crystal and molecular structures of bis(*O*-*n*-propyldithiocarbonato)nickel(II) and bis(*O*-*i*-propyldithiocarbonato)nickel(II). Z. Kristallogr. **211** (1996) 111 – 113.

(2) Cox, M. J.; Tiekink, E. R. T.: The crystal and molecular structures of $[Te(S_2COR)_2]$, R=nPr and $CH_2CH_2CMe_3$. Z. Kristallogr **212** (1997) 811 – 814.

(3) Cox, M. J.; Tiekink, E. R. T.: Crystal structure of bis(*O*-n-butyldithiocarbonato)nickel(II), $C_{10}H_{18}O_2NiS_4$. Z. Kristallogr. **212** (1997) 350.

(4) Cox, M. J.; Tiekink, E. R. T.: Crystal structure of bis(*O*-3,3-dimethylbutyldithiocarbonato)nickel(II), $[Ni(S_2COC_6H_{13})_2]$. Z. Kristallogr. **211** (1996) 575.

(5) Cox, M. J.; Tiekink, E. R. T.: Crystal structure of bis(*O*-3-methylbutyldithiocarbonato)nickel(II), $C_{12}H_{22}NiO_2S_4$. Z. Kristallogr. **211** (1996) 750.

(6) Cox, M. J.; Tiekink, E. R. T.: Structural variations in the mercury(II) bis(1,1-dithiolate)s: the crystal and molecular structure of $[Hg(S_2CNMe_2)_2]$. Z. Kristallogr. **212** (1997) 542 - 544.

(7) Cox, M. J.; Tiekink, E. R. T.: The crystal and molecular structures of some nickel(II) bis(O-alkyldithiocarbonate)s and nickel(II) bis(N,N-dialkyldithiocarbamate)s: an evaluation of the coordination potential of 1,1-dithiolate ligands in their nickel(II) complexes. Z. Kristallogr. in press.

(8) Cox, M. J.; Tiekink, E. R. T.: Structural systematics of tellurium(II) bis(O-alkyldithiocarbonate) and tellurium(II) bis(N,N-dialkyldithiocarbamate) compounds. Z. Kristallogr. submitted.

(9) Cox, M. J.; Tiekink, E. R. T.: The diverse coordination patterns in the structures of zinc, cadmium and mercury bis (1,1-dithiolates). Rev. Inorg. Chem. **17** (1997) 1 - 23.

(10) Cox, M. J.; Tiekink, E. R. T.: Structural characteristics of cadmium(II) bis(*N*,*N*-dialkyldithiocarbamate) and cadmium(II) bis(*O*-alkyldithiocarbonate) compounds. Z Kristallogr. accepted.

(11) Cox, M. J.; Tiekink, E. R. T.: Structural diversity in mercury(II) bis(O-alkyldithiocarbonate) compounds. Z. Kristallogr. accepted.

(12) Cox, M. J.; Tiekink, E. R. T.: Structural diversity in the mercury (II) bis(N,N-dialkyldithiocarbamate) compounds: an example of the importance of considering crystal structure when rationalising molecular structure. Z. Kristallogr. accepted.

(13) Cox, M. J.; Tiekink, E. R. T.: Structural features of zinc(II) bis(O-alkyldithiocarbonate) and zinc(II) bis(N,N-dialkyldithiocarbamate) compounds. Z. Kristallogr. in press.

ABSTRACT

A fascinating aspect of the solid state chemistry of the main group element 1,1-dithiolates is their structural diversity. It is known that a small change in the organic substituent of the 1,1-dithiolate ligand may result in a significant change in the coordination geometry about the metal atom. The reasons for these variations have yet to be delineated. Thus, a systematic investigation of the coordination ability of 1,1-dithiolate ligands, namely xanthates and dithiocarbamates, has been undertaken.

The electronic characteristics of the xanthate and dithiocarbamate ligands were examined by the determination of the solid state structures of the ligands coordinated to the transition metal element, nickel. This revealed that the coordinating ability of both the xanthates and dithiocarbamates are independent of the nature of the organic substituent on the ligand. This was further substantiated by an analogous study with the main group element, tellurium, where again the coordination ability of the ligands was shown to be independent of the organic substituent of the ligand.

Computational work on the free xanthate and dithiocarbamate ligands was conducted to gain an understanding of the electronic distribution over the ligands and the effect of the various organic substituents on this electronic distribution. The results revealed that a relatively large excess of electron density resides on the respective S_2C moieties and that the substitution of a particular organic substituent has little overall effect.

The determination of a number of solid state structures of the zinc, cadmium and mercury 1,1-dithiolates has allowed for a systematic study of their structural chemistry. This study revealed that a large number of structural motifs exist for these systems. The systematic analysis has enabled a rationalisation of the appearance of the different motifs for the first time. It was found that the ultimate structure adopted in the solid state is determined by a balance between the need to satisfy the valency of the central element (intramolecular bonding) and the requirements for efficient crystal packing (intermolecular interactions). This indicates that the stability of the molecular structure is influenced significantly by intermolecular interactions.

TABLE OF CONTENTS

DECLARATION	ii
ACKNOWLEDGEMENTS	iii
PUBLICATIONS	iv
ABSTRACT	vii
TABLE OF CONTENTS	viii
Chapter 1: INTRODUCTION	1
1.1 ZINC BIS 1,1-DITHIOLATES	3
1.1.1 *Xanthate structures*	3
1.1.2 *Dithiocarbamate structures*	5
1.1.3 *Dithiophosphate structures*	7
1.1.4 *Dithiophosphinate structures*	9
1.2 CADMIUM BIS 1,1-DITHIOLATES	11
1.2.1 *Xanthate structures*	11
1.2.2 *Dithiocarbamate structures*	13
1.2.3 *Dithiophosphate structures*	13
1.2.4 *Dithiophosphinate structures*	15
1.3 MERCURY BIS 1,1-DITHIOLATES	15
1.3.1 *Xanthate structures*	15
1.3.2 *Dithiocarbamate structures*	18
1.3.3 *Dithiophosphinate structure*	21
1.4 SUMMARY	21
Chapter 2: EXPERIMENTAL	26
2.1 INSTRUMENTATION	26
2.1.1 *Infrared spectroscopy*	26
2.1.2 *Nuclear Magnetic resonance spectroscopy*	26
2.1.3 *Melting points*	26
2.1.4 *Crystallography*	27
2.2 SYNTHESIS	29
2.2.1 *Chemicals*	29
2.2.2 *Preparations of starting materials*	30

2.2.3 *Preparation of bis(xanthate/dithiocarbamate)M(II) compounds, M = Ni, Zn, Cd, Hg.* 30
2.2.4 *Preparation of bis(xanthate/dithiocarbamate)Te(II) compounds* 33
2.3 SPECTROSCOPIC CHARACTERISATION 33
2.3.1 *IR spectroscopy* 34
2.3.2 *NMR spectroscopy* 34
Chapter 3: NICKEL(II) BIS 1,1-DITHIOLATES 46
3.1 XANTHATE STRUCTURES 46
3.2 DITHIOCARBAMATE STRUCTURES 55
3.3 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY 61
3.4 CONCLUSIONS 67
Chapter 4: TELLURIUM(II) BIS 1,1-DITHIOLATES 68
4.1 XANTHATE STRUCTURES 68
4.2 DITHIOCARBAMATE STRUCTURE 75
4.3 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY 75
4.4 CONCLUSIONS 84
Chapter 5: ZINC(II) BIS 1,1-DITHIOLATES 85
5.1 XANTHATE STRUCTURES 85
5.2 DITHIOCARBAMATE STRUCTURES 92
5.3 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY 97
5.4 CONCLUSIONS 98
Chapter 6: CADMIUM(II) BIS 1,1-DITHIOLATES 99
6.1 DITHIOCARBAMATE STRUCTURES 99
6.2 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY 109
6.3 XANTHATE STRUCTURES 110
6.4 CONCLUSIONS 112
Chapter 7: MERCURY(II) BIS 1,1-DITHIOLATES 113
7.1 XANTHATE STRUCTURES 113
7.2 DITHIOCARBAMATE STRUCTURES 122
7.3 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY 138
7.4 CONCLUSIONS 144

Chapter 8: *AB INITIO* MOLECULAR ORBITAL CALCULATIONS OF SELECTED *O*-ALKYLDITHIOCARBONATES AND *N,N*-DIALKYLDITHIOCARBAMATES 147

8.1 XANTHATE ANIONS 149

8.1.1 *Summary of the optimised geometries of the xanthate anions* 165

8.2 DITHIOCARBAMATE ANIONS 166

8.2.1 *Summary of the optimised geometries of the dithiocarbamate anions* 176

8.3 ELECTRON DENSITY DISTRIBUTION OF $[S_2COR]$ AND $[S_2CNR_2]$ 177

8.3.1 *Xanthate anions* 178

8.3.2 *Dithiocarbamate anions* 179

8.4 CONCLUSION 180

CONCLUSION 193

REFERENCES 195

UNIVERSITY OF ADELAIDE LIBRARY

Chapter 1

INTRODUCTION

The 1,1-dithiolates are a class of uninegative ligands that includes, dithiocarbonates [$^{-}S_2COR$, commonly known as xanthates; Zeise coined this term in 1815 after the bright yellow colour of their lead complexes (Winter, 1980)], dithiocarbamates [$^{-}S_2CNR_2$], dithiophosphates [$^{-}S_2P(OR)_2$] and dithiophosphinates [$^{-}S_2PR_2$]. The coordination chemistry of metal complexes of these ligands represents a field of continuous interest owing to their various applications (Winter, 1980; Tiekink, Winter, 1992; Haiduc, Sowerby, Lu, 1995; Eisenberg, 1970; Coucouvanis, 1979; Coucouvanis, 1970).

Metal 1,1-dithiolates have been used as agents in metallurgy (flotation), as accelerators in rubber vulcanisation, as fungicides and pesticides in agricultural applications, and as high pressure lubricants. More recently, 1,1-dithiolates have been used for the removal of heavy metals and organometallic cations from mammalian systems, and their anti-microbial activity has been explored. In addition, the zinc, cadmium and mercury dithiolates find uses in contemporary applications. For instance, zinc dithiolates are used in metal organic chemical vapour deposition (MOCVD), dithiolates can be used to remove cadmium from contaminated soils, and similarly, dithiolates are used to remove mercury and mercury vapour from waste products.

In order to fully understand and rationalise the chemical and physical properties of metal dithiolates, a thorough knowledge of their chemical structures is required. A pivotal technique in structure determination is single crystal X-ray diffraction. This technique stands alone in providing an unambiguous geometry, as well as precise interatomic parameters and details of supramolecular interactions. While the question remains whether the solid state structures thus determined have relevance to their solution state structures, another question posed is related to the influence that crystal packing effects has on molecular geometry. Thus, recent reviews of main group element

structures have revealed that very different structural motifs may be observed even though only small changes in chemistry have been made (Tiekink, Winter, 1992; Tiekink, 1991, 1992, 1994, 1995). In consideration of this question, and given the inherent interest in zinc, cadmium and mercury 1,1-dithiolate compounds, it is timely to survey the structural chemistry of these compounds.

In this introduction, the structures of zinc, cadmium and mercury binary 1,1-dithiolate complexes have been categorised. This survey reveals a rich variety of coordination patterns including monomeric, dimeric and polymeric structures, which often arise as a result of a diverse range of supramolecular M···S interactions. Of the crystal structures available, there are at least twelve distinct structural motifs in existence. This diversity can occur as a result of both the ability of the dithiolate ligands to exhibit several different modes of coordination, involving one or both sulfur atoms, and the propensity for the zinc, cadmium and mercury to have different coordination numbers. Of particular interest is the observation that chemically similar ligands (*i.e.* different R group/s) can produce dramatic changes in the structures, including coordination numbers and geometries. This occurs despite the fact that normally the organic substituent is remote from the coordination centre.

This introduction will summarise the structural characteristics of the zinc, cadmium and mercury 1,1-dithiolates by describing each element in turn, and considering the dithiolates in the following order i) xanthates, ii) dithiocarbamates, iii) dithiophosphates, and iv) dithiophosphinates. Diagrams have been drawn with the ORTEP program using arbitrary thermal ellipsoids (Johnson, 1976). The aim of the introduction is to give an overview of the structural motifs that may be adopted for these compounds in the solid state and readers are referred to the original literature for particular details.

1.1 ZINC BIS 1,1-DITHIOLATES

Molecular structures, as determined by X-ray diffraction techniques, have been reported for a relatively large number of zinc bis(1,1-dithiolates). As will be demonstrated, even for the same ligand type (*i.e.* xanthate, dithiocarbamate, *etc.*), changes in the nature of the organic substituent can result in a major modification to the structure adopted in the solid state. In almost all of the zinc(II) derivatives, the coordination around the zinc atom can be considered as distorted tetrahedral with four covalent Zn-S bonds. However, if secondary Zn···S interactions, *i.e.* supramolecular associations, are considered, the coordination polyhedron may be thought as being expanded to a distorted trigonal bipyramid or tetragonal prism.

1.1.1 *Xanthate structures*

A distorted tetrahedral geometry exists around the zinc(II) atom in each of $[Zn(S_2COEt)_2]$ and $[Zn(S_2COiPr)_2]$, however, the two structures adopt different coordination patterns.

The structure of $[Zn(S_2COiPr)_2]$ (Ito, 1972), illustrated in Fig. 1.1, comprises isolated centrosymmetric sixteen-membered rings. The structure can be thought of as been constructed about a square array of zinc atoms, with each edge being bridged by a bidentate isopropylxanthate ligand. The remaining positions in the distorted tetrahedral geometry about each zinc atom are occupied by two sulfur atoms derived from a chelating ligand. This structure will hereby be labelled as structural motif A. The bridging xanthate ligands form slightly asymmetric Zn-S distances, *i.e.* the Zn(1)-S(1) and Zn(2)-S(6)' distances of 2.343(8) Å and 2.342(8) Å, respectively are longer than the Zn(1)-S(5) and Zn(2)-S(2) distances of 2.311(7) Å and 2.307(8) Å, respectively. Whereas the S(7), S(8) xanthate chelates with equivalent Zn-S distances (2.370(8) Å and 2.357(7) Å), there is some asymmetry in the Zn-S(3) and Zn-S(4) distances of 2.351(7) Å and 2.408(7) Å, respectively. Nevertheless, the range of Zn-S distances is relatively small at

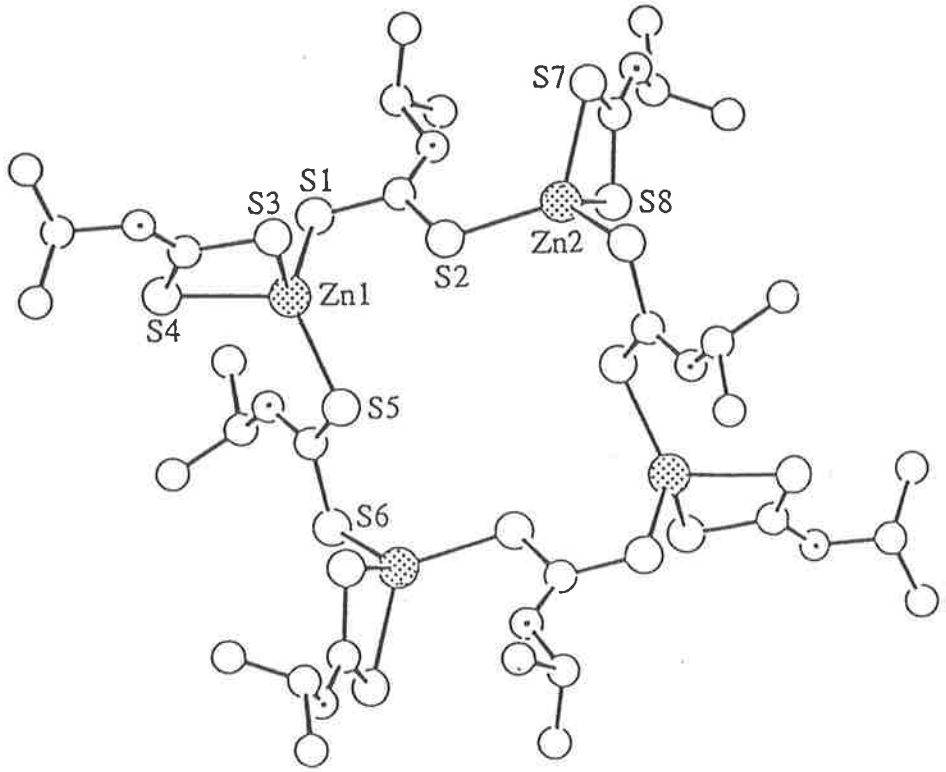


Fig. 1.1 Structural motif A, as represented by $[Zn(S_2COiPr)_2]$

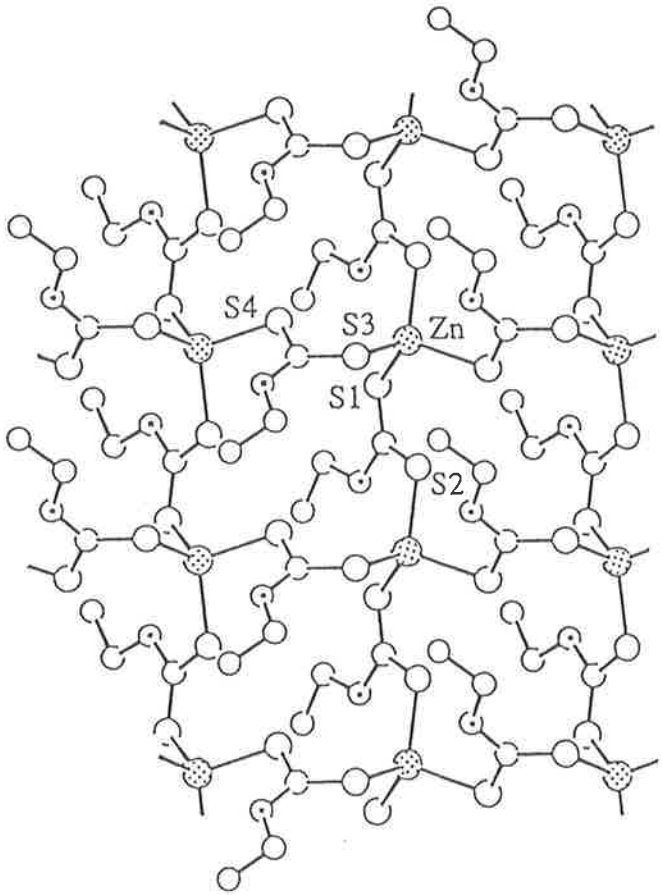


Fig. 1.2 Structural motif B, as represented by $[Zn(S_2COEt)_2]$

2.307(8) Å to 2.408(7) Å. The range of tetrahedral angles is wide owing to the restricted bite distance of the xanthate ligand (*i.e.* 76.7(2)° and 77.1(2)°), if one excludes these angles the range then becomes 106.6(3)° to 122.1(2)°.

The simple substitution of the isopropyl groups in $[Zn(S_2COiPr)_2]$ for ethyl groups, leading to $[Zn(S_2COEt)_2]$, results in a major structural change, *i.e.* structural motif B (Ikeda, Hagihara, 1966). The basic sixteen-membered ring framework as found in $[Zn(S_2COiPr)_2]$ is retained in the structure of $[Zn(S_2COEt)_2]$. The difference between the structures arises in that the chelating xanthate ligands of $[Zn(S_2COiPr)_2]$ are now bridging, so that the $[Zn(S_2COEt)]_4$ tetramers are interconnected to form a two-dimensional sheet, as shown in Fig. 1.2. The Zn-S bond lengths are equal within experimental error and have an average value of 2.35(1) Å. Relatively small distortions from the ideal tetrahedral geometry are observed with the S-Zn-S bond angles ranging from 102.6(3)° to 115.2(3)°.

1.1.2 *Dithiocarbamate structures*

By contrast to the tetrameric and polymeric structures found for $Zn(S_2COR)_2$, the $Zn(S_2CNR_2)_2$ structures are dimeric and fall into two distinct classes. The first (structural type C), shown in Fig. 1.3, is found for $[Zn(S_2CNMe_2)_2]$ (Klug, 1966) and features two zinc atoms that are bridged by two bidentate dithiocarbamate ligands; the dimer has crystallographic two-fold symmetry. The coordination about each zinc atom is completed by a chelating ligand. Structural type D is very similar to that of C, as exemplified in Fig. 1.4 for $[Zn(S_2CNEt_2)_2]$ (this structure has been the subject of two independent investigations (Bonamico, Mazzone, Vaciago, Zambonelli, 1965; Zvonkova, Khvatkina, Ivanova, 1968); parameters from the first study are cited here). There are a further five structures that adopt this motif and these are invariably centrosymmetric. The major difference between structural types C and D relates to the relative disposition of the bridging dithiocarbamate ligands, *i.e.* in C they lie to the same side of the dimer but for D they lie on opposite sides. The eight-membered ring in structural motif C can be

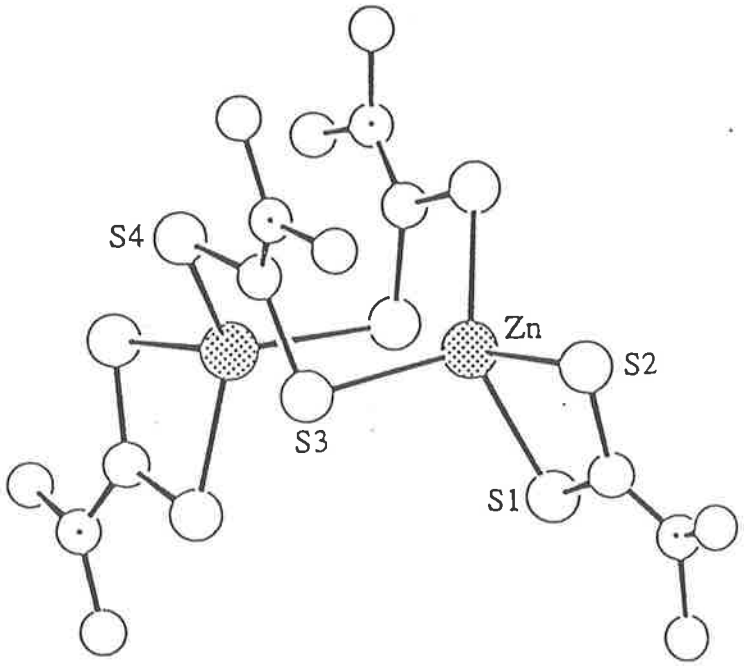


Fig. 1.3 Structural motif C, as represented by $[Zn(S_2CNMe_2)_2]$

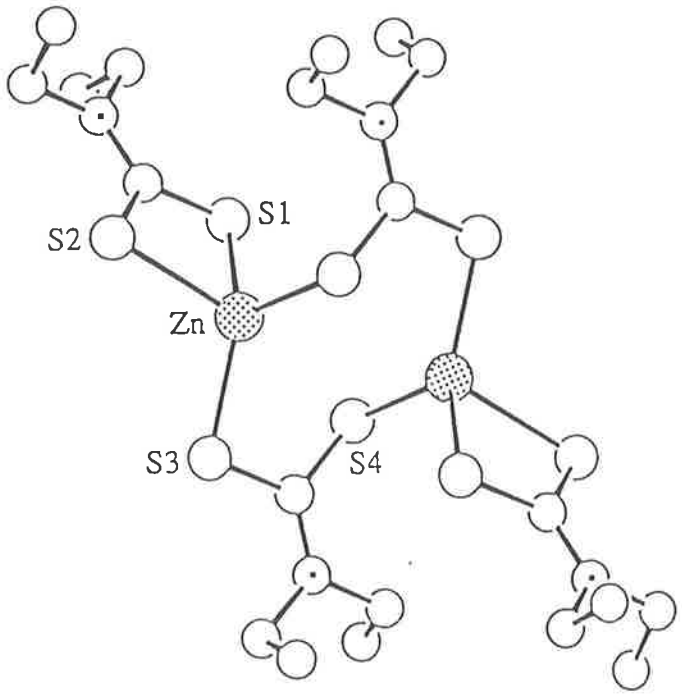


Fig. 1.4 Structural motif D, as represented by $[Zn(S_2CNEt_2)_2]$

described as a boat or saddle conformation and that of D as a twisted-chair conformation. In each of the structures, there are close intra-dimer Zn···S separations. As a result of the different orientation of the dithiocarbamate ligands, the close interaction involves the S(3) atom in structure C and the S(4) atom in structural type D. Table 1.1 collects important interatomic parameters for six of the seven structures as one of these is the subject of a space group ambiguity.

From Table 1.1 it can be noted that there is a remarkable constancy (in the context of this review) in the parameters about the zinc atoms in these structures. Typically, there is a slight asymmetry of approximately 0.1 Å in the Zn-S bonds formed by the chelating ligands and the Zn-S(4) bond distance is invariably longer than the Zn-S(3) bond (interchange the S(3) and S(4) atoms for the $[Zn(S_2CNMe_2)_2]$ structure, as above). The latter trend can be traced to the close intra-dimer Zn···S(4) interactions which lie in the range 2.815(1) Å to 3.036(6) Å. These distances are less than the sum of the van der Waals radii (3.1 Å) for these two atoms. If the Zn···S interactions were considered significant, the zinc atom could be described to exist in a distorted trigonal bipyramidal environment. The range of S-Zn-S angles about the zinc atoms (excluding the chelate angle and those involving the weakly associated S(4)' atom) shows that there is significant distortion from the ideal tetrahedral geometry, consistent with the close approach of the fifth sulfur atom. Whether the geometry is described as tetrahedral or trigonal bipyramidal is controversial, what is clear is that zinc has the ability to increase its coordination number in these systems.

1.1.3 *Dithiophosphate structures*

There are two zinc(II) bis(dithiophosphate) structures available in the literature. The structure of $[Zn(S_2P(OiPr)_2)_2]$ (Lawton, Kokotailo, 1969) adopts the structural motif C (Fig. 1.3), described above for $[Zn(S_2CNMe_2)_2]$, and has crystallographic two-fold symmetry. The chelating ligand forms Zn-S bond distances of 2.351(5) Å and 2.409(5) Å and the bridging distances are experimentally equivalent at 2.306(5) Å and

Table 1.1 Selected interatomic parameters (Å, deg.) for $Zn(S_2CNR_2)_2$

Compound	Zn-S(1)	Zn-S(2)	Zn-S(3)	Zn-S(4)	Zn...S [a]	Zn...Zn	S-Zn-S [b]	S-Zn-S [c]	Ref.
$[Zn(S_2CNMe_2)_2]$	2.333(6)	2.429(6)	2.373(6)	2.312(6)	3.036(6)	3.973(6)	105.8(2) - 136.5(2)	76.4(2) - 136.5(2)	g
$[Zn(S_2CNEt_2)_2]$	2.355(3)	2.443(3)	2.331(3)	2.383(3)	2.815(2)	3.545(4)	105.2(2) - 137.7(2)	75.8(2) - 160.0(2)	h
$[Zn(S_2CNiPr_2)_2]$	2.342(1)	2.454(1)	2.335(1)	2.377(1)	2.815(1)	3.545(1)	106.41(3) - 136.40(3)	68.89(3) - 155.31(2)	i
$[Zn(S_2CNR^1{}_2)_2]$ [d]	2.346(2)	2.468(2)	2.339(3)	2.387(2)	2.846(3)	3.580(3)	105.5(1) - 135.6(1)	68.1(1) - 156.6(1)	j
$[Zn(S_2CNR^2)_2]$ [e]	2.343(3)	2.493(3)	2.318(2)	2.380(3)	2.910(2)	3.701(1)	106.2(1) - 135.2(1)	75.6(1) - 157.0(1)	k
$[Zn(S_2CNR^3)_2]$ [f]	2.340(7)	2.445(7)	2.335(7)	2.343(7)	2.957(7)	3.630(7)	104.0(2) - 127.5(2)	67.5(2) - 153.3(2)	l

a S = S(3) for $[Zn(S_2CNMe_2)_2]$ and S(4) for the remaining structures; b S-Zn-S range excludes chelate angles; c all S-Zn-S angles; d R^1 = $-CH_2C(H)CH_2$; e $R^2 = (CH_2)_4$; f $R^3 = (CH_2)_6$; g Klug, 1966; h Bonamico, Mazzone, Vaciago, Zambonelli, 1965; i Miyamae, Ito, Iwasaki, 1979; j Kellö, Vrábel, Kettmann, Garaj, 1983; k Francetič , Leban, 1979; l Agre, Shugam, 1972b.

2.302(6) Å. The similarity of the Zn-S(bridging) distances may be traced to the absence of a significant intra-dimer interaction involving the S(3) atom (Zn···S(3) is 3.347(6) Å) and hence there is no elongation of the Zn-S(3) bond. The absence of a significant intramolecular interaction may be explained simply by the increased S-Y distances in the Y = P compound compared with the Y = C compound which has the effect of placing the S(3) atom further away from zinc. There is a profound change in structure when the isopropyl group is substituted for an ethyl group leading to $[Zn(S_2P(OEt)_2)_2]$ (Ito, Igarashi, Hagihara, 1969); structural motif E and Fig. 1.5. The zinc atom is tetrahedrally coordinated (range of S-Zn-S angles 85.9(2)° to 122.1(2)°), as above, but with two sites being occupied by a chelating dithiophosphate ligand (Zn-S(3) 2.351(6) Å and 2.401(7) Å). The two remaining sites are occupied by two sulfur atoms derived from two bidentate bridging ligands; Zn-S(1) 2.345(4) Å and Zn-S(2)' 2.337(7) Å. This arrangement leads to the formation of zig-zag chains (propagated by a crystallographic glide plane) throughout the lattice.

1.1.4 *Dithiophosphinate structures*

$[Zn(S_2PEt_2)_2]$ crystallises with two molecules in the asymmetric unit, each of which adopt structural motif C, having approximate two-fold symmetry (Calligaris, Nardin, Ripamonti, 1970). The average Zn-S bond distance in the tetrahedral geometry (S-Zn-S range: 85.3(3)° to 124.8(3)°) was calculated to be 2.342 Å with a range of 2.302(7) Å to 2.382(8) Å; no significant intra-dimer Zn···S interaction was observed. The centrosymmetric structure of $[Zn(S_2PnPr_2)_2]$ (Wunderlich, 1982) adopts motif D: the Zn-S(1, 2, 3, 4) distances are 2.344(2) Å, 2.450(2) Å, 2.306(2) Å and 2.321(2) Å, respectively (range of S-Zn-S: 84.1(1)° to 124.3(1)°). Again, no significant Zn···S interactions were found.

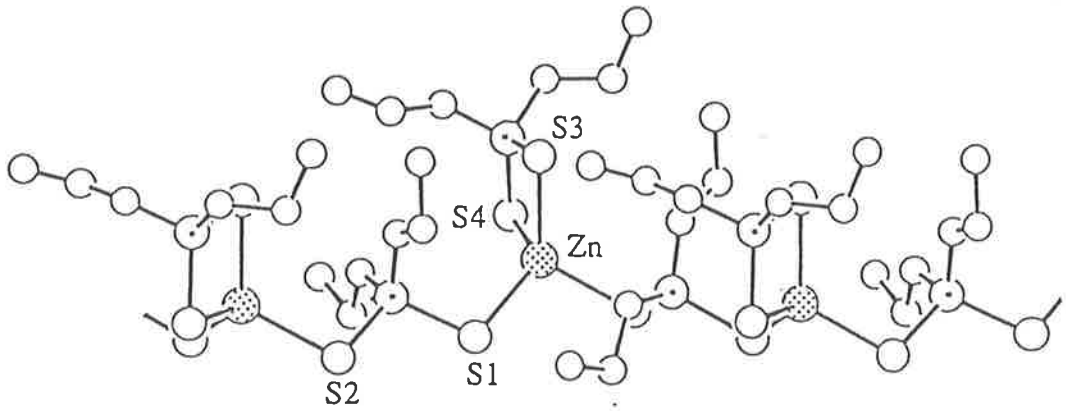


Fig. 1.5 Structural motif E, as represented by $[Zn(S_2P(OEt)_2)_2]$

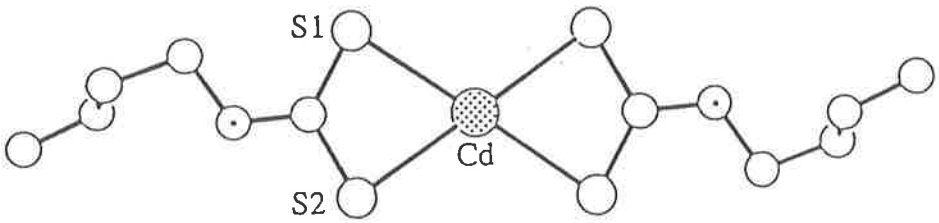


Fig. 1.6 Structural motif F, as represented by $[Cd(S_2CCOCH_2CH_2OMe)_2]$

1.2 CADMIUM BIS 1,1-DITHIOLATES

A number of cadmium bis (1,1-dithiolate) structures have been determined by X-ray crystallographic methods. In the main, similar structures to those observed previously for the zinc bis (1,1-dithiolates) are adopted by the cadmium dithiolates with the expected differences in the derived interatomic parameters. There is, however, one unique coordination pattern for these compounds.

1.2.1 *Xanthate structures*

Four cadmium bis (xanthate) structures, $[Cd(S_2COR)_2]$, are available with three, R = Et, iPr and nBu being isostructural with $[Zn(S_2COEt)_2]$, i.e. adopting structural type B (Iimura, Ito, Hagihara, 1972; Iimura, 1973; Rietveld, Maslen, 1965). The coordination polyhedron around the cadmium atoms is distorted tetrahedral with bond lengths and angles as listed in Table 1.2; these show the expected variations owing to the increased size of the cadmium atom compared with that of zinc. Whereas the three structures cited have a precedent, there is one other motif for $[Cd(S_2COR)_2]$.

The centrosymmetric structure of $[Cd(S_2COCH_2CH_2OMe)_2]$ (Abrahams, Hoskins, Tiekink, Winter, 1988) is shown in Fig. 1.6 (motif F) and features a square planar cadmium centre with symmetrically chelating xanthate ligands; Cd-S(1) 2.6265(5) Å and Cd-S(2) 2.6397(7) Å. There are weak intermolecular Cd...S interactions above and below the CdS_4 square plane of 3.0225(8) Å which, although less than the sum of the van der Waals radii of cadmium and sulfur (3.4 Å), are not in the immediate coordination environment of the cadmium atom; if considered significant, the cadmium geometry would be described as tetragonally distorted octahedral, $Cd(S_4)S_2$. A striking feature of structural type F is the different coordination geometry about the cadmium, which is not repeated often in the other structures cited in this introduction.

Table 1.2 Selected parameters (Å, deg.) for cadmium bis (1,1-dithiolates)

Compound	Cd-S	S-Cd-S	Ref.
$[Cd(S_2COEt)_2]$	2.544(2) - 2.590(3)	94.47(5) - 121.29(5)	b
$[Cd(S_2COiPr)_2]$	2.536(3) - 2.586(2)	90.78(8) - 110.90(7)	c
$[Cd(S_2COnBu)_2]$	2.560(9) - 2.619(8)	95.3(3) - 121.5(3)	d
$[Cd(S_2CNEt_2)_2]$	2.536(4) - 2.644(3), 2.800(3)	70.9(1) - 158.9(1)	e
$[Cd(S_2CNnBu_2)_2]$	2.513(5) - 2.601(7), 2.888(5)	66.4(2) - 160.1(2)	f
$[Cd(S_2CNR_2)_2]$ [a]	2.54(1) - 2.63(1), 2.873(1)	67.0(4) - 160.0(4)	g
$[Cd(S_2P(OiPr)_2)_2]$	2.486(7) - 2.590(8), 3.194(8)	79.1(3) - 121.6(2)	h
$[Cd(S_2P(OcHex)_2)_2]$	2.517(5) - 2.660(8), 3.34(1)	78.3(2) - 131.4(2)	i
$[Cd(S_2PEt_2)_2]$	2.543(2) - 2.653(3), 3.1(1)	79.0(1) - 127.6(1)	j
$[Cd(S_2PPh_2)_2]$	2.520(1) - 2.641(1), 3.078(1)	79.85(4) - 137.35(4)	k

a R_2 = cyclo-$(CH_2)_6$, b Iimura, Ito, Hagihara, 1972; c Iimura, 1973); d Rietveld, Maslen, 1965; e Domenicano, Torelli, Vaciago, Zambonelli, 1968; f Casas, Sánchez, Bravo, García-Fontán, Castellano, Jones, 1989; g Agre, Shugam, 1972a; h Lawton, Kokotailo, 1969; i Casas, Castiñeiras, García -Tasende, Sánchez, Sordo, Vázquez-López, 1995; j Svensson, Albertsson, 1991; k Casas, García-Tasende, Sánchez, Sordo, Vázquez-López, Castellano, Zukerman-Schpector, 1994.

1.2.2 *Dithiocarbamate structures*

One of the three available $Cd(S_2CNR_2)_2$ structures, *i.e.* R = nBu (Casas, Sánchez, Bravo, García-Fontán, Castellano, Jones, 1989), resembles structural motif C, as found for $[Zn(S_2CNMe_2)_2]$, whereas R = Et (two determinations (Domenicano, Torelli, Vaciago, Zambonelli, 1968; Shugam, Agre, 1968) and R_2 = cyclo-$(CH_2)_6$ (Agre, Shugam 1972a), are similar to the structure found for $[Zn(S_2CNEt_2)_2]$ (structural type D). Selected geometric parameters are collected in Table 1.2. As was the case with the zinc structures, there are close Cd···S interactions of approximately 2.8 Å across the central eight-membered ring. These represent significant interactions in $Cd(S_2CNR_2)_2$ and thus, each cadmium atom must be considered as five-coordinate, distorted trigonal bipyramidal; the structures are illustrated in Figs 1.7 and 1.8 for R = nBu (the axial angle S(2)-Cd-S(4)' is 160.0(4)°) and R_2 = $(CH_2)_6$ (S(2)-Cd-S(3)' angle is 160.1(2)°), respectively. Given the close similarity of these structures to the structural types C and D described above for the zinc compounds, the cadmium structures are assigned motifs C' and D', respectively.

1.2.3 *Dithiophosphate structures*

There are two cadmium bis (dithiophosphate) structures reported in the literature, namely $[Cd(S_2P(OiPr)_2)_2]$ (Lawton, Kokotailo, 1969) and $[Cd(S_2P(OCy)_2)_2]$ (Casas, Castiñeiras, García-Tasende, Sánchez, Sordo, Vázquez-López, 1995). The first of these is isomorphous to its zinc analogue, $[Zn(S_2P(OiPr)_2)_2]$ (Lawton, Kokotailo, 1969), but adopts structural type C', *i.e.* with tetrahedral cadmium centres, owing to the fact that the intramolecular Cd...S(3)' interaction is long at 3.194(8) Å (see above); other parameters are listed in Table 1.2. The centrosymmetric $[Cd(S_2P(OCy)_2)_2]$ structure adopts the dimeric structural motif D', details are given in Table 1.2.

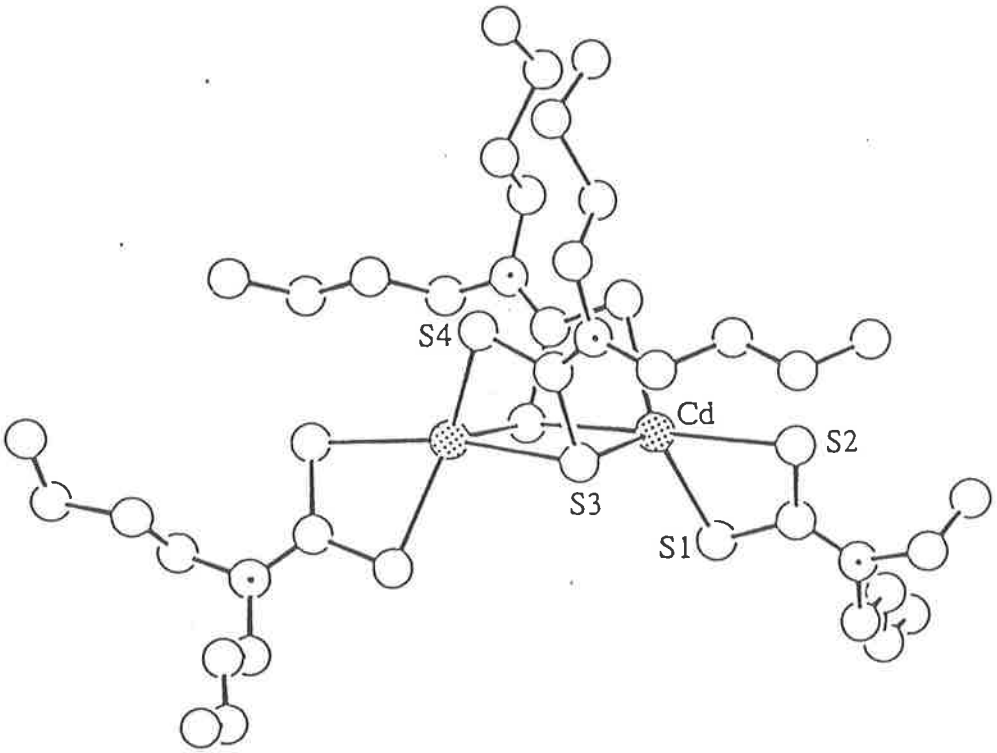


Fig. 1.7 Structural motif C', as represented by [Cd(S_2CNnBu_2)2]

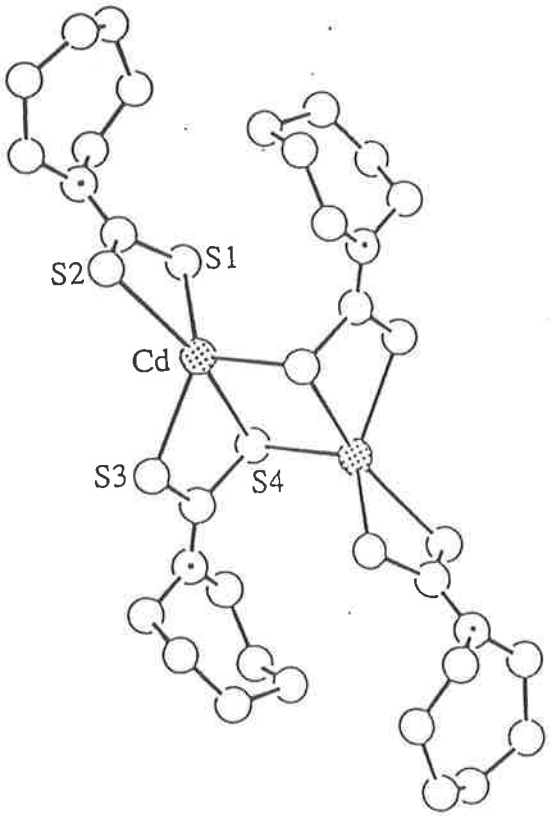


Fig. 1.8 Structural motif D', as represented by [Cd(S_2CNR)2], where R = (CH_2)6

1.2.4 *Dithiophosphinate structures*

Each of centrosymmetric $[Cd(S_2PEt_2)_2]$ (two independent studies (Svensson, Albertsson, 1991; Wunderlich, 1986)) and $[Cd(S_2PPh_2)_2]$ (Casas, García-Tasende, Sánchez, Sordo, Vázquez-López, Castellano, Zukerman-Schpector, 1994) adopts structural motif D' as illustrated in Fig. 1.8; selected parameters are given in Table 1.2.

1.3 MERCURY BIS 1,1-DITHIOLATES

There are six different coordination patterns observed for the mercury bis (1,1-dithiolates), three of these motifs have yet to be described thus far. Generally, mercury tends to form four coordinate, distorted tetrahedral geometries owing to disparity in the Hg-S separations.

1.3.1 *Xanthate structures*

There are five structures available with the general formula $Hg(S_2COR)_2$. The compound with R = Me (Tiekink, 1987) defines structural motif G as illustrated in Fig. 1.9. The xanthate ligands adopt different coordination modes with one being bidentate bridging and the other being monodentate. A polymeric chain arises as a result of the bridging ligands and the three-coordinate, T-shaped geometry about each mercury atom is completed by the monodentate ligand. The bridging Hg-S(3) and Hg-S(4)' distances are 2.383(3) Å and 2.924(3) Å, respectively and the Hg-S(1) bond distance is 2.365(3) Å. The Hg-S(4)' separation is well within the sum of the van der Waals radii of these atoms of 3.3 Å and hence must be considered an interaction, if not, the coordination geometry would be linear HgS_2. It should be noted that both xanthate ligands are orientated so that their oxygen atoms are relatively close to the mercury atom. However, the Hg···O separations of 2.926(8) Å and 2.932(8) Å, while less than the sum of the van der Waals

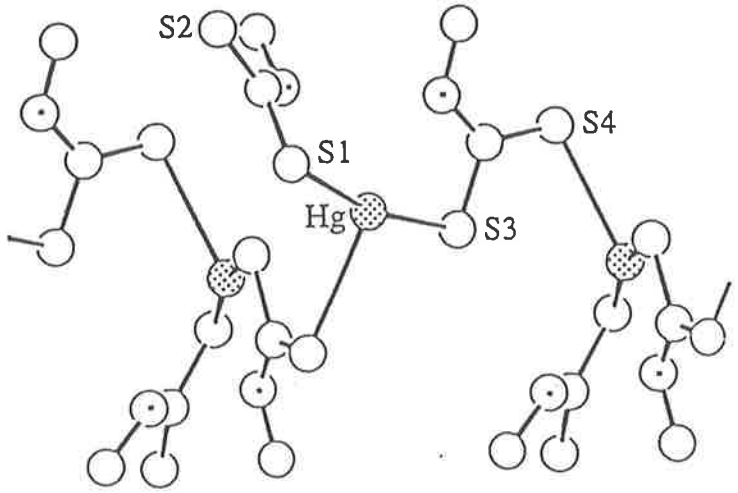


Fig. 1.9 Structural motif G, as represented by [Hg(S_2COMe)$_2$]

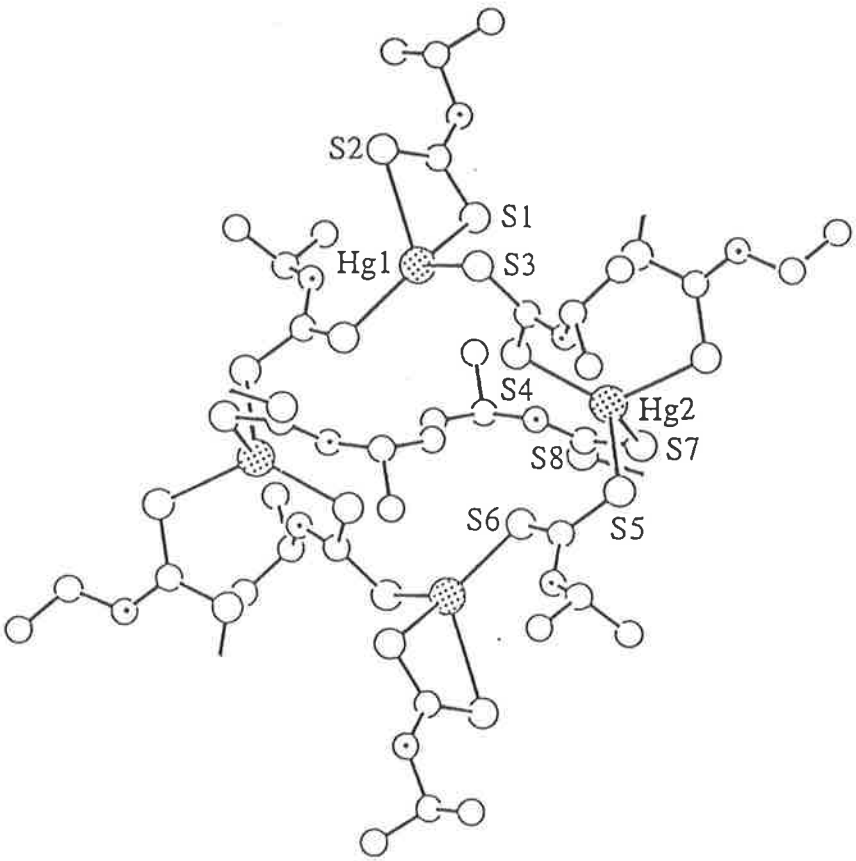


Fig. 1.10 Structural motif H, as represented by [Hg(S_2COiPr)$_2$]

radii for mercury and oxygen of 3.0 Å, are not indicative of significant bonding interactions. The remaining structures in this category feature distorted tetrahedral HgS_4 units and sixteen-membered rings.

Structural motif B (see Fig. 1.2) is adopted for the $Hg(S_2COR)_2$ compounds with R = Et (two polymorphs, labelled α (Watanabe, 1977) and β (Chieh, Moynihan, 1980) and nPr (with crystallographic two-fold symmetry (Hounslow, Tiekink, 1991)). Geometric parameters are collected in Table 1.3. The difference between the two polymorphs of $[Hg(S_2COEt)_2]$ rests in the relative orientation of the layers of sixteen-membered rings. In the α-form, which crystallises in the non-centrosymmetric space group $P2_1$, successive layers are in the same orientation, whereas in the β-polymorph (space group $P2_1/c$) the layers are related by a centre of inversion. The coordination geometries about the mercury atoms are based on distorted tetrahedra. A comparison of the derived parameters for the zinc, cadmium and mercury structures of this motif reveals that the distortions from the ideal tetrahedral geometry progressively increase. In the $[Hg(S_2COEt)_2]$ structures, the Hg-S bond distances fall into two classes, with two being shorter than the other two (Table 1.3). The angle subtended at the mercury centre by the two sulfur atoms that form the stronger interactions approaches 150°, a result which indicates that the geometry is approaching linearity (*cf.* $[Hg(S_2COMe)_2]$ described above), with the weaker Hg-S bonds lying on either side.

The remaining structure in this category is that found for $[Hg(S_2COiPr)_2]$ (Watanabe, 1981) as illustrated in Fig. 1.10; this represents motif H. This structure is based on the familiar (for the xanthate structures) sixteen-membered rings. In this case, two of the mercury atoms, opposite each other, have their distorted tetrahedral coordination environment completed by a chelating xanthate ligand. In this respect, this motif resembles that of motif A. The remaining mercury atoms are surrounded by four sulfur atoms, derived from four bridging atoms, *i.e.* similar to that found in motif B. A key difference concerns the association between the tetramers. In motif B, there are no xanthate bridges between successive layers, however, in H, there are. The chelating

ligand about the Hg(1) atom forms asymmetric distances of 2.48(1) Å and 2.88(1) Å and the bridging distances are 2.62(1) Å and 2.442(9) Å. In addition, the Hg(1) atom forms a weak contact of 3.112(9) Å to the S(4) atom. The range of angles subtended at this atom is 66.8(3)° - 143.2(3) °. The range of Hg(2)-S distances is 2.477(9) Å - 2.74(1) Å and S-Hg(2)-S is 91.0(3) ° - 123.7(3) °.

The three motifs observed for $[Hg(S_2COR)_2]$ are remarkably different from each other, ranging from a linear chain for R = Me, to a layer structure for R = Et, to a network structure for R = iPr. Hence, the simple variation of R substituents from R = Me to Et to iPr results in a change from an one-, to a two- to a three-dimensional structure.

Table 1.3 Selected parameters (Å, deg.) for mercury bis (xanthates)

Compound	Hg-S	S-Hg-S	Ref.
α-$[Hg(S_2COEt)_2]$	2.313(8) - 2.94(1)	81.8(3) - 148.8(3)	a
β-$[Hg(S_2COEt)_2]$	2.417(4) - 2.854(4)	84.3(1) - 147.7(1)	b
$[Hg(S_2CO^nPr)_2]$	2.418(3) - 2.835(4)	82.0(3) - 148.9(3)	c

a Watanabe, 1977; b Cheih, Moynihan, 1980; c Hounslow, Tiekink, 1991.

1.3.2 *Dithiocarbamate structures*

There are five $[Hg(S_2CNR_2)_2]$ structures in the literature and these adopt no less than four different motifs.

The structure of $[Hg(S_2CNH_2)_2]$ (Chieh, Cheung, 1981) is represented in Fig. 1.11 and is labelled motif I. The layer structure is made up of interconnected eight-membered $[-Hg-S-C-S-]_2$ rings, comprising two mercury atoms that are bridged by two dithiocarbamate ligands. These rings are connected to symmetry related rings via bridging dithiocarbamates. The larger rings in the structure thus constructed, contain six

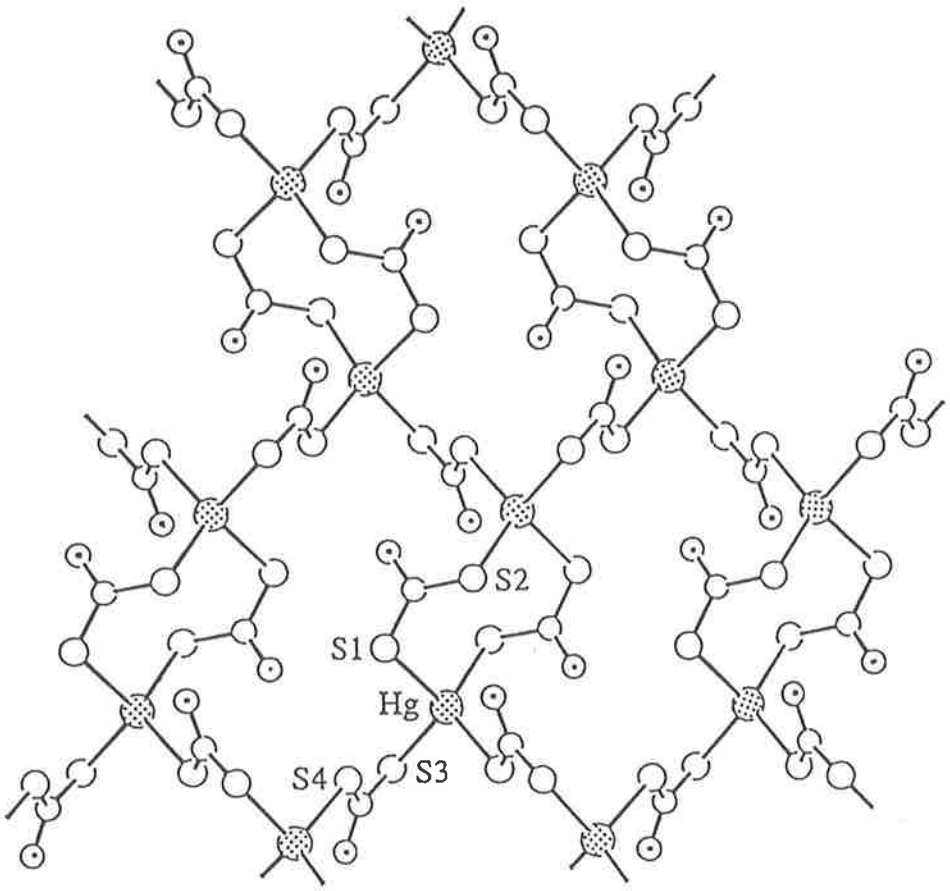


Fig. 1.11 Structural motif I, as represented by $[Hg(S_2CNH_2)_2]$

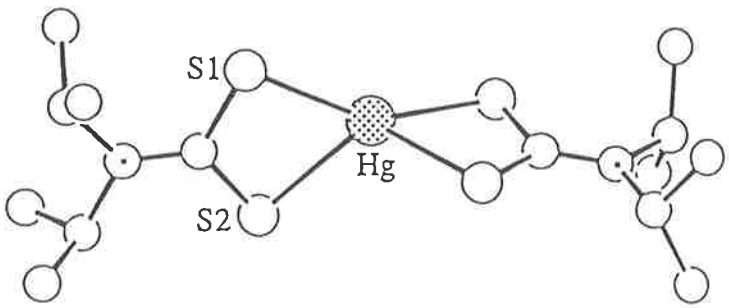


Fig. 1.12 Structural motif J, as represented by $[Hg(S_2CNiPr_2)_2]$

mercury atoms and eight bridging dithiocarbamate ligands. The range of Hg-S bond distances is relatively narrow at 2.499(4) Å - 2.629(4) Å and the range of angles subtended at the mercury atom is 100.9(1)° - 119.9(1)°. Clearly, the geometry about the mercury atom is distorted tetrahedral.

There are two polymorphs of $[Hg(S_2CNEt_2)_2]$, labelled α (Iwasaki, 1973) and β (Iwasaki, 1973; Healy, White, 1973), each of which adopts a distinct structure in the solid state. The α- form of $[Hg(S_2CNEt_2)_2]$ adopts structural type D' as illustrated in Fig. 1.8. The four Hg-S interactions lie in the range 2.418(7) Å - 2.698(6) Å and the intramolecular Hg···S(4)' interaction is 3.137(6) Å and indicate a distorted tetrahedral geometry about mercury (S-Hg-S 70.0(2)° - 146.0(2)°). By contrast to the dimeric structure of α-$[Hg(S_2CNEt_2)_2]$, the structure of the other polymorph is monomeric (see below). The structure of $[Hg(S_2CNR)_2]$, where HNR is the secondary amine 4-methylpiperidine (Benedetti, Fabretti, Preti, 1988), adopts the same motif with Hg-S distances in the range 2.450(2) Å - 2.669(1) Å and S-Hg-S angles in the range 69.53(4)° - 139.16(6)°. The intramolecular Hg···S(4) contact is 3.127(2) Å.

The structure of β-$[Hg(S_2CNEt_2)_2]$ has been subjected to two studies (Iwasaki, 1973; Healy, White, 1973) and is closely related to the structure of $[Cd(S_2COCH_2CH_2OMe)_2]$, motif F (Fig. 1.6). The mercury atom is situated on a centre of inversion and the two independent Hg-S distances are 2.398(4) Å and 2.965(4) Å. A trend to a linear HgS_2 geometry is thus apparent with the S(1)-Hg-S(1)' angle being constrained crystallographically to 180°. In the lattice, there are additional interactions between the mercury atoms and symmetry related S(2) atoms of 3.292(4) Å. The observation of two distinct motifs for $[Hg(S_2CNEt_2)_2]$ indicates that there is relatively little energy difference between them.

The final mercury dithiocarbamate structure is that of $[Hg(S_2CNiPr_2)_2]$ (Ito, Iwasaki, 1979), as shown in Fig. 1.12; this is structural motif J. The monomeric structure has crystallographic two-fold symmetry and features a distorted tetrahedral

geometry: Hg-S 2.445(4) Å - 2.645(4) Å and S-Hg-S 70.7(2)° - 149.7(2)°. The closest intermolecular Hg···S contact is 3.408(6) Å.

1.3.3 *Dithiophosphinate structure*

The chain structure of [Hg(S_2P(OiPr)$_2$)$_2$] (Lawton, 1971), with both chelating and bridging ligands, resembles that of [Zn(S_2P(OEt)$_2$)$_2$], *i.e.* motif E as illustrated in Fig. 1.5. Distortions from the ideal tetrahedral geometry are significant however, as seen in the Hg-S distances of 2.391(6) Å and 2.888(5) Å for the chelating ligand, and 2.388(5) Å and 2.748(5) Å for the bridging ligand; the range of S-Hg-S angles is 76.3(2)° - 149.7(2)°.

1.4 SUMMARY

The above survey demonstrates the rich diversity of structural motifs for the binary 1,1-dithiolates of zinc, cadmium and mercury. A summary of the coordination patterns adopted by these compounds is presented in Fig. 1.13 (after Ito, 1972). The two monomeric motifs, *i.e.* F and J, which differ only in the detail of the coordination geometry about the central element (*i.e.* square planar and tetrahedral, respectively), are represented by one schematic in this diagram. Similarly, motifs C and D are combined as the difference between them relates to a different orientation of the bridging ligands. Further, the motifs C' and D' are combined with these as the differences between C and C' (and D and D') relate to the magnitude of the intramolecular M···S interactions (see text). Having combined closely related motifs, there are eight distinct coordination patterns for these compounds. The assignment of particular structures to motifs is given in Table 1.4.

Some broad observations can be made concerning the adoption of particular motifs. Generally, xanthate structures tend to be based on sixteen-membered rings with varying associations between them. Also, dithiocarbamate structures are often dimeric.

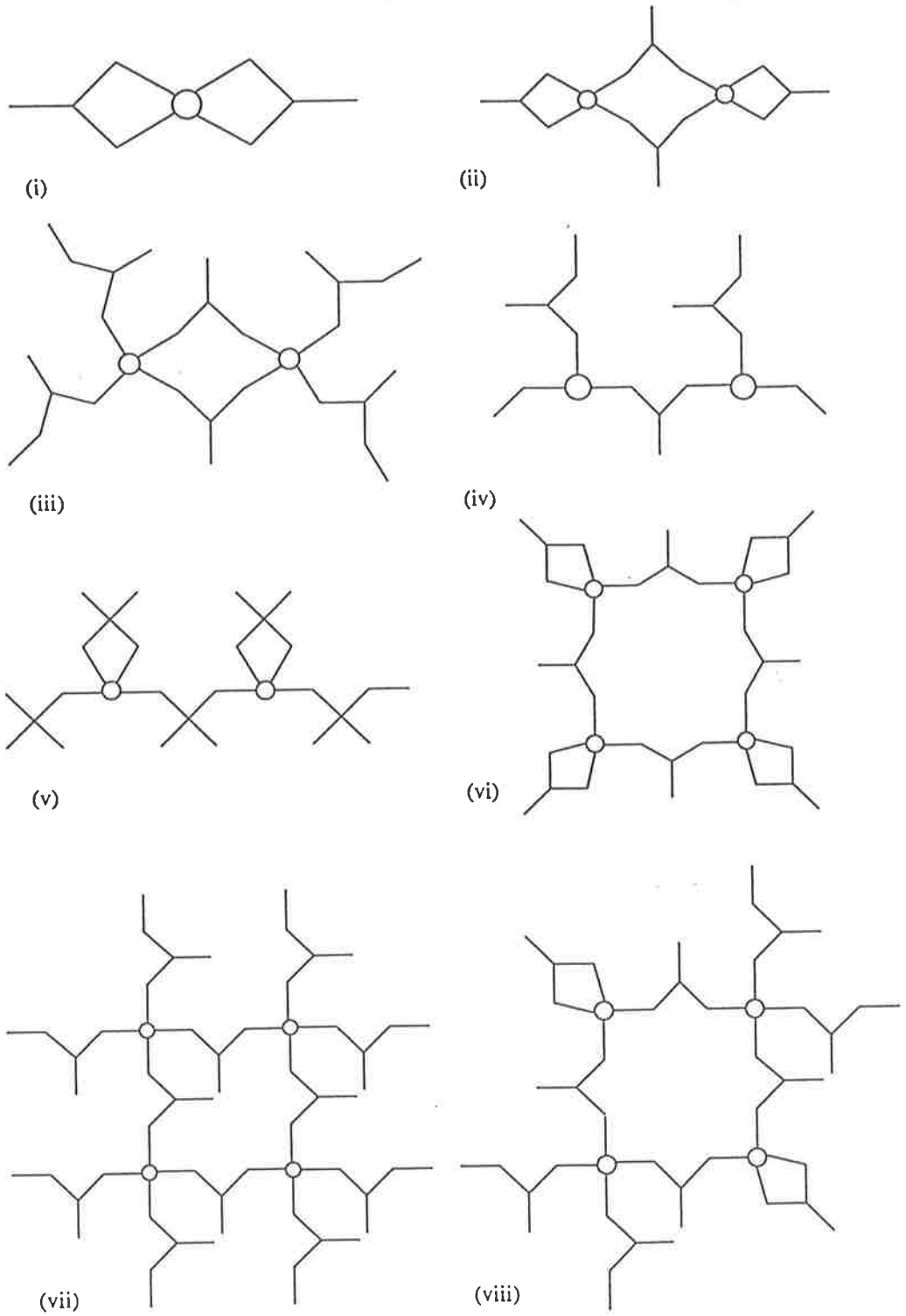


Fig. 1.13 Schematic diagrams of the major structural motifs found in the solid state for zinc, cadmium, and mercury bis (1,1-dithiolates): (i) motifs F and J, (ii) motifs C and D (C' and D'), (iii) motif I, (iv) motif G, (v) motif E, (vi) motif A, (vii) motif B and (viii) motif H.

Table 1.4 Summary of structural motifs for zinc, cadmium and mercury bis (1,1-dithiolates) *

Motif	Compound
A	$[Zn(S_2COiPr)_2]$
B	$[Zn(S_2COEt)_2]$; $[Cd(S_2COEt)_2]$; $[Cd(S_2COiPr)_2]$; $[Cd(S_2COnBu)_2]$; α-and β-$[Hg(S_2COEt)_2]$; $[Hg(S_2COnPr)_2]$
C	$[Zn(S_2CNMe_2)_2]$; $[Zn(S_2P(OiPr)_2)_2]$; $[Zn(S_2PEt_2)_2]$
C'	$[Cd(S_2CNnBu_2)_2]$; $[Cd(S_2P(OiPr)_2)_2]$
D	$[Zn(S_2CNEt_2)_2]$; $[Zn(S_2CNnPr_2)_2]$; $[Zn(S_2CNiPr_2)_2]$; $[Zn(S_2CNR^1{}_2)_2]$; $[Zn(S_2CNR^2)_2]$; $[Zn(S_2CNR^3)_2]$; $[Zn(S_2PnPr_2)_2]$
D'	$[Cd(S_2CNEt_2)_2]$; $[Cd(S_2CNR^3)_2]$; $[Cd(S_2P(OCy)_2)_2]$; $[Cd(S_2PEt_2)_2]$; $[Cd(S_2PPh_2)_2]$; α-$[Hg(S_2CNEt_2)_2]$
E	$[Zn(S_2P(OEt)_2)_2]$; $[Hg(S_2P(OiPr)_2)_2]$
F	$[Cd(S_2COCH_2CH_2OMe)_2]$; β-$[Hg(S_2CNEt_2)_2]$
G	$[Hg(S_2COMe)_2]$
H	$[Hg(S_2COiPr)_2]$
I	$[Hg(S_2CNH_2)_2]$
J	$[Hg(S_2CNiPr_2)_2]$

* $R^1 = -CH_2C(H)CH_2$; $R^2 = (CH_2)_4$; $R^3 = (CH_2)_6$

Although there is only a small number of dithiophosphate/dithiophosphinate structures available, most are dimeric. The reasons for the rich structural diversity in these compounds, and indeed in related systems (Haiduc, Sowerby, Lu, 1995; Tiekink, Winter, 1992; Tiekink, 1991, 1992, 1994, 1995), is not clear.

In the present case, the demands of the central element clearly influences the ultimate structure adopted in the solid state. Further, the ability of the 1,1-dithiolate ligands themselves to adopt different coordination modes, ranging from monodentate to bidentate, as well as weaker associations, is manifest. Over and above these considerations, one needs to take into account i) electronic and ii) steric factors associated with the 1,1-dithiolate ligands, and more difficult to quantify, iii) crystal packing effects. This is particularly true for instances where very different structures are observed for only minor changes in the composition of the ligands, *e.g.* the $[Hg(S_2COR)_2]$ compounds.

In order to ascertain the relative importance of these factors in xanthate and dithiocarbamate (^-S_2COR and $^-S_2CNR_2$, R=alkyl, aryl) structures, a systematic investigation of their solid state structures has been undertaken. To begin, data of nickel(II) bis(xanthates) and nickel(II) bis(dithiocarbamates) was collated with several additional related structures so as to ascertain whether there are any systematic features in the nickel-atom geometries that may be correlated with the electronic and/or steric profiles of the ligands.

The decision to systematically examine the structures of nickel(II) bis xanthates and nickel(II) bis(dithiocarbamates) is motivated by two primary reasons. The first relates to the fact that there is a characteristic mode of coordination of the 1,1-dithiolate ligands in these nickel(II) complexes. Without exception all of the nickel(II) complexes studied thus far crystallise with a square planar geometry of sulfur atoms around the nickel centre. This affords the possibility of systematically investigating the coordinating ability of the 1,1-dithiolate ligands in a consistent coordination environment. The square planar geometry adopted suggests that the steric profiles of the ligands do not influence the coordination geometry and hence, the electronic effects of the ligands may be

monitored. A second reason is the availability of a relatively large number of X-ray crystallographic studies thereby making possible a thorough and comprehensive analysis of the effect on the nickel atom geometry of changing the R substituent in each series of complexes.

Following the investigation of the nickel 1,1-dithiolate compounds a similar investigation involving a main group metal is undertaken. Tellurium was chosen as the structural chemistry of the tellurium bis(xanthates), $Te(S_2COR)_2$, and bis(dithiocarbamates), $Te(S_2CNR_2)_2$, is remarkable in that a common structural motif is adopted for these compounds in the solid state. In this respect, the tellurium compounds resemble the situation found in many transition metal bis xanthate complexes (Tiekink, Winter, 1992).

Given that a consistent motif is found for the tellurium bis(1,1-dithiolates) and nickel bis(1,1-dithiolates), the opportunity exists to systematically analyse their structures with the view of determining the influence on the nickel/tellurium atom geometry of moderating the nature (electronic/steric) of the R substituents of the ligands, *i.e.* to discover whether a correlation exists between the Ni-S/Te-S distances and R. In this way, it may be possible to ascertain the magnitude of the 'electronic' effect of R and hence, provide information on the coordinating ability of the ligands as R is varied.

Following the above investigation, the structural investigation into the coordination of 1,1-dithiolates to the metals zinc, cadmium and mercury, in that order is undertaken. Several new structures for each metal is reported and a comparison with the literature analogs results. The structures were analysed in order to determine the reason(s) for their observed structural diversity. Finally, in order to investigate the electronic profile of the xanthate and dithiocarbamate anions further, their theoretical structures were calculated employing *ab initio* molecular orbital theory.

Chapter 2

EXPERIMENTAL

This chapter is divided into two parts, firstly a discussion of the instrumentation used to characterise the compounds and a general procedure for solving their crystal structures, with specifics for a particular compound reported in the Appendix. Secondly the synthesis of the ligands and the compounds is reported with the characterisation of the compounds discussed. All experimental procedures were undertaken by the author.

2.1 INSTRUMENTATION

2.1.1 *Infrared spectroscopy (IR)*

Infrared spectra for all compounds were recorded as KBr discs on a Perkin-Elmer 1720X FT spectrometer in the range of 4000 - 400 cm^{-1} and calibrated with the polystyrene absorption at 1601 cm^{-1}.

2.1.2 *Nuclear magnetic resonance spectroscopy (NMR)*

Proton (^{1}H) and carbon-13 proton decoupled (^{13}C) NMR spectra were recorded on a either a Bruker ACP-300 or Gemini 200 NMR spectrometer with deuterated chloroform, $CDCl_3$, as the solvent. The recording frequencies used were 300.145 (199.953) MHz for ^{1}H NMR and 75.479 (50.283) MHz for ^{13}C NMR. The internal reference used was $SiMe_4$ (TMS). Selected samples were recorded in deuterated DMSO due to the lack of solubility in $CDCl_3$.

2.1.3 *Melting points*

All melting points were determined using a Gallenkamp melting point apparatus calibrated with benzil (m. pt 94-95°C).

2.1.4 *Crystallography*

Crystal data and refinement details for all structures are listed in the Appendix of this thesis. This section outlines the general procedures employed for each analysis. Crystals were mounted on glass fibers using super glue or silicon grease. Collection temperatures were either room temperature, 20°C or colder at -70°C or -160°C as noted in the crystallographic parameter tables.

Intensity data were measured on a Rigaku AFC6R diffractometer fitted with Mo$K\alpha$ (graphite monochromator) radiation, λ = 0.71073 Å. The ω:2θ scan technique was employed to measure data up to a maximum Bragg angle of 25.0-27.5°. The net intensity values of three standard reflections, remeasured after every 400 intensity measurements, allowed for the determination of crystal stability. The data sets were corrected for Lorentz and polarization effects (teXsan, 1993) and for absorption effects employing an empirical correction (Walker, Stuart, 1983). DIFABS was typically applied twice. The first correction was applied after the inclusion of all atoms and refinement of the non-hydrogen atoms isotropically. The second application was after anisotropic refinement. Accordingly, two sets of transmission factors were calculated and those reported in the appendices are the final ranges. Thus, given the empirical nature of the correction and its mode of application, the transmission factor range is arbitrary and does not necessarily have physical meaning. All of the unique reflections measured were used in the subsequent analysis. Values reported in the Tables of bond lengths and angles in the text were calculated using reflections that satisfied the $I \geq 3.0\sigma(I)$ criterion of observability.

The unit cell dimensions were determined from the least squares refinement of 25 carefully-centred reflections in all cases.

All the structures were solved by direct-methods (Beurskens, Admiraal, Beuskens, Bosman, García-Granda, Smits, Smykalla, 1992) and each refined by a full-

matrix least-squares procedure based on F and $\underline{F}^2$ (all data) (teXsan, 1993). The function minimised was

$$\sum_{i=1}^{n} w_i (|F_{obs}|_i - |F_{calc}|_i)^2$$

where n is the number of reflections, and

$$w = \frac{1}{\sigma^2(F_{obs})}.$$

Non-hydrogen atoms were refined with anisotropic displacement parameters (where possible) and hydrogen atoms were included in their calculated positions (C-H 0.97 Å). A sigma weighting scheme was applied and the refinement continued until convergence in each case. At convergence, the values of R and R_w were obtained, where

$$R = \frac{\sum_{i=1}^{n} (|F_{obs}|_i - |F_{calc}|_i)}{\sum_{i=1}^{n} |F_{obs}|_i} \text{ and } R_w = \left\{ \frac{\sum_{i=1}^{n} w_i (|F_{obs}|_i - |F_{calc}|_i)^2}{\sum_{i=1}^{n} w_i |F_{obs}|^2} \right\}.$$

The analysis of variance for each refinement revealed no special features indicating that an appropriate weighting scheme was applied in each case.

Scattering factors for all the atoms were those incorporated in the teXsan software package (teXsan, 1993) which was installed on a Silicon Graphics Iris Indigo computer system. Tables of bond distances and bond angles, fractional atomic coordinates, anisotropic thermal and hydrogen atom parameters, and structure factors for all determinations are located in the Appendices. The expression for the anisotropic thermal parameter is

$$T_{aniso} = \exp[-2\pi^2(h^2a^{*2}U_{11} + k^2b^{*2}U_{22} + l^2c^{*2}U_{33} + 2hka^*b^*U_{12} + 2hla^*c^*U_{13} + 2klb^*c^*U_{23})]$$

and the expression for *B*eq is

$$B_{eq} = \frac{8\pi^2(U_{11} + U_{22} + U_{33})}{3}.$$

All diagrams were drawn utilising the ORTEP program (Johnson, 1976) at 50% probability thermal ellipsoids unless otherwise specified, with unit cell diagrams drawn at 25% probability thermal ellipsoids.

When appropriate, the absolute configuration of a structure was determined by refining each hand and comparing the final values of R_w. As a matter of course, each chiral structure was examined by the 'Look for Centres of Symmetry' routine in teXsan (teXsan, 1993).

2.2 SYNTHESIS

2.2.1 *Chemicals*

A number of 1,1-dithiolate ligands were synthesised and then coordinated to the appropriate metal atom. The alcohols used in the syntheses of the xanthate ligands were: 3,3-dimethyl-n-butanol, 3-methyl-n-butanol, 1-propanol, 2-propanol, 1-butanol, hexyl alcohol, cyclohexanol, 1-pentanol, benzyl alcohol and were used as obtained.

The amines used in the synthesis of the dithiocarbamate ligands include: dimethylamine, diisopropylamine, dibutylamine, dicyclohexylamine, diisobutylamine, cyclohexylisopropylamine, cyclohexylethylamine and were used without further purification.

The metal atoms came from the following compounds, nickel chloride, cadmium chloride, mercury(II)chloride, zinc chloride and tellurium oxide and were used without purification.

Carbon disulphide and sodium/potassium hydroxide were used as supplied. All the solvents employed for recrystallisation were of analytical grade and were used as obtained.

2.2.2 *Preparation of starting materials.*

Xanthates

The preparation of the xanthates followed the established literature procedure (Coucouvanis, 1970). This required dissolving NaOH/KOH (usually 5 grams) in an excess of the appropriate alcohol. Once dissolved CS_2 was added dropwise in excess. A pale yellow to orange precipitate would develop on addition of CS_2 and the solution was stirred for 1 hour to ensure completion of the reaction before being left to dry.

Dithiocarbamates

A similar procedure to that outlined above was employed for the synthesis of the dithiocarbamates as described in the literature (Coucouvanis, 1970). NaOH/KOH was dissolved in an excess of the required amine and excess CS_2 was added dropwise. The solution developed a pale yellow to orange precipitate on the addition of CS_2 and was stirred for a further hour before it was left to dry. The dithiocarbamates were then recrystallised from acetone or an acetone/petroleum spirit mixture before being used.

2.2.3 *Preparation of bis(xanthate/dithiocarbamate)M(II) compounds, M = Ni, Zn, Cd, Hg*

The procedure to coordinate the 1,1-dithiolate ligand to the metal atom involved the 1:2 reaction between $NiCl_2.6H_2O$ ($ZnCl_2$, $CdCl_2$, $HgCl_2$) and the respective

Table 2.1 Physical characteristics of the compounds obtained.

Compound	colour	m. pt. (°C)	recrystallisation solvent
[Ni(S_2COMe)2]	Brown	136-137	$CHCl_3$/iPrOH [a]
[Ni(S_2COnPr)2]	Brown	105-106	$CHCl_3$/Pet Spirit 120-160 [b]
[Ni(S_2COiPr)2]	Brown	116-117	$CHCl_3$/Pet Spirit 120-160 [b]
[Ni(S_2COnBu)2]	Brown	95	Acetonitrile/ether [b]
[Ni(S_2CO3-MeBu)2]	Brown	91	Acetonitrile /ether [b]
[Ni(S_2CO3,3-DiMeBu)2]	Brown	143	Acetonitrile /ether [b]
[Ni(S_2COiBu)2]	Brown	138-139	$CHCl_3$/iPrOH [a]
[Ni(S_2COHex)2]	Brown	52-53	Acetone/ Acetonitrile [a]
[Ni(S_2COCy)2]	Brown	168-169	CH_2Cl_2/ Acetonitrile [a]
[Ni(S_2CN(Cy)2)2]	Olive green	180-181 dec.	CH_2Cl_2/EtOH [a]
[Ni(S_2CN(Cy)Et)2]	Olive green	218	Acetone/iPrOH [a]
[Te(S_2COnPr)2]	Red	80	CH_2Cl_2/EtOH [a]
[Te(S_2COiBu)2]	Red	88-89	Acetone/iPrOH [a]
[Te(S_2CO-3,3-Me_2Bu)2]	Red	125-126	$CHCl_3$/EtOH [a]
[Te(S_2COCH_2Ph)2]	Red	115-116	CH_2Cl_2/EtOH [a]
[Te(S_2CNCy2)2]	Red	225-227 dec.	$CHCl_3$/EtOH [a]
[Zn(S_2COnBu)2]	Colourless	119-120	Benzene/Pet Spirit 100/120[a]
[Zn(S_2CN(Cy)2)2]	Colourless	219-221	CH_2Cl_2/ Acetonitrile [a]
[Zn(S_2CN(Et)Cy)2]	Colourless	175-177	$CHCl_3$/EtOH [a]
[Cd(S_2CN(iPr)2)2]	Colourless	218 dec.	DMF
[Cd(S_2CN(iBu)2)2]	Colourless	167	CH_2Cl_2/iPrOH [a]
[Cd(S_2CN(Cy)2)2]	Colourless	>350	CH_2Cl_2/iPrOH [a]
[Cd(S_2CN(Et)Cy)2]	Colourless	236-238	$CHCl_3$/EtOH [a]

Table 2.1 Cont.

Compound	colour	m. pt. (°C)	recrystallisation solvent*
[Hg(S_2COnBu)2]	Pale yellow	75-76	Actone [c]
[Hg(S_2CO-3-MeBu)2]	Pale yellow	65-66	Acetonitrile /ether [b]
[Hg(S_2CO-3,3-Me_2Bu)2]	Pale yellow	118-119	CHCl3/Acetone [a]
[Hg(S_2COnPent)2]	Pale yellow	63-64	CH_2Cl_2/ Acetonitrile [a]
[Hg(S_2CN(Me)2)2]	Pale yellow	262-263	CH_2Cl_2
[Hg(S_2CN(nBu)2)2]	Pale yellow	59-60	Acetonitrile
[Hg(S_2CN(iBu)2)2]	Pale yellow	87-88	DMF
[Hg(S_2CN(Et)Cy)2]	Pale yellow	160-162	Acetone/iPrOH [a]
[Hg(S_2CN(iPr)Cy)2]	Pale yellow	172-173	Acetone/iPrOH [a]

[a] Mixture of the two solvents was in a ratio of (1/1).

[b] Vapour diffusion method used with compound dissolved in first solvent and vapour of second solvent diffused into mixture.

[c] The solution was left in the fridge.

dec. The compound decomposed.

dithiolate salt in aqueous solution. The recovered precipitate was recrystallised from solutions of the complexes, listed in Table 2.1. Although a large number of compounds were synthesized, only those resulting in crystals suitable for X-ray diffraction are reported, with physical characteristics collected in Table 2.1.

2.2.4 *Preparation of bis (xanthate/dithiocarbamate)Te(II) compounds*

The compounds were prepared by employing a literature method (Hoskins, Tiekink, Winter, 1985). This method involved the 1:2 reaction between TeO_2 and the respective dithiolate salt in aqueous solution. The TeO_2 was first dissolved in a minimum quantity of warm HCl before the dithiolate salt was added to the stirred solution. The complex was separated as soon as possible from the acidified solution using either $CHCl_3$ or CH_2Cl_2. This solution was evaporated which resulted in a red oil or solid which was then recystallised. As with other metal complexes only those compounds that afforded crystals suitable for X-ray diffraction are reported, and the physical characteristics are listed in Table 2.1.

2.3 SPECTROSCOPIC CHARACTERISATION

Despite the fact that several of these ligands and complexes have been reported previously, characterisation of crystals was conducted prior to X-ray crystal structure analysis, to ensure the correct compound was synthesised, and to explore the possibility of a comparison between the solution phase and the solid state. To characterize the compound infrared (IR) data (section 2.3.1) and ^{1}H, ^{13}C nuclear magnetic resonance (NMR) data (section 2.3.2) was collected. The spectroscopic data ensures a pure compound and identifies the respective parts of the compound.

2.3.1 *IR spectroscopy*

Xanthates

The spectroscopic data of numerous xanthate ligands and complexes is available in the literature. Table 2.2 summarizes the IR spectroscopic data of the xanthate complexes with two strong absorptions which are characteristic of xanthate ligands, found in the regions 1296 – 1182 cm^{-1} and 1083 – 1010 cm^{-1} and these are assigned to υ(C-O) and υ(C=S), respectively (Winter, 1980).

Dithiocarbamates

The dithiocarbamate ligand is similar to the xanthate ligand in that it contains two strong absorption bands that are sensitive to the nature of the metal to ligand coordination and these are in the regions 1503 – 1441 cm^{-1} and 1036 – 950 cm^{-1}. These bands are assigned as υ(C-N) stretch and the υ(C-S) stretch, respectively (Brown, Glass, Burke, 1976). All complexes possess absorption bands in these regions and are listed in Table 2.3.

In summary the IR spectroscopic data identifies the presence of the functional group S_2CO or S_2CN and the complexation of the ligand to the metal atom due to the shift in their characteristic absorption bands.

2.3.2 *NMR spectroscopy*

The ^{13}C NMR spectra of the xanthate and dithiocarbamate compounds are summarised in Tables 2.6 and 2.7, respectively and similar to the proton NMR spectra the carbon atoms resonate in the expected positions. The chemical shifts of the quaternary carbon (Cq) are moved upfield relative to the free ligand, suggesting a decrease in the delocalisation of the electrons in the S_2CO or S_2CN chromophore. The

Table 2.2 IR spectroscopic data for the xanthate complexes.

Compound	υ(C - O)	υ(C - S)
[Ni(S_2COMe)$_2$]	1236(s)	1041(s)
[Ni(S_2COiPr)$_2$]	1278(s)	1083(s)
[Ni(S_2COnPr)$_2$]	1280(m) 1267(s)	1043(s)
[Ni(S_2COnBu)$_2$]	1277(s) 1264(s)	1034(s) 1017(s)
[Ni(S_2COiBu)$_2$]	1268(s)	1043(s)
[Ni(S_2CO-3-MeBu)$_2$]	1280(s) 1271(s)	1028(m)
[Ni(S_2CO-3,3-Me_2Bu)$_2$]	1281(s) 1253(s)	1025(m)
[Ni(S_2COHex)$_2$]	1296(m) 1268(s)	1044(m) 1023(s)
[Ni(S_2COCy)$_2$]	1272(s) 1263(s) 1243(s)	1041(s)
[Te(S_2COnPr)$_2$]	1220(s)	1035(s)
[Te(S_2COiBu)$_2$]	1223(s)	1038(s)
[Te(S_2CO-3,3-Me_2Bu)$_2$]	1214(s)	1032(s) 1040(m)
[Te(S_2COCH$_2$Ph)$_2$]	1232(s) 1224(s) 1206(s)	1041(s)
[Zn(S_2COnBu)$_2$]	1206(s)	1043(s)
[Hg(S_2COnBu)$_2$]	1198(s)	1033(s) 1062(m)
[Hg(S_2CO-3-MeBu)$_2$]	1202(m)	1027(s)
[Hg(S_2CO-3,3-Me_2Bu)$_2$]	1197(s) 1182(s)	1027(s)
[Hg(S_2COnPent)$_2$]	1200(s)	1010(s)

s strong; m medium; w weak.

Table 2.3 IR spectroscopic data for the dithiocarbamate compounds.

Compound	υ(C - N)	υ(C - S)
[Ni(S_2CNCy_2)2]	1479(s)	1036(m)
[Ni($S_2CN(Et)Cy$)2]	1486(s)	1007(w)
[Te(S_2CNCy_2)2]	1449(s) 1468(m)	998(m)
[Zn(S_2CNCy_2)2]	1476(s)	998(w)
[Zn($S_2CN(Et)Cy$)2]	1484(s)	997(m)
[Cd(S_2CNiPr_2)2]	1480(m) 1463(m)	1035(m)
[Cd(S_2CNiBu_2)2]	1488(s) 1466(s)	979(m)
[Cd(S_2CNCy_2)2]	1473(m) 1442(s)	998(m)
[Cd($S_2CN(Et)Cy$)2]	1485(s)	1011(m)
[Hg(S_2CNMe_2)2]	1503(s)	964(s)
[Hg(S_2CNiBu_2)2]	1490(s)	974(m)
[Hg(S_2CNnBu_2)2]	1491(s)	950(m)
[Hg($S_2CN(Et)Cy$)2]	1479(s)	1011(m)
[Hg($S_2CN(iPr)Cy$)2]	1478(s) 1441(s)	1002(m)

s strong; m medium; w weak.

Table 2.4 ^{1}H NMR data for $M(S_2COR)_2$ M = Ni, Te, Zn, Cd and Hg[a].

Compound	H1	H2	H3	H4	H5	H6
$[Ni(S_2COMe)_2]$	4.13, s					
$[Ni(S_2COnPr)_2]$	4.43, t (6.58)	1.81, m (7.04)	0.99, t (7.40)			
$[Ni(S_2COiPr)_2]$	5.43, m (6.15)	1.44, d (6.40)				
$[Ni(S_2COnBu)_2]$	4.50, t (6.54)	1.80, m (7.00)	1.45, m (7.42)	0.96, t (7.36)		
$[Ni(S_2COiBu)_2]$	4.28, d (6.60)	2.15, m (6.60)	1.01, d (6.60)			
$[Ni(S_2CO\text{-}3\text{-}MeBu)_2]$	4.53, t (6.35)	1.81 - 1.56, m		0.95, d (5.96)		
$[Ni(S_2CO\text{-}3,3\text{-}Me_2Bu)_2]$	4.56, t (7.31)	1.75, t (7.28)	0.96, s			
$[Ni(S_2COCy)_2]$	5.19, m (6.30)		1.97 - 1.25, m			
$[Ni(S_2COHex)_2]$	4.47, t (6.40)	1.78, m (7.20)		1.5 - 1.2, m		0.88, t (6.60)
$[Te(S_2COnPr)_2]$	4.55, t (6.61)	1.88, m (7.10)	1.03, t (7.38)			
$[Te(S_2COiBu)_2]$	4.37, d (6.60)	2.19, m (6.70)	1.03, d (6.70)			
$[Te(S_2CO\text{-}3,3\text{-}Me_2Bu)_2]$	4.66, t (7.40)	1.78, t (7.40)	0.98, s			
$[Te(S_2COCH_2Ph)_2]$	5.61, s		7.23 - 7.41, m			

Table 2.4 Cont.

Compound	H1	H2	H3	H4	H5	H6
[Zn(S_2COnBu)$_2$]	4.51, t (6.60)	1.83, m (7.05)	1.47, m (7.50)	0.97, t (7.35)		
[Hg(S_2COnBu)$_2$]	4.47, t (6.45)	1.80, m (7.05)	1.45, m (7.50)	0.97, t (7.35)		
[HgS_2CO (nPent)$_2$]	4.46, t (6.60)	1.82, m (6.80)	1.43 - 1.36, m		0.93, t (4.60)	
[Hg(S_2CO-3-MeBu)$_2$]	4.50, t (6.45)	1.82 - 1.67, m		0.96, d (6.60)		
[Hg(S_2CO-3,3-Me$_2$Bu)$_2$]	4.53, t (7.20)	1.76, t (7.35)	0.97, s			

a coupling constants are in parentheses: ^{3}J(HH)

br = broad, d = doublet, m = multiplet, s = singlet, t = triplet.

H1 corresponds to the hydrogen atoms nearest the oxygen atom with numbering of the hydrogen atoms increasing further away from the oxygen atom.

Table 2.5 ^{1}H NMR data for $M(S_2CNR_2)_2$ M = Ni, Te, Zn, Cd, and Hg[a].

Compound	H1	H2	H3	H4	H_α	H_β:H_δ
$[Ni(S_2CNCy_2)_2]$					5.19, br	1.83 - 1.07
$[Ni(S_2CN(Et)Cy)_2]$	3.55, q (7.20)	1.26, t (6.90)			4.37, br	1.85 - 1.09
$[Te(S_2CNCy_2)_2]$					5.01, br	1.85 - 1.20
$[Zn(S_2CNCy_2)_2]$					4.98, br	1.85 - 1.06
$[Zn(S_2CN(Et)Cy)_2]$	3.73, q (6.90)	1.20, t (7.20)			4.83, br	1.74 - 1.06
$[Cd(S_2CNiPr_2)_2]$	3.38, m (6.30)	1.43, d (6.30)				
$[Cd(S_2CNiBu_2)_2]$	3.73, d (7.60)	2.49, m (6.90)	0.96, d (6.80)			
$[Cd(S_2CNCy_2)_2]$					5.12, br	1.87 - 0.99
$[Cd(S_2CN(Et)Cy)_2]$	3.75, br	1.20, br			4.88, br	1.79 - 1.20
$[Hg(S_2CNMe_2)_2]$	3.48, s					
$[Hg(S_2CNnBu_2)_2]$	3.72, t (7.65)	1.78, m (7.50)	1.35, m (7.50)	0.95, t (7.35)		
$[Hg(S_2CNiBu_2)_2]$	3.61, d (7.60)	2.45, m (6.95)	0.97, s (6.60)			

Table 2.5 Cont.

Compound	H1	H2	H3	H4	H_α	H_β - H_δ
$[Hg(S_2CN(Et)Cy)_2]$	3.79, q (7.07)	1.35, t (7.20)			4.67, br	1.99 - 1.25
$[Hg(S_2CN(iPr)Cy)_2]$	3.92, br	1.60, br			4.76, br	1.86 - 1.14

a coupling constants are in parentheses: $^3J(HH)$

br = broad, d = doublet, m = multiplet, s = singlet, t = triplet.

H1 corresponds to the hydrogen atoms nearest the nitrogen atom with the numbering of the hydrogen atoms increasing further away from the nitrogen atom.

H atoms with greek letters identify the Cy group.

Table 2.6 ^{13}C NMR data for $M(S_2COR)_2$, M=Ni, Te, Zn, Cd, Hg[a].

Compound	C_q	C1	C2	C3	C4	C5	C6
$[Ni(S_2COMe)_2]$	232.43	57.96					
$[Ni(S_2COnPr)_2]$	231.48	73.56	21.59	10.16			
$[Ni(S_2COiPr)_2]$	230.36	77.97	21.54				
$[Ni(S_2COnBu)_2]$	231.37	72.25	30.05	18.87	13.54		
$[Ni(S_2COiBu)_2]$	231.54	78.04	27.62	18.76			
$[Ni(S_2CO\text{-}3\text{-}MeBu)_2]$	230.93	71.08	36.61	24.79	22.29		
$[Ni(S_2CO\text{-}3,3\text{-}Me_2Bu)_2]$	231.26	70.32	41.05	29.82	29.46		
$[Ni(S_2COHex)_2]$	231.54	72.56	31.21	28.05	25.24	22.40	13.89
$[Ni(S_2COCy)_2]$	230.36	82.65	31.11	24.86	23.30		
$[Te(S_2COnPr)_2]$	215.76	77.42	21.83	10.31			
$[Te(S_2COiBu)_2]$	215.71	81.79	27.84	18.93			
$[Te(S_2CO\text{-}3,3\text{-}Me_2Bu)_2]$	215.69	73.65	41.37	29.85	29.54		
$[Te(S_2COCH_2Ph)_2]$	n.o.	77.18	137.39	128.69	127.42	129.40	

Table 2.6 Cont.

Compound	C_q	C1	C2	C3	C4	C5	C6
[Zn(S_2COnBu)$_2$]	230.75	78.43	30.34	18.93	13.53		
[Hg(S_2COnBu)$_2$]	222.66	77.82	30.29	19.04	13.60		
[Hg(S_2COnPent)$_2$]	222.45	78.09	28.02	27.94	22.25	13.85	
[Hg(S_2CO-3-MeBu)$_2$]	222.34	76.62	36.90	25.02	22.37		
[Hg(S_2CO-3,3-Me$_2$Bu)$_2$]	222.33	75.90	41.26	29.87	29.56		

a Cq is the quaternary carbon. The carbon atoms are numbered with C1 coordinated to the oxygen atom and the numbering of the carbon atoms increasing further away from the oxygen atom.

n.o. not observed.

Table 2.7 ^{13}C NMR data for $M(S_2CNR_2)_2$, M = Ni, Te, Zn, Cd, Hg[a].

Compound	C_q	C1	C2	C3	C4	C_α	C_β
$[Ni(S_2CNCy_2)_2]$	206.14	60.23	29.59	25.95	25.03		
$[Ni(S_2CN(Et)Cy)_2]$	206.38	58.87	30.24	25.46	25.19	40.53	14.33
$[Te(S_2CNCy_2)_2]$	193.74	53.89	29.27	25.13	24.73		
$[Zn(S_2CNCy_2)_2]$	201.98	53.22	29.57	25.80	25.11		
$[Zn(S_2CN(Et)Cy)_2]$ *	203.17	43.29	29.84	25.33	24.68	63.58	13.97
$[Cd(S_2CNiPr_2)_2]$ *	n.o.	45.81	19.28				
$[Cd(S_2CNiBu_2)_2]$ *	204.88	64.43	27.00	20.34			
$[Cd(S_2CNCy_2)_2]$ *	n.o.	52.15	32.69	25.48	24.40		
$[Cd(S_2CN(Et)Cy)_2]$ *	204.14	43.83	29.89	25.35	24.71	64.49	13.99
$[Hg(S_2CNMe_2)_2]$ *	n.o.	46.66					
$[Hg(S_2CNnBu_2)_2]$	203.50	56.88	28.89	20.01	13.69		
$[Hg(S_2CNiBu_2)_2]$	205.26	64.52	27.03	20.21			

Table 2.7 Cont.

Compound	C_q	C1	C2	C3	C4	C_α	C_β
$[Hg(S_2CN(Et)Cy)_2]$	201.92	45.55	30.65	25.53	25.22	67.31	13.94
$[Hg(S_2CN(iPr)Cy)_2]$	203.48	52.41	29.67	25.64	25.15	60.61	19.86

* spectra recorded in deuterated DMSO.

a Cq is the quaternary carbon. The carbon atoms are numbered with C1 coordinated to the nitogen atom and the numbering of carbons increases further away from the nitogen atom. Carbon atoms with greek letters correspond to the Et/iPr carbons in the ligand.

spectra suggest fluxionality of the ligands on the time scale of the NMR experiment with equivalent carbon atoms resonating together resulting in clean spectra.

Similar to the IR spectroscopy, NMR spectroscopy identifies the presence of the ligands by characteristic resonances, and the complexation of the ligand to the metal atom is identified due to the movement of these resonances upfield with respect to the free ligand. The spectra display equivalence of carbons and protons of the ligands with equivalent carbons and protons resonating together, implying that on the time scale of the NMR experiment the ligands are free to rotate in the solution phase.

Chapter 3

NICKEL(II) BIS 1,1-DITHIOLATES

In this chapter the crystal and molecular structures of nine new $Ni(S_2COR)_2$ and two new $Ni(S_2CNR_2)_2$ complexes are reported and their structural characteristics described. The derived interatomic parameters of the new structures are then compared with literature structures in order to make an assessment of the coordinating ability of the xanthate and dithiocarbamate ligands in their respective nickel(II) complexes.

3.1 XANTHATE STRUCTURES

The molecular structure of $[Ni(S_2COMe)_2]$ is shown in Fig. 3.1 and selected interatomic parameters for this structure and the other xanthate complexes described herein are given in Table 3.1. The four sulfur atoms adopt an essentially square planar geometry around the central nickel atom with the nickel atom lying 0.091(1) Å above the least-squares plane through the S_4 donor set (mean deviation: 0.042 Å). The bidentate coordination of the methylxanthate ligands lead to the formation of two four membered rings with the nickel atom at the apex of each. Distortions from the ideal geometry may be traced to the restricted bite angle of the xanthate ligand which leads to acute S-Ni-S chelate angles of 79.24(7)° and 79.34(7)°, respectively. The two ligands may be considered as forming essentially equivalent Ni-S bonds with the Ni-S separations being experimentally equivalent. There is a close intermolecular contact in the lattice that occurs between the nickel and symmetry related S(1) atom of 3.167(2) Å (symmetry operation 1-*x*, -*y*, 1-*z*). This contact is within the sum of the van der Waals radii for nickel and sulfur of 3.4 Å (Bondi, 1964), however it does not appear to influence significantly the length of intramolecular Ni-S interactions. Reflecting the equivalence in the Ni-S distances, the C-S bond distances are equal within experimental error at 1.685(7) Å and 1.712(6) Å, respectively. The C(1)-O(1) and C(3)-O(2) separations of 1.308(7) Å and 1.297(7) Å, respectively are shorter than the O(1)-C(2) and O(2)-C(4) separations of 1.444(8) Å and

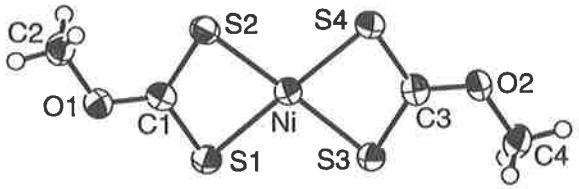


Fig. 3.1 Molecular structure of $[Ni(S_2COMe)_2]$ showing the crystallographic numbering scheme.

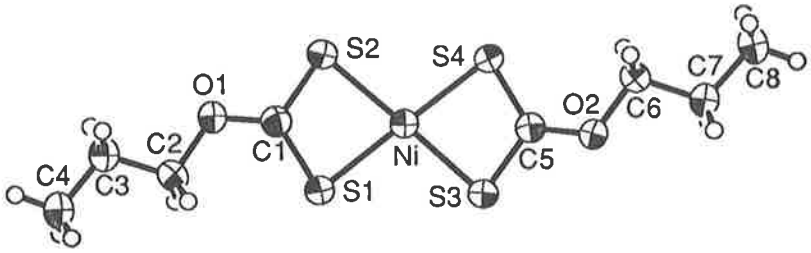


Fig. 3.2 Molecular structure of $[Ni(S_2COnPr)_2]$ showing the crystallographic numbering scheme.

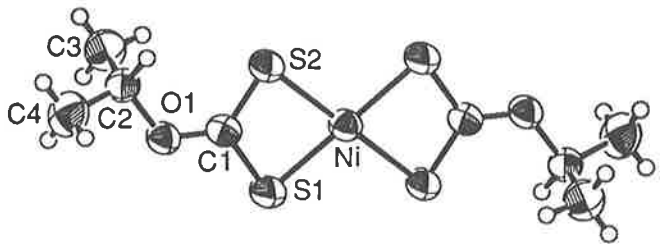


Fig. 3.3 Molecular structure of $[Ni(S_2COiPr)_2]$ showing the crystallographic numbering scheme.

Table 3.1 Selected bond distances (Å) and bond angles (deg.) for $Ni(S_2COR)_2$

R	Ni-S(1)	Ni-S(2)	av. Ni-S	Ni···S[a]	S(1)-C	S(2)-C	C-O	S-Ni-S	S-C-S
Me [b]	2.209(2)	2.221(2)	2.218(1)	3.167(2)	1.702(6)	1.678(6)	1.308(7)	79.24(7)	113.4(3)
	2.220(2)	2.221(2)			1.712(6)	1.685(7)	1.297(7)	79.34(7)	113.1(3)
Et [c]	2.210(2)	2.212(2)	2.211(1)	3.448(2)	1.696(5)	1.679(5)	1.306(6)	79.4(6)	113.6(3)
CH_2CF_3 [d]	2.218(4)	2.223(5)	2.214(2)	3.42(1)	1.71(2)	1.68(2)	1.29(2)	79.0(2)	114(1)
	2.203(5)	2.211(4)			1.70(1)	1.69(1)	1.31(2)	79.2(2)	113(1)
nPr [b]	2.204(1)	2.223(1)	2.214(1)	3.275(1)	1.694(3)	1.682(3)	1.308(3)	79.09(3)	113.2(2)
	2.215(1)	2.215(1)			1.689(3)	1.688(3)	1.303(3)	79.20(3)	113.5(2)
iPr [b]	2.199(2)	2.212(2)	2.206(1)	3.563(9)	1.697(6)	1.683(6)	1.307(6)	79.28(6)	112.7(3)
CH_2CH_2OMe [e]	2.2128(7)	2.2146(8)	2.2136(5)	3.4975(6)	1.685(3)	1.698(3)	1.302(3)	79.42(3)	113.5(1)

Table 3.1 Cont.

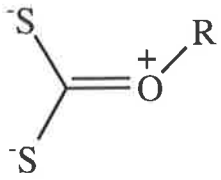
R	Ni-S(1)	Ni-S(2)	av. Ni-S	Ni···S[a]	S(1)-C	S(2)-C	C-O	S-Ni-S	S-C-S
nBu [b]	2.1998(9)	2.2136(9)	2.2067(6)	4.5246(9)	1.687(3)	1.688(3)	1.307(3)	79.48(3)	113.5(2)
iBu [b]	2.202(1)	2.215(1)	2.2079(7)	4.667(1)	1.688(3)	1.694(3)	1.306(4)	76.69(3)	113.6(2)
3-MeBu [b]	2.203(1)	2.205(2)	2.2034(9)	4.890(1)	1.663(6)	1.688(6)	1.309(5)	79.44(6)	114.4(3)
3,3-Me_2Bu [b]	2.2026(8)	2.2155(8)	2.2091(6)	4.7439(6)	1.697(3)	1.687(3)	1.308(3)	79.46(3)	113.1(2)
Hex [b]	2.204(1)	2.2169(9)	2.2111(6)	5.0616(8)	1.693(4)	1.689(4)	1.304(4)	79.52(4)	113.4(2)
Cy [b]	2.2101(8)	2.2241(8)	2.2160(4)	3.7884(2)	1.697(3)	1.690(3)	1.311(3)	79.22(3)	113.2(2)
	2.2118(8)	2.2182(8)			1.704(3)	1.689(3)	1.305(3)	79.09(3)	112.4(2)
CH_2Ph [f]	2.2035(5)	2.2201(7)	2.2091(4)	3.401(2)	1.693(2)	1.687(3)	1.305(5)	79.39(2)	113.5(2)
4-MeCy [g]	2.205(1)	2.205(1)	2.2050(7)	4.8091(6)	1.692(3)	1.696(3)	1.296(4)	79.46(4)	112.7(2)

Table 3.1 Cont.

R	Ni-S(1)	Ni-S(2)	av. Ni-S	Ni···S[a]	S(1)-C	S(2)-C	C-O	S-Ni-S	S-C-S
Ph-4-tBu [h]	2.213(6)	2.219(4)	2.214(6)	4.128(2)	1.699(19)	1.670(27)	1.318(19)	79.1(2)	113.7(10)
	2.205(5)	2.222(7)			1.687(30)	1.682(26)	1.323(18)	79.4(2)	114.4(11)

a shortest intermolecular Ni···S contact; b this work; c orthorhombic form (Hoskins, Tiekink, Winter, 1985b); d Romanenko, Podberezskaya, Bakakin, 1987; e Abrahams, Hoskins, Tiekink, Winter, 1988; f Edwards, Hoskins, Winter, 1986; g Xiong, Liu, Li, You, Huang, 1996; h Chen, Fackler, 1978.

1.442(8) Å, respectively and are consistent with the significant contribution of canonical structure (I) in the planar portions of the xanthate ligands in $[Ni(S_2COMe)_2]$.



(I)

The remaining xanthate structures adopt the same motif as that found for $[Ni(S_2COMe)_2]$ and hence, their description will be brief.

The molecular structure of $[Ni(S_2COnPr)_2]$ is illustrated in Fig. 3.2 depicting the molecular structure as adopting the same square planar arrangement as observed for the above mentioned methyl derivative. Similarly to the methyl derivative there exists a close intermolecular contact between the nickel and S(1) atoms (symmetry operation $-x$, $1-y$, $-z$) of 3.275(1) Å. This results in an elongation of one of the Ni-S bonds and as a consequence the ligand coordinates to the nickel atom in an asymmetric fashion. However it is worth noting that the average Ni-S separations of the asymmetric ligand (caused by the close intermolecular contact) of 2.214(1) Å is equivalent to the average Ni-S distances of the second xanthate ligand. The features associated with xanthate ligands are similar to those described for the methyl derivative.

The structure of $[Ni(S_2COiPr)_2]$ is manifested in Fig. 3.3. The structure is molecular with the closest non-hydrogen contact of 3.563(9) Å occurring between the O(1) and C(3)" atoms (symmetry operation: $-1-x$, $-0.5+y$, $-0.5-z$); there are no close intermolecular Ni···S interactions in the lattice. The molecule is centrosymmetric with the nickel atom situated on a crystallographic centre of inversion and the xanthate ligand forms Ni-S distances of 2.199(2) Å and 2.212(2) Å which are equivalent to the 4σ level. The features associated with the xanthate ligand are similar to those described for the methyl structure.

The molecular structure of [Ni(S_2COnBu)$_2$] is illustrated in Fig. 3.4. The molecule is centrosymmetric with the nickel atom situated on a crystallographic centre of inversion and the xanthate ligand forms Ni-S distances of 2.1998(9) Å and 2.2136(9) Å. The Ni-S separations are significantly different and unlike previous structures that displayed disparity in bond lengths *i.e.* R = methyl and n-propyl, there exists no significant intermolecular interactions with the closest non-hydrogen contact between atoms S(1) and C(4) being 3.660(4) Å (symmetry operation: $+x$, $+y$, $+z$). The features associated with the xanthate ligand are similar to those described in previous structures.

The molecular structure of [Ni(S_2COiBu)$_2$] is illustrated in Fig. 3.5 which depicts a centrosymmetric square planar arrangement of four sulfur atoms about the nickel atom. The Ni-S bond distances of 2.202(1) Å and 2.215(1) Å are marginally different although the general features of the xanthate ligand remain similar to those described above. There are no significant intermolecular contacts in the lattice with the closest non-hydrogen distance of 3.552(6) Å occurring between the O(1) and C(5) atoms (symmetry operation: $-x$, $-1-y$, $1-z$).

Fig. 3.6 shows the molecular structure of [Ni(S_2CO-3-MeBu)$_2$] in which the nickel atom is situated on a crystallographic inversion centre. The Ni-S separations are equivalent within experimental error, 2.203(1) Å and 2.205(2) Å and the xanthate ligand exhibits similar features as described in previous structures. The closest non-hydrogen contact of 3.58(1) Å (symmetry operation; $+x$, $+y$, $+z$) is between atoms O(1) and C(6) with no significant Ni-S interactions.

The structure of [Ni(S_2CO-3,3-Me$_2$Bu)$_2$] is depicted in Fig 3.7 and the centrosymmetric molecule has nickel at a crystallographic centre of inversion. The xanthate ligand features are similar to those described for previous structures and the two Ni-S bond distances are marginally inequivalent being 2.204(1) Å and 2.2168(8) Å. There are no significant intermolecular interactions existing in the molecule, the closest non-hydrogen contact being 3.546(3) Å that occurs between the atoms S(2) and C(2)' (symmetry operation; $-x$, $-y$, $-z$).

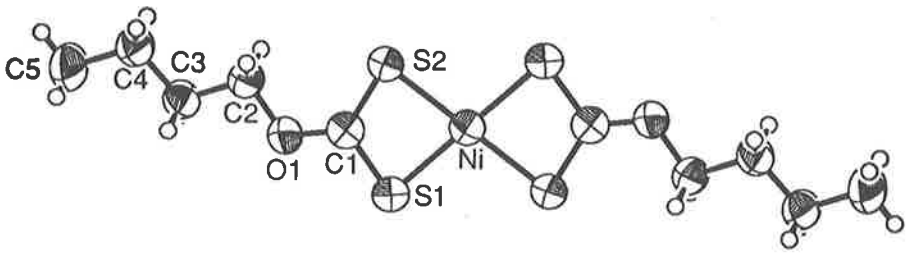


Fig. 3.4 Molecular structure of [Ni(S_2COnBu)$_2$] showing the crystallographic numbering scheme.

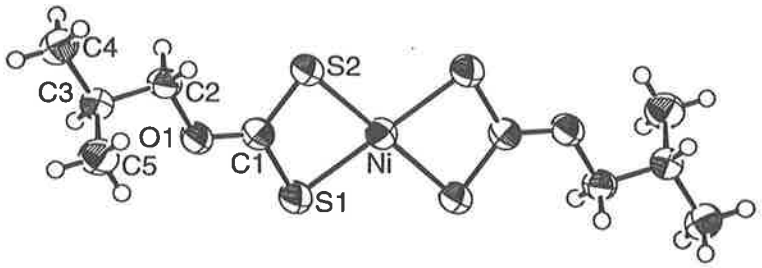


Fig. 3.5 Molecular structure of [Ni(S_2COiBu)$_2$] showing the crystallographic numbering scheme.

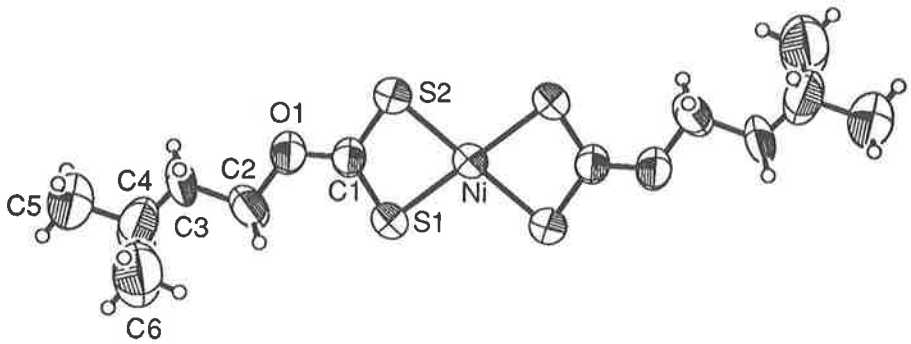


Fig. 3.6 Molecular structure of [Ni(S_2CO-3-MeBu)$_2$] showing the crystallographic numbering scheme.

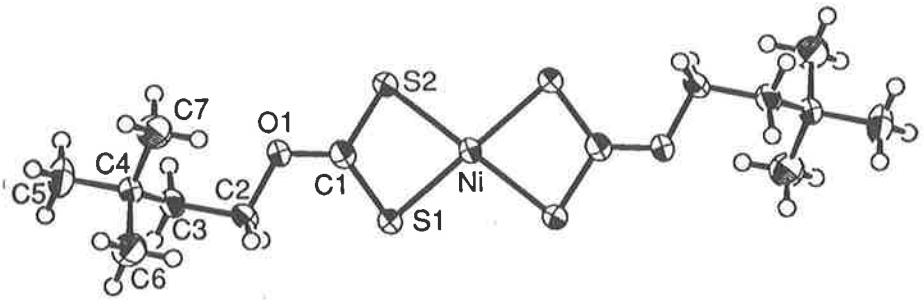


Fig. 3.7 Molecular structure of [Ni(S_2CO-3,3-Me_2Bu)$_2$] showing the crystallographic numbering scheme.

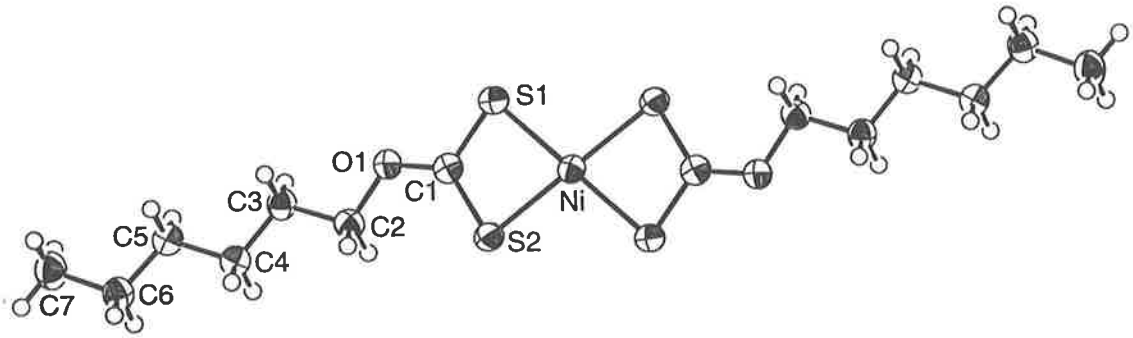


Fig. 3.8 Molecular structure of [Ni(S_2COHex)$_2$] showing the crystallographic numbering scheme.

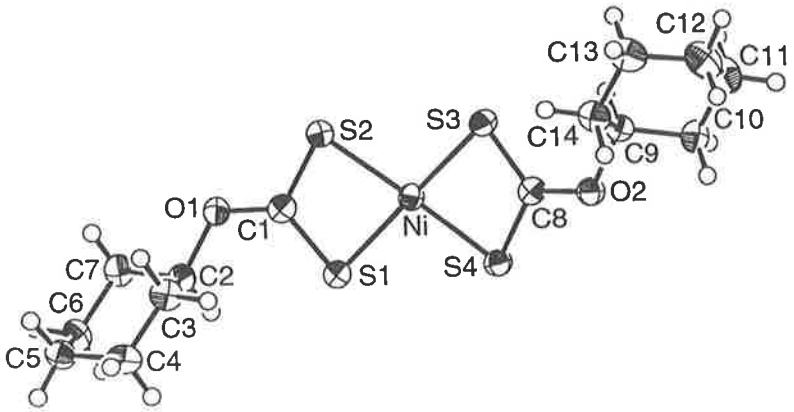


Fig. 3.9 Molecular structure of [Ni(S_2COCy)$_2$] showing the crystallographic numbering scheme.

Fig. 3.8 depicts the molecular structure of [Ni(S_2COHex)$_2$]. The nickel atom is situated at a crystallographic centre of inversion with the independent Ni-S separations displaying a slight variance with values of 2.204(1) Å and 2.2169(9) Å. There are no significant intermolecular interactions involving the non-H atoms less than 3.6 Å.

The molecular structure of [Ni(S_2COCy)$_2$] is illustrated in Fig. 3.9. The nickel atom lies 0.1410(4) Å above the least-squares plane (mean deviation: 0.015 Å) through the S_4 donor set. There exists a slight disparity in the Ni-S separations, *i.e.* Ni-S(1, 4) 2.2182(8) Å, 2.2241(8) Å, 2.2118(8) Å and 2.2180(9) Å, respectively. An intermolecular contact between the Ni and S(3)' atoms of 3.076(3) Å is noted (symmetry operation: $-x$, $1-y$, $-z$).

3.2 DITHIOCARBAMATE STRUCTURES

The molecular structures of the two independent centrosymmetric molecules of [Ni(S_2CNCy$_2$)$_2$] are illustrated in Fig. 3.10. As with the nickel xanthates described above, the four sulfur atoms adopt a square planar geometry around the central nickel atom. The Ni-S bond separations of 2.182(1) Å, 2.203(1) Å and 2.184(2) Å and 2.196(1) Å for the two independent molecules, respectively indicate a negligible difference between the coordination geometries, the S-Ni-S chelate angles are 79.06(5)° and 79.06(6)°, respectively. There are no intermolecular contacts involving non-H atoms in the lattice less than 3.6 Å. The dithiocarbamate ligands have features similar to the xanthate ligands described above with the C-S bond lengths being equal within experimental error (1.734(5) Å, 1.721(5) Å, and 1.717(5) Å, 1.724(5) Å). Further, the experimentally equivalent C(1)-N(1) and C(14)-N(2) separations of 1.320(6) Å and 1.324(6) Å, respectively are shorter than the N(1)-C(2), C(8) and N(2)-C(15), C(21) distances of 1.489(6) Å, 1.488(6) Å, and 1.509(7) Å, 1.439(7) Å, respectively, and are consistent with the significant contribution of canonical form (II) to the overall structure.

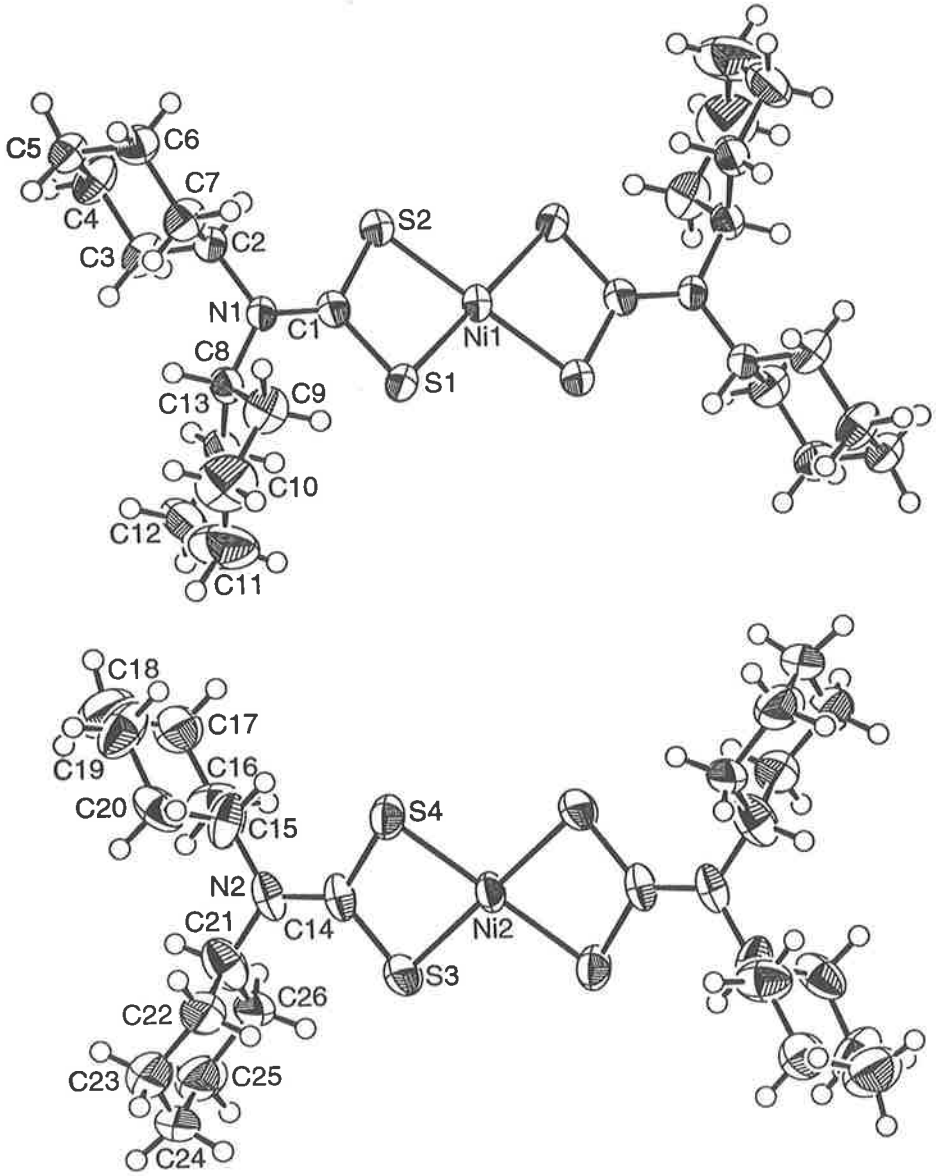


Fig. 3.10 Molecular structure of [Ni(S_2CNCy_2)2] showing the crystallographic numbering scheme.

Table 3.2 Selected bond distances (Å) and bond angles (deg.) for $Ni(S_2CNR_2)_2$

R	Ni-S(1)	Ni-S(2)	Ni-S	S(1)-C	S(2)-C	C-N	S-Ni-S	S-C-S
H [a]	2.207(7)	2.224(15)	2.211(4)	1.70(3)	1.68(2)	1.37(3)	78.6(3)	111.9(11)
	2.210(7)	2.218(15)		1.70(3)	1.68(2)	1.38(3)	78.4(2)	111.6(12)
Me [b]	2.198(2)	2.217(2)	2.208(1)	1.750(8)	1.691(8)	1.349(9)	79.29(7)	109.9(4)
Et [c]	2.196(1)	2.202(1)	2.1990(7)	1.715(3)	1.714(3)	1.324(3)	79.4(1)	110.1(1)
Et [d]	2.192(1)	2.204(1)	2.1980(7)	1.711(3)	1.725(3)	1.319(4)	79.6(1)	110.0(2)
CH_2CF_3 [e]	2.197(2)	2.200(1)	2.1990(9)	1.699(6)	1.699(6)	1.340(7)	79.06(6)	110.9(3)
CH_2CH_2OH [f]	2.193(1)	2.209(1)	2.2010(7)	1.713(4)	1.728(4)	1.319(5)	79.3(1)	109.4(2)
nPr [g]	2.197(2)	2.209(2)	2.203(1)	1.693(8)	1.722(8)	1.330(9)	79.2(1)	110.6(4)
iPr [h]	2.179(3)	2.183(3)	2.181(2)	1.714(12)	1.711(11)	1.329(15)	79.6(1)	109.2(6)
	2.181(3)	2.182(3)		1.720(12)	1.673(12)	1.337(17)	78.9(1)	109.5(7)

Table 3.2 Cont.

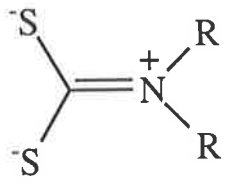
R	Ni-S(1)	Ni-S(2)	Ni-S	S(1)-C	S(2)-C	C-N	S-Ni-S	S-C-S
C_3H_5 [i]	2.198(2)	2.210(2)	2.204(1)	1.712(8)	1.731(8)	1.29(1)	79.2(1)	109.3(4)
nBu [j]	2.201(3)	2.211(3)	2.206(2)	1.720(11)	1.742(11)	1.329(13)	79.4(1)	109.0(6)
iBu [k]	2.193(3)	2.205(3)	2.201(2)	1.718(8)	1.721(9)	1.31(1)	79.3(1)	109.4(5)
	2.203(3)	2.204(7)		1.717(9)	1.720(9)	1.33(1)	79.4(1)	110.0(5)
R_1 [l]	2.198(1)	2.214(1)	2.2060(7)	1.707(4)	1.717(4)	1.311(4)	79.33(5)	110.7(2)
R_2 [m]	2.2063(7)	2.2107(6)	2.2088(5)	1.714(2)	1.712(2)	1.328(3)	79.16(2)	110.4(1)
R_3 [n]	2.196(1)	2.207(1)	2.2015(7)	1.717(4)	1.718(3)	1.327(5)	79.4(1)	110.0(2)
Cy [o]	2.182(1)	2.203(1)	2.1925(7)	1.734(5)	1.721(5)	1.320(6)	79.06(5)	107.8(3)
	2.184(1)	2.196(1)		1.717(5)	1.724(5)	1.324(6)	79.06(6)	108.2(3)
R_4 [p]	2.201(4)	2.211(4)	2.206(3)	1.697(14)	1.718(13)	1.32(1)	79.0(1)	110.5(6)

Table 3.2 Cont.

R	Ni-S(1)	Ni-S(2)	Ni-S	S(1)-C	S(2)-C	C-N	S-Ni-S	S-C-S
R_5 [q]	2.19(1)	2.21(1)	2.200(5)	1.72(3)	1.72(3)	1.35(4)	81.0(4)	111(2)
	2.20(1)	2.20(1)		1.72(3)	1.71(3)	1.35(4)	80.0(4)	112(2)
H, Me [r]	2.196(9)	2.203(9)	2.200(6)	1.72(1)	1.70(1)	1.30(2)	79.2(1)	109.8(7)
H, nPr [s]	2.193(1)	2.202(1)	2.1975(7)	1.711(4)	1.719(4)	1.295(7)	79.92(4)	110.7(3)
Me, Ph [t]	2.198(3)	2.208(3)	2.203(2)	1.70(1)	1.74(1)	1.30(1)	79.3(1)	109.3(6)
R_6, R_7 [u]	2.198(2)	2.199(2)	2.200(1)	1.695(8)	1.694(8)	1.37(1)	78.82(8)	110.9(4)
	2.195(2)	2.206(2)		1.691(9)	1.698(9)	1.38(1)	78.60(8)	110.7(5)
Cy, Et [o]	2.1965(7)	2.197(1)	2.1967(6)	1.725(3)	1.723(3)	1.314(3)	79.58(3)	109.3(1)

Table 3.2 Cont.

a Gasparri, Nardelli, Villa, 1967; b Lokaj, Garaj, Kettmann, Vrábel, 1980; c Selvaraju, Panchanatheswaran, Thiruvalluvar, Parthasarathi, 1995; d beta form (Khan, Fackler, Murray, Heinrich, Campana, 1987); e Sundberg, Riekkola, 1987; f Ramalingam, Radha, Aravamudan, Mahadevan, Subramanyam, Seshasayee, 1984; g Peyronel, Pignedoli, 1967; h Newman, White, 1972a; i Lokaj, Pavelč ík, Kettmann, Masaryk, Vrábel, Garaj, 1981; j Lokaj, Vrábel, Kellö, 1984; k Raston, White, 1976; l NR_1 is pyrrolidine (Engelhardt, Patrick, White, 1985); m NR_2 is morpholine (Herring, Park, Rettig, Trotter, 1979); n NR_3 is 1-piperidine (Radha, Seshasayee, Aravamudan, 1988); o this work; p R_4 is $(CH_2)_5$ (Kettmann, Garaj, Kúdela, 1978); q R_5 is $(CH_2)_6$ (Starikova, Shugam, Agre, Oboznenko, 1972); r Newman, White, 1972b; s Kameníč ek, Pastorek, Bř ezina, Kratochvíl, Trávníč ek, 1990; t Martin, Newman, Robinson, White, 1972; u R_6 is acetyl, R_7 is CH_2Ph (Christidis, 1986).



(II)

The molecular structure of centrosymmetric [Ni(S_2CN(Et)Cy)$_2$], featuring an unsymmetrical dithiocarbamate ligand, is illustrated in Fig. 3.11 which shows the familiar square planar NiS_4 motif. The Ni-S separations are equivalent within experimental error at 2.1969(6) Å and 2.1975(9) Å. As with [Ni(S_2CNCy$_2$)$_2$] there are no significant intermolecular contacts in the lattice less than 3.6 Å.

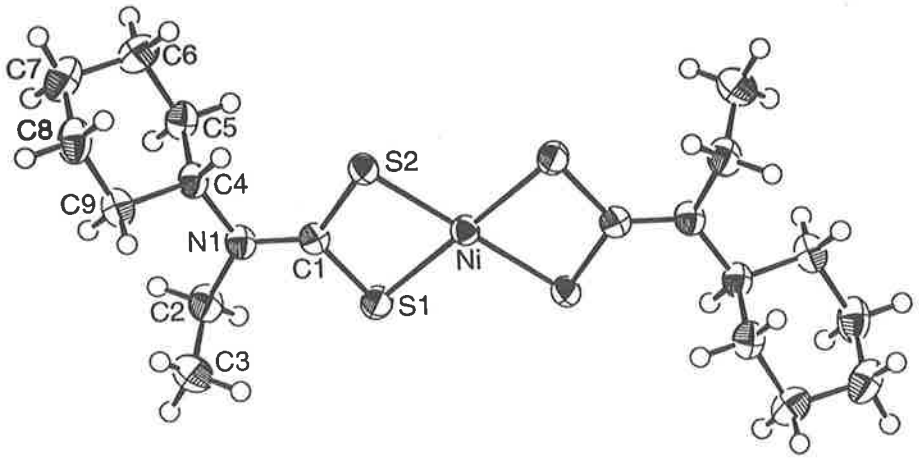


Fig. 3.11 Molecular structure of [Ni(S_2CN(Et)Cy)$_2$] showing the crystallographic numbering scheme.

3.3 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY

Selected interatomic parameters for the fifteen Ni(S_2COR)$_2$ structures, including the nine new structures reported herein, are collected in Table 3.1. Invariably, the

structures feature a square planar NiS_4 motif as detailed above. In some of the structures, notably those containing smaller R substituents, there are close intermolecular Ni···S interactions with the shortest such contact of 3.167(2) Å occurring in the structure of $[Ni(S_2COMe)_2]$; see above. The intermolecular Ni···S contacts often do not lead to systematic perturbations in the Ni-S bond distances, *e.g.* $[Ni(S_2COMe)_2]$ *cf.* and $[Ni(S_2COnPr)_2]$. A plot of the Ni-S(1) and Ni-S(2) distances, showing their 3σ error bars, versus the R group is presented in Fig. 3.12; data for two structures, *i.e.* $[Ni(S_2COCH_2CF_3)_2]$ and $[Ni(S_2COPh\text{-}4\text{-}tBu)_2]$, are not included in the plot owing to their high standard uncertainties but their data were used in the calculation of average parameters. The Ni-S distances are plotted in order of increasing Ni-S(1) distance. Several interesting conclusions may be drawn from the data plotted in Fig. 3.12.

Of the fifteen known $Ni(S_2COR)_2$ structures, ten have the nickel atom located at a crystallographic center of inversion. In nine structures, the Ni-S(1) and Ni-S(2) distances are equivalent within experimental error. The Ni-S distances range from 2.199(2) Å in the R = iPr structure to 2.2241(8) Å in the R = Cy structure. This result indicates that the absolute difference between the shortest and longest Ni-S separations in the fifteen structures is only 0.025 Å indicating that the range of Ni-S distances is narrow (see below). Further, most of the individual Ni-S distances are equal within experimental error to the calculated average Ni-S distance for all structures of 2.2107(2) Å and certainly at the 5σ limit. The reason for the small disparity in the Ni-S distances within individual structures can be explained in terms of the intramolecular interactions between the O-bound R groups and the sulfur atoms. Thus, at the resolution of the X-ray experiment, electronic effects due to the different R substituents are not manifested in the mode of coordination of the xanthate ligands.

Given the range of R groups found in the $Ni(S_2COR)_2$ structures, an attempt was made to detect whether any systematic influence on the derived interatomic parameters could be correlated with an electronic effect associated with R. As can be seen from Table 3.1 and Fig. 3.12 there are no obvious trends in the parameters with R as i) the

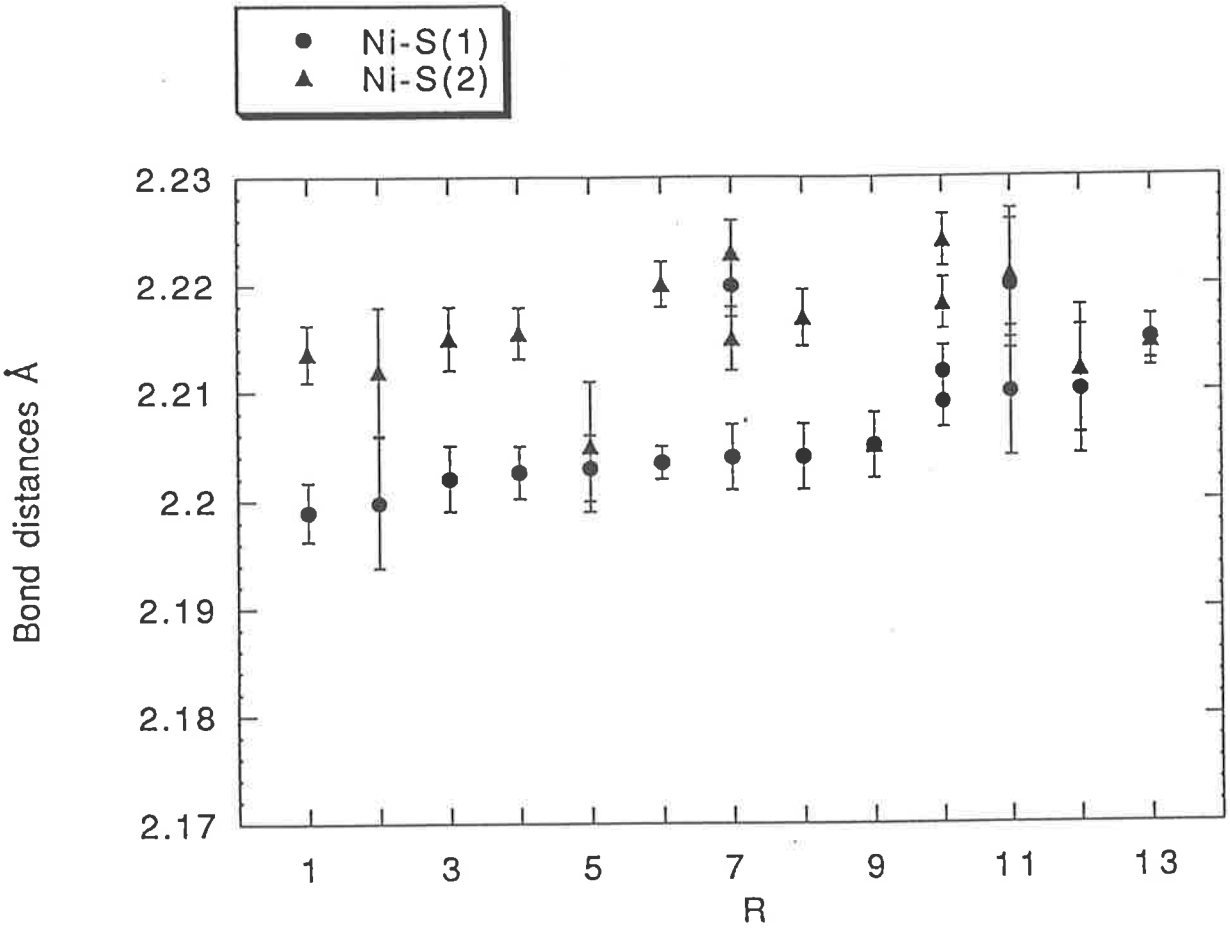


Fig. 3.12 Plot of Ni-S distances (Å) in $Ni(S_2COR)_2$ versus R: **1**, R = 3-MeBu; **2**, R = 4-MeCy; **3**, R = iPr; **4**, R = nBu; **5**, R = iBu; **6**, R = 3,3-Me_2Bu; **7**, R = CH_2Ph; **8**, R = Et; **9**, R = Hex; **10**, R = nPr; **11**, R = CH_2CH_2OMe; **12**, R = Cy; **13**, R = Me.

chain length is varied (*e.g.* R = Me, Et, nPr, nBu), ii) the degree of branching is varied (*e.g.* nPr, iPr; nBu, iBu), and iii) the steric bulk is varied (*e.g.* nBu, 3-MeBu, 3,3-Me_2Bu).

Another parameter worth commenting on is the ligand bite angle. From the data presented in Table 3.1 it can be seen that the S-C-S angles range from 112.4(2)° to 114.4(3)° with an average of 113.35(4)°. Accordingly, the S-Ni-S angles also lie in a narrow range 79.0(2)° to 79.69(3)° with an average value of 79.371(6)°.

The small range of Ni-S bond distances in the $Ni(S_2COR)_2$ structures and the lack of systematic trends indicate that the variations in the electronic/steric profiles of the ligands have little or no effect on the Ni-S distances as resolved by X-ray crystallography. In this context, it is worth mentioning that in addition to the thus far unexplained structural diversity alluded to in the *Introduction*, systematic analysis of certain transition metal complexes characterised in different crystalline environments show that variations in metal-ligand parameters can exceed the normally accepted experimental errors (Martín, Orpen, 1996; Cotton, Yokochi, 1997). Further, combined crystallographic and theoretical studies demonstrate that unexpected variations in Sn-ligand parameters may be explained by the influence of intermolecular forces, *i.e.* crystal packing effects, on molecular geometry (*e.g.* Buntine, Hall, Kosovel, Tiekink, 1998; Tiekink, Hall, Hook, Buntine, 1998, Buntine, Hall, Tiekink, 1998). As for the $Ni(S_2COR)_2$ complexes, a similar systematic examination of coordination geometry was conducted for the related $Ni(S_2CNR_2)_2$ complexes.

Selected interatomic parameters for the $Ni(S_2CNR_2)_2$ structures are collected in Table 3.2. Reflecting the trend in molecular symmetry found for the xanthate structures, of the twenty two $Ni(S_2CNR_2)_2$ structures listed, sixteen have crystallographic $\bar{1}$ symmetry. By contrast to several $Ni(S_2COR)_2$ structures, no Ni···S intermolecular contacts less than 3.6 Å are observed in the dithiocarbamate analogs. Fig. 3.13 presents a plot of the Ni-S(1) and Ni-S(2) distances against R as for Fig. 3.12; four structures (*i.e.* $[Ni(S_2CNH_2)_2]$, $[Ni(S_2CN(CH_2)_5)_2]$, $[Ni(S_2CN(CH_2)_6)_2]$ and $[Ni(S_2CN(H)Me)_2]$)

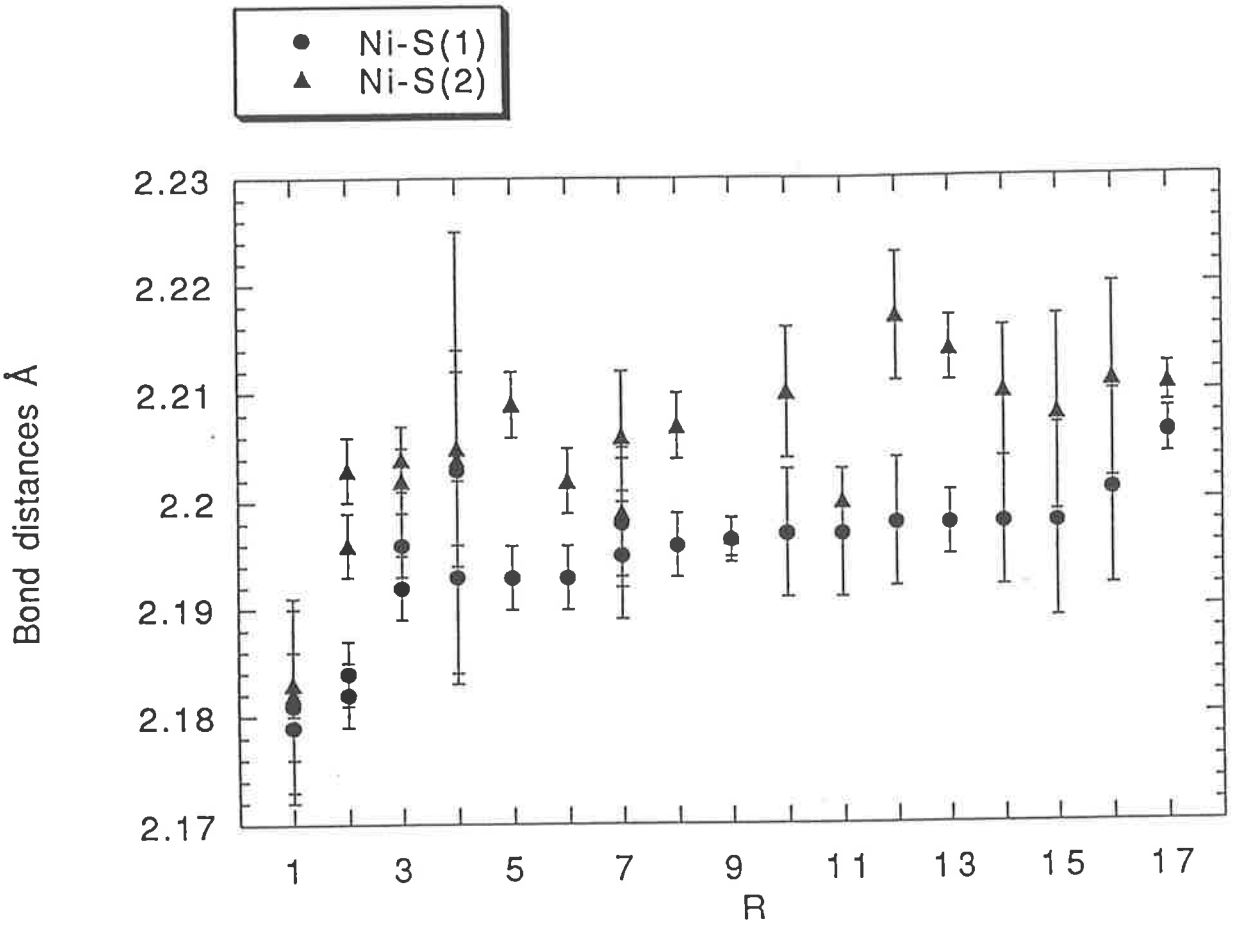


Fig. 3.13 Plot of Ni-S distances (Å) in $Ni(S_2CNR_2)_2$ versus R: **1**, R = iPr; **2**, R = Cy; **3**, R = Et; **4**, R = iBu; **5**, R = CH_2CH_2OH; **6**, R_2 = H, nPr; **7**, R_2 = acetyl, CH_2Ph; **8**, NR_2 = 1-piperidine; **9**, R_2 = Et, Cy; **10**, R = nPr; **11**, R = CH_2CF_3; **12**, R = Me; **13**, NR_2 = pyrrolidine; **14**, R = C_3H_5; **15**, R_2 = Me, Ph; **16**, R = nBu; **17**, NR_2 = morpholine.

are omitted from the plot owing to high standard deviations but, as for the xanthate structures above, their parameters are included in the calculation of average parameters. Two entries are included for $Ni(S_2CNR_2)_2$ representing the two polymorphs for this complex (Khan, Fackler, Murray, Heinrich, Campana, 1987; Selvaraju, Panchanatheswaran, Thiruvalluvar, Parthasarathi, 1995).

The Ni-S distances in the $Ni(S_2CNR_2)_2$ complexes range from 2.179(3) Å (R = iPr) to 2.224(15) Å (R = H), corresponding to a spread of 0.045 Å and the average calculated for all structures is 2.2011(2) Å. Disparities between Ni-S(1) and Ni-S(2) distances are also evident in the $Ni(S_2CNR_2)_2$ structures. As can be seen from Fig. 3.13, where the Ni-S distances has been determined at a relatively high level of precision, the difference in the Ni-S distances is greater than the 3σ limit. It is likely that the disparities arise, in part, as a result of intramolecular interactions between the sulfur atoms and R substituents. The comparatively large spread of Ni-S distances suggests that there may be some correlation between their magnitude and R. There does not appear to be a correlation between the chain length of R and the Ni-S distances, however, there is a suggestion that increasing the branching of the R groups results in a decrease in Ni-S distance, *e.g.* av(Ni-S) for R = nPr is 2.203(1) Å *cf.* 2.181(2) Å for R = iPr. Indeed, as a general trend, it would appear that the structures with the largest R groups (*e.g.* iPr, Cy) tend to form the shortest Ni-S bonds. This observation is consistent with the increased steric hindrance forcing the larger R groups further away from the coordinated sulfur atoms and hence, reducing any interaction between the sulfur and R groups. In terms of bite angles, the S-C-S angles range from 107.8(3)° to 112(2)° with an average value of 109.95(3)° and the S-Ni-S chelate angles range from 78.4(2)° to 81.0(4)° (average value is 79.316(9)°). These parameters may be compared to those obtained for the xanthates.

The average Ni-S bond distance in the xanthate complexes of 2.2107(2) Å is longer than the equivalent parameter (2.2011(2) Å) for the dithiocarbamate structures confirming that the dithiocarbamate ligand is a better coordinating ligand than the xanthate ligand (Hoskins, Tiekink, Winter, 1985a). The S-C-S angle is wider in the xanthate

complexes compared with the dithiocarbamate complexes, *i.e.* 113.35(4)° *cf.* 109.95(3)°, however, owing to the longer Ni-S distances in the xanthate structures, the S-Ni-S chelate angles are effectively equivalent at 79.371(6)° and 79.316(9)°, respectively.

3.4 CONCLUSIONS

The results of this study indicate that there is no impedance for both xanthate and dithiocarbamate ligands to coordinate in a symmetric, bidentate fashion in their bis complexes of nickel(II). The relatively small ranges of Ni-S distances in both series of complexes and a lack of systematic variation indicate that no definitive trend exists between the Ni-S separations and the electronic/steric profiles of the respective ligands as moderated by the nature of R. Instead, the small variations in Ni-S parameters may be rationalised in terms of intramolecular interactions between the sulfur atoms and the R residues and intermolecular forces.

Chapter 4

TELLURIUM(II) BIS 1,1-DITHIOLATES

In this chapter, four new $Te(S_2COR')_2$ structures and one new $Te(S_2CNR_2)_2$ structure have been determined and their structural characteristics are described below. As with chapter 3, the derived interatomic parameters of these new structures are compared with their literature analogues to assess the coordinating ability of the xanthate and dithiocarbamate ligands in their respective tellurium(II) complexes.

4.1 XANTHATE STRUCTURES

The molecular structure of $[Te(S_2COnPr)_2]$ is shown in Fig. 4.1 and selected interatomic parameters are listed in Table 4.1. The immediate coordination geometry about the tellurium atom is defined by four essentially coplanar sulfur atoms derived from two asymmetrically chelating xanthate ligands. The Te–S distances fall into two classes, *i.e.* short (2.5 Å) and long (2.9 Å) and these are arranged such that the shorter interactions lie on the same side of the molecule. Hence, the S_4 donor set defines a trapezoidal planar geometry. The two lone pairs of electrons of the tellurium(II) centre are thought to lie above and below the TeS_4 plane and to be orientated over the weaker Te–S bonds. The mean deviation of the sulfur atoms from the least-squares plane through them is 0.012 Å and the tellurium atom lies 0.0123(6) Å above this plane. Other parameters associated with the xanthate ligands are as expected, in particular the disparity in the C–S bond distances with the C–S(1), S(3) bonds of 1.70(1) Å and 1.71(1) Å being considerably longer than the C–S(2), S(4) bonds of 1.61(1) Å and 1.64(1) Å. The longer C–S bonds are associated with the shorter of the Te–S interactions, this implies that canonical structure I makes a significant contribution to the structure of the ligand. The C–O bond lengths of 1.37(5) Å and 1.33(1) Å are significantly shorter than the O-C bond distances of 1.47(1) Å and 1.46(1) Å indicating that canonical structure II also

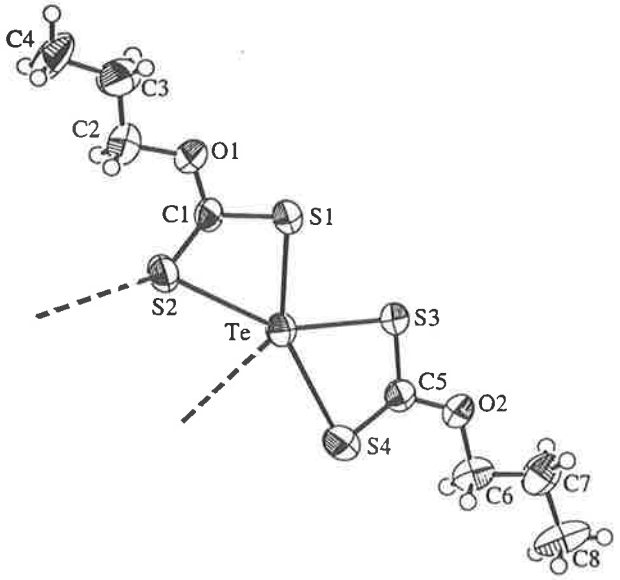


Fig. 4.1 Molecular structure of [Te(S2COnPr)2] showing the crystallographic numbering scheme.

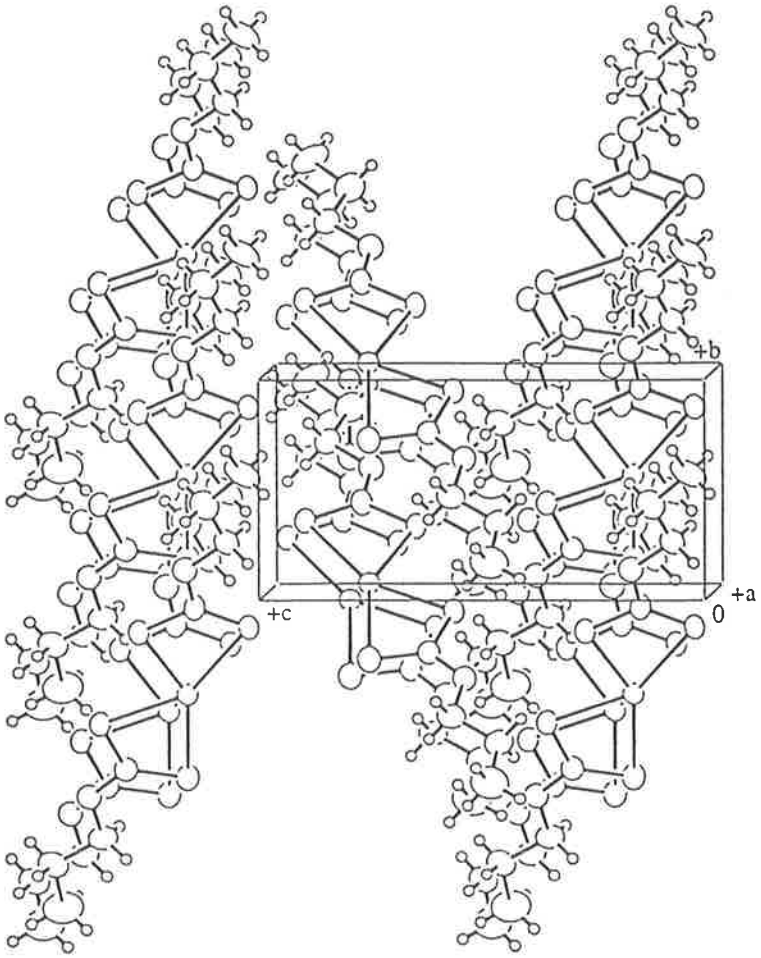


Fig. 4.2 Unit cell contents for [Te(S2COnPr)2].

Table 4.1 Selected intramolecular parameters for $Te(S_2COR)_2$

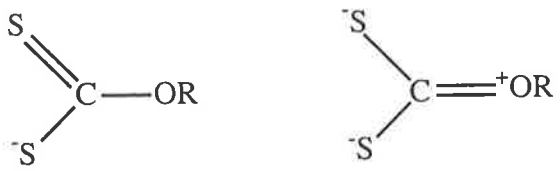
R	Te-S(1)	Te-S(2)	Te···S	S(1)-C	S(2)-C	C-O	S1-Te-S2	S1-C-S2	S2-Te-S4	S1-Te-S3
Me[a]	2.499(1)	2.846(1)	3.513(1)	1.717(4)	1.650(4)	1.314(5)	66.33(4)	121.6(2)	142.29(3)	85.18(4)
	2.510(1)	2.841(1)		1.709(4)	1.638(4)	1.335(5)	66.20(4)	122.6(2)		
Et[b]	2.486(11)	2.897(17)	3.61(1)	1.67(5)	1.69(3)	1.30(5)	65.5(4)	121.7(30)	144.5(3)	83.6(4)
	2.480(13)	2.857(14)		1.79(4)	1.63(4)	1.30(6)	66.4(3)	118.4(33)		
Et[c,d]	2.491(3)	2.948(4)	3.509(3)	1.734(12)	1.650(13)	1.293(16)	65.1(1)	121.4(8)	144.4(1)	83.3(1)
	2.481(3)	2.852(3)		1.716(13)	1.653(13)	1.334(16)	66.5(1)	123.6(8)		
	2.499(3)	2.958(4)	3.490(3)	1.703(12)	1.678(11)	1.281(15)	67.3(1)	121.0(8)	145.6(1)	83.2(1)
	2.483(4)	2.850(4)		1.716(13)	1.653(13)	1.307(16)	64.6(1)	121.8(8)		
nPr[e]	2.497(4)	2.881(4)	3.414(3)	1.70(1)	1.61(1)	1.36(2)	65.7(1)	124.5(9)	144.9(1)	83.2(1)
	2.495(3)	2.867(4)		1.71(1)	1.64(1)	1.33(1)	66.2(1)	123.6(8)		

Table 4.1 Cont.

R	Te-S(1)	Te-S(2)	Te···S	S(1)-C	S(2)-C	C-O	S-Te-S	S-C-S [c]	S-Te-S	S-Te-S
iPr[d,f]	2.483(4)	2.877(5)	4.516(4)	1.74(1)	1.64(1)	1.32(2)	66.2(1)	121.5(9)	144.1(1)	83.7(1)
	2.497(4)	2.881(5)		1.72(1)	1.64(1)	1.33(2)	65.9(1)	122.4(8)		
	2.481(3)	2.852(3)	4.657(4)	1.70(1)	1.64(1)	1.35(2)	65.5(1)	123.4(9)	145.2(1)	83.9(1)
	2.487(4)	2.920(6)		1.72(1)	1.66(1)	1.33(2)	65.3(1)	121.2(9)		
3,3-Me_2Bu[e]	2.489(6)	2.844(7)	3.701(6)	1.65(2)	1.73(2)	1.31(2)	66.0(2)	119(1)	142.0(1)	85.4(2)
	2.510(6)	2.885(7)	3.819(5)	1.78(2)	1.63(2)	1.31(2)	66.6(2)	121(1)		
i-Bu[e]	2.494(1)	2.839(1)	3.473(1)	1.721(5)	1.661(5)	1.324(6)	66.92(4)	121.7(3)	145.51(4)	82.14(4)
	2.510(1)	2.935(1)		1.723(5)	1.665(5)	1.323(5)	65.44(4)	122.1(3)		
CH_2Ph[e]	2.518(2)	2.814(1)	4.083(6)	1.713(5)	1.667(5)	1.324(5)	66.87(4)	121.4(3)	145.26(4)	81.54(4)
	2.535(1)	2.866(2)		1.719(5)	1.665(5)	1.328(5)	66.22(5)	122.2(3)		

a Graver, Husebye, 1975; b α-form (Husebye, 1967); c β-form (Tiekink, 1986); d two molecules in asymmetric unit; e this work; f Hoskins, Tiekink, Winter, 1985c.

makes a significant contribution to the overall structure of the ligand. As indicated in Fig. 4.1 there are additional Te···S interactions of note.



(I) (II)

Weak Te···S(2)' contacts of 3.414(3) Å (symmetry operation: $-x$, $-0.5 + y$, $2 - z$) exist in the lattice of [Te(S2COnPr)2] such that each molecule forms one 'donor' and one 'acceptor' contact; a view of the unit cell contents is provided in Fig. 4.2. The Te···S(2) separations are within 3.90 Å, being the sum of the van der Waals radii for these atoms. These contacts are aligned along the crystallographic *b*-axis leading to the formation of loosely associated molecules arranged as helical ribbons.

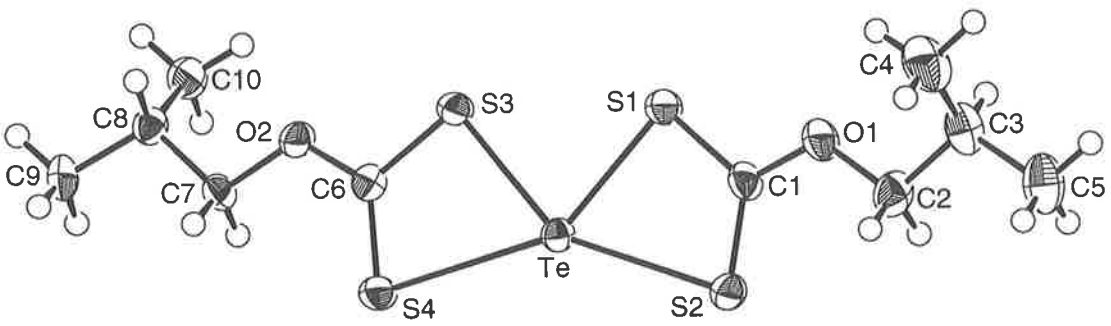


Fig. 4.3 Molecular structure of [Te(S2COiBu)2] showing the crystallographic numbering scheme.

Fig. 4.3 depicts the molecular geometry of [Te(S2COiBu)2] and selected interatomic contacts are listed in Table 4.1. The coordination geometry is essentially identical to the [Te(S2COnPr)2] described above with the characteristic short Te-S bond lengths (2.494(1) Å and 2.510(1) Å) situated on one side of the molecule and the longer

Te-S bond lengths (2.839(1) Å and 2.935(1) Å) on the opposite side, thus the four coordinating sulfur atoms adopt a trapezoidal geometry around the tellurium atom. The general features of the iBu xanthate ligand are similar to those described for the nPr derivative.

There is a significant intermolecular contact of 3.473(1) Å between Te and the S(3) atoms, symmetry operation (*+x*, -1/2-*y*, -1/2+*z*). This leads to similar lattice interactions as described for the [Te(S_2COnPr)$_2$] compound, *i.e.* loosely associated molecules arranged as helical ribbons.

The molecular geometry of [Te(S_2CO-3,3-Me_2Bu)$_2$] is illustrated in Fig. 4.4 and associated intramolecular contacts are listed in Table 4.1. This molecule exhibits similar intramolecular coordination to that reported previously. The asymmetric mode of coordination of the two ligands (2.487(4) Å, 2.850(4) Å and 2.509(4) Å, 2.883(4) Å) lead to the trapezoidal geometry of the sulfur atoms around the tellurium atom. The features associated with the 3,3-Me_2Bu xanthate ligand are similar to those described for the nPr derivative. A difference between this structure and the two previously reported ones occurs in the nature of the intermolecular Te···S interactions.

A view of the unit cell contents for [Te(S_2CO-3,3-Me_2Bu)$_2$] is shown in Fig. 4.5. In this case each molecule forms two donor and two acceptor contacts as indicated in Fig. 4.4. The structure can be described as being comprised of layers of molecules lying in the *bc*-plane that are sandwiched by alkyl-rich regions. The Te···S contacts occur along the *b*-direction where pairs of Te···S contacts occur between centrosymmetrically related molecules such that each molecule forms associations with two other molecules. Thus, Te···S(2)' is 3.819(5) Å (symmetry operation: -*x*, -*y*, 2-*z*) and Te···S(4)'' is 3.701(6) Å (symmetry operation: -*x*, 1-*y*, 2-*z*). These distances are significantly longer than the comparable distance in the structure of [Te(S_2COnPr)$_2$] and are only slightly less than the sum of the van der Waals radii for these atoms. The lengthening of the Te···S interactions may reflect the fact that each tellurium now forms two weak intermolecular contacts rather than one as in the structure of [Te(S_2COnPr)$_2$].

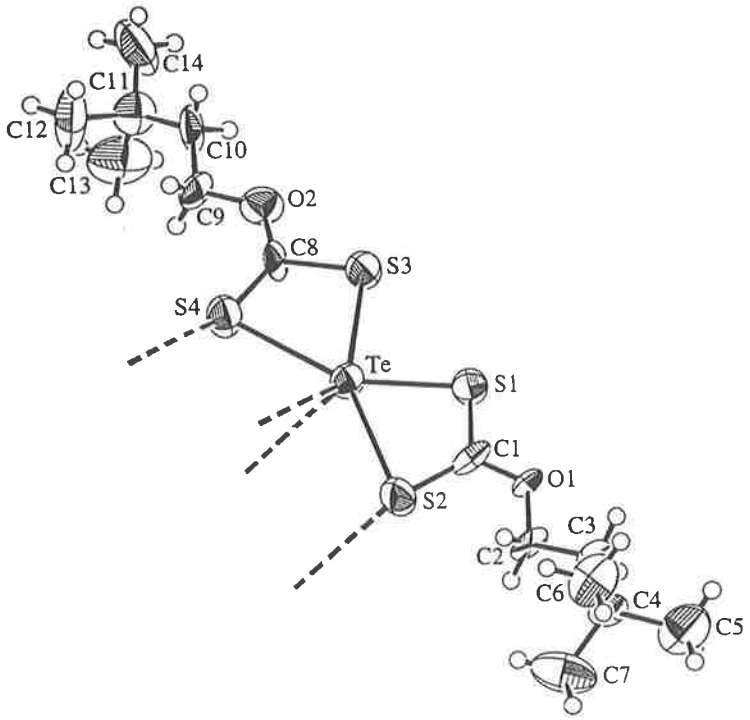


Fig. 4.4 Molecular structure of [Te(S2CO-3,3-Me2Bu)2] showing the crystallographic numbering scheme.

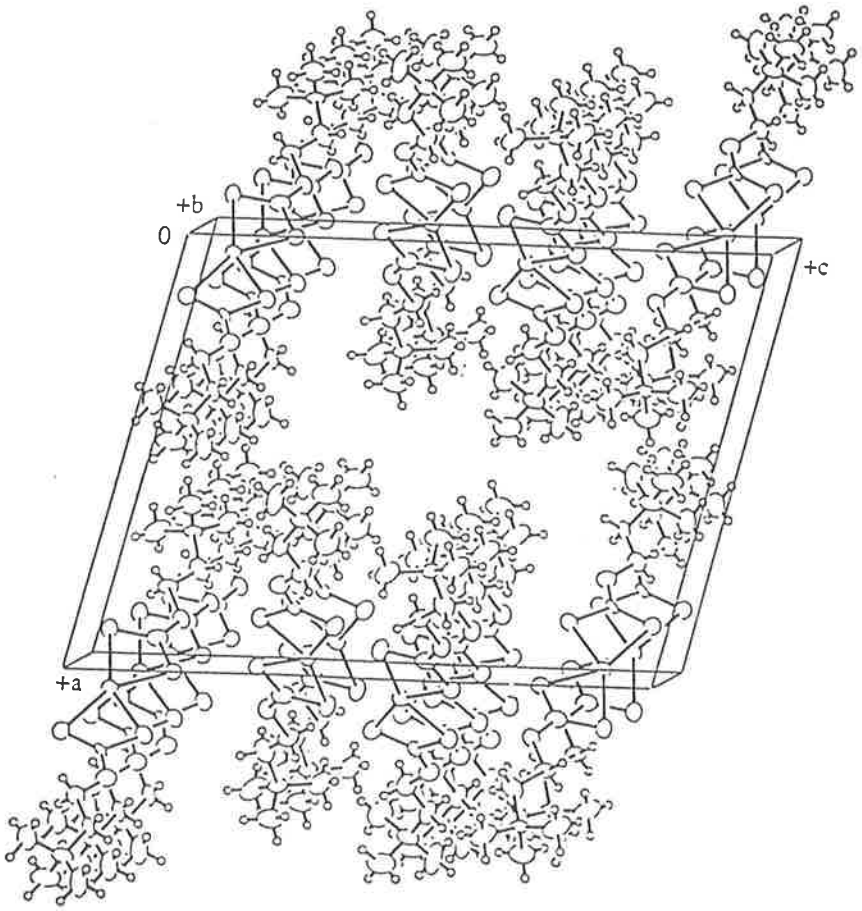


Fig. 4.5 Unit cell contents for [Te(S2CO-3,3-Me2Bu)2].

Fig. 4.6 illustrates the molecular geometry of [Te(S_2COBenzyl)$_2$] and selected parameters are listed in Table 4.1. The mode of coordination of the xanthate ligands to the tellurium atom is asymmetric (2.518(2) Å, 2.814(1) Å and 2.535(1) Å, 2.866(2) Å) with the shorter of the two Te-S bonds situated on the same side of the molecule forming a part of the trapezoidal planar geometry of sulfur atoms. The general features of the benzylxanthate ligand are similar to those observed for the nPr derivative. There is a difference between this structure and those reported above, that occurs in the crystal geometry of the compound.

The unit cell of [Te(S_2COBenzyl)$_2$] illustrated in Fig 4.7 depicts the molecule with no significant interactions between molecules. Unlike the structures reported above the compound contains no significant interactions less than the sum of van der Waals radii.

4.2 DITHIOCARBAMATE STRUCTURE

The molecular structure of [Te(S_2CNCy$_2$)$_2$] is shown in Fig. 4.8 and selected geometric parameters given in Table 4.2. The geometry in this complex is essentially as described above for the xanthate structures with the tellurium atom lying 0.0288(6) Å out of the S_4 least-squares plane (mean deviation: 0.017 Å). In the lattice, the closest intermolecular contact of 3.55(2) Å occurs between the C(11) and C(17)^i atoms (symmetry operation *i*: 0.5-*x*, -0.5+*y*, 0.5-*z*).

4.3 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY

Table 4.1 lists some selected intramolecular parameters of the known Te(S_2COR)$_2$ structures and Table 4.3 summarises some salient geometric parameters, namely the Te-S distances, Δ(Te-S) [*i.e.* Te-S_{long} – Te-S_{short}], and the intermolecular Te···S contacts, when present. Two features of the Te(S_2COR)$_2$ structures merit particular attention, firstly the degree of asymmetry in the mode of

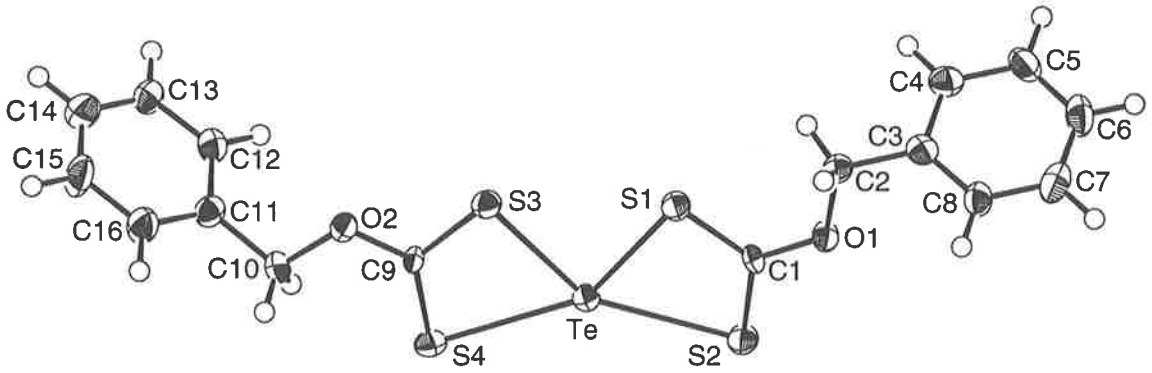


Fig. 4.6 Molecular structure of [Te($S_2COCH_2Ph)_2$] showing the crystallographic numbering scheme.

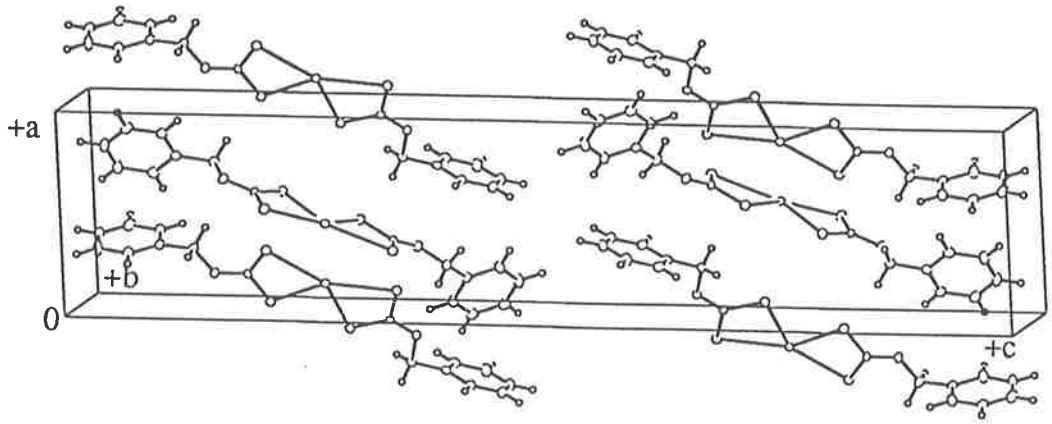


Fig. 4.7 Unit cell contents for [Te($S_2COBenzyl)_2$].

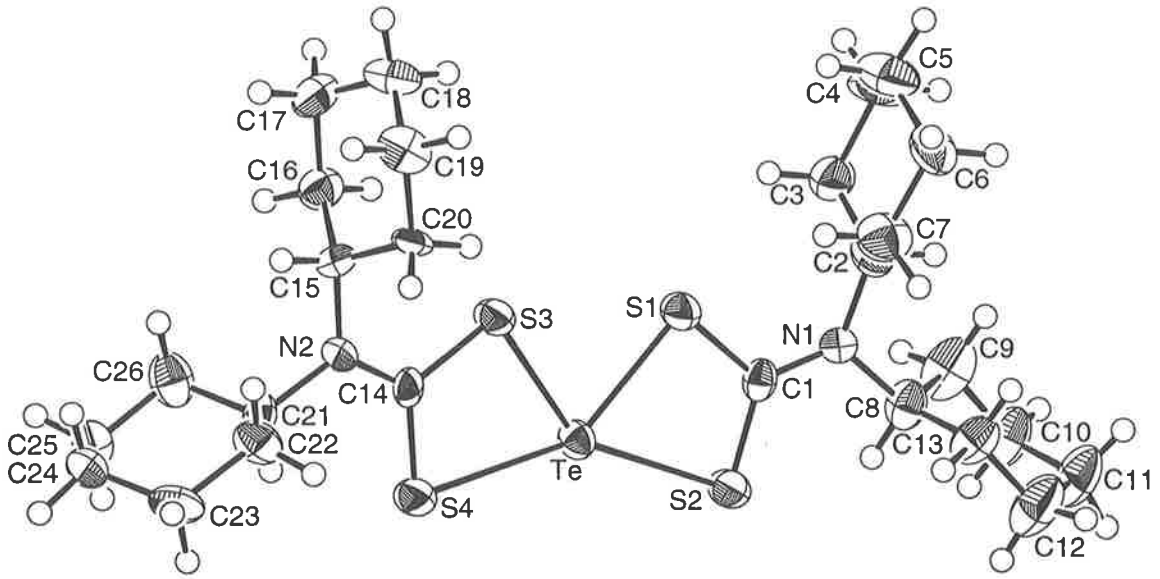


Fig. 4.8 Molecular structure of [Te(S_2CNCy_2)2] showing the crystallographic numbering scheme.

Table 4.2 Selected intramolecular parameters for $Te(S_2CNR_2)_2$

R	Te-S(1)	Te-S(2)	Te···S	S(1)-C	S(2)-C	C-N	S1-Te-S2	S1-C-S2	S2-Te-S4	S1-Te-S3
Et[a]	2.518(4)	2.893(4)	3.579(5)	1.73(2)	1.71(2)	1.33(2)	65.8(1)	118.6(7)	147.8(1)	80.1(1)
	2.519(4)	2.830(3)		1.74(2)	1.69(2)	1.36(2)	66.5(1)	117.9(9)		
NR_2[b]	2.527(7)	2.793(8)	3.296(7)	1.73(3)	1.71(3)	1.36(4)	67.4(3)	119(2)	146.8(2)	80.3(3)
	2.562(8)	2.788(6)		1.71(3)	1.64(3)	1.39(3)	65.6(2)	120(1)		
n-Pr[c]	2.511(1)	2.853(1)	3.499(1)	1.74(5)	1.686(5)	1.323(6)	66.0(1)	118.1(3)	147.0(1)	80.5(1)
	2.516(1)	2.821(2)		1.732(5)	1.691(5)	1.321(7)	66.5(1)	118.1(3)		
i-Pr[d]	2.520(2)	2.821(2)	3.628(1)	1.740(6)	1.687(6)	1.321(8)	65.8(1)	116.3(3)	148.1(1)	79.9(1)
	2.530(2)	2.821(2)		1.747(7)	1.693(6)	1.337(8)	66.0(1)	116.4(3)		
NR_2[e]	2.498(7)	2.856(8)	3.676(7)	1.76(3)	1.69(2)	1.33(4)	66.8(2)	117.9(16)	145.7(2)	80.9(2)
	2.530(6)	2.834(9)		1.74(3)	1.67(2)	1.33(4)	66.6(2)	119.8(17)		

Table 4.2 Cont.

R	Te-S(1)	Te-S(2)	Te···S	S(1)-C	S(2)-C	C-N	S1-Te-S2	S1-C-S2	S2-Te-S4	S1-Te-S3
Cy[f]	2.506(3)	2.835(3)	5.959(3)	1.734(9)	1.70(1)	1.34(1)	65.85(8)	116.4(5)	147.41(8)	81.34(8)
	2.516(3)	2.854(3)		1.735(9)	1.70(1)	1.34(1)	65.38(8)	116.2(5)		

a Fabianič , Spagna, Vaciago, Zambonelli, 1971; b NR2 = CH_2CH_2OH (Rout, Seshasayee, Radha, Aravamudan, 1983); c Ganesh, Seshasayee, Chidambaram, Aravamudan, Goubitz, Schenk, 1989; d Kumar, Aravamudan, Seshasayee, Selvam, Yvon, 1990; e NR_2 = morpholine (Husebye, 1970); f this work.

Table 4.3 Summary of tellurium to sulfur bond distances (Å) for $Te(S_2COR)_2$

R	Te-S_{short}	Te-S_{long}	ΔTe-S	av. ΔTe-S	Te···S
Me[a]	2.510(1)	2.841(1)	0.331(1)		3.513(1)
	2.499(1)	2.846(1)	0.347(1)	0.3390(7)	
Et[b]	2.486(11)	2.897(17)	0.411(20)		3.61(1)
	2.480(13)	2.857(14)	0.377(19)	0.393(14)	
Et[c,d]	2.491(3)	2.948(4)	0.457(5)		3.509(3)
	2.481(3)	2.852(3)	0.371(4)		
	2.499(3)	2.958(4)	0.459(5)		3.490(3)
	2.483(4)	2.850(4)	0.367(6)	0.411(2)	
nPr[e]	2.497(4)	2.881(4)	0.384(6)		3.414(3)
	2.495(3)	2.867(4)	0.372(5)	0.377(4)	
iPr[d,f]	2.483(4)	2.877(5)	0.394(6)		n/a
	2.497(4)	2.881(5)	0.384(6)		
	2.487(4)	2.906(5)	0.419(6)		
	2.487(4)	2.920(6)	0.433(7)	0.406(3)	
3,3-Me_2Bu[e]	2.489(6)	2.844(7)	0.355(9)		3.701(6)
	2.510(6)	2.885(7)	0.375(9)	0.365(10)	3.819(5)
iBu[e]	2.494(1)	2.839(1)	0.345(1)		3.473(1)
	2.510(1)	2.935(1)	0.425(1)	0.3850(7)	
CH_2Ph[e]	2.517(2)	2.814(1)	0.297(3)		n/a
	2.535(1)	2.866(2)	0.331(3)	0.314(2)	

a Graver, Husebye, 1975; b α-form (Husebye, 1967); c β-form (Tiekink, 1986); d two molecules in asymmetric unit; e this work; f Hoskins, Tiekink, Winter, 1985c.

coordination of the xanthate ligand as measured by Δ(Te-S) and secondly, the influence of intermolecular Te···S interactions on the Te-S distances. The significance of supramolecular Te···S interactions in the structural chemistry of tellurium/sulfur compounds has been highlighted in a recent review (Haiduc, King, Newton, 1994).

In all of the $Te(S_2COR)_2$ structures the xanthate ligands chelate the tellurium atoms forming disparate Te-S interactions, *i.e ca* 2.5 Å and 2.9 Å. The $Te\text{-}S_{short}$ distances lie in the range 2.480(13) Å to 2.535(1) Å with an average value of 2.5071(4) Å and the range for the $Te\text{-}S_{long}$ distances is 2.814(1) Å to 2.958(4) Å with an average distance of 2.8589(4) Å. These parameters are reflected in the values of Δ(Te-S) for each ligand which lie in the range 0.314(2) Å to 0.411(2) Å, however, there is no obvious correlation between the nature of R and Δ(Te-S). The small range of Δ(Te-S) indicates that there is no significant dependence of R on the coordinating ability of the xanthate ligands. The consistently observed asymmetric mode of coordination leads to a constant coordination geometry for $Te(S_2COR)_2$. Thus, in the trapezoidal planar geometry the S-Te-S chelate angles lie in the range 64.6(1)° to 67.3(1)° (average 66.23(1)°), the S_{short}-Te-S_{short} angles lie in the range 81.54(4)° to 85.4(2)° (average 83.09(2)°) and the range of S_{long}-Te-S_{long} is 142.0(1)° to 145.6(1)° (average 144.02(2)°). As there is no obvious correlation between the coordinating ability of the xanthate ligand and R, *i.e.* intramolecular effects, intermolecular contacts for these systems are now considered.

A systematic examination of the Te···S interactions, listed in Table 4.3, was undertaken in order to ascertain whether the variations in Δ(Te-S) could be related to intermolecular interactions of this type. In two structures, *i.e.* R = iPr and CH_2Ph, there were no significant Te···S interactions and yet the Δ(Te-S) varied from 0.297(3) Å to 0.433(7) Å. Conversely, in the R = Me and R = nPr structures where intermolecular Te···S interactions of 3.513(1) Å and 3.414(3) Å, respectively occur, no significant differences in Δ(Te-S) were noted. From the above, it is clear that there is no direct relationship between the mode of coordination of the xanthate ligand and the presence of Te···S interactions in the lattice. The lack of a systematic influence by the Te···S contacts

on the Te-S distances suggests that these contacts should be considered as only very weak interactions. This point is borne out by the different associations, when present, seen in the lattices indicating that the Te···S interactions are not dominant in forcing a common packing motif. Thus, in the R = Me and Et (two polymorphs) structures associations occur between centrosymmetrically related pairs. By contrast extended Te···S interactions leading to chains (R = iBu and R = 3,3-Me_2Bu) and helical ribbons (R = nPr) are found in other examples. Finally, there is no correlation between the presence of Te···S and the bulk of the R substituent; see Table 4.3. An analysis of the derived interatomic parameters, similar to that described above for the $Te(S_2COR)_2$ compounds, was conducted for the related dithiocarbamate structures.

Table 4.2 collates some selected intramolecular parameters for the $Te(S_2CNR_2)_2$ compounds and Table 4.4 lists pertinent structural information. The $Te\text{-}S_{short}$ distances lie in the range 2.498(7) Å to 2.562(8) Å with an average of 2.5158(6) Å and the range of $Te\text{-}S_{long}$ is 2.788(6) Å to 2.893(4) Å with an average of 2.8398(7) Å. The range of Δ(Te-S) is 0.226(10) Å to 0.375(6) Å. As for the xanthate structures, there is no obvious correlation between the magnitude of Te-S and the nature of R nor is there a correlation with the extent of Te···S interactions in the lattice. That the trapezoidal planar motif is consistently found in the $Te(S_2CNR_2)_2$ structures is reflected in the ranges of S-Te-S chelate (65.38(8)° to 67.4(3)°, average 65.98(3)°), $S_{short}\text{-}Te\text{-}S_{short}$ (79.9(1)° to 81.34(8)°, average 80.58(5)°) and $S_{long}\text{-}Te\text{-}S_{long}$ (145.7(2)° to 148.1(1)°, average 147.43(4)°) angles.

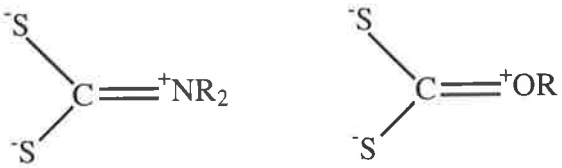
The difference between the average $Te\text{-}S_{short}$ and $Te\text{-}S_{long}$ distances for the xanthate structures of 0.352 Å is longer than the equivalent value for the dithiocarbamate complexes of 0.324 Å and clearly indicates that the dithiocarbamate ligand is a better chelating ligand than the xanthate ligand. This confirms the results of the crystal structure determination of a mixed xanthate/dithiocarbamate tellurium(II) compound, *i.e.* $[Te(S_2COEt)(S_2CNEt_2)]$ (Hoskins, Tiekink, Winter, 1985a) where the dithiocarbamate ligand binds in a more symmetric fashion. These observations may be rationalised in

Table 4.4 Summary of tellurium to sulfur bond distances (Å) for $Te(S_2CNR_2)_2$

R	Te-S_{short}	Te-Slong	ΔTe-S	av. ΔTe-S	Te···S
Et[a]	2.518(4)	2.893(4)	0.375(6)		3.579(5)
	2.519(4)	2.830(3)	0.311(5)	0.337(4)	
CH_2CH_2OH[b]	2.527(7)	2.793(8)	0.266(11)		3.296(7)
	2.562(8)	2.788(6)	0.226(10)	0.244(7)	
nPr[c]	2.511(1)	2.853(1)	0.342(1)		3.499(1)
	2.516(1)	2.821(1)	0.305(2)	0.3346(9)	
iPr[d]	2.520(2)	2.821(2)	0.301(3)		3.628(2)
	2.530(2)	2.821(2)	0.291(3)	0.296(2)	
NR_2[e]	2.498(7)	2.856(8)	0.358(11)		3.676(8)
	2.530(6)	2.834(9)	0.304(11)	0.331(8)	
Cy[f]	2.505(3)	2.835(3)	0.330(4)		n/a
	2.516(3)	2.851(3)	0.335(4)	0.333(3)	

a Fabianič , Spagna, Vaciago, Zambonelli, 1971; b Rout, Seshasayee, Radha, Aravamudan, 1983; c Ganesh, Seshasayee, Chidambaram, Aravamudan, Goubitz, Schenk, 1989; d Kumar, Aravamudan, Seshasayee, Selvam, Yvon, 1990; e NR_2 = morpholine (Husebye, 1970); f this work.

terms of the greater relative contribution of canonical structure (I) to the overall structure of the dithiocarbamate ligand compared with the analogous canonical structure (II) for the xanthate ligand.



(I) (II)

4.4 CONCLUSIONS

The foregoing discussion shows that significant variations in the Te-S bond distances may be found in individual bis(xanthate) and bis(dithiocarbamate) compounds, all of which display a common structural motif based on a trapezoidal planar geometry, and that the differences in Te-S can not be correlated with the nature of R nor with intermolecular Te···S interactions. The coordinating abilities of the xanthate and dithiocarbamate ligands were found to be independent of the nature of R. These results confirm those found in chapter 3 with the nickel(II) complexes. It would appear that intermolecular forces, *i.e.* crystal packing forces, influence the geometric parameters about the tellurium atom in these systems in a manner similar to that described for related organotin systems (Buntine, Hall, Kosovel, Tiekink, 1998; Tiekink, Hall, Buntine, 1998) and transition metal complexes (Martín, Orpen, 1996; Cotton, Yokochi, 1997).

Chapter 5

ZINC(II) BIS 1,1-DITHIOLATES

In this chapter, one new $Zn(S_2COR')_2$ structure and two new $Zn(S_2CNR_2)_2$ structures are described. The derived interatomic parameters of these new structures are compared with the zinc 1,1-dithiolate structures discussed previously in the *Introduction* and an attempt to explain the structural diversity of these compounds pursues.

5.1 XANTHATE STRUCTURES

The molecular structure of $[Zn(S_2COnBu)_2]$ is shown in Fig. 5.1 and selected interatomic parameters are listed in Table 5.1. The asymmetric unit comprises two formula units of $Zn(S_2COnBu)_2$ and 1.5 molecules of benzene solvent, one of which is disposed about a center of inversion. The structure is cyclotetrameric being comprised of an approximate square of four zinc atoms with each edge bridged by a xanthate ligand leading to the formation of a 16-membered, $[-Zn-S-C-S-]_4$ ring; the ring is centrosymmetric. Each of the remaining four xanthate ligands chelates a zinc atom. The bridging xanthate ligands form almost symmetrical bridges with S(1)-Zn(1) and S(2)-Zn(2) 2.298(3) Å and 2.318(3) Å, respectively and S(5)-Zn(2) and S(6)-$Zn(1)^i$ of 2.324(3) Å and 2.355(3) Å (symmetry operation *i*: -*x*, -*y*, -*z*). There is slight asymmetry in the Zn(1)-S bonds formed by the chelating S(3), S(4) xanthate ligand (2.360(3) Å *cf.* 2.397(3) Å) compared with the other chelating ligand which forms symmetric Zn(2)-S(7), S(8) bond distances of 2.375(3) Å and 2.383(3) Å. Thus, each zinc atom exists in a distorted tetrahedral geometry defined by two bridging and two chelating sulfur atoms. Owing to the presence in each coordination geometry of the chelating xanthate ligand, with its associated restricted bite angle, the distortions from the ideal tetrahedral geometry are significant. Thus, the S-Zn-S angles range from 76.8(1)° to 128.7(1)° for the Zn(1) center and 76.5(1)° to 116.9(1)° for the Zn(2) atom with the smaller angles being due to the chelating ligands.

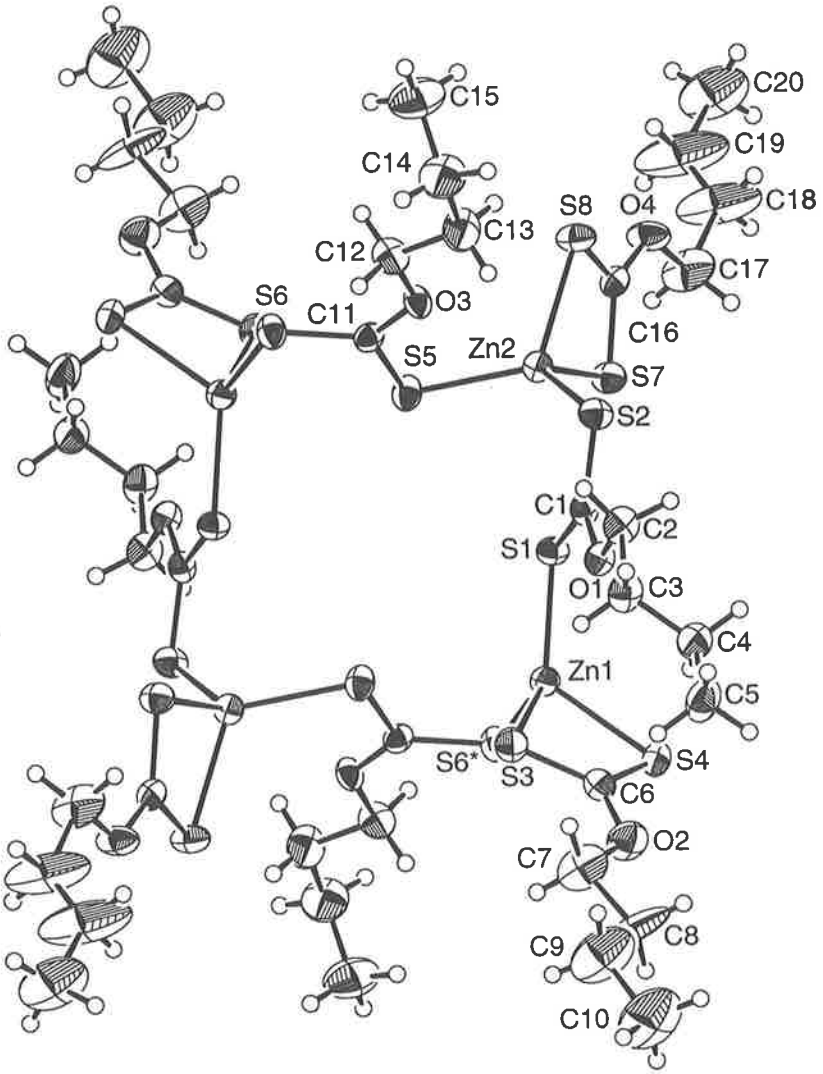


Fig. 5.1 Molecular structure of [$Zn(S_2COnBu)_2$] drawn with 35% probability ellipsiods showing the crystallographic numbering scheme.

Table 5.1 Selected interatomic parameters (Å, deg.) for $[Zn(S_2COnBu)_2]^a$

Zn(1)-S(1)	2.298(3)	Zn(2)-S(2)	2.318(3)
Zn(1)-S(3)	2.360(3)	Zn(2)-S(5)	2.324(3)
Zn(1)-S(4)	2.397(3)	Zn(2)-S(7)	2.375(3)
Zn(1)-S(6)^i	2.355(3)	Zn(2)-S(8)	2.383(3)
S(1)-C(1)	1.713(9)	S(5)-C(11)	1.701(9)
S(2)-C(1)	1.67(1)	S(6)-C(11)	1.70(1)
S(3)-C(6)	1.70(1)	S(7)-C(16)	1.68(1)
S(4)-C(6)	1.66(1)	S(8)-C(16)	1.70(1)
C(1)-O(1)	1.32(1)	C(11)-O(3)	1.29(1)
C(6)-O(2)	1.35(1)	C(y)-O(4)	1.32(1)
S(1)-Zn(1)-S(3)	128.7(1)	S(2)-Zn(2)-S(5)	116.8(1)
S(1)-Zn(1)-S(4)	122.6(1)	S(2)-Zn(2)-S(7)	116.9(1)
S(1)-Zn(1)-S(6)^i	108.9(1)	S(2)-Zn(2)-S(8)	111.5(1)
S(3)-Zn(1)-S(4)	76.8(1)	S(5)-Zn(2)-S(7)	113.0(1)
S(3)-Zn(1)-S(6)^i	112.5(1)	S(5)-Zn(2)-S(8)	115.7(1)
S(4)-Zn(1)-S(6)^i	101.5(1)	S(7)-Zn(2)-S(8)	76.5(1)
Zn(1)-S(1)-C(1)	105.7(4)	Zn(2)-S(2)-C(1)	101.9(3)
Zn(1)-S(3)-C(6)	80.4(4)	Zn(2)-S(5)-C(11)	100.3(3)
Zn(1)-S(4)-C(6)	79.9(4)	Zn(2)-S(7)-C(16)	81.5(4)
Zn(1)-S(6)^i-C(11)^i	102.5(3)	Zn(2)-S(8)-C(16)	80.7(4)
C(1)-O(1)-C(2)	117.2(8)	C(11)-O(3)-C(12)	120.5(8)
C(6)-O(2)-C(7)	120(1)	C(16)-O(4)-C(17)	118.8(9)
S(1)-C(1)-S(2)	122.4(6)	S(5)-C(11)-S(6)	121.4(6)
S(1)-C(1)-O(1)	115.4(7)	S(5)-C(11)-O(3)	116.7(7)
S(2)-C(1)-O(1)	122.2(7)	S(6)-C(11)-O(3)	121.9(7)
S(3)-C(6)-S(4)	122.9(7)	S(7)-C(16)-S(8)	121.2(6)

Table 5.1 Cont.

S(3)-C(6)-O(2)	121.5(8)	S(7)-C(16)-O(4)	123.2(8)
S(4)-C(6)-O(2)	115.6(8)	S(8)-C(16)-O(4)	115.6(8)

a symmetry operations i: *-x*, *-y*, *-z*

Clearly, the range of S-Zn-S angles about the Zn(1) atom is greater than that for the Zn(2) atom. This difference in the degree of distortion may be rationalised in terms of the influence of intramolecular Zn···O interactions, *i.e.* Zn(1)···O(1) is 3.074(6) Å and Zn(2)···O(3) is 2.927(6) Å. The O(1) atom is orientated towards the Zn(1) atom so as to lie over the chelating xanthate ligand and thereby pushing the S(3) and S(4) atoms away from the S(1) atom and expanding the associated angles. By contrast, the O(3) atom approaches the Zn(2) atom on a tetrahedral face defined through the S(2), S(5) and S(8) atoms, thereby expanding these angles subtended at zinc. As mentioned above, this structure crystallises with benzene solvent molecules in the lattice.

A view of the unit cell contents for $[Zn(S_2COnBu)_2].0.75C_6H_6$ is shown in Fig. 5.2 from which it can be seen that the crystallographically independent benzene molecules occupy distinct regions of the crystal lattice. An interesting feature of the crystal packing is the occupancy of the 16-membered rings. The centrosymmetric benzene molecules occupy channels defined by the rings aligned in the *c*-direction. The benzene molecules that occupy general positions stack in the *c*-direction but in hydrophobic regions defined by the n-butyl groups. Other xanthate complexes, notably immine adducts of nickel(II) bis xanthates (*e.g.* Gable, Hoskins, Winter, 1985), are known to form clathrates.

The structural motif reported here for $[Zn(S_2COnBu)_2]$ has a precedent in the literature. The $[Zn(S_2COiPr)_2]$ structure (Ito, 1972) also adopts a motif, labeled A in Fig. 5.3 (adapted from Fig 1.13 (vi)), based on isolated 16-membered rings. A difficulty of systematic studies of the type reported herein, is the difficulty in obtaining suitable single crystals for analysis and thus far, attempts to grow crystals of other $Zn(S_2COR)_2$ derivatives has proved elusive. We have, however, obtained crystals of the $[Zn(S_2COiBu)_2]$ compound and a preliminary X-ray analysis shows that motif A is also found. Severe disorder associated with the alkyl groups has precluded satisfactory modelling and hence, full details of the structure are not reported here. The only other $Zn(S_2COR)_2$ structure available for comparison is that of $[Zn(S_2COEt)_2]$ (Ikeda, Hagihara, 1966). This structure, shown as motif B in Fig. 5.3 (adapted from Fig 1.13

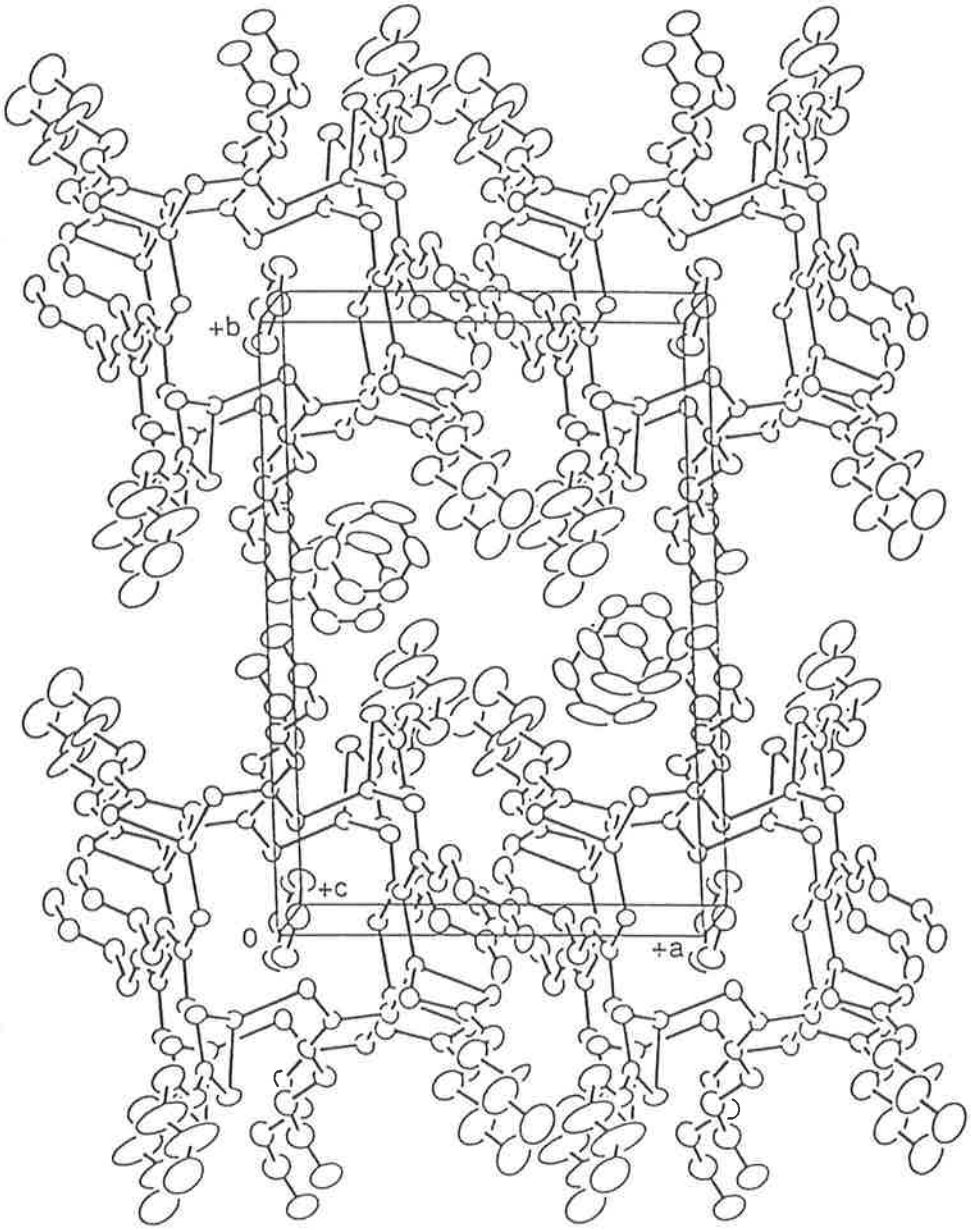


Fig. 5.2 Unit cell contents for $[Zn(S_2COnBu)_2]$.

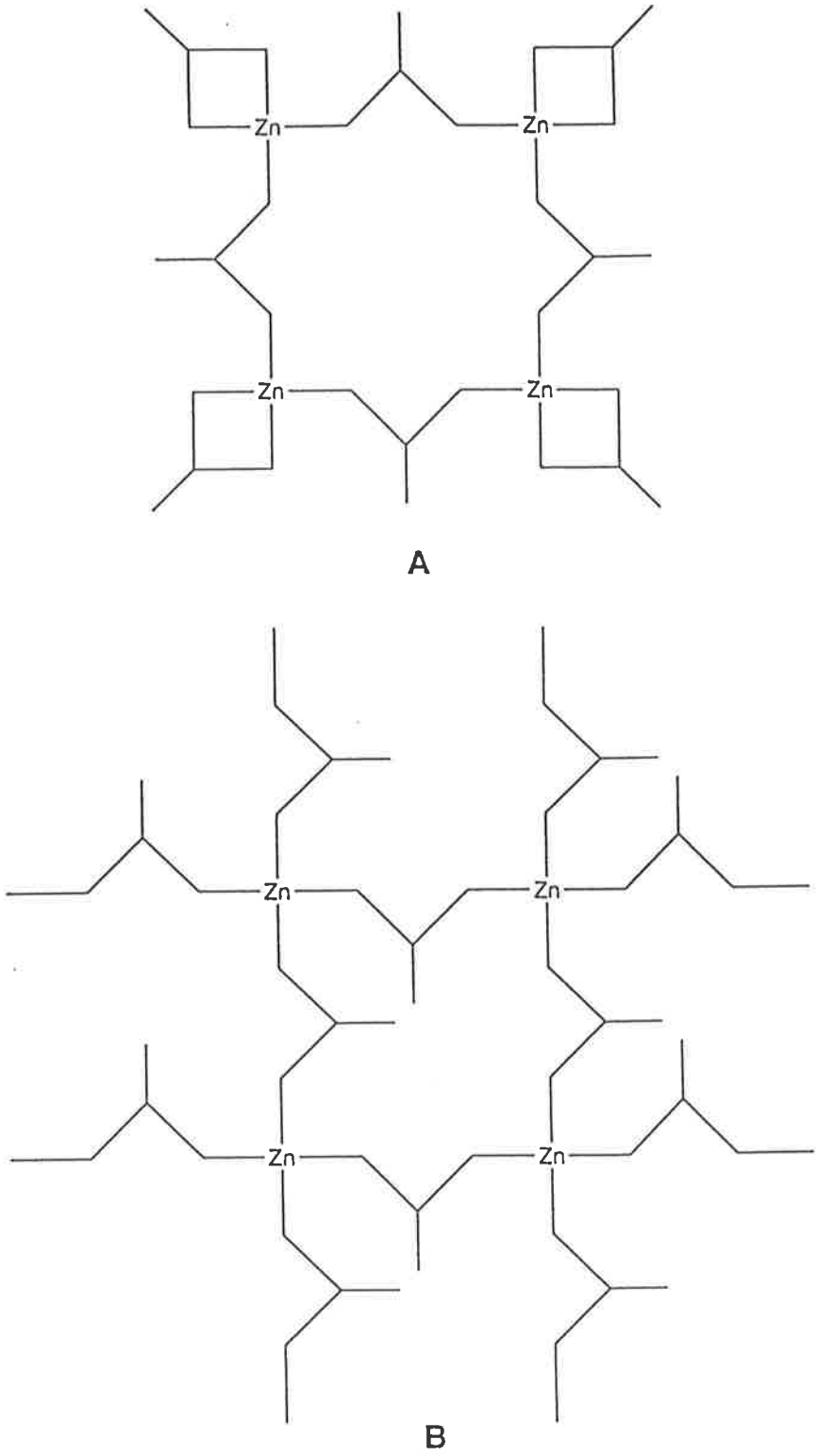


Fig. 5.3 Structural motifs for $Zn(S_2COR)_2$. Motif A is found for R = nBu, iBu and iPr. Motif B is found for R = Et.

(vii)), is also based on 16-membered rings, however, in this case the chelating xanthate ligands of motif A are now bridging adjacent zinc atoms of neighbouring 16-membered rings giving rise to 2-dimensional sheets but retaining tetrahedral ZnS_4 coordination. The absence of chelating ligands in motif B results in a more regular tetrahedral geometry as seen in the narrower range of S-Zn-S angles, *i.e.* 102.6(3)° to 115.2(3)°.

5.2 DITHIOCARBAMATE STRUCTURES

The molecular structure of $[Zn(S_2CN(Et)Cy)_2]$, containing a disymmetric dithiocarbamate ligand, is illustrated in Fig. 5.4 and selected interatomic parameters are collected in Table 5.2. Molecules associate via bridging dithiocarbamate ligands about a crystallographic center of inversion to generate 8-membered $[-Zn-S-C-S-]_2$ rings. The coordination geometries about the zinc atoms are defined by four sulfur atoms, two bridging and two chelating. The Zn-S bridging distances are similar at 2.341(1) Å and 2.366(1) Å but there is some asymmetry in the mode of coordination of the chelating ligand, Zn-S(1) 2.332(1) Å *cf.* Zn-S(2) 2.491(1) Å. The range of tetrahedral angles is 74.66(3)° to 135.62(4)° with the acute angle being associated with the chelating dithiocarbamate ligand. The wider S-Zn-S angles may be traced directly to the presence of an intramolecular $Zn\cdots S(4)^i$ contact of 2.838(1) Å (symmetry operation *i*: 1-*x*, -*y*, -*z*). This distance is less than the sum of the van der Waals radii for these atoms of 3.1 Å (Bondi, 1964) and it is significant that the Zn-S(2) bond, *i.e.* with the S(2) atom *trans* to the $S(4)^i$, is the longest of the four nearest Zn-S interactions. If $Zn\cdots S(4)^i$ was considered to represent a significant bonding interaction, a distortion towards a trigonal bipyramidal geometry would be indicated. In this description, the S(2) and $S(4)^i$ atoms would occupy the axial positions and define an axial angle of 158.23(3)°; the trigonal angles range from 102.78(5)° to 135.62(4)°. The $Zn\cdots Zn^i$ separation of 3.6827(9) Å is not indicative of a bonding interaction. As a consequence of the presence of a center of inversion in the 8-membered ring, the disposition of the alkyl substituents is such as to place them on either side of the molecule. Substitution of the

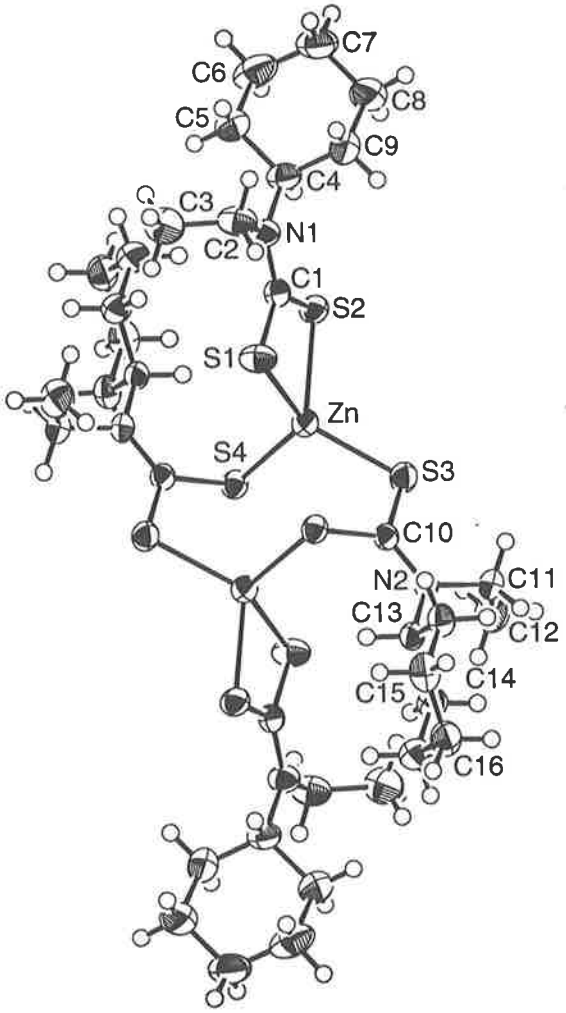


Fig. 5.4 Molecular structure of $[Zn(S_2CN(Et)Cy)_2]$ showing the crystallographic numbering scheme.

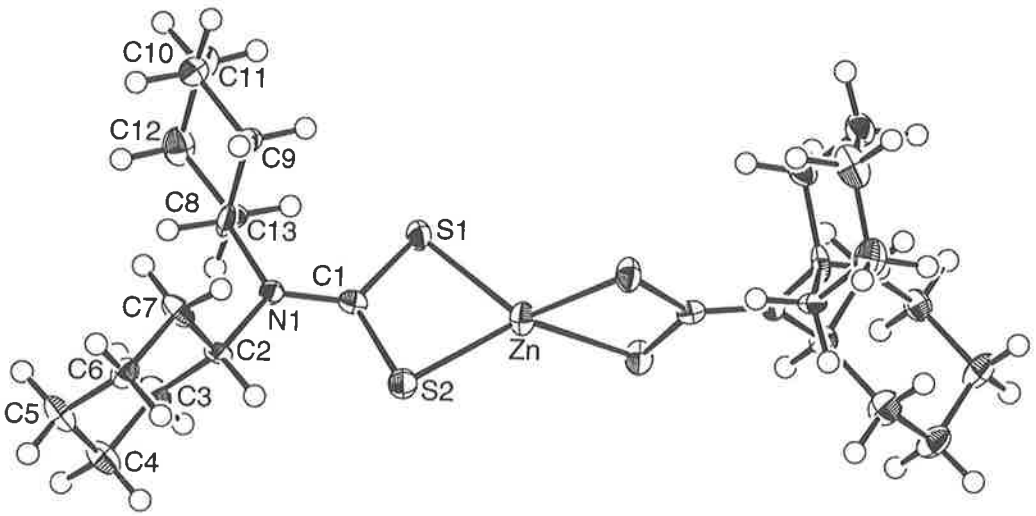


Fig. 5.5 Molecular structure of $[Zn(S_2CNCy_2)_2]$ showing the crystallographic numbering scheme.

Table 5.2 Selected interatomic parameters (Å, deg.) for $Zn(S_2CNR_2)_2$, R_2 = (Et, Cy), Cy_2[a]

bond	y = 4	y = 8
Zn-S(1)	2.332(1)	2.321(3)
Zn-S(2)	2.491(1)	2.349(3)
Zn-S(3)	2.341(1)	
Zn-S(4)	2.366(1)	
S(1)-C(1)	1.719(4)	1.731(7)
S(2)-C(1)	1.721(4)	1.746(9)
S(3)-C(10)	1.716(3)	
S(4)-C(10)	1.754(4)	
C(1)-N(1)	1.336(4)	1.33(1)
C(10)-N(2)	1.323(4)	
S(1)-Zn-S(2)	74.66(3)	77.83(7)
S(1)-Zn-S(3)	135.62(4)	125.9(1)[b]
S(1)-Zn-S(4)	117.06(4)	122.97(7)[b]
S(2)-Zn-S(3)	109.99(4)	122.97(7)[b]
S(2)-Zn-S(4)	110.55(4)	137.0(2)[b]
S(3)-Zn-S(4)	102.78(5)	77.83(7)[b]
Zn-S(1)-C(1)	86.8(1)	84.1(3)
Zn-S(2)-C(1)	81.8(1)	82.9(2)
Zn-S(3)-C(10)	94.6(1)	
Zn-S(4)-C(10)[i]	99.7(1)	
C(1)-N(1)-C(2)	120.6(3)	120.0(7)
C(1)-N(1)-C(y)	121.4(3)	124.9(6)
C(2)-N(1)-C(y)	117.5(3)	114.9(6)
C(10)-N(2)-C(11)	119.6(3)	

Table 5.2 Cont.

C(10)-N(2)-C(13)	121.9(3)	
C(11)-N(2)-C(13)	118.2(3)	
S(1)-C(1)-S(2)	116.6(2)	115.1(4)
S(1)-C(1)-N(1)	120.8(3)	122.6(6)
S(2)-C(1)-N(1)	122.6(3)	122.3(5)
S(3)-C(10)-S(4)^{i}	117.8(2)	
S(3)-C(10)-N(2)	121.1(3)	
S(4)^{i}-C(10)-N(2)	121.0(3)	

a symmetry operations i: 1-*x*, -*y*, -*z* and ii: *x*-*y*, -*y*, 1/3-*z*; b S(3)≡S(1)^{ii} and S(4)≡S(2)^{ii}

ethyl groups in [Zn(S_2CN(Et)Cy)$_2$] for cyclohexyl groups results in the adoption of another structural motif.

The molecular structure of [Zn(S_2CNCy$_2$)$_2$] is shown in Fig. 5.5 and selected geometric parameters are listed in Table 5.2. The molecule has crystallographically imposed 2-fold symmetry with the zinc atom situated on this axis. The molecular geometry is based on a tetrahedron defined by four sulfur atoms derived from two symmetrically chelating dithiocarbamate ligands, Zn-S(1) is 2.321(3) Å and Zn-S(2) is 2.349(3) Å. The range of S-Zn-S angles is 77.83(7)° to 137.0(2)° with the wider angle being defined by the two less tightly held S(2) atoms; this distortion probably reflects the restricted bite distance of each ligand. There are no intermolecular contacts involving non-H atoms in the lattice less than 3.6 Å.

The structural motif reported here for [Zn(S_2CN(Et)Cy)$_2$], *i.e.* motif C (see Fig. 5.6), has several precedents in the literature. Thus, the structures of Zn(S_2CNR$_2$)$_2$ where R = Et (Bonamico, Mazzone, Vaciago, Zambonelli, 1965; Zvonkova, Khvatkina, Ivanova, 1968), nPr (Sreehari, Varghese, Monoharan, 1990); -CH_2CH=CH_2 (Kellö, Vrábel, Kettmann, Garaj, 1983), and iPr (Miyamae, Ito, Iwasaki, 1979); where R_2 = $(CH_2)_4$ (Francetič , Leban, 1979) and $(CH_2)_6$ (Agre, Shugam, 1972b); and where R_2 = (Me, Et), (Me, nPr), (Me, iPr) and (Me, nBu) (Motevalli, O'Brien, Walsh, Watson, 1996) adopt this motif. A related structural motif, motif C' (Fig. 5.6), is found for [Zn(S_2CNMe$_2$)$_2$] where the 8-membered ring has crystallographic 2-fold symmetry with the consequence that the methyl groups lie to one side of the molecule (Klug, 1966; Ramalingam, bin Shawkataly, Fun, Abdul-Razak, 1998). The C motif may be described as the chair form and the C' motif as the boat form of Zn(S_2CNR$_2$)$_2$. The structure of [Zn(S_2CNCy$_2$)$_2$] represents a third motif, *i.e.* D, for Zn(S_2CNR$_2$)$_2$ structures. It is noteworthy that the motifs adopted by the zinc bis dithiocarbamates are quite distinct from those adopted by the zinc bis xanthates. Despite the appearance of the different motifs, A - D, the zinc centers invariably adopt distorted tetrahedral geometries with distortions

arising as a result of weaker Zn···O or Zn···S interactions as well as the restricted bite distances of the respective 1,1-dithiolate ligands.

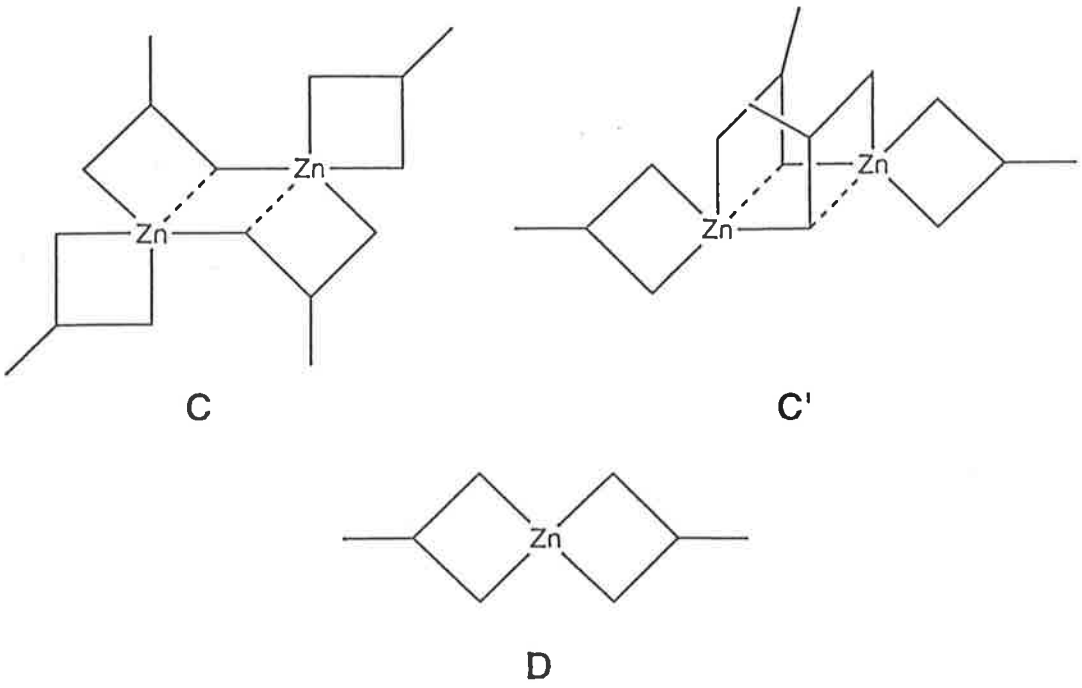


Fig. 5.6 Structural motifs for $Zn(S_2CNR_2)_2$. Motif C is found for R = Et, nPr, -$CH_2CH{=}CH_2$, and iPr; R_2 = $(CH_2)_4$ and $(CH_2)_6$; and R_2 = (Me, Et), (Me, nPr), (Me, iPr), (Me, nBu) and (Et, Cy). Motif C' is found for R = Me. Motif D is found for R = Cy. (Adapted from Fig. 1.13)

5.3 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY

It is interesting to speculate on the origin of the different motifs found for the $Zn(S_2COR)_2$ and $Zn(S_2CNR_2)_2$ structures. For the zinc bis xanthates, only four structures are known and of these, three, with R = iPr, nBu and iBu, adopt the isolated 16-membered ring motif (A). The presence of the smaller ethyl substituent in $[Zn(S_2COEt)_2]$ results in association between the rings to form a layer structure (motif

B). Thus, a simple argument, based on the size of the R substituents, allows for a graduation from a cyclotetrameric motif to a 2-dimensional lattice as the size of R is reduced. In this context it is appropriate to consider the analogous mercury bis xanthates where a chain structure is found for R = Me (Tiekink, 1987), a 2-dimensional structure is found for R = Et (Watanabe, 1977; Chieh, Moynihan, 1980) and nPr (Hounslow, Tiekink, 1991), and a 3-dimensional structure is found for R = iPr (Watanabe, 1981), *i.e.* the greater the steric bulk, the greater the aggregation in the solid state, *i.e.* contrary to the general trend in the zinc bis xanthates. Clearly, extreme caution must be made when justifying the appearance of one motif in preference to another based on steric reasons alone.

With the above caveat in mind, it is nevertheless almost compelling to rationalise the appearance of the different motifs for the three $Zn(S_2CNR_2)_2$ structures, *i.e.* R = Et, R_2 = (Et, Cy) and R = Cy based on steric arguments. Thus, as the less sterically demanding ethyl groups are replaced by the larger cyclohexyl groups reduced association is observed. Also relevant is the observation that the Lewis basicity of the dithiocarbamate ligand is increased as ethyl is substituted for cyclohexyl (*e.g.* Hall, Tiekink, 1998; Tiekink, Hall, Buntine, 1998). Hence, the observed variation in structural motifs is consistent with variations in electronic effects as well.

5.4 CONCLUSIONS

Several motifs may be found in the solid state for the bis xanthates and bis dithiocarbamates of zinc(II). The steric profiles of the O- and N- bound groups seem to play a significant role in determining the ultimate motif adopted in the solid state for these systems, however, comparison with other Zn-triad structures suggests that other factors may also need to be taken into account.

Chapter 6

CADMIUM(II) BIS 1,1-DITHIOLATES

In this chapter, the crystal and molecular structures of four new $Cd(S_2CNR_2)_2$ complexes have been determined and their structural characteristics described below. Crystals of new $Cd(S_2COR')_2$ compounds suitable for X-ray analysis proved to be elusive, however a discussion of the cadmium 1,1-thiolate structures previously mentioned in the *Introduction* and the derived interatomic parameters of the four new $Cd(S_2CNR_2)_2$ pursues.

6.1 DITHIOCARBAMATE STRUCTURES

All of the new $Cd(S_2CNR_2)_2$ structures described herein adopt the same motif in the solid state and selected interatomic parameters for these are presented in Table 6.1. The molecular structure of $[Cd(S_2CNiPr_2)_2]$ is illustrated in Fig. 6.1. Two centrosymmetrically related molecules associate in the solid state via bridging dithiocarbamate ligands to form dinuclear units. The independent cadmium atom is chelated by two dithiocarbamate ligands one of which also bridges the neighbouring cadmium atom. The bridging S(2)-Cd^i distance of 2.601(2) Å is shorter than the intramolecular Cd-S(2) distance of 2.814(2) Å, an observation that is repeated in all four new $Cd(S_2CNR_2)_2$ structures (see Table 6.1); symmetry operation *i*: - *x*, - *y*, 1 – *z*. As a consequence of the bridging, the asymmetry in the Cd-S bond distances formed by the bridging dithiocarbamate ligand is greater than that found for the chelating ligand which does not participate in further associations with cadmium; ΔCd-S (*i.e.* $Cd\text{-}S_{long}$ - $Cd\text{-}S_{short}$) is 0.268(3) Å for the bridging ligand *cf.* 0.048(3) Å for the chelating ligand. The coordination geometry is best described as distorted trigonal bipyramidal with the S(2) and S(4) atoms (that form the longer of the Cd-S bonds) defining the axial positions. In this description, the cadmium atom lies 0.1950(6) Å out of the trigonal plane defined

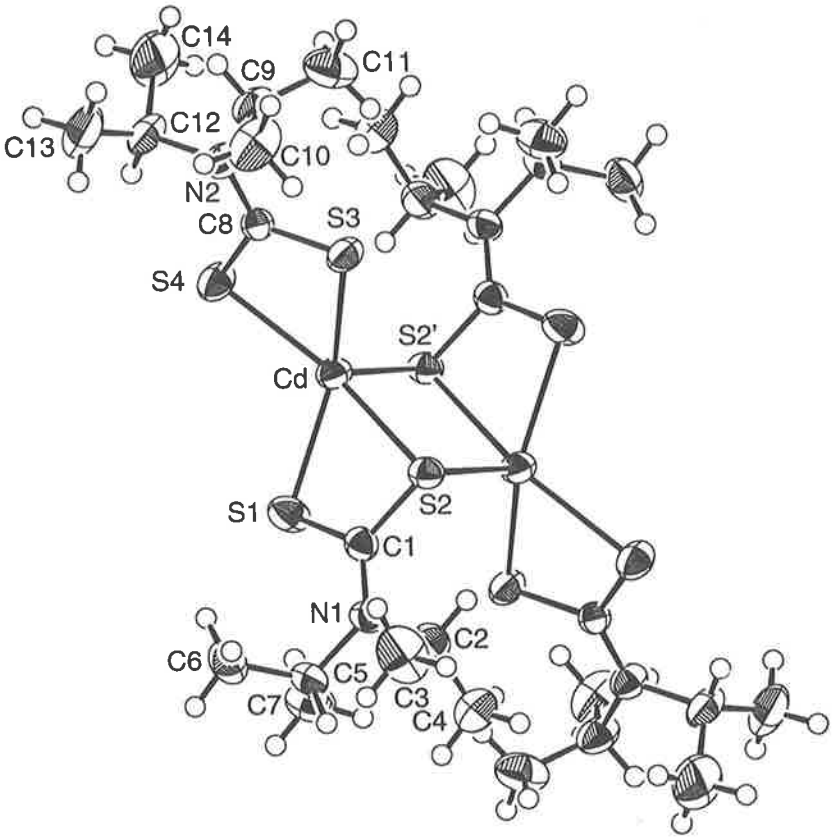


Fig. 6.1 Molecular structure of $[Cd(S_2CNiPr_2)_2]$ showing the crystallographic numbering scheme.

Table 6.1 Selected interatomic parameters (Å, deg.) for $Cd(S_2CNR_2)_2$, R = iPr, R_2 = (Et, Cy), R = Cy, R = iBu

	R = iPr[a]	R_2 = (Et, Cy)[b]	R = Cy[c]	R = iBu[d] molecule *a*	R = iBu[e] molecule *b*
	y = 2	y = 4	y = 2	y = 4	y = 4
	z = 8	z = 10	z = 14	z = 10	z = 10
Cd—S(1)	2.546(2)	2.549(2)	2.539(4)	2.566(4)	2.539(3)
Cd—S(2)	2.814(2)	2.626(2)	2.897(3)	2.592(3)	2.653(3)
Cd—S(3)	2.555(2)	2.550(2)	2.560(3)	2.591(3)	2.550(4)
Cd—S(4)	2.603(2)	2.812(2)	2.596(3)	2.780(3)	2.780(4)
Cd—S(y)[i]	2.601(2)	2.602(2)	2.551(3)	2.590(3)	2.617(3)
S(1)—C(1)	1.710(8)	1.741(8)	1.73(1)	1.74(1)	1.72(1)
S(2)—C(1)	1.753(7)	1.711(8)	1.76(1)	1.72(1)	1.72(1)
S(3)—C(z)	1.737(7)	1.735(8)	1.72(1)	1.718(9)	1.70(1)
S(4)—C(z)	1.729(7)	1.735(7)	1.74(1)	1.731(9)	1.74(1)
C(1)—N(1)	1.331(9)	1.329(9)	1.32(1)	1.34(2)	1.32(1)

THE UNIVERSITY OF ADELAIDE LIBRARY

Table 6.1 Cont.

C(z)—N(2)	1.314(8)	1.303(9)	1.34(1)	1.35(1)	1.35(1)
S(1)—Cd—S(2)	66.71(6)	69.96(7)	65.4(1)	70.2(1)	69.4(1)
S(1)—Cd—S(3)	143.32(8)	143.30(8)	139.4(1)	151.69(9)	141.0(1)
S(1)—Cd—S(4)	109.96(8)	94.77(6)	108.0(1)	100.28(8)	111.4(1)
S(1)—Cd—S(y)^{i}	101.63(8)	111.42(7)	102.0(1)	108.9(1)	114.2(1)
S(2)—Cd—S(3)	97.02(6)	113.10(7)	93.6(1)	105.25(9)	98.4(1)
S(2)—Cd—S(4)	153.87(7)	155.18(7)	146.1(1)	145.60(8)	158.7(1)
S(2)—Cd—S(y)^{i}	96.50(6)	111.26(7)	92.4(1)	116.35(9)	109.3(1)
S(3)—Cd—S(4)	69.92(6)	67.42(6)	69.7(1)	67.07(7)	67.1(1)
S(3)—Cd—S(y)^{i}	113.11(7)	101.49(8)	113.8(1)	98.2(1)	104.8(1)
S(4)—Cd—S(y)^{i}	109.37(7)	92.29(6)	121.2(1)	98.04(7)	90.1(1)
Cd—S(y)—Cd^{i}	83.50(6)	87.71(6)	87.6(1)	81.96(7)	89.9(1)
Cd—S(1)—C(1)	92.9(2)	86.7(3)	95.5(4)	86.0(4)	87.8(4)
Cd—S(2)—C(1)	83.3(3)	84.8(3)	83.2(4)	85.7(4)	84.1(3)
Cd—S(3)—C(z)	87.2(2)	91.0(2)	87.3(4)	89.5(4)	91.3(4)
Cd—S(4)—C(z)	85.8(2)	82.6(3)	85.8(4)	100.9(3)	83.1(3)

Table 6.1 Cont.

Cd—S(y)—C	99.3(2)	97.6(2)	99.6(4)	83.2(4)	100.9(4)
S(1)—C(1)—S(2)	117.2(4)	118.5(5)	115.8(6)	118.0(8)	118.7(5)
S(1)—C(1)—N(1)	122.0(5)	119.8(6)	122.5(9)	119.3(7)	119.8(9)
S(2)—C(1)—N(1)	120.8(6)	121.6(6)	121.7(9)	122.7(7)	121.4(9)
S(3)—C(z)—S(4)	117.0(4)	118.6(4)	117.2(6)	119.0(6)	118.0(5)
S(3)—C(z)—N(2)	121.7(5)	119.5(5)	122.3(8)	119.8(6)	120.9(8)
S(4)—C(z)—N(2)	121.3(5)	121.8(6)	120.5(8)	121.2(6)	121.1(8)

a symmetry operation *i*: - *x*, - *y*, 1 - *z*

b symmetry operation *i*: 1 - *x*, - *y*, - *z*

c symmetry operation *i*: - *x*, - *y*, - *z*

d symmetry operation *i*: - *x*, - *y*, -1 - *z*

e symmetry operation *i*: -0.5 - *x*, -0.5 - *y*, -1 - *z*

by the S(1), S(3) and S(2)^{i} atoms in the direction of the more tightly bound axial atom, *i.e.* S(4). An alternate description of the coordination geometry about the cadmium atom would be one based on a square pyramidal geometry. The basal plane would be defined by the S(1)-S(4) atoms that lie 0.107(3) Å, -0.074(2) Å, 0.086(2) Å and -0.095(2) Å, respectively out of the S_4 least-squares plane and the axial position is occupied by the bridging S(2)' atom; the cadmium atom lies 0.6824(6) Å above this plane in the direction of the S(2)' atom. Within the "square" face, two edges are approximately 3 Å and the other two are slightly greater than 4 Å. The independent distances within the centrosymmetric rhombus are 2.601(2) Å and 2.814(2) Å and the two angles are 96.50(6)° (at cadmium) and 83.50(6)° (at the bridging sulfur atom) indicating an almost regular geometry. The disposition of the bridging dithiocarbamate ligands is such that they lie on either side of the rhombus. The motif described here for $[Cd(S_2CNiPr_2)_2]$ is the common motif for the $Cd(S_2CNR_2)_2$ structures (see later) and the observed conformation is repeated in other new structures reported herein.

The molecular structure of $[Cd(S_2CN(Et)Cy_2)_2]$, *i.e.* containing a disymmetric dithiocarbamate ligand, is shown in Fig. 6.2. The cadmium atom lies 0.2724(6) Å out of the plane through the S(1), S(3) and S(4)^{i} atoms in the direction of the S(2) atom; symmetry operation *i*: 1 - *x*, - *y*, - *z*. The dimensions within the rhombus are almost identical to those found in the structure of $[Cd(S_2CNiPr_2)_2]$, however, the angle subtended at the bridging sulfur atom has expanded by *ca* 3° resulting in a concomitant reduction in the angle subtended at cadmium. An interesting observation is that when the molecule is viewed along the Cd···Cd vector the four cyclohexyl groups are directed away from the remaining part of the dinuclear molecule, presumably to minimise steric repulsions.

The molecular structure of $[Cd(S_2CNCy_2)_2]$ is shown in Fig. 6.3. The cadmium atom lies 0.313(1) Å out of the plane defined by the S(1), S(3) and S(2)^{i} atoms in the direction of the S(4) atom (symmetry operation *i*: - *x*, - *y*, - *z*). A comparison of the geometric parameters defining the central rhombus shows that while the angles are similar

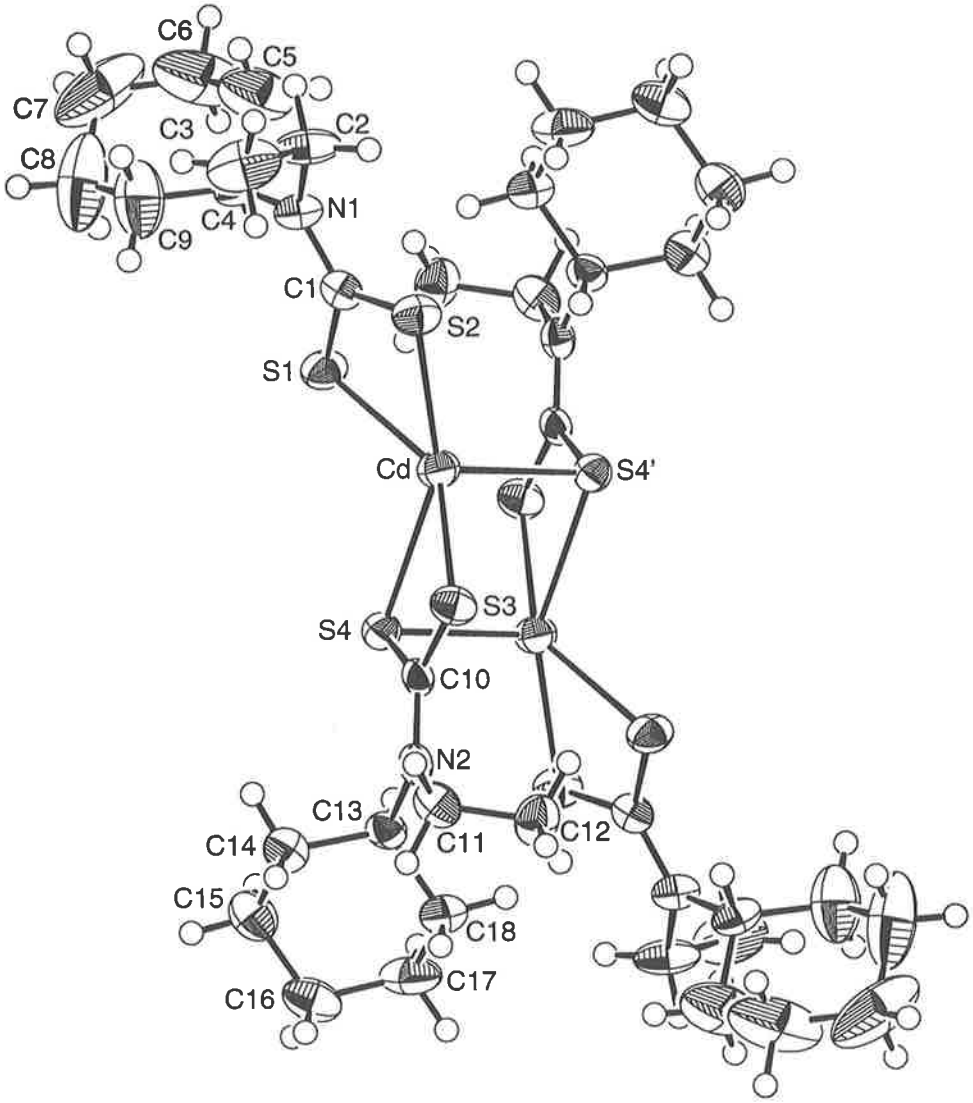


Fig. 6.2 Molecular structure of $[Cd(S_2CN(Et)Cy)_2]$ showing the crystallographic numbering scheme.

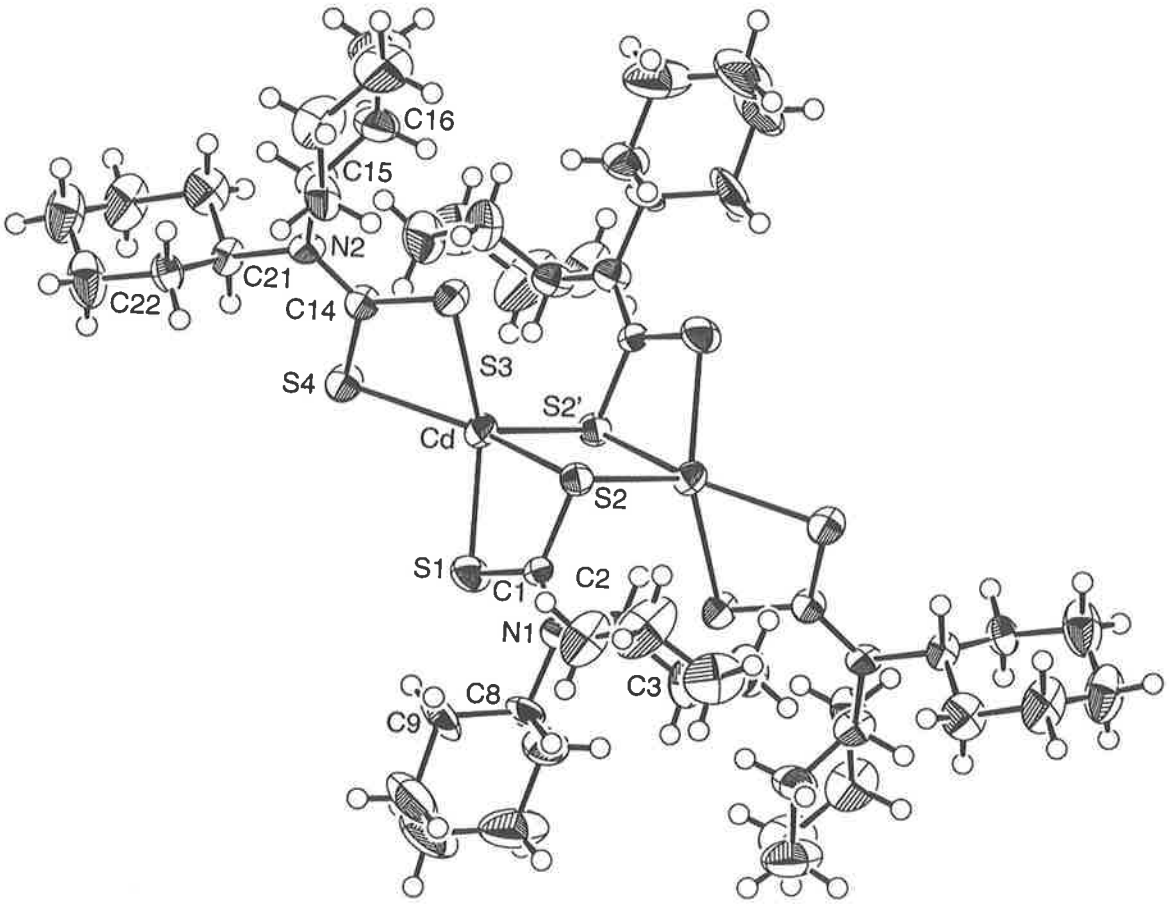


Fig. 6.3 Molecular structure of $[Cd(S_2CNCy_2)_2]$ showing the crystallographic numbering scheme.

to those found above, the disparity in the distances is significantly greater reflecting the stronger Cd-S bridge (2.551(3) Å) and the greater asymmetry in the chelating distances formed by the bridging dithiocarbamate ligand (ΔCd-S = 0.358(5) Å). The crystal chosen for analysis was found to contain solvent CH_2Cl_2 such that the ratio of dimer to solvent was 1:2, however, no significant interactions exist between them. In the lattice the solvent molecules reside in channels, parallel to the *c*-direction, defined by the cyclohexyl residues.

Two independent centrosymmetric molecules, labeled *a* and *b*, comprise the crystallographic asymmetric unit in the structure of [Cd(S_2CNiBu2)2], both of which are disposed about a center of inversion; the molecules are illustrated in Fig. 6.4. There are no chemically significant differences between the two molecules, however, minor conformational as well as crystallographic differences do exist. For example, the range of Cd-S distances of 2.566(4) Å to 2.780(3) Å involving the Cd(1) atom is smaller than that involving Cd(2) of 2.539(3) Å to 2.780(4) Å. The Cd(1) atom lies 0.0099(7) Å above the plane through the S(2)a, S(4)a and S(4)a^{i} atoms in the direction of the S(1) atom and similarly, the Cd(2) atom lies 0.001(1) Å above the S(1)b, S(3)b and S(4)b^{ii} trigonal plane in the direction of the S(2) atom (symmetry operation *i*: - *x*, - *y*, -1 - *z*; *ii*: -0.5 - *x*, - 0.5 - *y*, -1 - *z*). Of the structures described herein, the disparity in the distances within the rhombus is smallest in the two independent molecules of [Cd(S_2CNiBu2)2] with the disparity being least in molecule *b*, which reflects the greater strength of the Cd(1)-S(4)^{i} bridge (2.590(3) Å) *cf.* the Cd(2)-S(7) bridge (2.617(3) Å); the bridging sulfur atoms form experimentally equivalent distances when completing the chelate to their respective cadmium atom of 2.780(3) Å and 2.780(4) Å, respectively. A result of the strong bridge in molecule *a* is that the Cd···Cd separation of 3.525(2) Å is less than the equivalent separation in molecule *b* of 3.815(1) Å; neither interaction represents a significant bonding contact.

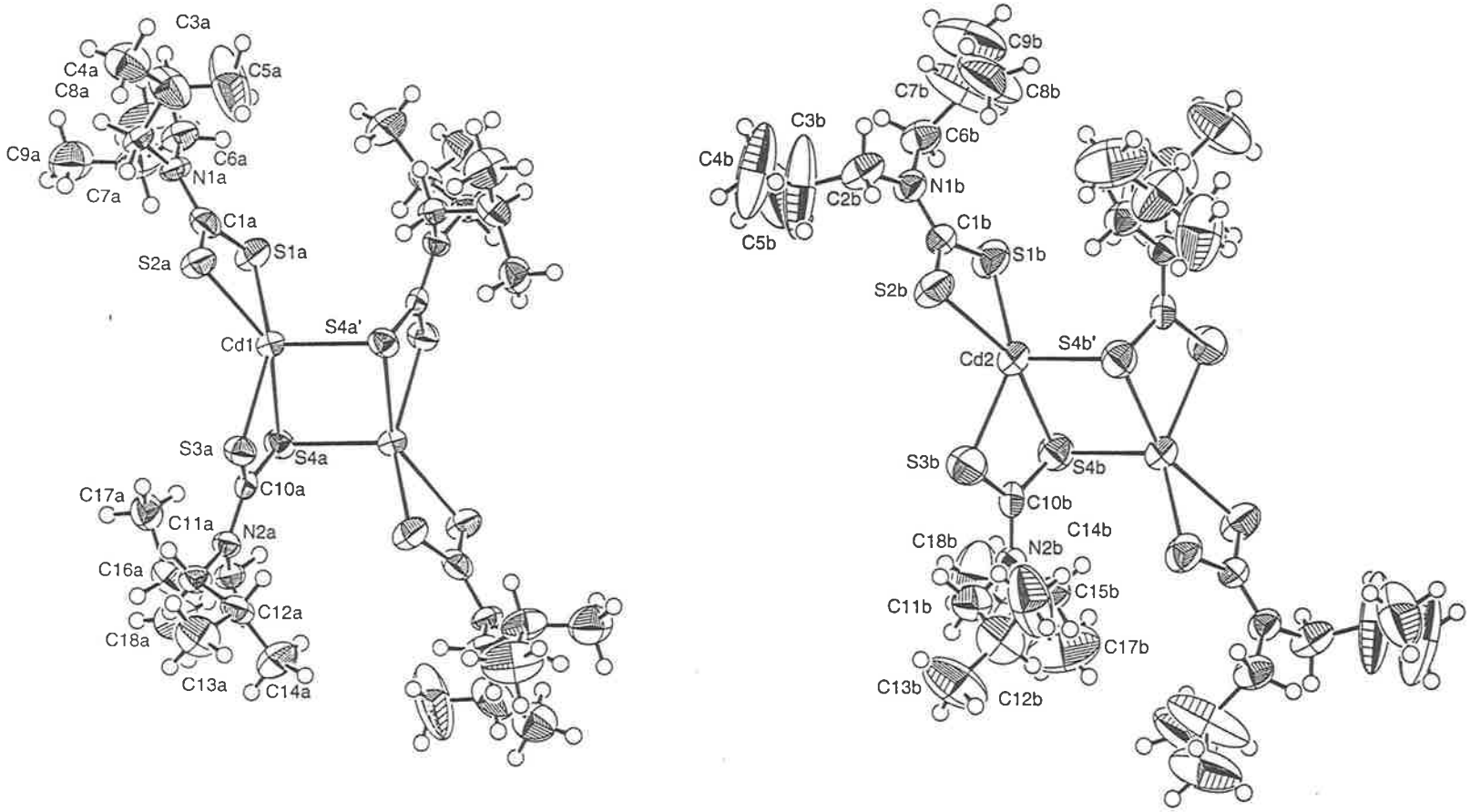


Fig. 6.4 Molecular structure of [Cd(S2CNiBu2)2] showing the crystallographic numbering scheme for the two independent dinuclear units.

6.2 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY

The structures reported here are in essential agreement with two of those reported previously for $Cd(S_2CNR_2)_2$. Thus, when R = Et (Shugam, Agre, 1968; Domenicano, Torelli, Vaciago, Zambonelli, 1968) and $R_2 = (CH_2)_6$ (Agre, Shugam, 1972a), motif A is found (Fig. 6.5). Motif A' is found when R = nBu (Casas, Sánchez, Bravo, García-Fontán, Castellano, Jones, 1989), this being the only example. The major difference between the two motifs is seen in the relative disposition of the bridging dithiocarbamate ligands. In motif A, by virtue of the centre of inversion, the two bridging ligands lie on opposite sides of the central rhombus whereas in motif A', with crystallographic 2-fold asymmetry, the bridging dithiocarbamate ligands are on the same side of the molecule. In chair/boat notation, motif A represents the chair form of $Cd(S_2CNR_2)_2$ and motif A' represents the boat form.

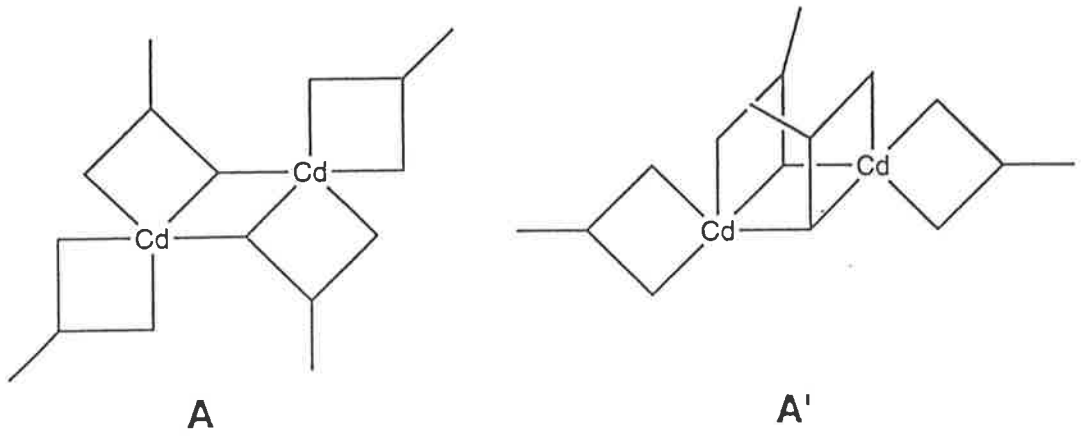


Fig. 6.5 Structural motifs for $Cd(S_2CNR_2)_2$: (A) R = Et, iPr, Cy, iBu and R_2 = (Et, Cy), $(CH_2)_6$; (A') R = Me

It is interesting to compare the three $Cd(S_2CNR_2)_2$ structures where R = Et, Cy and R_2 = (Et, Cy) with the respective zinc analogues (chapter 5). As described above, in the cadmium series all three structures adopt the same motif. A similar motif is found in the zinc structures with R = Et (Bonamico, Mazzone, Vaciago, Zambonelli, 1965;

Zvonkova, Khvatkina, Ivanova, 1968) and with R_2 = (Et, Cy) (chapter 5). The difference between these structures and those of the cadmium structures is found in the intramolecular bond formed by the bridging dithiocarbamate ligand which is not thought to represent a significant bonding interaction in $Zn(S_2CNR_2)_2$ and hence, the zinc atoms are considered four-coordinate, distorted tetrahedral. This difference between the structures is entirely consistent with the propensity of the larger cadmium atom to increase its coordination number. It is noteworthy that for $Zn(S_2CNCy_2)_2$ a new monomeric motif is formed. It was argued that the increasing bulk of the dithiocarbamate ligand, *i.e.* as ethyl groups were replaced by cyclohexyl groups, precluded association in the solid state. No such change in motif is evident in the cadmium series. It is likely that as the Cd-S distances are longer in the latter series of compounds, the increased bulk of the N-bound substituents may be accommodated more readily in the dinuclear structures Consistent with this argument is the fact that most of the $Cd(S_2CNR_2)_2$ compounds adopt the same motif for a wide range of R substituents. Although new $Cd(S_2COR)_2$ structures are not reported herein, for completeness a brief description of their structural motifs is given.

6.3 XANTHATE STRUCTURES

The molecular structures of $[Cd(S_2COiBu)_2]$ and $[Cd(S_2CO\text{-}3,3\text{-}Me_2Bu)_2]$ were determined, however, the refinements were not optimal and hence, full details are not reported. The structures were found to be similar to those reported previously for R = Et (Iimura, Ito, Hagihara, 1972) and R = nBu (Rietveld, Maslen, 1965). As shown for motif B in Fig. 6.6, the $Cd(S_2COR)_2$ structures are based on 2-dimensional sheets comprised of interconnected 16-membered $[Cd\text{-}S\text{-}C\text{-}S]_4$ rings as a result of all xanthate ligands being bridging. The coordination geometry about the cadmium atom in each structure is distorted tetrahedral. The other motif found for the $Cd(S_2COR)_2$ compounds is represented as motif C in Fig. 6.6 and is found for R = CH_2CH_2OMe (Abrahams, Hoskins, Winter, Tiekink, 1988). The structure is essentially monomeric and features a

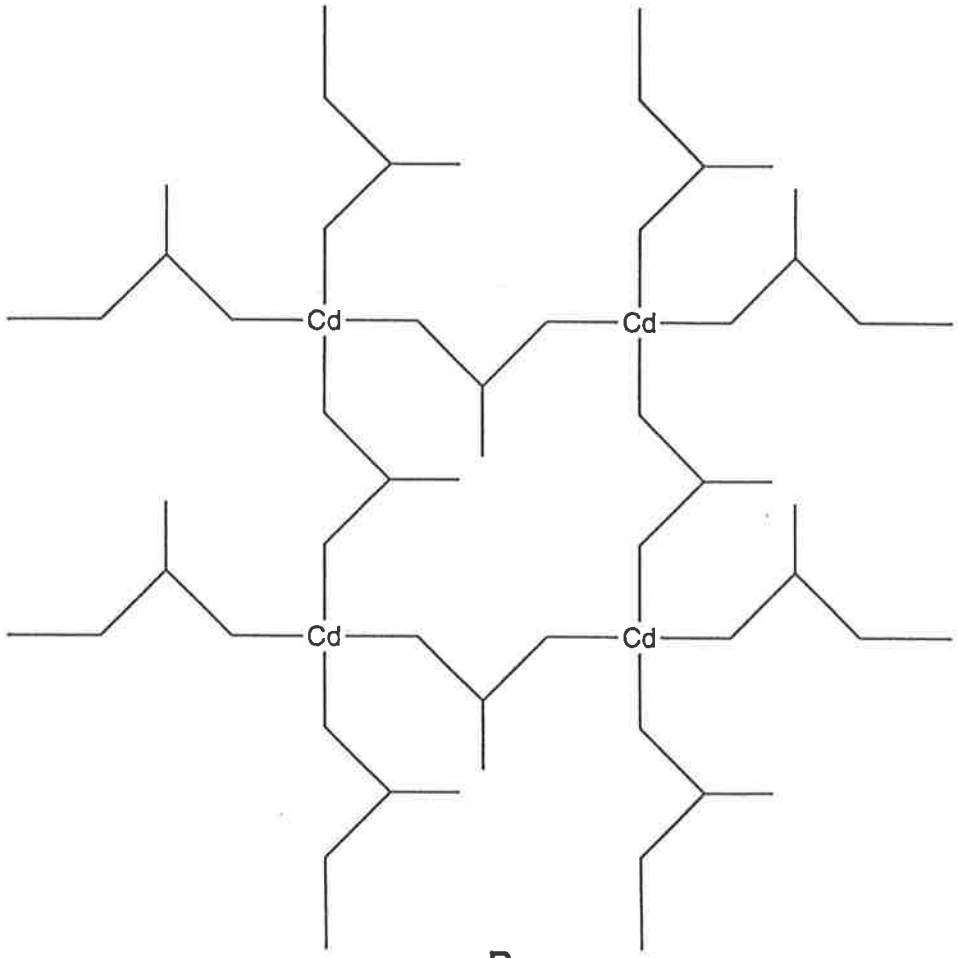


Fig. 6.6 Structural motifs for $Cd(S_2COR)_2$: (B) R = Et and iBu; (C) R = CH_2CH_2OMe.

distorted square planar geometry about the cadmium centre.

6.4 CONCLUSIONS

In the context of the structural diversity of the $M(S_2CNR_2)_2$ and $M(S_2COR)_2$ compounds where M = Zn, Cd and Hg (chapter 1) the small number of motifs found for the cadmium structures is remarkable. There are two very closely related motifs for $Cd(S_2CNR_2)_2$ and the xanthates generally adopt one motif only. This observation lends weight to the suggestion that there is no inherent electronic/steric reason to account for the structural diversity in these systems and that an analysis of crystal structure is often essential to rationalise molecular structure.

Chapter 7

MERCURY(II) BIS 1,1-DITHIOLATES

This chapter details the crystal and molecular structures of four new $Hg(S_2COR')_2$ and five new $Hg(S_2CNR_2)_2$ complexes. The structures are compared to literature analogues and an attempt is undertaken to explain their observed structural diversity.

7.1 XANTHATE STRUCTURES

The molecular structure of $[Hg(S_2COnBu)_2]$ showing the immediate geometry about the mercury atom is given in Fig. 7.1. Selected interatomic parameters are listed in Table 7.1. As with some of the other structures described in this chapter, the crystallographic analysis is not optimal owing to the difficulty in obtaining crystals. It is important to emphasise however, that the crystal and molecular structures have been determined unambiguously even if the standard deviations associated with some of the derived interatomic parameters are relatively high.

In $[Hg(S_2COnBu)_2]$ the mercury atom is situated on a crystallographic 2-fold axis and thus, the asymmetric unit comprises half a mercury atom and one xanthate ligand. The immediate environment about the mercury atom is defined by four sulfur atoms derived from four bridging xanthate ligands. The coordination geometry is distorted tetrahedral with the independent Hg-S distances being 2.413(5) Å and 2.842(5) Å. The range of S-Hg-S angles is 81.8(2)° to 150.8(3)° with the wider angle involving the more tightly bound S(1) atoms. Thus, to a first approximation the coordination geometry may be described as approximately linear. The weaker Hg-S(2) bonds are well within the sum of the van der Waals radii for these atoms of 3.3 Å (Bondi, 1964) and must be considered to represent significant bonding interactions. As can be seen from Fig. 7.1 the orientation of the xanthate ligand is such as to place the O(1) atom in close proximity to the mercury atom. The Hg···O(1) separation of 2.99(1) Å is approximately equal to

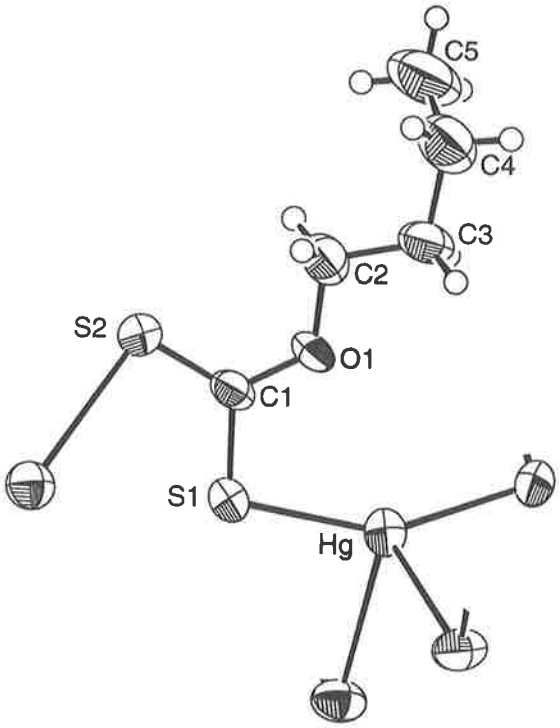


Fig. 7.1 Molecular structure of [Hg(S2COnBu)2] showing the mercury atom geometry and crystallographic numbering scheme.

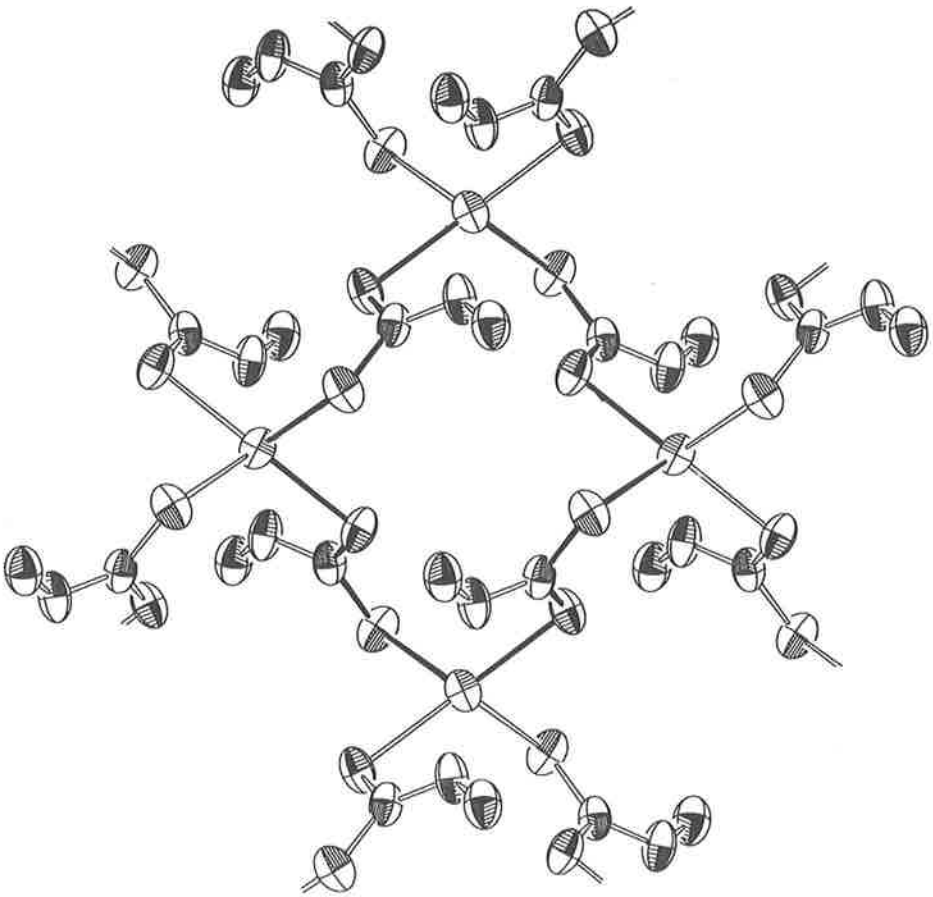


Fig. 7.2 The tetrameric unit in [Hg(S2COnBu)2]. For reasons of clarity only the α-carbon atom of the n-butyl group are shown.

Table 7.1 Selected interatomic parameters (Å, deg.) for $Hg(S_2COR)_2$, R = nBu, 3-MeBu, 3,3-Me_2Bu, and nPent

Parameter	R = nBu[a]	R = 3-MeBu[b]	R = 3,3-Me_2Bu[c]	R = nPent[d]
	y = 1'	y = 7	y = 8	y = 7
Hg—S(1)	2.413(5)	2.498(7)	2.505(3)	2.524(3)
Hg—S(2)	2.842(5)	2.507(7)	2.527(3)	2.534(3)
Hg—S(3)	2.413(5)	2.568(9)	2.531(3)	2.556(2)
Hg—S(4)	2.842(5)	2.546(6)	2.586(3)	2.572(3)
S(1)—C(1)	1.69(2)	1.70(2)	1.67(1)	1.69(1)
S(2)—C(1)	1.69(2)	1.69(2)	1.69(1)	1.68(1)
S(3)—C(y)	1.69(2)	1.66(2)	1.68(1)	1.71(1)
S(4)—C(y)	1.69(2)	1.72(3)	1.678(9)	1.69(1)
C(1)—O(1)	1.32(2)	1.35(3)	1.33(1)	1.34(1)
C(y)—O(2)	1.32(2)	1.30(3)	1.34(1)	1.31(1)

Table 7.1 Cont.

S(1)—Hg—S(2)	90.8(2)	116.6(3)	120.0(1)	116.62(9)
S(1)—Hg—S(3)	150.8(3)	115.5(3)	104.02(9)	120.51(9)
S(1)—Hg—S(4)	111.5(2)	98.5(3)	111.6(1)	99.1(1)
S(2)—Hg—S(3)	111.5(2)	99.4(3)	115.28(9)	97.24(8)
S(2)—Hg—S(4)	81.8(2)	121.1(3)	99.9(1)	117.5(1)
S(3)—Hg—S(4)	90.8(2)	106.2(3)	105.24(9)	106.68(8)
Hg—S(1)—C(1)	101.9(6)	107(1)	108.3(4)	103.3(4)
Hg—S(2)—C(1)	99.6(6)	104.3(7)	106.0(3)	107.1(4)
Hg—S(3)—C(y)	101.9(6)	105(1)	103.3(3)	99.2(4)
Hg—S(4)—C(y)	99.6(6)	100.5(9)	103.8(4)	103.8(4)
C(1)—O(1)—C	120(1)	117(2)	120.3(8)	120.0(8)
C(y)—O(2)—C	120(1)	121(2)	118.4(8)	120.0(9)
S(1)—C(1)—S(2)	121(1)	122(1)	124.0(6)	123.8(6)
S(1)—C(1)—O(1)	115(1)	116(1)	116.3(8)	119.7(8)
S(2)—C(1)—O(1)	122(1)	120(1)	119.7(7)	116.5(7)
S(3)—C(y)—S(4)	121(1)	122(1)	124.0(6)	124.3(6)

Table 7.1 Cont.

S(3)—C(y)—O(2)	115(1)	123(2)	114.8(7)	114.6(7)
S(4)—C(y)—O(2)	122(1)	114(1)	121.0(8)	121.0(8)

a S(2) ≡ S(2)^{i}, S(3) ≡ S(1)^{ii}, S(4) ≡ S(2)iii, symmetry operation *i* = 0.5 - *x*, 0.5 - y, 0.5 + *z*, ii = - *x*, *y*, 0.5 - z, *iii* -0.5 + *x*, 0.5 - *y*, - *z*

b S(2) ≡ S(2)^{i}, S(4) ≡ S(4)^{ii}, *i*: *x*, 1 + *y*, *z*, *ii*: *x*, - *y*, 0.5 + *z*

c S(2) ≡ S(2)^{i}, S(4) ≡ S(4)^{ii}, *i*: *x*, 1 + *y*, *z*, *ii*: *x*, 0.5 - *y*, 0.5 + *z*

d S(2) ≡ S(2)^{i}, S(4) ≡ S(4)^{ii}, *i*: *x*, -1 + *y*, *z*, *ii*: *x*, - *y*, 0.5 + *z*

the sum of the van der Waals radii of these atoms of 3.0 Å (Bondi, 1964) and while this may be responsible for some distortion in the mercury atom geometry it is not considered to represent significant bonding interactions. The structure may be thought of as being comprised of tetrameric 16-membered rings as illustrated in Fig. 7.2. Thus, each edge of a square of mercury atoms is bridged by a bidentate bridging xanthate ligand giving rise to a [-Hg-S-C-S-]$_4$ tetramer. The tetrameric units are linked to adjacent units in the same plane via the remaining bridging xanthate ligands leading to a 2-dimensional layer structure. As shown in Fig. 7.3 the layers are separated by hydrophobic interactions along the crystallographic *b*-axis. The structures of three other Hg(S_2COR)$_2$ compounds reported herein also conform to this motif; Table 7.1 gives selected interatomic parameters for these structures.

The coordination geometry in [Hg(S_2CO-3-MeBu)$_2$] is illustrated in Fig. 7.4. This structure may be related to that of [Hg(S_2COnBu)$_2$] by the addition of a methyl group at the 4-position of the n-butyl group. The mercury atom exists in a distorted tetrahedral geometry with the Hg-S bonds in the range of 2.498(7) Å to 2.568(9) Å and the S-Hg-S angles in the range of 98.5(3)° to 121.1(3)°. It is noteworthy that the range of Hg-S distances is smaller than that found in the structure of [Hg(S_2COnBu)$_2$] described above and as a consequence the range of tetrahedral angles is also narrower. In the context of the Hg···O contacts described for [Hg(S_2COnBu)$_2$], the Hg···O(1) and O(2)···Hg^i separations are 3.29(2) Å and 3.10(2) Å, respectively; symmetry operation *i*: 0.5 + *x*, 0.5 - *y*, 0.5 + *z*. Clearly, the weaker the Hg···O interactions, as in [Hg(S_2COCH$_2$CH$_2$C(H)Me$_2$)$_2$], the less pronounced the distortion from the ideal tetrahedral geometry. The addition of a second methyl group at the 4-position of the n-butyl group in [Hg(S_2COnBu)$_2$] does not result in a change in structural motif.

The coordination geometry about the mercury atom in [Hg(S_2CO-3,3-Me$_2$Bu)$_2$] is shown in Fig. 7.5. The range of Hg-S distances in this structure is 2.505(3) Å to 2.586(3) Å and the range of tetrahedral angles is 99.9(1)°

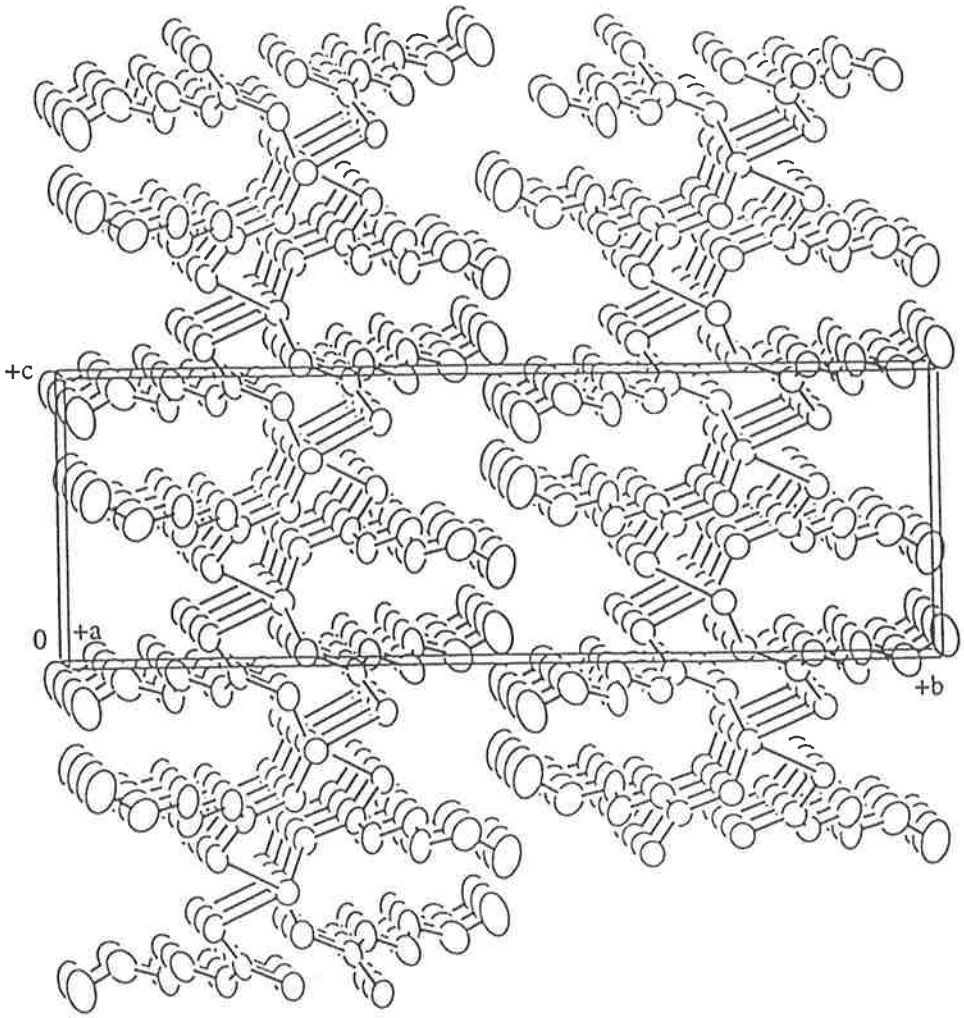


Fig. 7.3 The unit cell contents for $[Hg(S_2COnBu)_2]$.

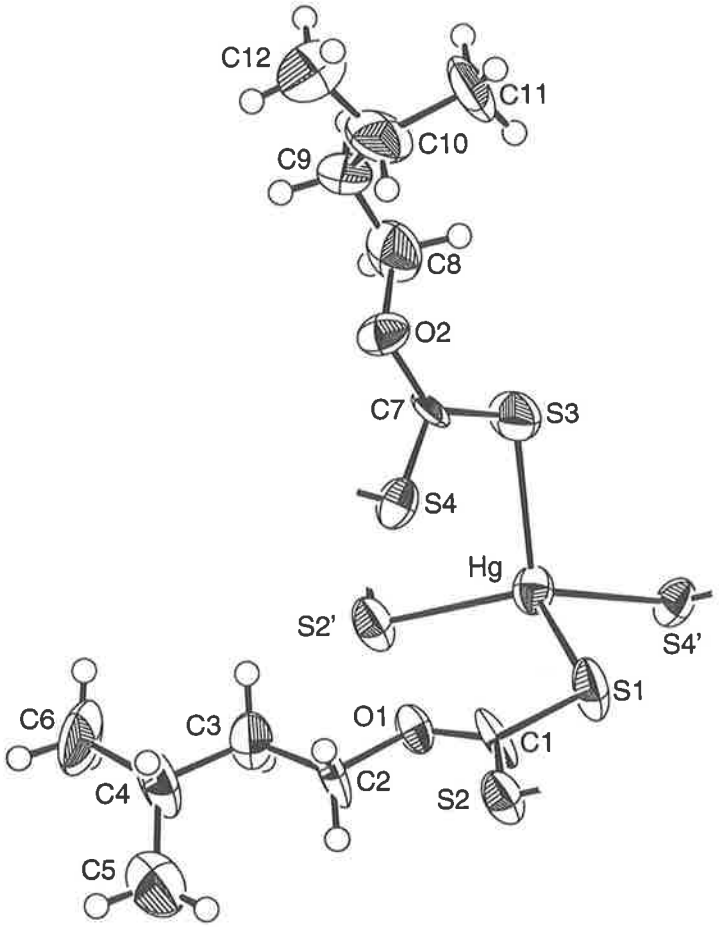


Fig. 7.4 Molecular structure of [Hg(S_2CO-3-MeBu)$_2$] showing the mercury atom geometry and crystallographic numbering scheme.

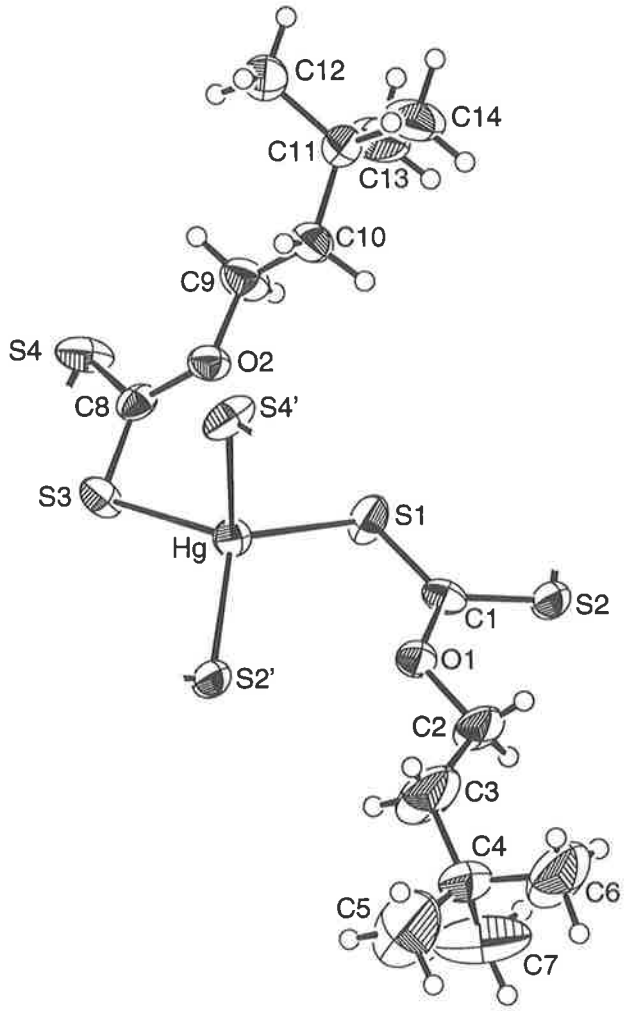


Fig. 7.5 Molecular structure of [Hg(S_2CO-3,3-Me_2Bu)$_2$] showing the mercury atom geometry and crystallographic numbering scheme.

to 120.0(1)°; the Hg···O(1) and Hg···O(2) separations are 3.277(7) Å and 3.116(7) Å, respectively. The immediate geometry about the mercury atom in the structure of the n-pentyl derivative, [Hg(S_2COnPent)$_2$], is shown in Fig. 7.6. This structure is isomorphous with that of [Hg(S_2CO-3-MeBu)$_2$]. As described above, a distorted tetrahedral geometry is found with Hg-S in the range 2.524(3) Å to 2.572(3) Å and S-Hg-S in the range 97.24(8)° to 120.51(9)°; Hg···O(1)^{i} and Hg···O(2) are 3.278(7) Å and 3.088(7) Å, respectively (symmetry operation *i*: *x*, -1 + *y*, *z*).

7.2 DITHIOBARBAMATE STRUCTURES

The molecular structure of [Hg(S_2CNMe$_2$)$_2$] is shown in Fig. 7.7. The mercury atom is situated about a crystallographic centre of inversion in the monoclinic space group C2/c and is coordinated by two dimethyldithiocarbamate ligands. The dithiocarbamate ligands each form disparate Hg-S interactions of 2.374(3) Å and 2.988(3) Å, respectively, indicating an asymmetric coordination mode of the dithiolate ligands. To a first approximation it could be argued that the mercury atom exists in a linear geometry (crystallographically imposed) defined by the two S(1) atoms. The Hg-S(2) separation of 2.988(3) Å is, however, well within the sum of the van der Waals radii of mercury and sulfur of 3.3 Å (Bondi, 1964) and must be considered a bonding interaction; the equivalence of the associated C-S bonds supports this interpretation. Thus, the mercury atom exists in a planar S_4 geometry based on a diamond shape. In addition to the immediate geometry about the mercury atom there are intermolecular Hg···S(1)' contacts of 3.404(5) Å (symmetry operation: -*x*, *y*, -0.5-*z*). These contacts, which occur parallel to the *c*-axis, are too long to be considered significant bonding interactions; see Fig. 7.8. The remaining parameters associated with the ligand are as expected. Similar to [Hg(S_2CNMe$_2$)$_2$] the following two complexes are monomeric but instead of a square planar arrangement around the mercury atom a tetrahedral coordination geometry is adopted.

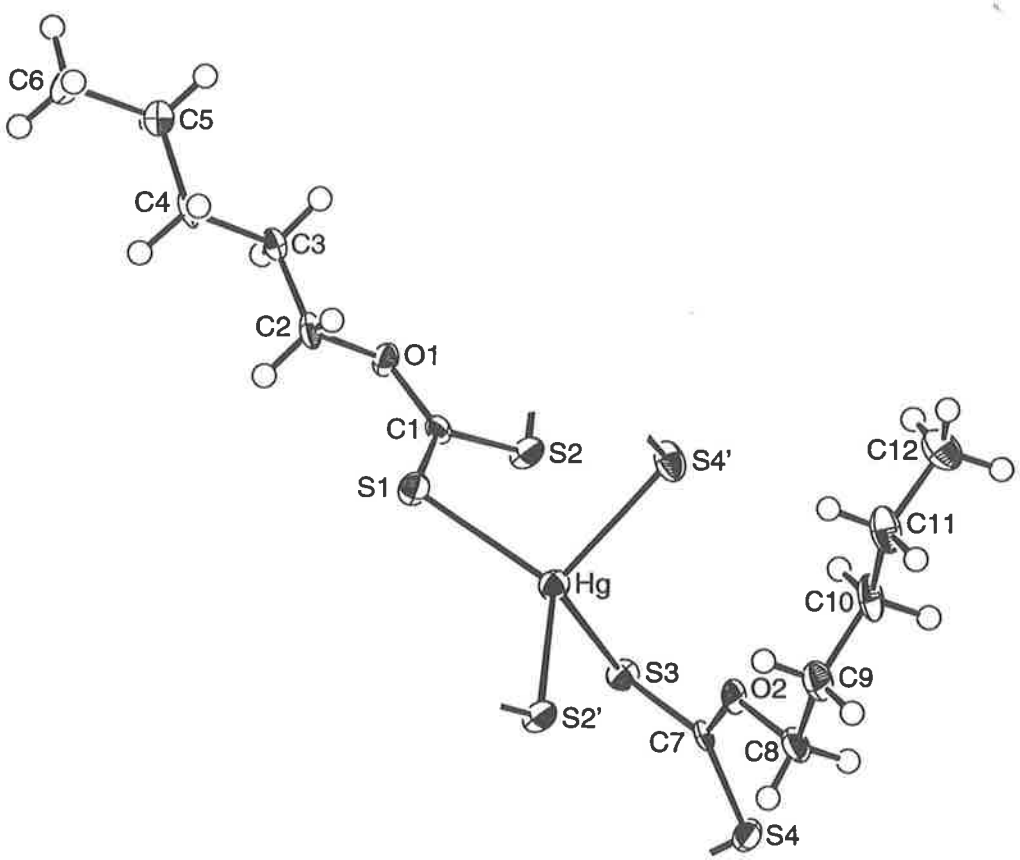


Fig. 7.6 Molecular structure of [Hg(S_2COnPent)2] showing the mercury atom geometry and crystallographic numbering scheme.

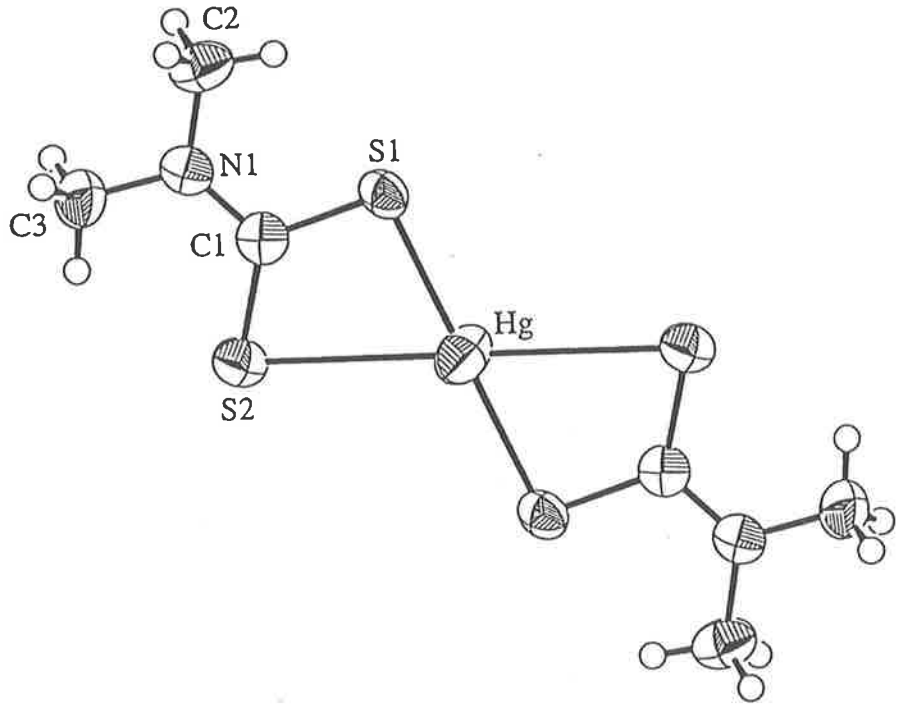


Fig. 7.7 Molecular structure of $[Hg(S_2CNMe_2)_2]$ showing the mercury atom geometry and crystallographic numbering scheme.

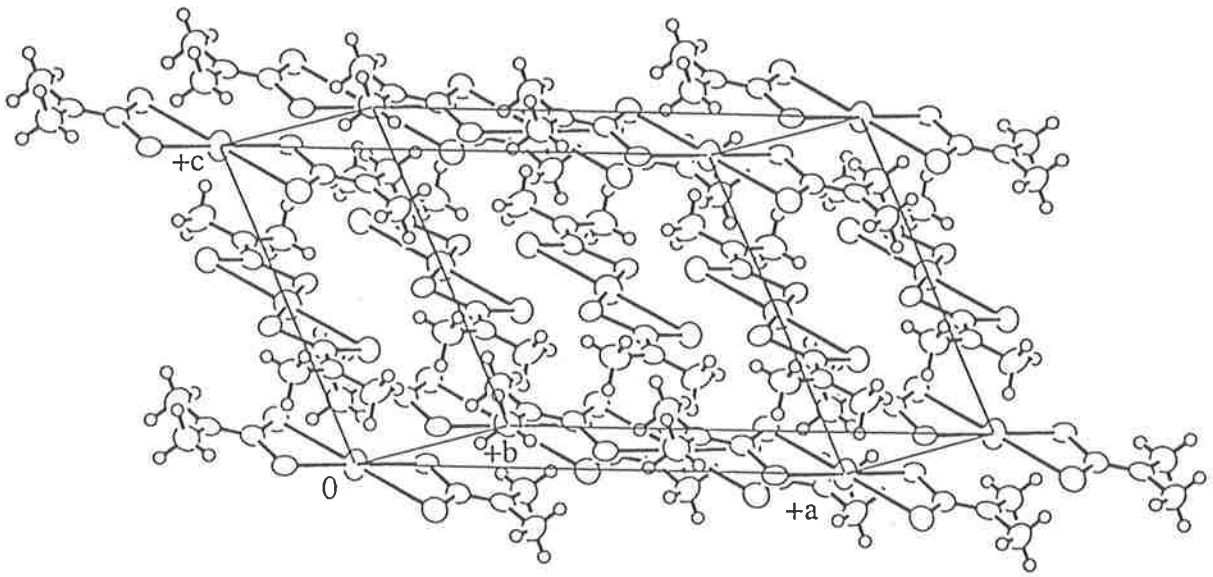


Fig. 7.8 Unit cell contents of $[Hg(S_2CNMe_2)_2]$.

The molecular structure of [Hg(S_2CNiBu$_2$)$_2$] is shown in Fig. 7.9 and selected interatomic parameters are collected in Table 7.2. The structure is monomeric and features a four coordinate mercury centre defined by four sulfur atoms derived from two asymmetrically coordinating dithiocarbamate ligands. To a first approximation the mercury atom geometry may be considered to be linear with the two more tightly bound sulfur atoms, Hg-S(1) is 2.416(2) Å and Hg-S(3) is 2.437(2) Å, subtending an angle of 153.92(8)°. However, the two less tightly held sulfur atoms, Hg-S(2) is 2.714(2) Å and Hg-S(4) is 2.710(3) Å, are at distances well within the sum of the van der Waals radii for these atoms of 3.3 Å (Bondi, 1964). Thus, the coordination geometry is best described as distorted tetrahedral with the distortions arising, in part, owing to the restricted bite angles of the dithiocarbamate ligands; the S(1)-Hg-S(2) and S(3)-Hg-S(4) chelate angles are 70.58(7)° and 70.44(7)°, respectively. The dihedral angle between the least-squares planes through the two independent HgS_2C moieties is 97.8°. Other parameters within the molecule are as expected. In the lattice there are no intermolecular contacts involving non-hydrogen atoms less than 3.6 Å, however, as can be seen from the unit cell contents illustrated in Fig. 7.10, centrosymmetrically related molecules are aligned so as to facilitate Hg···S(2)^{i} contacts of 3.728(3) Å; symmetry operation *i*: 0.5 - *x*, 0.5 - *y*, 0.5 - *z*. These contacts are longer than the sum of the van der Waals radii for these atoms and thus, can not be considered bonding interactions. However, the mode of packing gives a clue as to why different motifs may be adopted in the solid state as the orientation of the molecules is such as to *potentially* dimerise to yield a dimeric motif (see later). The monomeric motif found for [Hg(S_2CNiBu$_2$)$_2$] is repeated in the structure of [Hg(S_2CN(iPr)Cy)$_2$].

The crystallographic numbering scheme for [Hg(S_2CN(iPr)Cy)$_2$] is shown in Fig. 7.11 and geometric parameters are listed in Table 7.2. The Hg-S bond distances involving the S(1), S(2) dithiocarbamate ligand are equal within experimental error to the equivalent values found for [Hg(S_2CNiBu$_2$)$_2$]. By contrast, the Hg-S(3) and Hg-S(4) distances are longer (2.464(2) Å *cf.* 2.437(2) Å) and shorter (2.669(2) Å *cf.* 2.710(3)

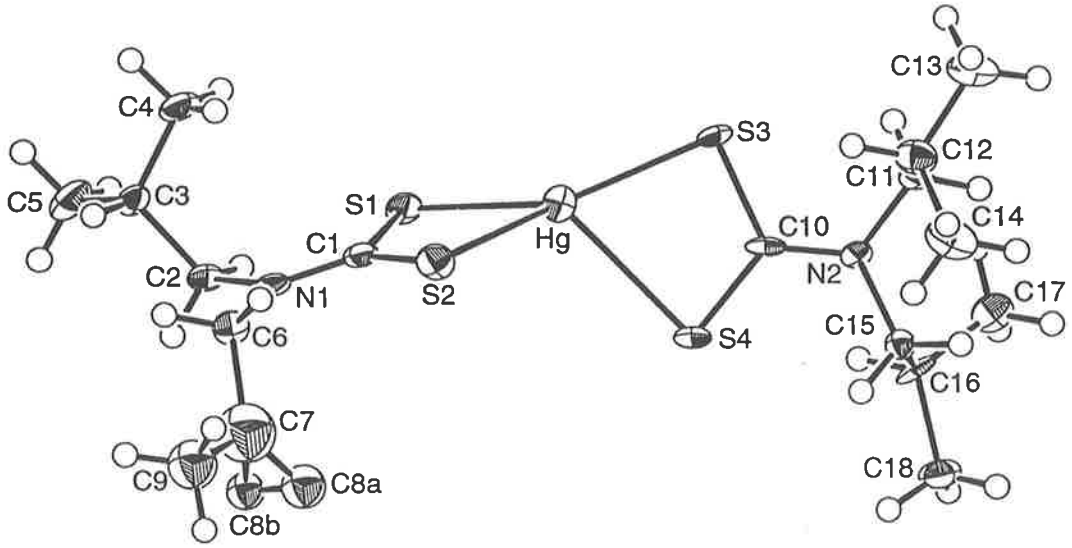


Fig. 7.9 Molecular structure of [Hg(S_2CNiBu_2)2] showing the crystallographic numbering scheme.

Table 7.2 Selected bond distances (Å) and angles (deg.) for $Hg(S_2CNR_2)_2$, R = iBu and R_2 = (iPr, Cy)

Parameter	R = iBu y = 10	R_2 = (iPr, Cy) y = 11
Hg-S(1)	2.416(2)	2.413(2)
Hg-S(2)	2.714(2)	2.724(2)
Hg-S(3)	2.437(2)	2.464(2)
Hg-S(4)	2.710(3)	2.669(2)
S(1)-C(1)	1.742(9)	1.751(7)
S(2)-C(1)	1.712(9)	1.706(7)
S(3)-C(y)	1.768(8)	1.749(7)
S(4)-C(y)	1.719(8)	1.709(7)
C(1)-N(1)	1.33(1)	1.329(8)
C(y)-N(2)	1.31(1)	1.326(8)
S(1)-Hg-S(2)	70.58(7)	69.99(6)
S(1)-Hg-S(3)	153.92(8)	159.99(6)
S(1)-Hg-S(4)	126.56(7)	129.10(6)
S(2)-Hg-S(3)	127.92(8)	112.30(6)
S(2)-Hg-S(4)	105.96(8)	110.77(6)
S(3)-Hg-S(4)	70.44(7)	69.80(6)
Hg-S(1)-C(1)	89.4(3)	90.7(2)
Hg-S(2)-C(1)	80.6(3)	81.7(2)
Hg-S(3)-C(y)	90.0(3)	89.0(2)
Hg-S(4)-C(y)	82.4(3)	83.3(2)
S(1)-C(1)-S(2)	118.9(5)	117.6(4)
S(1)-C(1)-N(1)	118.9(6)	119.5(5)
S(2)-C(1)-N(1)	122.3(6)	122.9(5)

Table 7.2 Cont.

S(3)-C(y)-S(4)	117.2(5)	116.5(4)
S(3)-C(y)-N(2)	119.1(6)	119.4(5)
S(4)-C(y)-N(2)	123.7(6)	124.1(5)

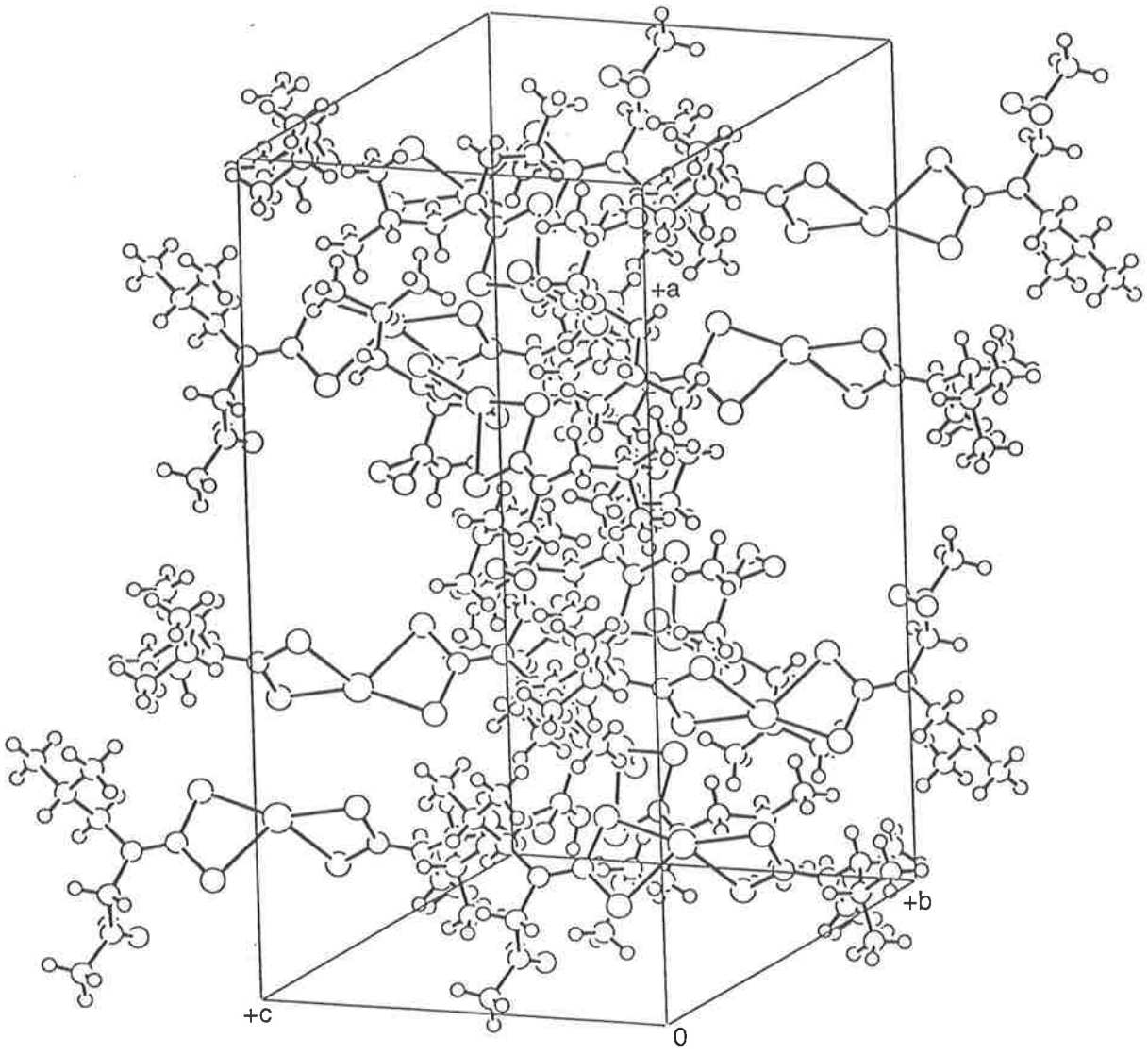


Fig. 7.10 Unit cell contents for [Hg(S_2CNiBu_2)2].

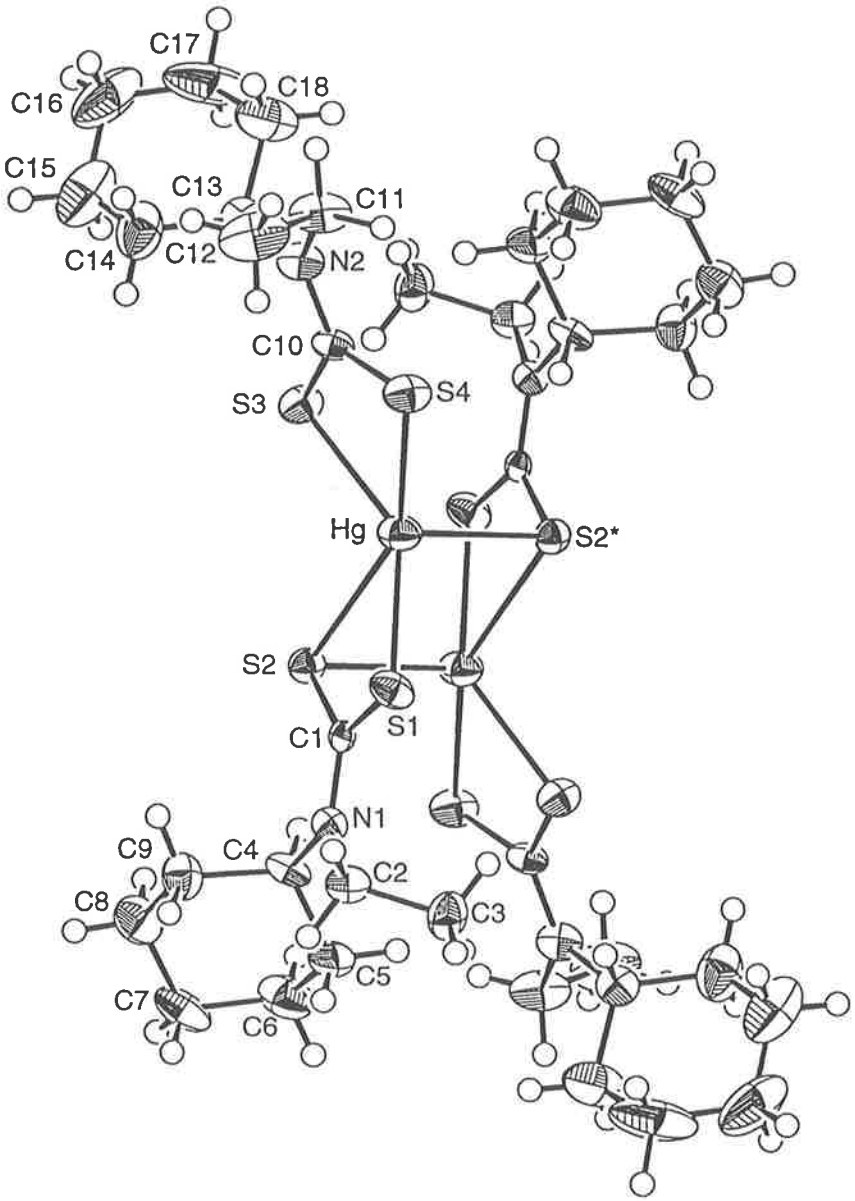


Fig. 7.11 Molecular structure of $[Hg(S_2CN(iPr)Cy)_2]$ showing the crystallographic numbering scheme.

Å), respectively. The difference in asymmetry also influences the angles about the mercury atom so that the S(2)-Hg-S(3) angle of 112.30(6)° is approximately 15° more acute compared with that found in [Hg(S_2CNiBu_2)$_2$]. The dihedral angle between the least-squares planes through each of the HgS_2C moieties was calculated to be 84.0°. In the lattice there is an intermolecular interaction between the S(1) and symmetry related C(11)^i atom of 3.484(7) Å; symmetry operation *i*: - *x*, - *y*, - *z*. As can be seen from the unit cell contents illustrated in Fig. 7.12, the lattice comprises *ac*-layers of [Hg(S_2CN(iPr)Cy)$_2$] molecules separated by hydrophobic interactions. Rows of molecules run parallel to the *c*-axis and are linked to adjacent rows (in the *a*-direction) via the contact mentioned above as well as Hg···S(4)^i and Hg···S(3)^i contacts of 3.753(2) Å and 3.927(2) Å. It is likely that the steric pressure exerted by the intermolecular interactions is responsible for the changes in the molecule mentioned above. Further, the nature of the Hg···S interactions implies a potential for significant association via Hg···S contacts. Whereas the structures of [Hg(S_2CNiBu_2)$_2$] and [Hg(S_2CN(iPr)Cy)$_2$] are essentially monomeric in the solid state, those of [Hg(S_2CN(Et)Cy)$_2$] and [Hg(S_2CNnBu_2)$_2$] are dinuclear.

The molecular structure of [Hg(S_2CN(Et)Cy)$_2$] is shown in Fig. 7.13 and selected interatomic parameters are listed in Table 7.3. The structure is dimeric, being centered about a crystallographic center of inversion. The mercury atom is coordinated by two chelating dithiocarbamate ligands, one of which forms relatively symmetric Hg-S bond distances, *i.e.* Hg-S(3) 2.508(2) Å and Hg-S(4) 2.707(2) Å, and the other which forms grossly disymmetric bonds, *i.e.* Hg-S(1) 2.452(3) Å and Hg-S(2) 3.047(2) Å. The second mentioned dithiocarbamate ligand also bridges the symmetry related Hg^i atom, via the S(2) atom, forming a bond distance of 2.640(3) Å; symmetry operation *i*: - *x*, - *y*, 1 - *z*. The mercury atom is best described as existing in a distorted trigonal bipyramidal geometry with the trigonal plane being defined by the S(1), S(2)^i and S(3) atoms and the axial positions by the less tightly bound S(2) and S(4) atoms. The mercury atom lies 0.3656(4) Å out of the plane in the direction of the S(4) atom which forms the

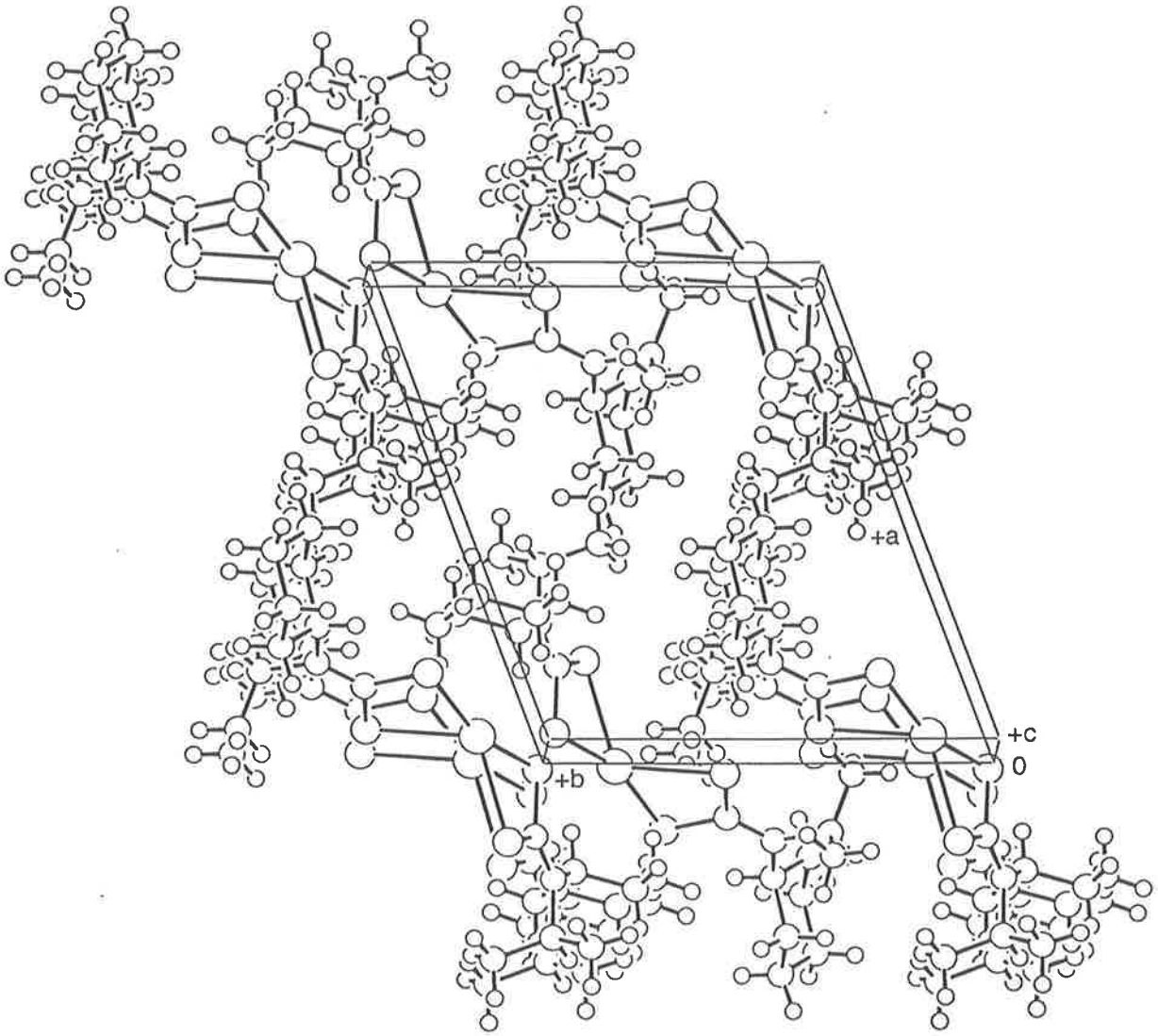


Fig. 7.12 Unit cell contents for $[Hg(S_2CN(iPr)Cy)_2]$.

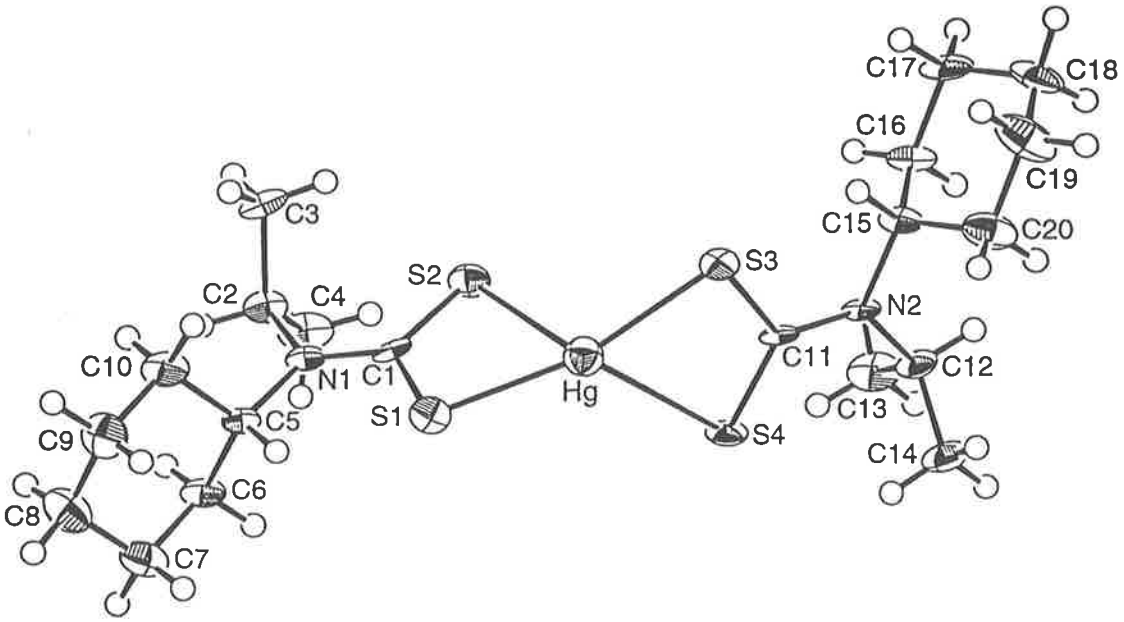


Fig. 7.13 Molecular structure of [Hg(S_2CN(Et)Cy)2] showing the crystallographic numbering scheme.

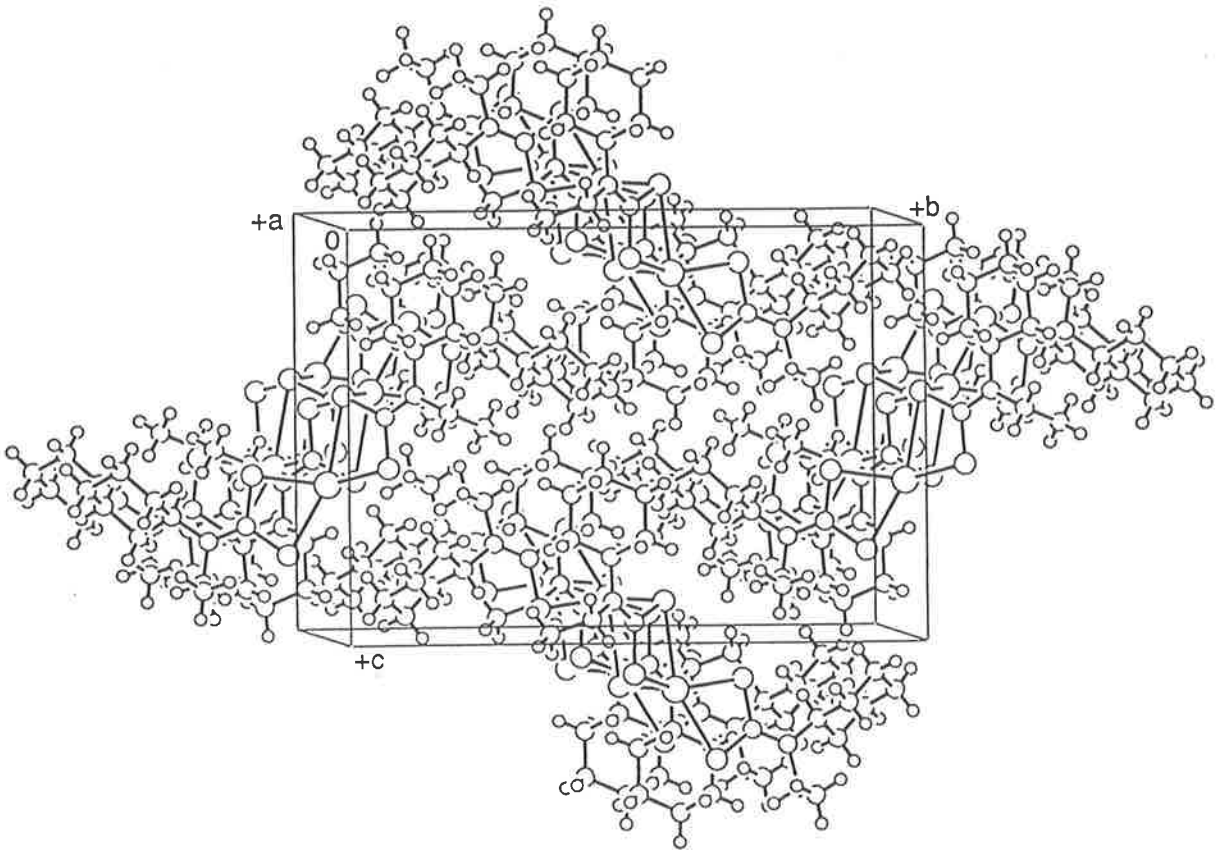


Fig. 7.14 Unit cell contents for [Hg(S_2CN(Et)Cy)2].

Table 7.3 Selected bond distances (Å) and angles (deg.) for $Hg(S_2CNR_2)_2$, R_2 = (Et, Cy) and R = nBu

Parameter	R_2 = (Et, Cy)	R = nBu
	y = 10	y = 11
Hg-S(1)	2.452(3)	2.457(4)
Hg-S(2)	3.047(2)	3.160(4)
Hg-S(2)'	2.640(3)[a]	2.601(4)[b]
Hg-S(3)	2.508(2)	2.543(4)
Hg-S(4)	2.707(2)	2.632(5)
S(1)-C(1)	1.747(8)	1.72(2)
S(2)-C(1)	1.724(8)	1.74(2)
S(3)-C(y)	1.737(8)	1.70(2)
S(4)-C(y)	1.708(9)	1.72(2)
C(1)-N(1)	1.31(1)	1.32(2)
C(y)-N(2)	1.34(1)	1.35(2)
S(1)-Hg-S(2)	64.99(7)	63.2(1)
S(1)-Hg-S(2)'	101.51(9)	109.7(1)
S(1)-Hg-S(3)	142.32(8)	127.7(1)
S(1)-Hg-S(4)	120.83(7)	121.3(2)
S(2)-Hg-S(2)'	91.44(6)	94.3(1)
S(2)-Hg-S(3)	92.33(7)	89.2(1)
S(2)-Hg-S(4)	155.70(7)	156.4(1)
S(2)'-Hg-S(3)	109.11(8)	116.2(1)
S(2)'-Hg-S(4)	109.04(7)	104.4(1)
S(3)-Hg-S(4)	69.06(7)	69.8(1)
Hg-S(2)-Hg'	88.56(6)	84.9(1)
Hg-S(1)-C(1)	97.0(3)	99.9(5)

Table 7.3 Cont.

Hg-S(2)-C(1)	78.2(3)	76.4(6)
Hg-S(2)'-C(1)'	98.1(2)	99.1(5)
Hg-S(3)-C(y)	89.1(3)	86.7(6)
Hg-S(4)-C(y)	83.3(3)	83.5(6)
S(1)-C(1)-S(2)	119.4(4)	120.4(9)
S(1)-C(1)-N(1)	118.0(6)	118(1)
S(2)-C(1)-N(1)	122.6(6)	120(1)
S(3)-C(y)-S(4)	118.5(5)	120(1)
S(3)-C(y)-N(2)	119.5(7)	121(1)
S(4)-C(y)-N(2)	121.9(6)	118(1)

a symmetry operation: - *x*, - *y*, 1 - *z*

b symmetry operation: - *x*, *y*, 0.5 - *z*

stronger of the Hg-S_{axial} bonds. An alternate description of the coordination geometry would be one based on a square pyramid where the S(1), S(2), S(3) and S(4) atoms define the basal plane (deviations from the least-squares plane 0.092(2) Å, -0.087(2) Å, 0.120(2) Å and -0.110(3) Å, respectively) with the mercury atom lying 0.6047(4) Å out of the plane in the direction of the axial $S(2)^i$ atom. If the weaker of the Hg-S bonds, *i.e.* Hg-S(2), is not considered a bonding interaction, the coordination geometry could be described as distorted tetrahedral in a way similar to that described for two of the above monomeric structures. In the low coordinate description the range of tetrahedral angles would be 69.06(7)° (the chelate angle) to 142.32(8)° (the angle involving the two more tightly bound sulfur atoms), again indicating a tendency for linear coordination. A view of the unit cell contents is given in Fig. 7.14 from which it can be seen that the lattice comprises columns of dimeric units aligned in the *a*-direction which are separated from each other by hydrophobic interactions. Within the columns there are no significant Hg···S interactions.

The structure of $[Hg(S_2CNnBu_2)_2]$, illustrated in Fig. 7.15, is also dimeric, however it differs from that of $[Hg(S_2CN(Et)Cy)_2]$ in the orientation of the bridging dithiocarbamate ligands. Selected interatomic parameters are listed in Table 7.3. Compared with the structure of $[Hg(S_2CN(Et)Cy)_2]$, the Hg-$S(2)^i$ and Hg-S(4) bond distances in $[Hg(S_2CNnBu_2)_2]$ contract as does the S(1)-Hg-S(3) angle; symmetry operation *i*: - *x*, *y*, 0.5 - *z*. The coordination geometry is best described as being based on a trigonal bipyramid so that the mercury atoms lies 0.3680(6)Å out of the trigonal plane defined by the S(1), $S(2)^i$ and S(3) atoms in the direction of the S(4) atom. The major difference between the structure of $[Hg(S_2CNnBu_2)_2]$ and that of $[Hg(S_2CN(Et)Cy)_2]$ rests with the relative disposition of the two bridging dithiocarbamate ligands. In $[Hg(S_2CN(Et)Cy)_2]$, by virtue of the center of inversion, the bridging dithiocarbamate ligands lie on opposite sides of the Hg_2S_2 rhombus which is constrained by symmetry to be planar. In the structure of $[Hg(S_2CNnBu_2)_2]$, the two halves of $[Hg(S_2CNnBu_2)_2]_2$ are related by a crystallographic 2-fold axis so that the

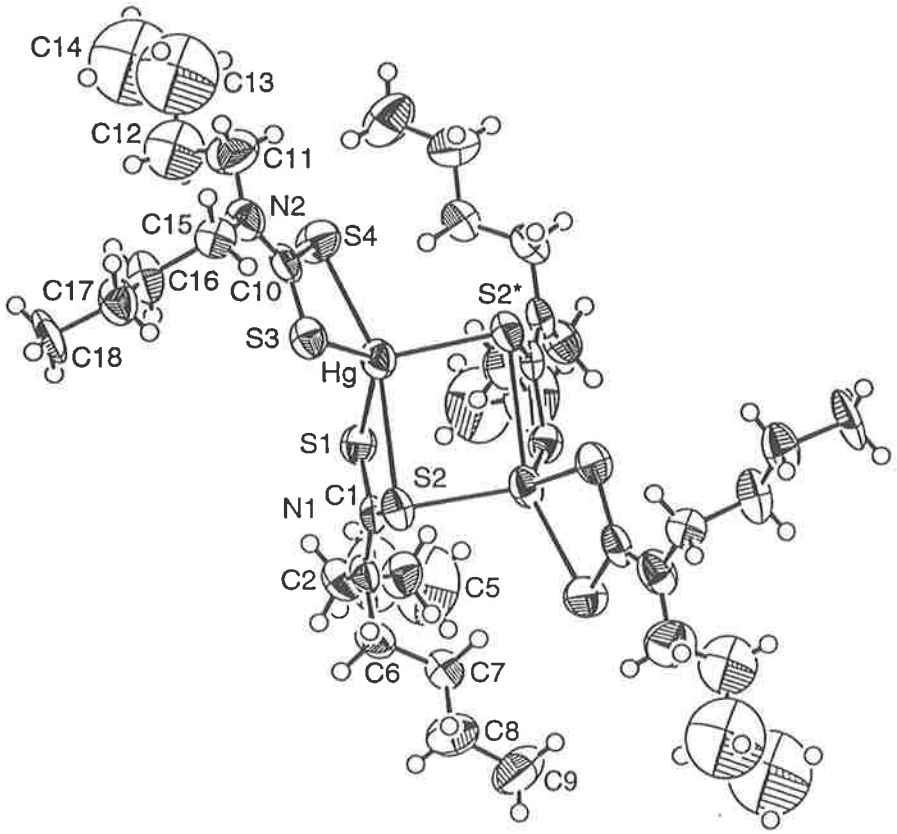


Fig. 7.15 Molecular structure of [Hg(S_2CNnBu_2)2] showing the crystallographic numbering scheme.

bridging dithiocarbamate ligands lie on the same side of the molecule. Further, the Hg_2S_2 rhombus is not planar as seen in the dihedral angle of 165.6° formed between the two HgS_2 triangles. There are no contacts involving non-hydrogen atoms in the lattice less than 3.6 Å.

7.3 SYSTEMATIC TRENDS FROM CRYSTALLOGRAPHY

In summary, the $Hg(S_2COR)_2$ structures adopt three distinct motifs in the solid state as illustrated in Fig. 7.16 These range from (A) helical polymeric chains, (B) 2-dimensional layers structures, and (C) 3-dimensional network structures. Only one example is known to adopt motif A, namely $[Hg(S_2COMe)_2]$ (Tiekink, 1987). In motif A, neighbouring mercury atoms are linked by bidentate bridging xanthate ligands leading to helical chains. The 3-coordinate geometry is completed by a monodentate xanthate ligand with the pendent sulfur atom of this ligand not participating in coordination to mercury. The geometry about the mercury atom in $[Hg(S_2COMe)_2]$ is best described as T-shaped. The bridging Hg-S distance of 2.924(3) Å is significantly longer than the other Hg-S bond distances of 2.365(3) Å and 2.383(3) Å and hence, to a first approximation, the geometry about the mercury atom may be considered linear with a S_{short}-Hg-S_{short} angle of 164.9(1)°. Motif B is the predominant motif for compounds of the general formula $Hg(S_2COR)_2$ being found for R = Et (two polymorphs, Watanabe, 1977; Chieh, Moynihan, 1980), nPr (Hounslow, Tiekink, 1991), nBu, 3-MeBu, 3,3-Me_2Bu, and nPent. It should be noted that the tendency for linear coordination by the two most strongly bound sulfur atoms as described above for $[Hg(S_2COnBu)_2]$ are also found in the R = Et and nPr structures. Finally one example is known for motif C, namely that of $[Hg(S_2COiPr)_2]$ (Watanabe, 1981). In this structure, the 16-membered rings of motif B are retained. However, changes in the mode of association of the remaining xanthate ligands are found. For two of the mercury centres, the coordination geometry is completed by chelating xanthate ligands. The other mercury atoms are linked to neighbouring 16-membered rings above and below the original 16-

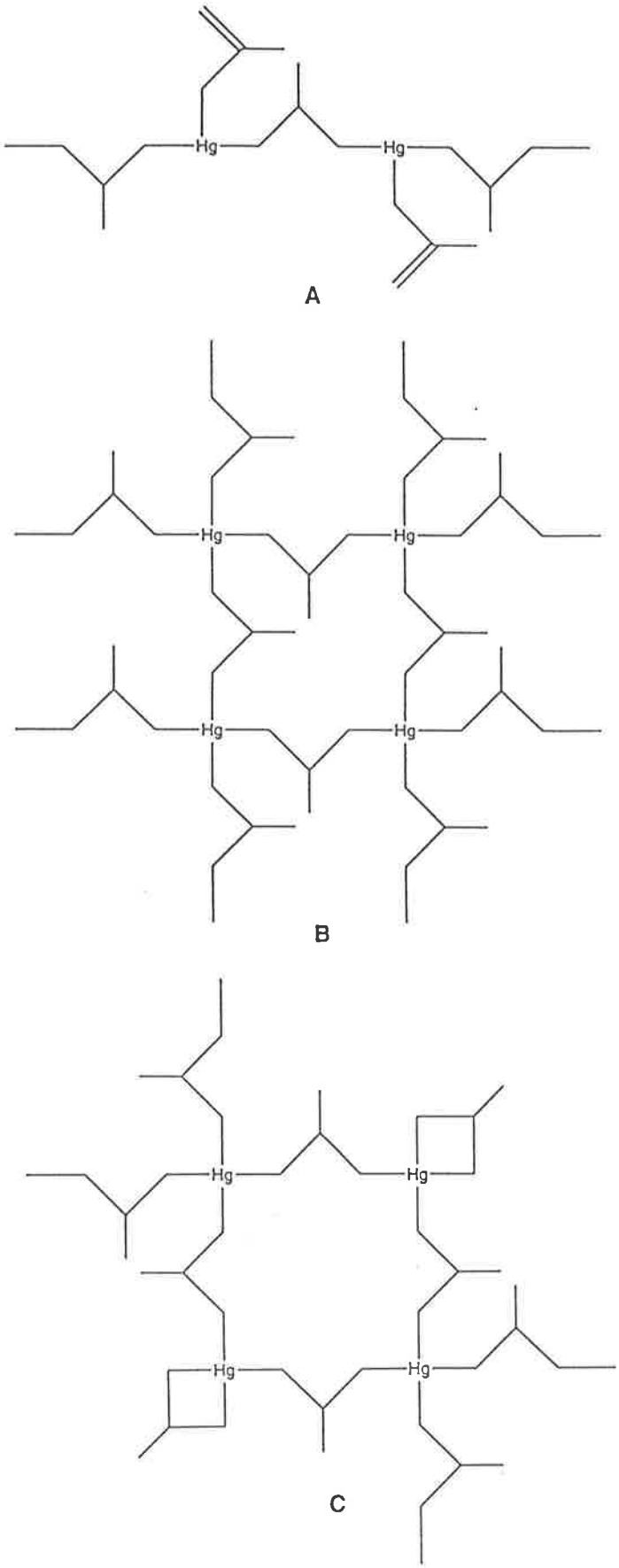


Fig. 7.16 Structural motifs for $Hg(S_2COR)_2$. (A) R = Me. (B) R = Et, nPr, nBu, $CH_2CH_2C(H)Me_2$, $CH_2CH_2CMe_3$, nPent. (C) R = iPr.

membered ring, *i.e.* not laterally leading to a layer structure as in motif B, but leading to a 3-dimensional network structure.

In previous systematic analyses of the $Ni(S_2COR)_2$ (chapter 3) and $Te(S_2COR)_2$ (chapter 4) structures it was demonstrated that no electronic property associated with the nature of R influenced the geometric parameters about the central atom. Nor was there any evidence of a steric effect operating in these systems as a consistent structural motif was found for each series. Given the above, it is clear that the possible role of crystal packing effects must be taken into consideration when rationalising the different motifs found for $Hg(S_2COR)_2$.

To a first approximation the $Hg(S_2COR)_2$ species may be considered as essentially monomeric with linear S-Hg-S arrangements. That is, the valency about the central mercury atom is essentially satisfied by the formation of two strong Hg-S bonds. The appearance of different motifs occur as a result of the different modes of association of the second sulfur atom of each xanthate ligand. In the R = Me structure, *i.e.* motif A, association in the solid state is effected by the weak Hg-S intermolecular bridge leading to the formation of helical chains. As the R substituent becomes larger, the packing arrangement of stacked rods as for R = Me no longer maximises the intermolecular forces and hence, a new arrangement is found, *i.e.* motif B. The intermolecular associations are maximised by the presence of bidentate bridging xanthate ligands leading to 2-dimensional sheets held together by hydrophobic interactions. The presence of four near-neighbour sulfur atoms, albeit at longer Hg-S separations, results in significant distortions from linear geometries. When the R group becomes too bulky as for R = iPr, with branching at the alpha carbon atom, the layer structure is disrupted into 16-membered rings that are now interconnected above and below leading to a 3-dimensional structure, *i.e.* motif C. A simple steric argument along the lines: greatest bulk is equated with minimal association, is not valid to explain the appearance of the different motifs for $Hg(S_2COR)_2$ as the reverse is true. However, a consideration of the packing requirements gives a qualitative model for the observed structural diversity.

For the $Hg(S_2CNR_2)_2$ complexes it is clear that five quite distinct motifs are found. A diagram representing the different motifs for the $Hg(S_2CNR_2)_2$ compounds is presented in Fig. 7.17. Motif A is monomeric and features a distorted tetrahedral geometry about the mercury atom as described for $Hg(S_2CNR_2)_2$, R = iBu, iPr (Ito, Iwasaki, 1979) and R_2 = (iPr, Cy). Further, although full details are not reported owing to a less than optimal refinement, the structure $[Hg(S_2CNCy_2)_2]$ has been determined in our laboratories and shown to adopt motif A; the structure is isomorphous with the zinc analogue (chapter 5). A second monomeric motif, B, is known which also features a four-coordinate geometry but this one is square planar. This has been found for R = Et (β-form, two determinations: Iwasakai, 1973; Healy, White, 1973) and R = Me. To a first approximation motif B may be considered to comprise a linear mercury atom geometry (the structures are centrosymmetric) defined by two tightly held sulfur atoms (Hg-S(1) is 2.398(4) Å and 2.374(3) Å for R = Et (β-form) and Me, respectively). These are significantly shorter than the weaker Hg-S(2) bonds of 2.965(4) Å and 2.988(3) Å, respectively. In both of the structures there are also intermolecular Hg···S interactions, above and below the HgS_4 plane, of 3.292(5) Å for R = Et and 3.404(5) Å for R = Me, distances considered too long to represent significant bonding interactions. Two dimeric motifs are also known. The first, C, is centrosymmetric and is found for R = Et (α-form, Iwasaki, 1973), for R_2 = Et, Cy and for NR_2 = 4-methyl-piperidine (Benedetti, Fabretti, Preti, 1988). The second, D, with crystallographic 2-fold symmetry, is found for R = nBu. The final motif, E, is found for the parent dithiocarbamate, *i.e.* $[Hg(S_2CNH_2)_2]$ (Chieh, Cheung, 1981). This structure exists as 2-dimensional sheets where 8-membered $[Hg\text{-}S\text{-}C\text{-}S]_2$ rings are connected to neighbouring rings via bridging dithiocarbamate ligands. From the foregoing it is clear that remarkable structural diversity exists for the $Hg(S_2CNR_2)_2$ compounds, the challenge remains to rationalise the appearance of the different motifs.

Firstly, and as mentioned for the xanthate structures above, it is important to recall the results of earlier systematic studies/analyses of the bis(dithiocarbamate) structures of nickel(II) and tellurium(II) where changes in molecular geometry and geometric

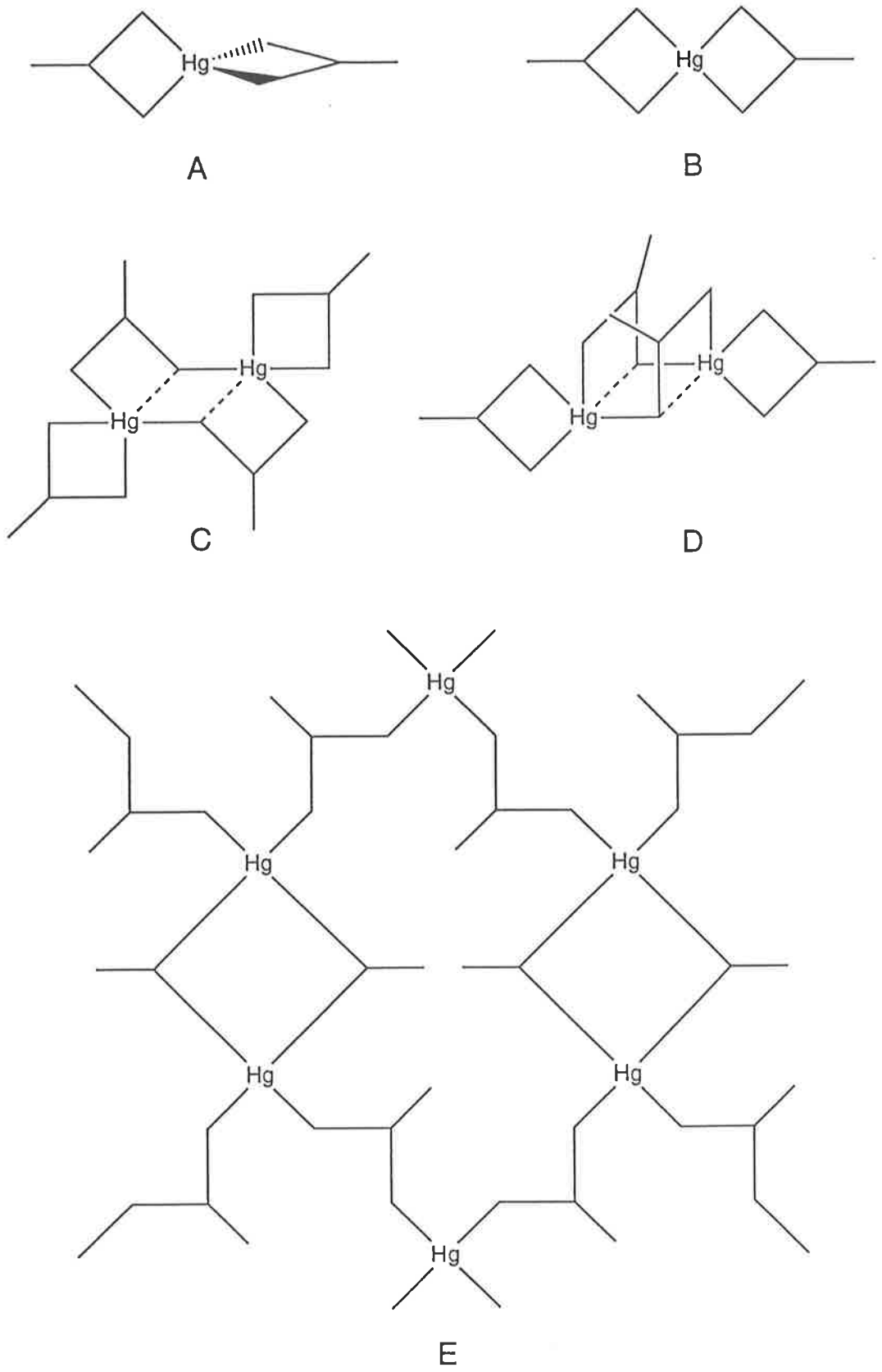


Fig. 7.17 Structural motifs for $Hg(S_2CNR_2)_2$. (A) R = iBu, iPr, R_2 = (iPr, Cy).(B) R = Et (β-form), Me. (C) R = Et (α-form), R_2 = (Et, Cy), NR_2 = 4-methyl-piperidine. (D) R = nBu. (E) R = H.

parameters about the central atoms were monitored as the nature of the R substituents were altered (chapters 3 and 4, respectively). It was found that any differences in the electronic profiles of the ligands are not manifested in systematic variations in the Ni-S or Te-S bond distances. Further, there is no change in structural motif for either of the nickel(II) or tellurium(II) series. The key result of these studies is the demonstration that little or no influence on molecular geometry or geometric parameters is found as R is varied. Given the above, the question is whether crystal packing effects play a significant role in determining molecular structure.

It is argued that given there are no obvious electronic or molecular structure-determining effects associated with the dithiocarbamate ligands, crystal packing effects *must* be taken into consideration. Evidence for this proposal is based on the experimentally determined structures for $Hg(S_2CNR_2)_2$, however, at this stage the arguments are entirely qualitative. In the crystallisation process there will be an energy associated with the molecular geometry as well as an energy of crystal packing. The ultimate structure adopted in the solid state will be the one in which a balance between the two energy considerations has been achieved. It is suggested that in the $Hg(S_2CNR_2)_2$ systems both energy contributions are significant. By contrast, for transition metal complexes it is normally assumed that the energy associated with the formation of the molecular entity (intramolecular association) far exceeds any energy contribution associated with the packing of the molecules (intermolecular association). Applying this proposal to the $Hg(S_2CNR_2)_2$ structures it is suggested that the mercury atom valencies are essentially satisfied by the formation of two primary Hg-S bonds and that the other interactions, giving rise to changes in coordination geometry, are (weak) intramolecular or intermolecular contacts.

Consider first the two structures that adopt motif B. In both examples, the two primary Hg-S bonds define a linear geometry and the additional Hg-S interactions, giving rise to a square planar geometry, are significant weaker. Indeed, the stronger Hg-S bonds in motif B are the strongest of all the Hg-S bonds found in the $Hg(S_2CNR_2)_2$

structures consistent with i) the weak secondary intramolecular associations and ii) the weak intermolecular associations; see Table 7.4. Stability in the packing of the planar molecules, with small R groups, is facilitated by weak intermolecular Hg···S interactions. As the R groups become larger, as in motif A, evidence for linear geometries is present as discussed above, however, the coordination environments are best described as distorted tetrahedral. Further, in these structures, evidence for potential intermolecular association via Hg···S interactions is also found in the respective unit cells. Reducing the size and/or branching in the R groups results in the formation of dimeric units as seen in motifs C and D. Here, the valency about the mercury atom is again satisfied by two stronger Hg-S bonds and a set of weaker Hg-S interactions. When crystallising from solution, the molecules of $Hg(S_2CNR_2)_2$ associate via intermolecular Hg-S interactions, *i.e.* maximising stability of the lattice, giving rise to dimeric units. Thus, in the absence of bulky R substituents it is possible for molecules to align in the solid state giving rise to different motifs. Finally, in the structure of $[Hg(S_2CNH_2)_2]$ where steric interactions are minimised, the valency about the mercury is attained by four *weaker* Hg-S interactions while at the same time maximising intermolecular Hg-S interactions given rise to the 2-dimensional motif, E (Chieh, Cheung, 1981). That the effects described above are subtle is seen in the fact that at least one compound, namely $[Hg(S_2CNEt_2)_2]$, crystallises in two polymorphs, adopting structural motifs B and C.

7.4 CONCLUSION

The adoption of the various structural motifs for the $Hg(S_2COR)_2$ and $Hg(S_2CNR_2)_2$ compounds has been explained, albeit qualitatively, in terms of a balance between the requirements of attaining an appropriate valency about the mercury atom on the one hand and the maximising of intermolecular forces to attain the most stable crystal structure on the other. Given that the phenomenon of structural diversity is often encountered in main group element chemistry (see *Introduction*), it is clear that a close examination of crystal structure is required in order to possibly rationalise the appearance

Table 7.4 Hg-S bond distances (Å) for $Hg(S_2CNR_2)_2$

R	Motif	Hg-S(1), S(2)	Hg-S(3), S(4)
iBu	A	2.416(2), 2.714(2)	2.437(2), 2.710(3)
iPr[a]	A	2.445(4), 2.645(4)	2.445(4), 2.645(4)
(iPr, Cy)	A	2.413(2), 2.724(2)	2.464(2), 2.669(2)
Et (β-form)[b]	B	2.398(4), 2.965(4)	2.398(4), 2.965(4)
Me	B	2.374(3), 2.988(3)	2.374(3), 2.988(3)
Et (α-form)	C	2.418(7), 3.137(6), 2.698(6)	2.520(6), 2.663(6)
(Et, Cy)	C	2.452(3), 3.047(2), 2.640(3)	2.508(2), 2.707(2)
NR_2[c]	C	2.450(2), 3.127(2), 2.625(2)	2.519(1), 2.669(1)
nBu	D	2.457(4), 3.160(4), 2.601(4)	2.543(4), 2.632(5)
H	E	2.508(4), 2.629(4)	2.499(4), 2.533(4)

a molecule has 2-fold symmetry

b molecule is centrosymmetric

c NR_2 is 4-methyl piperidine

of different motifs. Clearly, in the process of obtaining a stable crystalline lattice for these systems, perturbations in molecular geometry may sometimes arise.

Chapter 8

AB INITIO MOLECULAR ORBITAL CALCULATIONS OF SELECTED *O*-ALKYLDITHIOCARBONATES AND *N,N*-DIALKYLDITHIOCARBAMATES

To complement the crystallographic results of this thesis it was thought of interest to investigate the electronic properties the 1,1-dithiolate ligands studied, by molecular orbital theory, to determine the theoretical electronic profiles of these ligands. *Ab initio* molecular orbital theory allows the calculation of an approximate electronic wave function by numerically solving the electronic Schrödinger equation. Knowledge of the electronic wave function allows the calculation of many of the observables that are of interest to the chemist. Such observables include the potential energy of a molecule at any fixed nuclear geometry, the dipole moment of a molecule and most relevant to this study, the electron density in certain regions of a molecule.

Electronic structural programs such as the Gaussian suite (Gaussian 94, 1995) use sophisticated algorithms that allow optimisation of the molecular potential energy by varying the nuclear geometry. Such calculations are known as geometry optimisations, and at high levels of theory these can predict the equilibrium geometries of molecular systems to within experimental accuracy.

It is appropriate to mention the various levels of theory used. As mentioned, *ab initio* techniques approximately solve the electronic wave function. There exists a diverse range of theoretical implementations of varying sophistications and computational expense. The lowest level is Hartree-Fock (HF) theory. This technique for solving the wave function suffers from its lack of accounting for electron correlation. Stated simply, HF theory treats an electron's motion as if it moves in an average field of stationary electrons. In reality, the motion between electrons is "correlated", that is, they "move to avoid each other". Thus, HF energies are higher than experimental energies and HF theory often gives inaccurate reaction barriers and equilibrium geometries.

The molecular wave function is essentially a product of molecular orbitals (MOs). Each MO describes the motion, energy and distribution of two electrons (for singlet electronic states). A MO is built from atomic centered functions known as basis functions. The basis set is a well defined set of basis functions given to each type of atom; the nomenclature of basis sets is not described here. It has been shown that larger basis sets (more functions on each atom) are required to yield accurate equilibrium geometries and reaction energetics. This is intuitive, as the more basis functions that are given to the description of the electronic distribution, the more flexible it can be. A given level of theory then is the statement of and the use of an electron correlation technique and a given basis set. For example: HF/ 6-311 ++G denotes the use of Hartree-Fock theory in combination with the 6-311++G basis set.

Thus, using molecular orbital theory it is possible to investigate the electronic distribution over the 1,1-dithiolate molecules with the longer term goal of the theoretical study being to investigate the coordination of the molecules as ligands to metal centres and thereby enabling a comparison between solid state crystallographic results and gaseous state calculations. This approach has been employed with some success in Adelaide (Buntine, Hall, Tiekink, 1998; Buntine, Hall, Kosovel, Tiekink, 1998; Stewart, Tiekink, Buntine, 1997; Tiekink, Hall, Buntine, 1999) and other laboratories (Cotton, Yokochi, 1997; Wierzbicki, Salter, Hoffman, Stevens, Van Do, VanLoock, Madura, 1996). To study the electronic distribution of the selected 1,1-dithiolate ligands, the Hartree-Fock level of theory was used and the basis set employed was 6-311++G**. In addition the LANL2DZ basis set was also used to enable eventual comparisons with the complex (Buntine, Hall, Tiekink, 1998; Buntine, Hall, Kosovel, Tiekink, 1998). At the completion of the optimisations of the anions, Mulliken and natural population analysis (NPA) were used to calculate the electronic density distribution of the anions.

All geometry optimisations were performed using the GAUSSIAN 94 suite of programs (Gaussian 94, 1995) run on Silicon Graphics Indigo^{2}xZ Workstation and Silicon Graphics Power Challenge computers. All calculations were performed at the

Hartree-Fock SCF level of theory using both the 6-311++G** and LanL2DZ basis set (Gaussian 94, 1995). The LanL2DZ basis set employs the Dunning/Huzinaga double zeta descriptor (Dunning, Hay, 1976) for all first-row elements and replaces the core electrons of sulphur (up to 2*p*) chlorine (up to 2*p*),and tin (up to 4*p*) with the effective core potentials (Hay, Wadt, 1985a, 1985b; Wadt, Hay, 1985).

Thus, using the above protocols the geometry optimisations for a series of *O*-alkyldithicarbonate anions [$^{-}S_2COR$] where R = H, Me, Et, nPr, iPr, nBu, iBu, tBu, 1-MePr, nPent, 3-MeBu, 3,3-Me_2Bu, Benzyl, Hex, Cy, and *N*,*N*-dialkyldithiocarbamate anions [$^{-}S_2CNR_2$] where R_2 = H, Me, Et, nPr, iPr, iBu, nBu, Cy and R/R' = Et/Cy, iPr/Cy have been conducted. Results for the xanthate anions are presented in Tables 8.1 to 8.15 and Figs 8.1 to 8.15 and those for the dithiocarbamate anions are in Tables 8.16 to 8.25 and Figs 8.16 to 8.25.

8.1 XANTHATE ANIONS

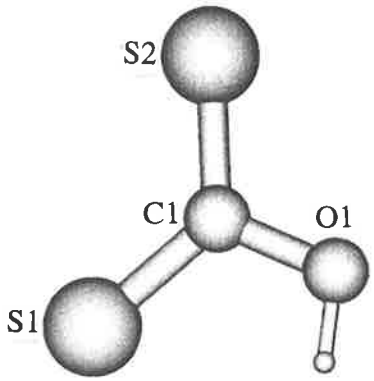


Fig. 8.1 The optimised geometry of [$^{-}S_2COH$] with the adopted numbering scheme.

Table 8.1 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2COH$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.704	1.748	C1-O1	1.337	1.382
S2-C1	1.679	1.712			
S1-C1-S2	128.6	129.8	S2-C1-O1	116.0	115.7
S1-C1-O1	115.4	114.5			
S1-C1-O1-H	0.0	0.0			

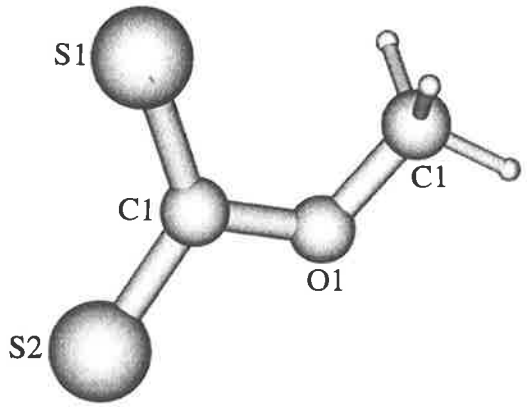


Fig. 8.2 The optimised geometry of [$^{-}S_2COMe$] with the adopted numbering scheme.

Table 8.2 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2COMe$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.698	1.745	C1-O1	1.336	1.376
S2-C1	1.691	1.725	O1-C2	1.403	1.436
S1-C1-S2	127.7	127.7	S2-C1-O1	116.0	114.0
S1-C1-O1	115.4	118.4	C1-O1-C2	106.8	110.9
S1-C1-O1-C2	0.0000	0.0			

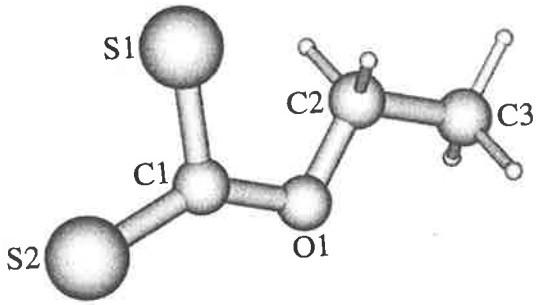


Fig. 8.3 The optimised geometry of [$^{-}S_2COEt$] with the adopted numbering scheme.

Table 8.3 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2COEt$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.698	1.745	O1-C2	1.407	1.442
S2-C1	1.692	1.726	C2-C3	1.517	1.522
C1-O1	1.335	1.375			
S1-C1-S2	126.5	127.6	C1-O1-C2	122.9	123.6
S1-C1-O1	119.8	118.4	O1-C2-C3	106.8	106.3
S2-C1-O1	113.7	114.0			
S1-C1-O1-C2	0.0	0.0	C1-O1-C2-C3	180.0	180.0

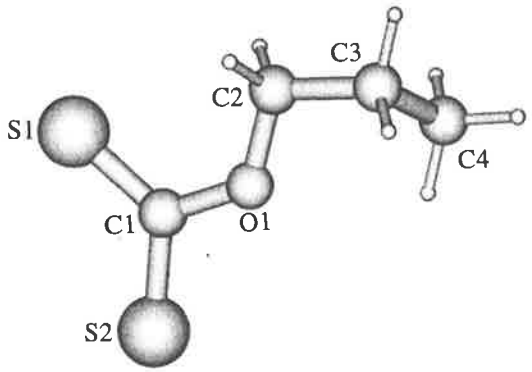


Fig. 8.4 The optimised geometry of [$^{-}S_2$COnPr] with the adopted numbering scheme.

Table 8.4 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2$COnPr].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.697	1.744	O1-C2	1.407	1.4
S2-C1	1.692	1.726	C2-C3	1.520	1.525
C1-O1	1.335	1.375	C3-C4	1.528	1.536
S1-C1-S2	126.6	127.7	C1-O1-C2	123.1	123.8
S1-C1-O1	119.8	118.4	O1-C2-C3	107.2	106.6
S2-C1-O1	113.6	113.9	C2-C3-C4	113.7	113.0
S1-C1-O1-C2	-0.8	-0.9	O1-C2-C3-C4	62.9	62.9
C1-O1-C2-C3	-179.1	-178.9			

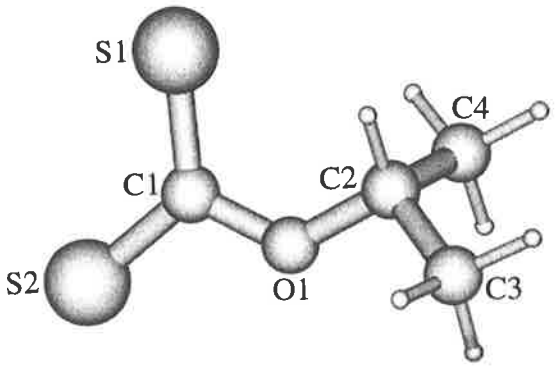


Fig. 8.5 The optimised geometry of [$^{-}S_2COiPr$] with the adopted numbering scheme.

Table 8.5 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2COiPr$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.702	1.749	O1-C2	1.417	1.450
S2-C1	1.691	1.725	C2-C3	1.522	1.529
C1-O1	1.335	1.375	C3-C4	1.521	1.526
S1-C1-S2	125.9	127.1	O1-C2-C3	109.7	109.3
S1-C1-O1	120.6	119.1	O1-C2-C4	105.7	105.2
S2-C1-O1	113.5	113.8	C3-C2-C4	112.5	112.9
C1-O1-C2	124.7	125.4			
S1-C1-O1-C2	-2.2	-1.5	C1-O1-C2-C4	-90.7	-88.4
C1-O1-C2-C3	-147.7	-150.1			

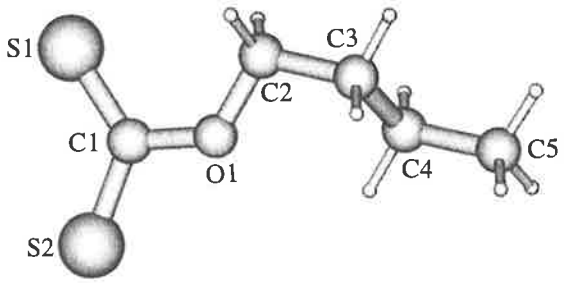


Fig. 8.6 The optimised geometry of [$^{-}S_2$COnBu] with the adopted numbering scheme.

Table 8.6 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2$COnBu].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.697	1.744	C2-C3	1.520	1.525
S2-C1	1.692	1.726	C3-C4	1.528	1.537
C1-O1	1.335	1.375	C4-C5	1.528	1.538
O1-C2	1.408	1.441			
S1-C1-S2	126.6	127.7	O1-C2-C3	107.2	106.6
S1-C1-O1	119.8	118.4	C2-C3-C4	113.9	113.4
S2-C1-O1	113.6	113.9	C3-C4-C5	112.9	112.5
C1-O1-C2	123.1	123.7			
S1-C1-O1-C2	-0.8	-0.8	O1-C2-C3-C4	63.4	63.1
C1-O1-C2-C3	-179.3	-179.2	C2-C3-C4-C5	180.0	-179.6

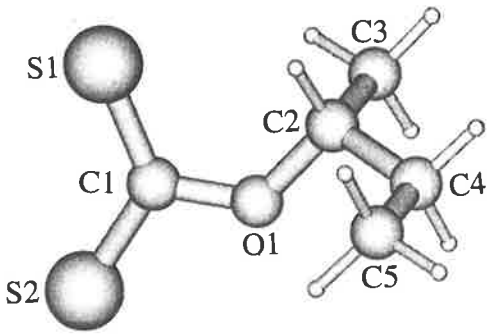


Fig. 8.7 The optimised geometry of [$^{-}S_2CO1$-MePr] with the adopted numbering scheme.

Table 8.7 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CO1$-MePr].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.701	1.748	C2-C3	1.522	1.529
S2-C1	1.692	1.726	C3-C4	1.521	1.530
C1-O1	1.335	1.375	C4-C5	1.527	1.536
O1-C2	1.417	1.450			
S1-C1-S2	126.0	127.2	O1-C2-C3	109.6	109.2
S1-C1-O1	120.6	119.1	O1-C2-C3	106.2	105.6
S2-C1-O1	113.4	113.7	C2-C3-C4	113.5	113.0
C1-O1-C2	124.9	125.6	C3-C4-C5	112.4	112.7
S1-C1-O1-C2	-0.3	-0.6	C1-O1-C2-C4	146.9	149.3
C1-O1-C2-C3	-91.4	-89.2	O1-C3-C4-C5	-62.8	-62.9

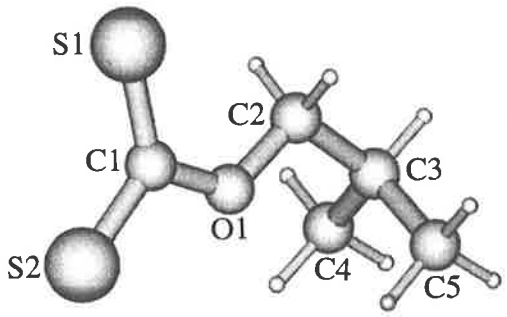


Fig. 8.8 The optimised geometry of [$^{-}S_2COiBu$] with the adopted numbering scheme.

Table 8.8 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2COiBu$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.697	1.744	C2-C3	1.526	1.530
S2-C1	1.692	1.726	C3-C4	1.531	1.539
C1-O1	1.335	1.375	C3-C5	1.531	1.539
O1-C2	1.407	1.440			
S1-C1-S2	126.6	127.8	O1-C2-C3	107.7	107.2
S1-C1-O1	119.8	118.4	C2-C3-C4	111.8	111.4
S2-C1-O1	113.5	113.8	C2-C3-C5	111.8	111.4
C1-O1-C2	123.2	124.0	C4-C3-C5	111.4	111.1
S1-C1-O1-C2	-0.1	0.0	O1-C2-C3-C4	-62.8	-62.4
C1-O1-C2-C3	-179.8	180.0	O1-C2-C3-C5	62.8	62.4

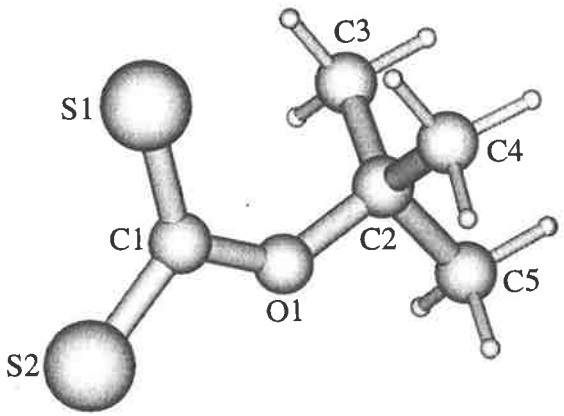


Fig. 8.9 The optimised geometry of [$^{-}S_2COtBu$] with the adopted numbering scheme.

Table 8.9 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2COtBu$].

	6-311++ G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.700	1.744	C2-C3	1.529	1.530
S2-C1	1.695	1.726	C2-C4	1.529	1.539
C1-O1	1.335	1.375	C2-C5	1.531	1.539
O1-C2	1.432	1.440			
S1-C1-S2	124.9	125.9	O1-C2-C4	112.0	111.3
S1-C1-O1	122.5	121.2	O1-C2-C5	101.5	101.3
S2-C1-O1	112.6	113.0	C3-C2-C4	112.3	112.4
C1-O1-C2	131.2	131.8	C3-C2-C5	109.2	110.0
O1-C2-C3	112.0	111.3	C4-C2-C5	109.2	110.0
S1-C1-O1-C2	0.000	0.0	C1-O1-C2-C4	63.6	63.1
C1-O1-C2-C3	-63.567	-63.2	C1-O1-C2-C5	180.0	180.0

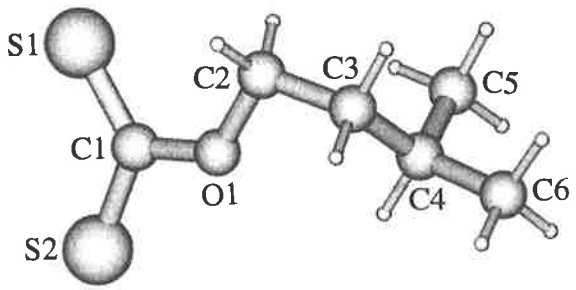


Fig. 8.10 The optimised geometry of [$^{-}S_2CO$-3-MeBu] with the adopted numbering scheme.

Table 8.10 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CO$-3-MeBu].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.697	1.743	C2-C3	1.521	1.526
S2-C1	1.692	1.726	C3-C4	1.536	1.547
C1-O1	1.335	1.376	C4-C5	1.531	1.541
O1-C2	1.408	1.440	C4-C6	1.532	1.543
S1-C1-S2	126.6	127.8	C2-C3-C4	115.8	115.8
S1-C1-O1	119.8	118.5	C3-C4-C5	112.6	112.6
S2-C1-O1	113.7	113.7	C3-C4-C6	110.2	110.2
C1-O1-C2	123.1	123.7	C5-C4-C6	110.4	110.2
O1-C2-C3	107.2	108.2			
S1-C1-O1-C2	-0.6	-1.4	C2-C3-C4-C5	61.6	-80.7
C1-O1-C2-C3	-179.3	-179.7	C2-C3-C4-C6	-174.6	155.8
O1-C2-C3-C4	58.8	65.8			

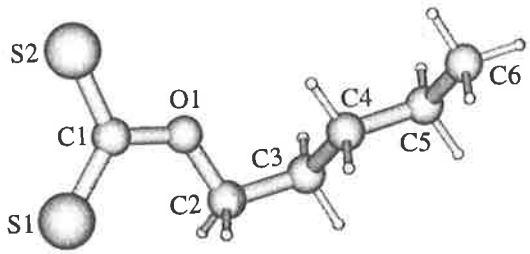


Fig. 8.11 The optimised geometry of [$^{-}S_2$COnPent] with the adopted numbering scheme.

Table 8.11 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2$COnPent].

Bonds	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.697	1.744	C2-C3	1.520	1.525
S2-C1	1.692	1.726	C3-C4	1.528	1.536
C1-O1	1.335	1.375	C4-C5	1.528	1.538
O1-C2	1.408	1.441	C5-C6	1.450	1.538
S1-C1-S2	126.5	127.7	O1-C2-C3	107.2	106.6
S1-C1-O1	119.8	118.4	C2-C3-C4	113.9	113.4
S2-C1-O1	113.6	113.9	C3-C4-C5	112.9	112.8
C1-O1-C2	123.1	123.8	C4-C5-C6	119.5	112.8
S1-C1-O1-C2	-0.8	-0.8	C2-C3-C4-C5	-179.6	-179.0
C1-O1-C2-C3	-179.4	-179.2	C3-C4-C5-C6	-179.8	-179.9
O1-C2-C3-C4	63.5	63.1			

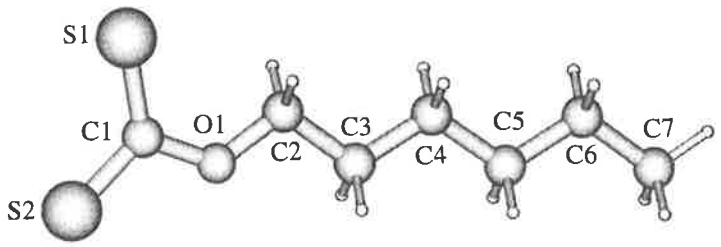


Fig. 8.12 The optimised geometry of [$^{-}S_2$COHex] with the adopted numbering scheme.

Table 8.12 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2$COHex].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.698	1.745	C3-C4	1.529	1.538
S2-C1	1.692	1.725	C4-C5	1.529	1.538
C1-O1	1.336	1.376	C5-C6	1.529	1.538
O1-C2	1.406	1.440	C6-C7	1.528	1.538
C2-C3	1.519	1.524			
S1-C1-S2	126.5	127.6	C2-C3-C4	112.3	112.0
S1-C1-O1	119.8	118.4	C3-C4-C5	113.2	112.9
S2-C1-O1	113.7	114.0	C4-C5-C6	113.6	113.3
C1-O1-C2	122.9	123.5	C5-C6-C7	113.3	112.9
O1-C2-C3	106.8	106.5			
S1-C1-O1-C2	0.0	0.0	C2-C3-C4-C5	180.0	180.0
C1-O1-C2-C3	180.0	180.0	C3-C4-C5-C6	180.0	180.0
O1-C2-C3-C4	180.0	180.0	C4-C5-C6-C7	180.0	180.0

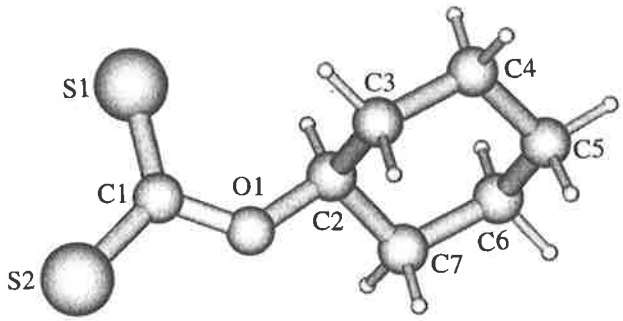


Fig. 8.13 The optimised geometry of [$^{-}S_2COCy$] with the adopted numbering scheme.

Table 8.13 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2COCy$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.702	1.749	C3-C4	1.531	1.540
S2-C1	1.691	1.724	C4-C5	1.531	1.541
C1-O1	1.336	1.376	C5-C6	1.531	1.541
O1-C2	1.413	1.444	C6-C7	1.531	1.540
C2-C3	1.525	1.532	C7-C2	1.524	1.529
S1-C1-S2	125.9	127.1	C2-C3-C4	111.0	110.7
S1-C1-O1	120.6	119.1	C3-C4-C5	111.6	111.4
S2-C1-O1	113.5	113.8	C4-C5-C6	111.2	111.1
C1-O1-C2	124.6	125.3	C5-C6-C7	111.6	111.4
O1-C2-C3	110.3	110.1	C6-C7-C2	111.1	110.9
O1-C2-C7	106.6	106.1	C7-C2-C3	111.3	111.5
S1-C1-O1-C2	1.8	0.7	O1-C2-C3-C4	174.375	174.1
C1-O1-C2-C3	91.5	89.5	O1-C2-C7-C6	-176.490	-176.4
C1-O1-C2-C7	-147.5	-149.8	C2-C3-C4-C5	-55.392	-55.4

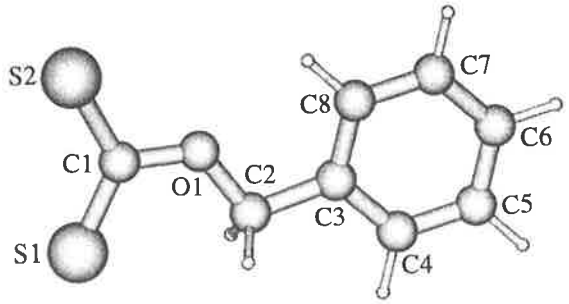


Fig. 8.14 The optimised geometry of [$^{-}S_2COCH_2Ph$] with the adopted numbering scheme.

Table 8.14 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2COCH_2Ph$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.695	1.741	C4-C5	1.388	1.397
S2-C1	1.689	1.722	C5-C6	1.384	1.395
C1-O1	1.341	1.380	C6-C7	1.388	1.397
O1-C2	1.398	1.430	C7-C8	1.383	1.394
C2-C3	1.513	1.514	C8-C3	1.392	1.400
C3-C4	1.388	1.397			
S1-C1-S2	127.0	128.2	C4-C5-C6	120.7	120.7
S1-C1-O1	119.7	118.2	C5-C6-C7	119.3	119.3
S2-C1-O1	113.3	113.6	C6-C7-C8	120.0	120.0
C1-O1-C2	122.7	123.5	C7-C8-C3	121.0	120.9
O1-C2-C3	108.7	108.2	C8-C3-C4	118.7	118.9
C2-C3-C4	122.7	122.1	C8-C3-C2	118.6	119.0
C3-C4-C5	120.3	120.2			
S1-C1-O1-C2	0.1	0.0	O1-C2-C3-C4	-0.7	180.0
C1-O1-C2-C3	179.9	180.0	O1-C2-C3-C8	179.4	180.0

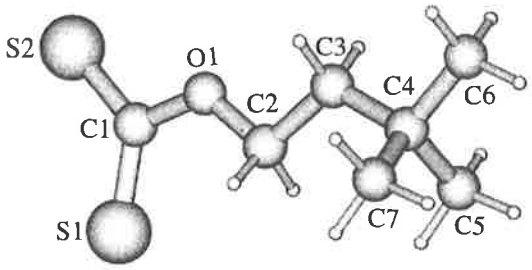


Fig. 8.15 The optimised geometry of [$^{-}S_2CO$-3,3-Me_2Bu] with the adopted numbering scheme.

Table 8.15 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CO$-3,3-Me_2Bu].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.698	1.745	C3-C4	1.544	1.552
S2-C1	1.692	1.724	C4-C5	1.538	1.546
C1-O1	1.335	1.376	C4-C6	1.537	1.546
O1-C2	1.408	1.441	C4-C7	1.537	1.546
C2-C3	1.522	1.527			
S1-C1-S2	126.5	127.6	C3-C4-C5	111.2	111.2
S1-C1-O1	119.8	118.4	C3-C4-C6	107.8	107.8
S2-C1-O1	113.7	114.0	C3-C4-C7	111.2	111.2
C1-O1-C2	122.7	123.4	C5-C4-C6	108.6	108.7
O1-C2-C3	105.8	105.4	C6-C4-C7	108.6	108.7
C2-C3-C4	116.4	116.0	C5-C4-C7	109.3	109.3
S1-C1-O1-C2	-0.0	-0.0	C2-C3-C4-C5	-61.0	-61.0
C1-O1-C2-C3	180.0	180.0	C2-C3-C4-C6	180.0	180.0
O1-C2-C3-C4	180.0	180.0	C2-C3-C4-C7	61.0	61.0

8.1.1 *Summary of the optimised geometries of the xanthate anions.*

To obtain the optimised geometry of a particular [^-S_2COR] several alternative starting conformations were used. The resulting optimised geometry with the lowest energy is reported. A general comparison of the parameters of the optimised geometries between the two different basis sets (LANL2DZ and 6311++G**) reveals that the bond lengths for the LANL2DZ basis set are longer than the bond lengths in the 6311++G** basis set. The angles involved in each basis set are approximately the same. An investigation of the influence of the R group on the geometry of [^-S_2COR] follows.

The optimised geometries of the xanthate anions have a consistent characteristic, the ^-S_2CO moiety. There is asymmetry in the C-S bond distances with the S(1)-C(1) bond (the bond closest to the coordinated R group) slightly longer than the S(2)-C(1) bonds throughout the range of xanthate anions, this is ascribed to S...H interactions. The S(1)-C(1) bond lengths fall in the narrow range of 1.697 Å to 1.704 Å (1.743 Å - 1.749 Å for the LANL2DZ basis set) and the S(2)-C(1) bonds lie in the narrow range of 1.689 Å to 1.695 Å (1.722 Å to 1.726 Å) excluding [^-S_2COH] which displays a slightly shorter bond length (1.679 Å (1.712 Å)). The bite angle of the ^-S_2CO moiety lies in the narrow range of 124.9° to 128.6° (125.9° - 128.2°). The C(1)-O(1) and O(1)-C(2) bond lengths are very consistent throughout the series remaining in the narrow range of 1.335 Å to 1.341 Å (1.375 Å to 1.382 Å) and 1.398 Å to 1.432 Å (1.430 Å to 1.450 Å) respectively. The relatively narrow ranges observed for the S-C and C-O bond distances, and associated angles, support the hypothesis that the influence exerted by the O-bound H and organic substituents is minimal. The other geometric result of interest is the torsion angle, which for every ^-S_2COC moiety is 180°, indicating that the ^-S_2COC moiety is planar.

The organic substituents coordinated to the ^-S_2CO moiety display characteristic C-C bond lengths and angles. There are some interesting features of the anions as the R group increases in size. In those anions containing methyl and ethyl groups, are co-planar with the ^-S_2CO moiety. When the n-propyl group is substituted, rather than being

co-planar, the torsion angle involving the third carbon atom in the chain is 62.9°. This third carbon atom in the chain remains at this torsion angle as the carbon chain increases in length to butyl and pentyl with the additional carbon atoms *i.e.* the fourth and fifth carbon atoms displaying a torsion angle of 180°. When the carbon chain increases to hexyl all the carbon atoms in the chain are co-planar with the $^{-}S_2CO$ moiety.

8.2 DITHIOCARBAMATE ANIONS

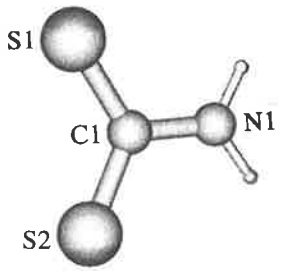


Fig. 8.16 The optimised geometry of $[^{-}S_2CNH_2]$ with the adopted numbering scheme.

Table 8.16 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of $[^{-}S_2CNH_2]$.

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.711	1.756	C1-N1	1.348	1.367
S2-C1	1.711	1.756			
S1-C1-S2	127.1	128.0	S2-C1-N1	116.4	116.0
S1-C1-N1	116.4	116.0			

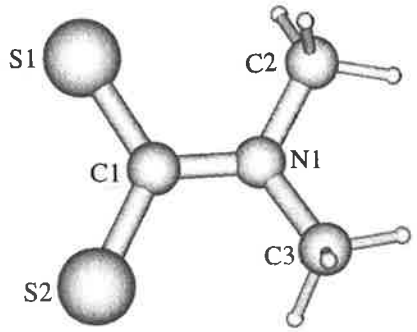


Fig. 8.17 The optimised geometry of [$^{-}S_2CNMe_2$] with the adopted numbering scheme.

Table 8.17 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CNMe_2$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.718	1.767	N1-C2	1.452	1.467
S2-C1	1.718	1.767	N1-C3	1.452	1.467
C1-N1	1.360	1.370			
S1-C1-S2	122.106	123.344	C1-N1-C2	121.248	121.063
S1-C1-N1	118.793	118.329	C1-N1-C3	121.589	121.064
S2-C1-N1	119.100	118.327			
S1-C1-N1-C2	8.0	0.0	S1-C1-N1-C3	172.4	180.0

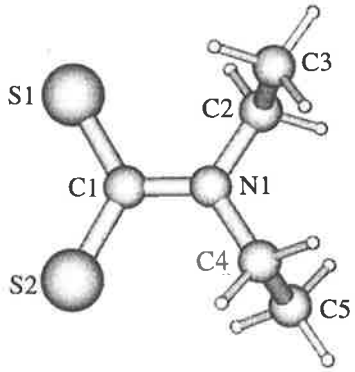


Fig. 8.18 The optimised geometry of [$^{-}S_2CNEt_2$] with the adopted numbering scheme.

Table 8.18 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CNEt_2$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.722	1.771	C2-C3	1.527	1.537
S2-C1	1.722	1.771	N1-C4	1.458	1.471
C1-N1	1.358	1.371	C4-C5	1.527	1.537
N1-C2	1.458	1.471			
S1-C1-S2	121.4	122.1	C1-N1-C4	122.9	122.7
S1-C1-N1	119.3	119.0	N1-C2-C3	113.3	112.8
S2-C1-N1	119.3	119.0	N1-C4-C5	113.3	112.8
C1-N1-C2	122.9	122.7			
S1-C1-N1-C2	-1.8	-1.9	C1-N1-C2-C3	91.4	90.3

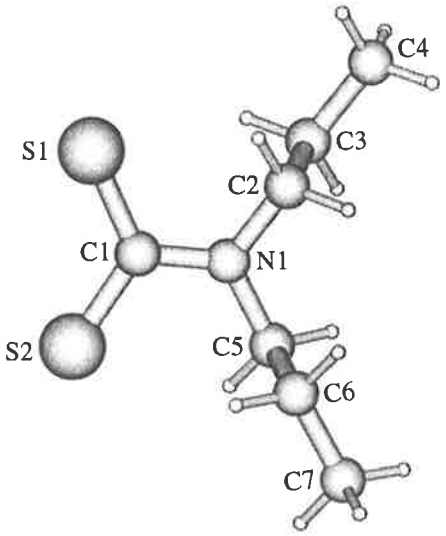


Fig. 8.19 The optimised geometry of [$^{-}S_2CNnPr_2$] with the adopted numbering scheme.

Table 8.19 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CNnPr_2$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.722	1.771	C3-C4	1.528	1.538
S2-C1	1.722	1.771	N1-C5	1.457	1.469
C1-N1	1.358	1.371	C5-C6	1.529	1.537
N1-C2	1.457	1.469	C6-C7	1.528	1.538
C2-C3	1.529	1.537			
S1-C1-S2	121.4	122.1	C2-C3-C4	111.9	111.7
S1-C1-N1	119.1	119.0	C1-N1-C5	122.8	122.6
S2-C1-N1	119.3	119.0	N1-C5-C6	113.5	113.1
C1-N1-C2	122.8	122.6	C5-C6-C7	111.9	111.7
N1-C2-C3	113.5	113.1			
S1-C1-N1-C2	1.7	1.8	N1-C2-C3-C4	-179.5	-179.7
C1-N1-C2-C3	-90.7	-89.7			

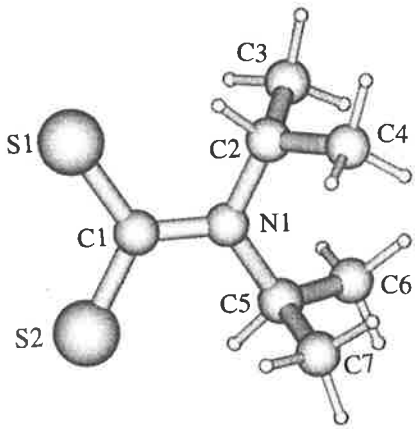


Fig. 8.20 The optimised geometry of [$^{-}S_2CNiPr_2$] with the adopted numbering scheme.

Table 8.20 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CNiPr_2$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.725	1.775	C2-C4	1.532	1.542
S2-C1	1.725	1.775	N1-C5	1.475	1.488
C1-N1	1.371	1.386	C5-C6	1.534	1.540
N1-C2	1.475	1.488	C5-C7	1.532	1.542
C2-C3	1.534	1.540			
S1-C1-S2	118.9	119.7	C3-C2-C4	111.9	112.0
S1-C1-N1	120.5	120.2	C1-N1-C5	119.3	119.3
S2-C1-N1	120.5	120.2	N1-C5-C6	113.7	113.3
C1-N1-C2	119.3	119.3	N1-C5-C7	114.7	114.5
N1-C2-C3	113.7	113.3	C6-C5-C7	111.9	112.0
N1-C2-C4	114.7	114.5			
S1-C1-N1-C2	5.6	7.2	C1-N1-C2-C4	-96.1	-95.7
C1-N1-C2-C3	133.4	134.2			

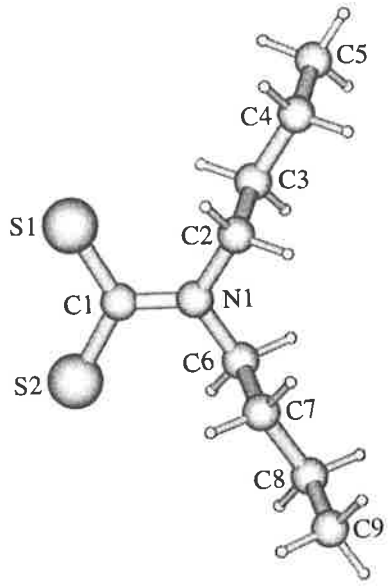


Fig. 8.21 The optimised geometry of [$^{-}S_2CNnBu_2$] with the adopted numbering scheme.

Table 8.21 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CNnBu_2$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.722	1.771	C4-C5	1.528	1.538
S2-C1	1.722	1.771	N1-C6	1.457	1.470
C1-N1	1.358	1.371	C6-C7	1.529	1.537
N1-C2	1.457	1.470	C7-C8	1.528	1.538
C2-C3	1.529	1.537	C8-C9	1.528	1.538
C3-C4	1.528	1.538			
S1-C1-S2	121.4	122.1	C3-C4-C5	113.1	112.7
S1-C1-N1	119.3	119.0	C1-N1-C6	122.8	122.6
S2-C1-N1	119.3	119.0	N1-C6-C7	113.4	113.0
C1-N1-C2	122.8	122.6	C6-C7-C8	112.2	112.1
N1-C2-C3	113.4	113.0	C7-C8-C9	113.1	112.7
C2-C3-C4	112.2	112.1			
S1-C1-N1-C2	1.6	1.8	N1-C2-C3-C4	-180.0	179.4
C1-N1-C2-C3	-90.6	-89.6	C2-C3-C4-C5	-180.0	180.0

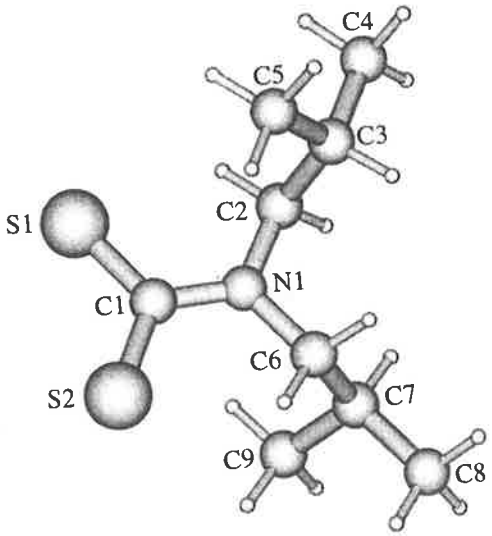


Fig. 8.22 The optimised geometry of [$^{-}S_2CNiBu_2$] with the adopted numbering scheme.

Table 8.22 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CNiBu_2$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.722	1.772	C3-C5	1.530	1.542
S2-C1	1.722	1.772	N1-C6	1.458	1.471
C1-N1	1.366	1.378	C6-C7	1.540	1.547
N1-C2	1.458	1.471	C7-C8	1.532	1.542
C2-C3	1.540	1.547	C7-C9	1.530	1.538
C3-C4	1.532	1.538			
S1-C1-S2	120.1	120.8	C2-C3-C5	112.9	112.8
S1-C1-N1	120.0	119.6	C4-C3-C5	111.0	111.0
S2-C1-N1	120.0	119.6	N1-C6-C7	115.2	114.7
C1-N1-C2	122.7	122.8	C6-C7-C8	108.8	108.8
N1-C2-C3	115.2	114.7	C6-C7-C9	112.9	112.8
C2-C3-C4	108.8	108.8	C8-C7-C9	111.0	111.0
S1-C1-N1-C2	4.8	4.2	N1-C1-C2-C3	179.6	178.7
C1-N1-C2-C3	107.3	105.3	N1-C1-C2-C4	-56.7	-57.8

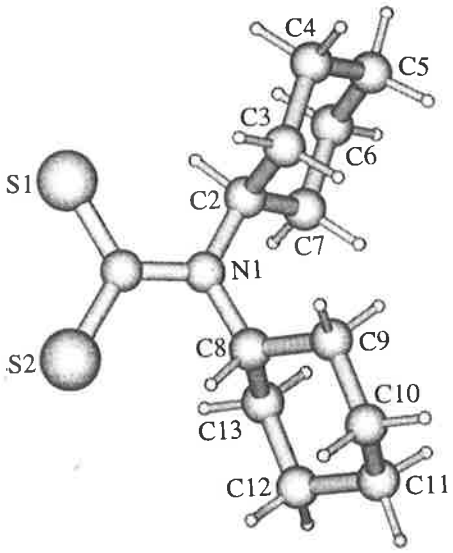


Fig. 8.23 The optimised geometry of [$^{-}S_2CNCy_2$] with the adopted numbering scheme.

Table 8.23 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CNCy_2$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.725	1.775	C7-C2	1.535	1.543
S2-C1	1.725	1.775	N1-C8	1.474	1.485
C1-N1	1.372	1.386	C8-C9	1.535	1.543
N1-C2	1.474	1.485	C9-C10	1.534	1.543
C2-C3	1.537	1.543	C10-C11	1.530	1.540
C3-C4	1.532	1.540	C11-C12	1.530	1.540
C4-C5	1.530	1.540	C12-C13	1.532	1.540
C5-C6	1.530	1.540	C13-C8	1.537	1.544
C6-C7	1.534	1.543			
S1-C1-S2	118.8	119.6	C7-C2-C3	111.3	111.3
S1-C1-N1	120.6	120.2	C1-N1-C8	119.1	119.1
S2-C1-N1	120.6	120.2	C8-C9-C10	109.9	109.6
C1-N1-C2	119.1	119.1	C9-C10-C11	112.1	112.0
C2-C3-C4	110.4	110.2	C10-C11-C12	111.1	111.1
C3-C4-C5	111.4	111.2	C11-C12-C13	111.4	111.2
C4-C5-C6	111.1	111.1	C12-C13-C8	110.4	110.2
C5-C6-C7	112.1	112.0	C13-C8-C9	111.3	111.3
C6-C7-C2	109.9	109.6			
S1-C1-N1-C2	-5.5	-7.4	C2-C3-C4-C5	-56.1	-56.3
C1-N1-C2-C3	95.9	-78.9	C1-N1-C2-C7	-133.4	-134.3
N1-C2-C3-C4	-169.9	-169.7	N1-C2-C7-C6	171.3	171.3

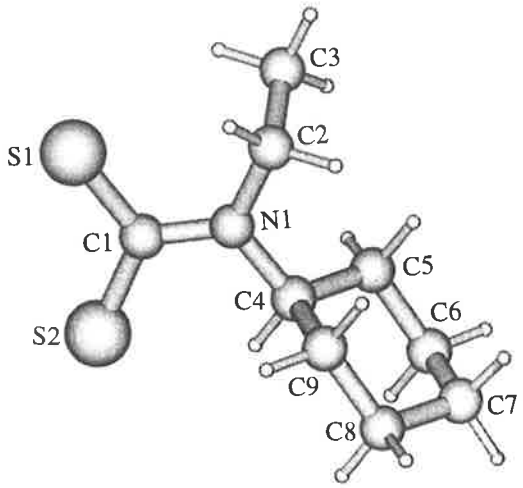


Fig. 8.24 The optimised geometry of [$^{-}S_2CN(Et)Cy$] with the adopted numbering scheme.

Table 8.24 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CN(Et)Cy$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.720	1.770	C4-C5	1.534	1.543
S2-C1	1.725	1.775	C5-C6	1.533	1.540
C1-N1	1.364	1.377	C6-C7	1.530	1.540
N1-C2	1.463	1.475	C7-C8	1.530	1.540
C2-C3	1.528	1.537	C8-C9	1.532	1.541
N1-C4	1.466	1.478	C9-C4	1.535	1.541
S1-C1-S2	120.3	121.0	C4-C5-C6	110.5	111.0
S1-C1-N1	119.4	119.1	C5-C6-C7	111.7	111.5
S2-C1-N1	120.3	119.9	C6-C7-C8	111.1	111.1
C1-N1-C2	121.3	121.2	C7-C8-C9	111.6	111.6
N1-C2-C3	114.6	114.2	C8-C9-C4	111.1	110.2
C1-N1-C4	121.5	121.5	C9-C4-C5	111.2	111.1
S1-C1-N1-C2	4.1	3.8	C1-N1-C2-C3	-86.5	-85.3
S1-C1-N1-C4	174.5	176.3	C4-C5-C6-C7	-56.0	-55.1
C1-N1-C4-C5	135.6	135.8	C1-N1-C4-C9	-97.3	-97.7
N1-C4-C5-C6	-176.3	-176.5	N1-C4-C9-C8	175.9	175.9

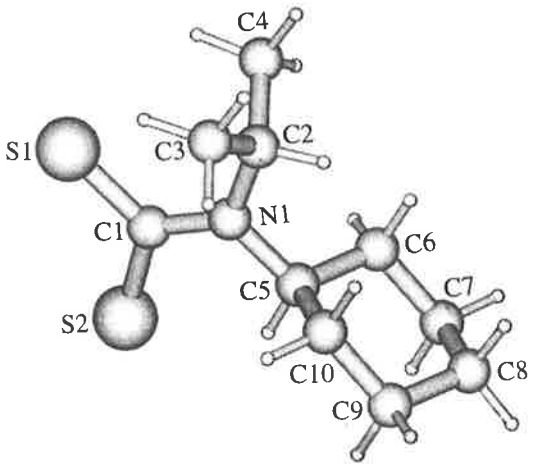


Fig. 8.25 The optimised geometry of [$^{-}S_2CN(iPr)Cy$] with the adopted numbering scheme.

Table 8.25 Selected bond lengths (Å), angles (deg) and dihedral angles (deg) of [$^{-}S_2CN(iPr)Cy$].

	6-311 ++G**	LANL2DZ		6-311 ++G**	LANL2DZ
S1-C1	1.718	1.770	C5-C6	1.535	1.542
S2-C1	1.729	1.780	C6-C7	1.532	1.541
C1-N1	1.365	1.378	C7-C8	1.530	1.540
N1-C2	1.479	1.492	C8-C9	1.530	1.540
C2-C3	1.533	1.541	C9-C10	1.532	1.541
C2-C4	1.533	1.541	C10-C5	1.535	1.542
N1-C5	1.470	1.483			
S1-C1-S2	118.9	119.2	C1-N1-C5	120.6	120.7
S1-C1-N1	120.8	120.9	C5-C6-C7	110.6	110.5
S2-C1-N1	120.4	120.0	C6-C7-C8	111.7	111.5
C1-N1-C2	125.2	125.1	C7-C8-C9	111.1	111.1
N1-C2-C3	114.8	114.3	C8-C9-C10	111.7	111.5
N1-C2-C4	114.8	114.3	C9-C10-C5	110.6	110.5
C4-C2-C3	112.5	112.2	C10-C5-C6	111.6	111.6
S1-C1-N1-C2	-0.1	-0.1	N1-C5-C6-C7	-175.3	-175.4
C1-N1-C2-C3	-66.3	-65.6	C5-C6-C7-C8	-55.3	-55.6
C1-N1-C2-C4	66.4	65.7	C1-N1-C5-C10	-116.0	-116.2
S1-C1-N1-C4	179.9	179.9	N1-C5-C10-C9	175.3	175.4
C1-N1-C5-C6	115.8	116.1			

8.2.1 *Summary of the optimised geometries of the dithiocarbamate anions.*

To obtain the optimised geometry of a particular [$^{-}S_2CNR_2$] species the method used for the xanthate anions was employed that is, several alternative starting conformations were used and the resulting optimised geometry with the lowest energy reported. Similarly, a general comparison of the parameters of the optimised geometries between the two different basis sets (LANL2DZ and 6311++G**) reveals that the bond lengths for the LANL2DZ basis set are longer than the bond lengths in the 6311++G** basis set. The angles involved in each basis set are approximately the same. An investigation of the influence of the R group on the geometry of [$^{-}S_2CNR_2$] follows.

The dithiocarbamates display a similar feature to the xanthates in that the geometry of the $^{-}S_2CN$ moiety remains consistent irrespective of the N-bound R group. The S(1)-C(1) and S(2)-C(1) bond lengths are equal in dithiocarbamate anions where the R and R' groups are identical. The S-C bond lengths lie in the narrow range of 1.718 Å to 1.729 Å (1.767 Å to 1.780 Å for the LANL2DZ basis set) excluding the dithiocarbamate anion itself which displays a marginally shorter length of 1.711 Å (1.756 Å). Unlike the xanthate anions, the bite angle of the dithiocarbamate anions vary slightly with a change in the N-bound substituent. The largest R group of cyclohexyl results in the smallest S(1)-C(1)-S(2) angle of 118.8° (119.6°), with the smallest R group, the hydrogen atom displaying the largest S(1)-C(1)-S(2) angle of 127.1° (128.0°). This reflects the different steric profiles of the R groups. The size of the R group does exert a small but discernable influence on the S(1)-C(1)-S(2) angle. The C-N bond length remains relatively constant as the R and R' groups are varied. These distances are observed in a narrow range of 1.348 Å to 1.372 Å (1.367 Å to 1.386 Å). This same feature is seen for the N(1)-C(2)/C(x) (x varies depending on the R group) with a narrow range observed 1.452 Å to 1.479 Å (1.467 Å to 1.492 Å). All of the dithiocarbamate anions adopt a torsion angle for the $^{-}S_2CNC$ moiety of 180° demonstrating the planar nature of the moiety. Similar to that observed for the xanthate anions, the narrow ranges of the geometric parameters of the $^{-}S_2CN$ moiety of the dithiocarbamate anions supports the suggestion that the nature of

the N-bound organic substituent has little effect on the geometry of the $^{-}S_2CN$ moiety of the anion.

The organic substituents coordinated to the $^{-}S_2CN$ moiety display characteristic C-C bond lengths and angles. There are some interesting features of the anions when the R and R' groups are identical. As the R and R' group increases in size from methyl to ethyl the second carbon atom is found at a torsion angle of 90° (*i.e.* C(1)-N(1)-C(2)-C(3) and C(1)-N(1)-C(4)-C(5)). This second carbon in the chain remains at a torsion angle of 90° as the length of the carbon change is increased to n-propyl and n-butyl with the subsequent carbon atoms in the chain (*i.e.* the third and fourth carbon atoms) linear with a torsion angle of 180°.

8.3 ELECTRON DENSITY DISTRIBUTION OF [$^{-}S_2COR$] AND [$^{-}S_2CNR_2$].

The electronic density distribution of [$^{-}S_2COR$] and [$^{-}S_2CNR_2$] was calculated using the Mulliken population analysis and the Natural Population Analysis (NPA) for the geometry optimised structures calculated using both the 6-311++G** and LANL2DZ basis sets. The results are summarised in Tables 8.27 to 8.30 for the xanthate anions and Tables 8.31 to 8.34 for the dithiocarbamate anions; these are presented at the end of the chapter. It should be noted that Mulliken population analysis is an arbitrary method for the assignment of atomic charges. Mulliken population analysis assigns atomic charges by dividing molecular orbital overlap evenly between each pair of atoms involved in a chemical bond. Usually, differences in Mulliken population analysis are a more useful indicator of changes in electronic distribution. To check whether there are artifacts in the Mulliken population analysis, a natural population analysis (Glendening, Reed, Carpenter, Weinhold, NBO, Version 3.1) was also performed. Thus, the values reported in Tables 8.27 to 8.34 do not represent absolute charges but give an indication of excess or deficiency of electron density on particular atoms.

8.3.1 *Xanthate anions.*

The electron density distribution of the *O*-alkyldithiocarbonate anions is such that electron distribution of the $^{-}S_2CO$ moiety remains consistent regardless of the R group coordinated to the oxygen atom. The electron distribution of the $^{-}S_2CO$ moiety is summarised in Table 8.35. All calculations reveal, as expected, a significant electron density on the S(1) and S(2) atoms and consistently, a small excess of electron density on the S(1) atom compared to the S(2) atom for each $^{-}S_2COR$ anion. This result is consistent with the small elongation of the S(1)-C bonds over the S(2)-C bonds mentioned in 8.1.1.

Table 8.35 General summary of the electron distribution over the [$^{-}S_2CO$] moiety.

Mulliken population analysis		
Atom	6-311++G**	LANL2DZ
S(1)	-0.70047 to -0.83731	-0.28856 to -0.32189
S(2)	-0.66550 to -0.713861	-0.25922 to -0.28494
C(1)	0.24091 to 0.63339	-0.24055 to -0.26299
O(1)	-0.06963 to -0.327543	-0.42715 to -0.54345

Natural population analysis		
Atom	6-311++G**	LANL2DZ
S(1)	-0.46101 to -0.49216	-0.46641 to -0.49185
S(2)	-0.43889 to -0.44825	-0.43358 to -0.44284
C(1)	0.09917 to 0.10696	0.09123 to 0.11396
O(1)	-0.28534 to -0.35978	-0.29118 to -0.36776

8.3.2 *Dithiocarbamate anions*

As with the *O*-alkyldithiocarbonate anions the *N,N*-dialkyldithiocarbamate anions reveal that the electron density of the $^{-}S_2CN$ moiety remains constant regardless of the R group coordinated to the nitrogen atom. The electron distribution of the $^{-}S_2CN$ moiety is summarised in Table 8.36. Similar to the *O*-alkyldithiocarbonate anions all calculations reveal a significant electron density on the S(1) and S(2) atoms. Unlike that observed for the analogous $^{-}S_2COR$ anions, the differences in charge residing on the two sulphur atoms is much smaller in the $^{-}S_2CNR_2$ anions, a result consistent with geometric parameters which showed a near equivalence of the C - S bond distances.

Table 8.36 General summary of the electron distribution over the [$^{-}S_2CN$] moiety.

Mulliken population analysis		
Atom	6-311++G**	LANL2DZ
S(1)	-0.77246 to -0.97430	-0.32122 to -0.34529
S(2)	-0.80149 to -0.97430	-0.32168 to -0.34529
C(1)	0.60509 to 1.21378	-0.31354 to -0.44724
N(1)	-0.461648 to 1.11088	-0.26441 to -0.68255

Natural population analysis		
Atom	6-311++G**	LANL2DZ
S(1)	-0.46526 to -0.49138	-0.47330 to -0.49546
S(2)	-0.46725 to -0.49138	-0.47330 to -0.49546
C(1)	0.06990 to 0.09839	0.08090 to 0.11196
N(1)	-0.27244 to -0.44213	-0.27654 to -0.44819

8.4 CONCLUSION

The *ab initio* molecular orbital calculations for both the *O*-alkyldithiocarbonate anions and *N,N*-dialkyldithiocarbamate anions reveal that the nature of R has little influence on

(i) the geometry of the respective $^{-}S_2CO$ and $^{-}S_2CN$ moieties, and

(ii) the electronic profiles of the respective $^{-}S_2CO$ and $^{-}S_2CN$ moieties.

Table 8.27 The mulliken electronic density distribution of [$^{-}S_2COR$] optimised using the 6-311++G** basis set[a].

Atom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S1	-0.70047	-0.72984	-0.71473	-0.73906	-0.75400	-0.75830	-0.76722	-0.77797	-0.73951	-0.77147	-0.75423	-0.77362	-0.77300	-0.76420	-0.83731
S2	-0.67940	-0.68387	-0.71038	-0.70410	-0.69914	-0.69552	-0.68159	-0.68743	-0.71386	-0.69563	-0.71336	-0.68864	-0.69447	-0.66549	-0.68126
C1	0.24091	0.32402	0.36538	0.42855	0.44025	0.45998	0.49058	0.48441	0.46442	0.47568	0.50125	0.48457	0.60000	0.51299	0.63339
O1	-0.06963	0.02065	0.12302	0.16866	0.22265	0.19310	0.23728	0.26033	0.32754	0.20065	0.21989	0.22620	0.25235	0.23921	0.22780
C2		-0.27240	-0.16135	-0.29608	-0.18393	-0.51962	-0.51549	-0.57544	-0.22493	-0.63845	-0.60028	-0.64643	-0.17267	-0.86398	-1.79228
C3			-0.54624	-0.32010	-0.47247	-0.31380	0.15374	-0.12427	-0.38750	-0.29422	-0.40145	-0.31467	-0.38939	-0.43798	-0.11462
C4				-0.42957	-0.43521	0.10709	-0.55325	-0.16975	-0.48887	-0.67880	0.51851	-0.08631	-0.31662	-0.71259	-0.54573
C5						-0.64250	-0.55359	-0.54753	-0.48887	0.11311	-0.64273	-0.15118	-0.36975	-0.66974	0.02895
C6										-0.11715	-0.63668	-0.06575	-0.12052	1.13682	-0.64630
C7												-0.69983	-0.60394	-0.57468	1.91482
C8															-0.55585
H	0.20860	0.08952	0.13502	0.10902	0.09999	0.14557	0.14736	0.10727	0.08778	0.09631	0.12318	0.12086	0.13797	0.10904	0.17395
H		0.12595	0.13502	0.09924	0.13991	0.11336	0.14730	0.12439	0.17557	0.13131	0.17104	0.15790	0.17553	0.14915	0.18765
H		0.12595	0.10528	0.15470	0.13901	0.16641	0.11143	0.15623	0.15945	0.12030	0.16799	0.12733	0.15563	0.11287	0.16427
H			0.13449	0.10612	0.08312	0.16169	0.11710	0.08816	0.10628	0.17631	0.13248	0.16889	0.14847	0.12275	0.20596
H			0.13449	0.13974	0.14376	0.12559	0.16189	0.15174	0.14984	0.15930	0.11613	0.15731	0.13265	0.12722	0.23046
H				0.15696	0.13437	0.11541	0.11139	0.12917	0.14984	0.12483	0.14834	0.12370	0.10380	0.11340	0.20303
H				0.12589	0.14166	0.11195	0.16184	0.15128	0.08778	0.10619	0.11366	0.13029	0.14385	0.12823	0.20303
H						0.12509	0.11712	0.13107	0.15945	0.11161	0.11874	0.10109	0.14564	0.12052	
H						0.10448	0.11407	0.09833	0.17557	0.14013	0.11885	0.11953	0.13180	0.14905	
H										0.12145	0.12408	0.12211	0.17521	0.14001	
H										0.11857	0.17455	0.11897	0.13745	0.14688	
H												0.12263		0.18887	
H												0.14501		0.19160	

a, 1=H, 2=Me, 3=Et, 4=nPr, 5=iPr,6=nBu, 7=iBu, 8=1-MePr, 9=tBu, 10=nPen, 11=3-MeBu, 12=Hex, 13=Cy, 14=3,3-Me_2Bu, 15=Benzyl

Table 8.28 The Mulliken electronic density distribution of [$^{-}S_2COR$] optimised using the LANL2DZ basis set[a].

Atom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S1	-0.33598	-0.31219	-0.31111	-0.30754	-0.32189	-0.30627	-0.30474	-0.31780	-0.32056	-0.30564	-0.30048	-0.30587	-0.31787	-0.30608	-0.28856
S2	-0.25922	-0.28229	-0.28343	-0.28412	-0.27942	-0.28435	-0.28427	-0.28038	-0.28193	-0.28449	-0.28494	-0.28128	-0.27636	-0.28047	-0.27232
C1	-0.25323	-0.29175	-0.24055	-0.24163	-0.24296	-0.24225	-0.24224	-0.24551	-0.23818	-0.24243	-0.24079	-0.25366	-0.26299	-0.25373	-0.25229
O1	-0.54345	-0.42715	-0.44149	-0.45145	-0.46522	-0.45123	-0.45933	-0.47782	-0.50386	-0.45137	-0.45987	-0.44124	-0.48130	-0.44540	-0.47083
C2		-0.23804	-0.02587	-0.04698	-0.56033	-0.07715	-0.06730	0.21417	-0.59082	-0.08604	-0.08007	-0.07261	-0.33065	-0.09860	-0.13175
C3			-0.54743	-0.27156	0.20389	-0.26656	-0.57605	-0.58370	0.48649	-0.28145	-0.29786	-0.27786	-0.31612	-0.29697	-0.23930
C4				-0.55994	-0.55740	-0.26256	-0.02226	-0.26168	-0.56364	-0.26282	-0.58258	-0.28556	-0.32905	-0.59902	-0.21484
C5						-0.57209	-0.57605	-0.58008	-0.59082	-0.26047	0.01142	-0.26238	-0.35576	-0.59902	-0.34470
C6										-0.57183	-0.58967	-0.26573	0.19837	0.25724	0.28439
C7												-0.57195	-0.35307	-0.58973	-0.34927
C8															-0.20312
H	0.39188	0.16314	0.17697	0.14791	0.1329	0.13085	0.18094	0.14265	0.12927	0.12360	0.13399	0.16508	0.20969	0.15080	0.20240
H		0.19413	0.17697	0.14292	0.16619	0.21728	0.18094	0.15419	0.24091	0.21108	0.16024	0.16432	0.15957	0.18554	0.19079
H		0.19413	0.13354	0.23099	0.22534	0.12057	0.14016	0.23278	0.17980	0.12277	0.17064	0.16432	0.18601	0.17030	0.19469
H			0.18119	0.12377	0.13157	0.15821	0.15603	0.13412	0.12529	0.15845	0.18482	0.14792	0.15467	0.15080	0.19703
H			0.18119	0.16364	0.19052	0.17047	0.22440	0.16509	0.18903	0.17108	0.13404	0.14792	0.14553	0.17030	0.29897
H				0.17068	0.17666	0.18603	0.14016	0.22605	0.18903	0.18622	0.13509	0.14354	0.13741	0.18554	0.19935
H				0.18328	0.20008	0.16575	0.22440	0.19780	0.12927	0.13074	0.28218	0.14354	0.15396	0.15513	0.19935
H						0.14749	0.15603	0.16009	0.17980	0.15667	0.16296	0.14053	0.15534	0.17003	
H						0.16581	0.12920	0.12000	0.24091	0.17629	0.15937	0.14053	0.15171	0.17003	
H										0.16019	0.15648	0.15925	0.14801	0.16818	
H										0.14944	0.14499	0.15925	0.22288	0.16818	
H												0.12096		0.18347	
H												0.12096		0.18347	

a, 1=H, 2=Me, 3=Et, 4=nPr, 5=iPr,6=nBu, 7=iBu, 8=1-MePr, 9=tBu, 10=nPen, 11=3-MeBu, 12=Hex, 13=Cy, 14=3,3-Me_2Bu, 15=Benzyl

Table 8.29 The natural population analysis electronic density distribution of [$^{-}S_2COR$] optimised using the 6311++G** basis set[a].

Atom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S1	-0.49216	-0.46907	-0.46974	-0.46866	-0.47313	-0.46842	-0.46784	-0.47213	-0.47257	-0.46830	-0.46614	-0.46887	-0.47233	-0.46959	-0.46101
S2	-0.44166	-0.44602	-0.44723	-0.44792	-0.44404	-0.44768	-0.44825	-0.44493	-0.44475	-0.44768	-0.44763	-0.44643	-0.44256	-0.44624	-0.43889
C1	0.10254	0.09917	0.09966	0.09990	0.10253	0.09974	0.10022	0.10256	0.10696	0.09973	0.09922	0.09968	0.10264	0.09944	0.09790
O1	-0.35978	-0.28534	-0.29486	-0.29663	-0.30373	-0.29667	-0.29817	-0.30527	-0.31525	-0.29669	-0.29737	-0.29489	-0.30304	-0.29439	-0.29376
C2		0.03615	0.10808	0.10105	-0.14927	0.10077	0.09587	0.16396	0.25484	0.10100	0.10062	0.10208	-0.05589	0.09663	0.08204
C3			-0.13858	-0.05799	0.17112	-0.06437	-0.1303	-0.06167	-0.16122	-0.06451	-0.07147	-0.06951	-0.05575	-0.07855	-0.05469
C4				-0.12511	-0.14256	-0.05015	0.01821	-0.14941	-0.16122	-0.05698	-0.13681	-0.05376	-0.05608	-0.13689	-0.04283
C5						-0.12382	-0.13031	-0.12638	-0.14372	-0.04602	0.03136	-0.05434	-0.07742	-0.13689	-0.05661
C6										-0.12569	-0.12856	-0.04797	0.15468	0.09968	0.03190
C7												-0.12597	-0.0839	-0.13301	-0.04583
C8															-0.03875
H	0.19107	0.01423	0.0191	0.03139	0.02327	0.02476	0.01778	0.0226	0.02051	0.02312	0.01677	0.03342	0.02702	0.02593	0.02703
H		0.02544	0.0191	0.02327	0.04076	0.05037	0.01776	0.03406	0.06201	0.04892	0.02937	0.03578	0.02902	0.04308	0.02208
H		0.02544	0.02533	0.05612	0.03658	0.01529	0.02178	0.05695	0.03758	0.01533	0.01756	0.03578	0.03323	0.03477	0.02178
H			0.03957	0.01646	0.02273	0.03014	0.03224	0.02295	0.0196	0.03020	0.02003	0.02733	0.01866	0.02593	0.02556
H			0.03957	0.0313	0.03312	0.01802	0.05387	0.03299	0.03857	0.01804	0.02293	0.02733	0.02402	0.03477	0.06236
H				0.01803	0.05307	0.01936	0.02178	0.05361	0.03857	0.01945	0.02845	0.02543	0.02207	0.04308	0.03086
H				0.01879	0.02954	0.0306	0.05386	0.02782	0.02051	0.02047	0.07439	0.02543	0.01821	0.02580	0.03086
H						0.02805	0.03223	0.02814	0.03758	0.02929	0.02811	0.02506	0.01951	0.03314	
H						0.034	0.00928	0.01414	0.06201	0.03972	0.02872	0.02506	0.02621	0.03314	
H										0.03400	0.02962	0.03199	0.02606	0.03106	
H										0.02659	0.02084	0.03199	0.04564	0.03106	
H												0.01769		0.01903	
H												0.01769		0.01903	

a, 1=H, 2=Me, 3=Et, 4=nPr, 5=iPr,6=nBu, 7=iBu, 8=1-MePr, 9=tBu, 10=nPen, 11=3-MeBu, 12=Hex, 13=Cy, 14=3,3-Me_2Bu, 15=Benzyl

Table 8.30 The natural population analysis electronic density distribution of [$^{-}S_2COR$] optimised using the LANL2DZ basis set[a].

Atom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S1	-0.49185	-0.47405	-0.47503	-0.47444	-0.47833	-0.47368	-0.47299	-0.47718	-0.47838	-0.47354	-0.47105	-0.47411	-0.47728	-0.47468	-0.46641
S2	-0.43636	-0.44081	-0.44189	-0.44136	-0.43899	-0.44228	-0.44284	-0.43988	-0.43959	-0.44230	-0.44228	-0.44073	-0.43757	-0.44050	-0.43358
C1	0.11396	0.10979	0.11005	0.11032	0.11256	0.11012	0.11072	0.11264	0.11767	0.11011	0.10981	0.11005	0.11294	0.09123	0.10893
O1	-0.36776	-0.29118	-0.30105	-0.30158	-0.31091	-0.30315	-0.30494	-0.31270	-0.32358	-0.30316	-0.30423	-0.30127	-0.31067	-0.30097	-0.30039
C2		0.02939	0.10317	0.09676	-0.15105	0.09518	0.08981	0.16283	0.25367	0.09543	0.09550	0.09646	-0.05476	-0.13830	0.07418
C3			-0.14014	-0.06232	0.17033	-0.06450	-0.13111	-0.15123	-0.16279	-0.06464	-0.13809	-0.06959	-0.05464	-0.13830	-0.04162
C4				-0.12381	-0.14479	-0.04808	0.02057	-0.12623	-0.16279	-0.05561	-0.07231	-0.05223	-0.07792	-0.07995	-0.05593
C5						-0.12394	-0.13111	-0.06199	-0.14724	-0.04429	0.03486	-0.05338	0.15326	0.10456	0.03261
C6										-0.12575	-0.12942	-0.04619	-0.08393	-0.13450	-0.04412
C7												-0.12600	-0.05466	0.10456	-0.03761
															-0.05321
H	0.18200	0.01509	0.01895	0.02713	0.02273	0.02403	0.01782	0.02264	0.02056	0.02253	0.01694	0.03323	0.02392	0.02614	0.02590
H		0.02588	0.01895	0.03368	0.03373	0.05054	0.01782	0.03328	0.06260	0.04928	0.02974	0.03571	0.02970	0.04301	0.02092
H		0.02588	0.02602	0.03368	0.05483	0.01541	0.02188	0.05796	0.03815	0.01544	0.01762	0.03571	0.03340	0.03492	0.02057
H			0.04048	0.03348	0.02401	0.03062	0.03197	0.02295	0.02080	0.03066	0.01980	0.02666	0.01815	0.02614	0.02453
H			0.04048	0.03348	0.04169	0.01811	0.05502	0.03358	0.03982	0.01815	0.02313	0.02666	0.02346	0.03492	0.06283
H				0.01749	0.03783	0.01933	0.02187	0.05540	0.03982	0.01939	0.02717	0.02497	0.02172	0.04300	0.03121
H				0.01749	0.02639	0.03039	0.05502	0.02472	0.02056	0.01972	0.07635	0.02497	0.01760	0.02596	0.03121
H						0.02791	0.03197	0.02897	0.03815	0.02904	0.02815	0.02457	0.01895	0.03318	
H						0.03397	0.00852	0.01423	0.06260	0.03973	0.02851	0.02457	0.02556	0.03318	
H										0.03382	0.02940	0.03229	0.02601	0.03160	
H										0.02597	0.02045	0.03229	0.04678	0.03160	
H												0.01767		0.01895	
H												0.01767		0.01895	

a, 1=H, 2=Me, 3=Et, 4=nPr, 5=iPr,6=nBu, 7=iBu, 8=1-MePr, 9=tBu, 10=nPen, 11=3-MeBu, 12=Hex, 13=Cy, 14=3,3-Me_2Bu, 15=Benzyl

Table 8.31 The Mulliken electronic density distribution of [$^{-}S_2CNR_2$] optimised using the 6-311++G** basis set[a].

Atom	1	2	3	4	5	6	7	8
S1	-0.97429	-0.89450	-0.88251	-0.92212	-0.82239	-0.93244	-0.89851	-0.85426
S2	-0.97432	-0.89027	-0.88249	-0.92225	-0.82241	-0.93262	-0.89854	-0.85429
C1	0.88143	0.60508	0.61031	0.75484	0.77267	0.82942	0.83635	1.21377
N1	-0.46164	0.16450	0.41735	0.58592	0.64778	0.67862	0.74801	1.11088
C1		-0.33414	-0.43675	-0.76533	-0.13641	-0.79127	-1.08766	0.08459
C2		-0.33269	-0.26916	0.38355	-0.64884	0.32638	0.96348	-0.55062
C3			-0.26917	-0.73431	-0.48003	-0.26428	-0.71796	-0.75399
C4			-0.43674	-0.73430	-0.13664	-0.70534	-0.76672	0.01963
C5				0.38359	-0.64868	-0.79141	-1.08753	-0.70895
C6				-0.76536	-0.48005	0.32649	0.96348	-0.40572
C7						-0.26428	-0.71796	0.08459
C8						-0.70545	-0.76671	-0.55065
C9								-0.75401
C10								0.01964
C11								-0.70897
C12								-0.40569
C13								0.01493
H	0.26441	0.05572	0.11182	0.11868	0.10358	0.08899	0.11509	0.14198
H	0.26441	0.13461	0.08014	0.13477	0.11228	0.18509	0.18110	0.18795
H		0.15041	0.15437	0.10832	0.14477	0.08485	0.14773	0.14344
H		0.06655	0.08014	0.11868	0.12653	0.18509	0.12699	0.16274
H		0.14577	0.15436	0.13478	0.15880	0.08487	0.11071	0.10322
H		0.12895	0.11182	0.10832	0.12628	0.08902	0.13988	0.15786
H			0.07242	0.09647	0.10357	0.13873	0.12699	0.14749
H			0.15582	0.18057	0.11227	0.13876	0.11071	0.17571
H			0.07241	0.08294	0.14475	0.11375	0.13987	0.12222
H			0.15583	0.18061	0.12655	0.11873	0.11507	0.14945
H				0.08293	0.15881	0.13957	0.18111	0.01494
H				0.09647	0.12629	0.11374	0.14773	0.14198
H				0.14609	0.10529	0.11874	0.10067	0.18795
H				0.14610	0.10521	0.13958	0.10066	0.14344
H						0.10913	0.12931	0.16273
H						0.13414	0.16367	0.10322
H						0.13418	0.12929	0.15786
H						0.10914	0.16373	0.14749
H								0.17571
H								0.12222
H								0.14946

a, 1=H, 2=Me, 3=Et, 4=nPr, 5=iPr, 6=nBu, 7=iBu, 8=Cy, 9= Cy, Et, 10=Cy, iPr.

Table 8.31 Cont.

Atom	9	10
S1	-0.77245	-0.79394
S2	-0.89289	-0.80148
C1	0.80822	0.76967
N1	0.84898	0.99294
C1	-0.05384	0.25711
C2	-0.52803	-0.64344
C3	-1.25276	-0.64313
C4	-0.42011	-1.08550
C5	0.05314	0.11815
C6	0.28869	-0.55177
C7	-0.64556	-0.46431
C8	-0.46647	-0.55102
C9		0.11983
C10		
C11		
C12		
C13		
H	-0.04789	0.08151
H	0.13623	0.13980
H	0.16172	0.09095
H	0.14817	0.18943
H	0.15681	0.09088
H	0.10461	0.13983
H	0.14583	0.18944
H	0.14484	-0.15564
H	0.15695	0.17723
H	0.12631	0.13760
H	0.19170	0.16838
H	0.16960	0.14577
H	0.08535	0.14758
H	0.09161	0.10518
H	0.11153	0.14578
H	0.14968	0.16838
H		0.13765
H		0.17709
H		
H		
H		

Table 8.32 The Mulliken electronic density distribution of [$^{-}S_2CNR_2$] optimised using the LANL2DZ basis set[a].

Atom	1	2	3	4	5	6	7	8
S1	-0.34529	-0.33055	-0.33436	-0.33175	-0.32681	-0.33064	-0.32168	-0.32168
S2	-0.34529	-0.33055	-0.33436	-0.33174	-0.32681	-0.33063	-0.32168	-0.32168
C1	-0.31354	-0.35992	-0.37735	-0.40212	-0.39261	-0.41057	-0.40587	-0.44724
N1	-0.68254	-0.26441	-0.28912	-0.29965	-0.39659	-0.29261	-0.32569	-0.44321
C2		-0.41527	-0.18369	-0.19419	0.13210	-0.22613	-0.21680	0.15711
C3		-0.41527	-0.53187	-0.23970	-0.58820	-0.23502	0.01529	-0.33442
C4			-0.18370	-0.57997	-0.57099	-0.26760	-0.59182	-0.32043
C5			-0.53187	-0.19427	0.13211	-0.57652	-0.56725	-0.35017
C6				-0.57999	-0.58822	-0.22623	-0.21679	-0.34285
C7				-0.23966	-0.57098	-0.23497	0.01528	-0.34425
C8						-0.26761	-0.56726	0.15711
C9						-0.57653	-0.59182	-0.33443
C10								-0.32043
C11								-0.35017
C12								-0.34285
C13								-0.34425
H	0.34333	0.12895	0.14502	0.16080	0.14338	0.12043	0.24775	0.21667
H	0.34333	0.21449	0.13705	0.18084	0.15038	0.23817	0.14384	0.22331
H		0.21455	0.22892	0.14643	0.22528	0.13331	0.13059	0.13482
H		0.12894	0.1370	0.16080	0.15629	0.23818	0.15753	0.15871
H		0.21440	0.22890	0.18084	0.19171	0.13332	0.15804	0.17131
H		0.21463	0.14502	0.14644	0.15226	0.12044	0.17593	0.14750
H			0.13646	0.12741	0.14338	0.20986	0.21460	0.15291
H			0.2357	0.23425	0.15036	0.20992	0.19084	0.13313
H			0.13645	0.13193	0.22528	0.15623	0.12890	0.14670
H			0.23572	0.23424	0.15630	0.15721	0.14384	0.18511
H				0.13193	0.19172	0.17730	0.24775	0.13173
H				0.12739	0.15226	0.15624	0.13059	0.21666
H				0.21489	0.22918	0.15721	0.21460	0.22331
H				0.21483	0.22918	0.17729	0.12891	0.17131
H						0.12975	0.19083	0.14750
H						0.16522	0.15753	0.15291
H						0.16523	0.15804	0.13313
H						0.12973	0.17593	0.15871
H								0.14670
H								0.18511
H								0.13173
H								0.13481

a 1=H, 2=Me, 3=Et, 4=nPr, 5=iPr, 6=nBu, 7=iBu, 8=Cy, 9= Cy, Et, 10=Cy, iPr.

Table 8.32 Cont.

Atom	9	10
S1	-0.32648	-0.32121
S2	-0.33147	-0.33286
C1	-0.41692	-0.42434
N1	-0.35530	-0.39234
C2	-0.17993	0.17404
C3	-0.54962	-0.57700
C4	0.11721	-0.57702
C5	-0.32942	0.11450
C6	-0.33264	-0.33040
C7	-0.32021	-0.33642
C8	-0.33932	-0.32006
C9	-0.32955	-0.33641
C10		-0.33037
C11		
C12		
C13		
H	0.13484	0.13033
H	0.23161	0.12259
H	0.15584	0.24116
H	0.23621	0.16806
H	0.13379	0.24115
H	0.23871	0.12260
H	0.21758	0.16808
H	0.12323	0.23561
H	0.16368	0.19889
H	0.14851	0.12753
H	0.13269	0.16189
H	0.15496	0.14774
H	0.14782	0.13248
H	0.15663	0.15555
H	0.13039	0.14774
H	0.18712	0.16193
H		0.19903
H		0.12749
H		
H		
H		

Table 8.33 The natural population analysis electronic density distribution of $[^{-}S_2CNR_2]$ optimised using the 6-311++G** basis set[a].

Atom	1	2	3	4	5	6	7	8
S1	-0.49138	-0.47588	-0.47682	-0.47586	-0.46724	-0.47556	-0.46901	-0.46526
S2	-0.49137	-0.47498	-0.47682	-0.47586	-0.46725	-0.47556	-0.46900	-0.46526
C1	0.09839	0.06990	0.07318	0.07270	0.07337	0.07257	0.07587	0.07341
N1	-0.44213	-0.27244	-0.28646	-0.28650	-0.30197	-0.28599	-0.28863	-0.30065
C2		-0.00772	0.06252	0.05677	0.11870	0.05663	0.03911	0.10110
C3		-0.00920	-0.13546	-0.06098	-0.14026	-0.06764	0.02038	-0.07514
C4			0.06252	-0.12344	-0.13889	-0.04650	-0.12890	-0.05585
C5			-0.13546	0.05677	0.11867	-0.12463	-0.13360	-0.05717
C6				-0.06098	-0.14025	0.05663	0.03912	-0.05585
C7				-0.12344	-0.13889	-0.06764	0.02038	-0.07202
C8						-0.04651	-0.13360	0.10110
C9						-0.12463	-0.12890	-0.07515
C10								-0.05585
C11								-0.05717
C12								-0.05558
C13								-0.07202
H	0.16325	0.01443	0.02555	0.02626	0.05702	0.01770	0.05787	0.05415
H	0.16325	0.04955	0.02072	0.03719	0.02179	0.04881	0.00543	0.04367
H		0.02087	0.05323	0.02558	0.02303	0.00556	0.01067	0.01637
H		0.01386	0.02072	0.02626	0.04987	0.04881	0.02747	0.02753
H		0.01748	0.05322	0.03719	0.02512	0.00555	0.02376	0.03135
H		0.05415	0.02555	0.02558	0.02603	0.01770	0.03541	0.01720
H			0.00638	0.01915	0.03915	0.04681	0.05341	0.01819
H			0.05052	0.04878	0.05703	0.04679	0.04600	0.01875
H			0.00637	0.00535	0.03916	0.02743	0.01836	0.01631
H			0.05052	0.04876	0.02603	0.03108	0.00543	0.03243
H				0.00536	0.02512	0.03813	0.05786	0.01759
H				0.01915	0.04986	0.02743	0.01068	0.05415
H				0.04810	0.02300	0.03108	0.05342	0.04367
H				0.04811	0.02180	0.03814	0.01837	0.03134
H						0.01844	0.04599	0.01719
H						0.03045	0.02748	0.01819
H						0.03046	0.02376	0.01876
H						0.01844	0.03541	0.02753
H								0.01631
H								0.03243
H								0.01759
H								0.01638

a 1=H, 2=Me, 3=Et, 4=nPr, 5=iPr, 6=nBu, 7=iBu, 8=Cy, 9= Cy, Et, 10=Cy, iPr.

Table 8.33 Cont.

Atom	9	10
S1	-0.46923	-0.46622
S2	-0.47294	-0.46995
C1	0.07267	0.07435
N1	-0.29286	-0.29810
C1	0.06236	0.14522
C2	-0.13666	-0.14339
C3	0.10251	-0.14340
C4	-0.07333	0.09618
C5	-0.05723	-0.07216
C6	-0.05569	-0.05664
C7	-0.05609	-0.05560
C8	-0.07150	-0.05665
C9		-0.07217
C10		
C11		
C12		
C13	0.00851	0.00628
H	0.04493	0.01684
H	0.02647	0.06117
H	0.05669	0.03306
H	0.02023	0.06117
H	0.05519	0.01685
H	0.04155	0.03308
H	0.01491	0.05927
H	0.02915	0.03532
H	0.01792	0.01561
H	0.01944	0.02849
H	0.01836	0.01718
H	0.01707	0.01921
H	0.02708	0.01833
H	0.01796	0.01719
H	0.0325	0.0285
H		0.03538
H		0.01559
H		
H		
H		
H		

Table 8.34 The natural population analysis electronic density distribution of $[^{-}S_2CNR_2]$ optimised using the LANL2DZ basis set[a].

Atom	1	2	3	4	5	6	7	8
S1	-0.49546	-0.48552	-0.48323	-0.48268	-0.47497	-0.48254	-0.47688	-0.47330
S2	-0.49546	-0.48551	-0.48323	-0.48268	-0.47497	-0.48254	-0.47688	-0.47330
C1	0.11196	-0.00493	0.08486	0.08488	0.08568	0.08472	0.08773	0.08581
N1	-0.44819	-0.27654	-0.29029	-0.29079	-0.30825	-0.29014	-0.29257	-0.30686
C2		0.08090	-0.13590	-0.12378	0.12358	0.05731	0.04057	0.10505
C3		-0.00492	0.06397	-0.05906	-0.14157	-0.06646	0.02365	-0.07477
C4			0.06397	0.05747	-0.14054	-0.04479	-0.12993	-0.05433
C5			-0.13590	0.05747	0.12358	-0.12477	-0.13478	-0.05597
C6				-0.05905	-0.14157	0.05731	0.04056	-0.05482
C7				-0.12378	-0.14054	-0.06646	0.02365	-0.07207
C8						-0.04479	-0.13478	0.10505
C9						-0.12477	-0.12993	-0.07477
C10								-0.05433
C11								-0.05597
C12								-0.05482
C13								-0.07207
H	0.16357	0.01607	0.02589	0.02553	0.05477	0.01732	0.00621	0.05207
H	0.16357	0.03608	0.02101	0.02649	0.02255	0.04847	0.05666	0.03223
H		0.03611	0.05451	0.03743	0.05135	0.00600	0.00997	0.01795
H		0.01607	0.02101	0.02649	0.02338	0.04847	0.02727	0.01603
H		0.03603	0.05450	0.03743	0.02600	0.00602	0.02427	0.02726
H		0.03616	0.02590	0.02554	0.02706	0.01733	0.03556	0.01777
H			0.00664	0.01873	0.03969	0.04748	0.05469	0.01837
H			0.04983	0.04839	0.05478	0.04752	0.04662	0.01695
H			0.00664	0.00583	0.05135	0.02737	0.01853	0.03136
H			0.04983	0.04839	0.02339	0.03103	0.05666	0.01607
H				0.00582	0.02254	0.03837	0.00621	0.04467
H				0.01871	0.02705	0.02738	0.00997	0.05207
H				0.04862	0.02600	0.03104	0.04662	0.01606
H				0.04858	0.03968	0.03836	0.01853	0.04467
H						0.01773	0.05469	0.01696
H						0.03016	0.03556	0.03137
H						0.03016	0.02427	0.01777
H						0.01772	0.02727	0.01837
H								0.01603
H								0.02726
H								0.03223
H								0.01795

a 1=H, 2=Me, 3=Et, 4=nPr, 5=iPr, 6=nBu, 7=iBu, 8=Cy, 9= Cy, Et, 10=Cy, iPr.

Table 8.34 Cont.

Atom	9	10
S1	-0.47707	-0.47736
S2	-0.48026	-0.47363
C1	0.08532	0.08709
N1	-0.29787	-0.30342
C2	0.06369	0.14736
C3	-0.13758	-0.14529
C4	0.10589	-0.14528
C5	-0.07268	0.09965
C6	-0.05621	-0.07202
C7	-0.05464	-0.05548
C8	-0.05482	-0.05454
C9	-0.07148	-0.05548
C10		-0.07201
C11		
C12		
C13		
H	0.00844	0.00497
H	0.04510	0.01739
H	0.02643	0.06311
H	0.05824	0.03305
H	0.02083	0.03306
H	0.05361	0.06311
H	0.01491	0.01739
H	0.04209	0.05800
H	0.01770	0.03542
H	0.02900	0.01599
H	0.01912	0.02833
H	0.01796	0.01700
H	0.01682	0.01797
H	0.02685	0.01893
H	0.03223	0.02832
H	0.01838	0.01700
H		0.03537
H		0.01601
H		
H		
H		
H		

CONCLUSIONS

The systematic investigation of the crystal and molecular structures of a series of nickel(II) and tellurium(II) bis(xanthates and bis(dithiocarbamates) showed, conclusively, that no significant influence on molecular structure and on the geometric parameters describing the central atom geometry was exerted by the ligand-bound R substituents. This result was supported by *ab initio* molecular orbital calculations performed on the uncoordinated xanthate and dithiocarbamate anions.

Thus, neither the steric bulk nor the electronic profile of the respective R groups in both xanthate and dithiocarbamate ligands have little influence on the coordination ability of these ligands. Despite the above structural diversity was observed in the bis(xanthate) and bis(dithiocarbamate) compounds of zinc(II), cadmium(II) and mercury(II).

Of the three systems studied, the cadmium bis(1,1-dithiolates) displayed the least structural diversity. There was one motif only for $Cd(S_2COR)_2$ and two, closely related, for $Cd(S_2CNR_2)_2$.

The zinc(II) compounds displayed several motifs. It is apparent that the steric profiles of the ligands play a significant role in determining the ultimate structure adopted in the solid state. This is supported by the results of the related mercury(II) compounds for which more structures are available for examination.

The mercury(II) bis(1,1-dithiolate) compounds showed the greatest structural diversity. The different structures in each series may be explained in terms of a trade

off between the requirements of satisfying the valency of the mercury(II) centre and the need to maximise intermolecular forces, *i.e.* packing efficiency.

The systematic analysis of structures for which no structural diversity is observed and those where this phenomenon is found illustrates the importance of the careful consideration of intermolecular forces/crystal packing effects when describing molecular structure.

Crystal packing effects may exert a significant influence on molecular structure in heavy element systems such as those of zinc(II), cadmium(II) and mercury(II).

REFERENCES

Abrahams, B.F.; Hoskins, B.F.; Tiekink, E.R.T.; Winter, G.: Investigation of a new xanthate ligand. The crystal and molecular structures of nickel and cadmium (methoxyethyl)xanthates. Aust. J. Chem. **41** (1988) 1117-1122.

Agre, V.M.; Shugam, E.A.: Structures of inner complex compounds with M-S bonds. 8. An X-ray structure study of cadmium hexamethylenedithiocarbamate. Kristallografiya **17** (1972a) 256 - 261.

Agre, V.M.; Shugam, E.A.: Structures of inner complex compounds with M-S bonds. 9. Crystal and molecular structures of zinc hexamethylenedithiocarbamate. Z. Struk. Khim. **13** (1972b) 660 - 664.

Benedetti, A.; Fabretti, A.C.; Preti, C.: Structure, IR, and NMR spectra of tetrakis(4-methylpiperidinedithiocarbamate) dimercury(II). J. Cryst. Spect. Res. **18** (1988) 685 - 692.

Beurskens, P.T.; Admiraal, G.; Beurskens, G.; Bosman, W.P.; García-Granda, S.; Smits, J.M.M.; Smykalla, C.: The DIRDIF program system, Technical Report of the Crystallography Laboratory, University of Nijmegen, The Netherlands, 1992.

Bonamico, M.; Mazzone, G.; Vaciago, A.; Zambonelli, L.: Structural studies of metal dithiocarbamates. III. The crystal and molecular structure of zinc diethyldithiocarbamate. Acta Crystallogr. **19** (1965) 898 - 909.

Bondi, A.: van der Waals volumes and radii. J. Phys. Chem. **68** (1964) 414 - 451.

Brown, D.; Glass, W. K.; Burke, M.A.: General use of IR spectral criteria in discussions of the bonding and structure of metal dithiocarbamates. Spectrochim. Acta **32** (1976) 137 – 143.

Buntine, M.A.; Hall, V.J.; Tiekink, E.R.T.: The crystal and molecular structures of R_2SnCl_2(1,10-phenanthroline), R = iPr, Cy, CH_2Ph and R_2 = Me, Ph: a comparison between solid state and theoretical structures. Z. Kristallogr. **213** (1998) 669.

Buntine, M.A.; Hall, V.J.; Kosovel, F.J.; Tiekink, E.R.T.: Influence of crystal packing on molecular geometry: a crystallographic and theoretical investigation of selected diorganotin systems. J. Phys. Chem. A, **102** (1998) 2472 - 2482.

Calligaris, M.; Nardin, G.; Ripamonti, A.: Crystal and molecular structure of zinc(II) and cobalt(II) diethyldithiophosphinates. J. Chem. Soc. (1970) 714 - 722.

Casas, J.; Castiñeiras, A.; Garcia-Tasende, M.S.; Sánchez, A.; Sordo, J.; Vázquez-López, E.M.: The X-ray crystal structure of bis(dicyclohexyldithiophosphato)cadmium(II). Polyhedron **14** (1995) 2055 - 2058.

Casas, J.S.; García-Tasende, M.S.; Sánchez, A.; Sordo, J.; Vázquez-López, E.M.; Castellano, E.E.; Zukerman-Schpector, J.: Synthsis, crystal structure and spectroscopic properties of bis(diphenyldithiophosphinato)cadmium(II). Inorg. Chim. Acta. **219** (1994) 115 - 119.

Casas, J.S.; Sánchez, A.; Bravo, J.; García-Fontán, S.; Castellano, E.E.; Jones, M.M.: Cadmium coordination chemistry related to chelate therapy. Inorg. Chim. Acta. **158** (1989) 119 - 126.

Chen, H.W.; Fackler, J.P.: Sulfur chelates. 30. Crystal and molecular structures of aryl xanthates. Bis(*O*-4-*tert*-butylphenyl dithiocarbanato)nickel(II), $Ni(S_2COC_6H_4$-t-$Bu)_2$, tris(*O*-2,4,6-trimethylphenyl dithiocarbonato)cobalt(III), $Co(S_2COC_6H_2$-2,4,6-$Me_3)_3$, and bis(*O*-2,4,6-trimethylphenyl dithiocarbonato)palladium(II), $Pd(S_2COC_6H_2$-2,4,6-$Me_3)_2$. Inorg. Chem. **17** (1978) 22 - 26.

Chieh, C.; Cheung, S.K.: A crystallographic and spectroscopic study of mercury(II) dithiocarbamate. Can. J. Chem. **59** (1981) 2746 - 2749.

Chieh, C.; Moynihan, K.J.: Xanthate and dithiocarbamate complexes of group IIb elements, and an interesting relationship between two mercury(II) ethylxanthate phases. Acta Crystallogr. **B36** (1980) 1367 - 1371.

Christidis, P.C.: Structure of bis (*N*-Acetyl-*N*-benzyldithiocarbamato)nickel(II). Acta Crystallogr. **C42** (1986) 781 - 783.

Cotton, F.A.; Yokochi, A.: The apparent flexibility of bonds in paddlewheel-type compounds. Inorg. Chem. **36** (1997) 2461 - 2462.

Coucouvanis, D.: The chemistry of the dithioacid and 1,1-dithiolate complexes. Prog. Inorg. Chem **11** (1970) 232 - 371.

Coucouvanis, D.: The chemistry of the dithioacid and 1,1-dithiolate complexes, 1968-1977. Prog. Inorg. Chem. **22** (1979) 301 - 469.

Domenicano, A.; Torelli, L.; Vaciago, A.; Zambonelli, L.: Structural studies of metal dithiocarbamates. Part IV. The crystal and molecular structure of cadmium(II) *N*,*N*-diethyldithiocarbamate. J. Chem. Soc. (A). (1968) 1351 - 1361.

Dunning Jr; T.H.; Hay, P.J. Modern Theoretical Chemistry, Vol. 3. Methods of Electronic Structure Theory. Schaefer III, H.F. (Ed.) Plenum, New York, 1976,1.

Edwards, A.J.; Hoskins, B.F.; Winter, G.: The structures of bis(*O*-benzyl-xanthato)nickel(II) and the benzene clathrate of its 1,10-phenanthroline adduct. Aust. J. Chem. **39** (1986) 1983 - 1991.

Eisenberg, R.: Structural systematics of 1,1- and 1,2-dithiolato chelates. Prog. Inorg. Chem. **22** (1970) 295 - 369.

Engelhardt, L.M.; Patrick, J.M.; White, A.H.: Crystal structures of bis(pyrrolidinedithiocarbamato)-nickel(II) and -copper(II) (redeterminations). Aust. J. Chem. **38** (1985) 1413 - 1416.

Fabianič ,C.; Spagna, R.; Vaciago, A.; Zambonelli, L.: Structural studies of metal dithiocarbamates. V. The crystal and molecular stucture of bis-(*N*,*N*-diethyldithiocarbamato)tellurium(II). Acta Cryst. **B27** (1971) 1499 - 1504.

Francetič , V.; Leban, I.: The crystal structure of bis(pyrrolidine-carbodithioato)-zinc(II). Vestn. Slov. Kem Drus. **26** (1979) 113 - 122.

Gable, R.W.; Hoskins, B.F.; Winter, G.: Reversible and non-reversible inclusion compounds of the nickel xanthate adducts with 4,4'-bipyridyl and with 2,2-dipyridylamine. Inorg. Chim. Acta **96** (1985) 151 - 159.

Ganesh, V.; Seshasayee, M.; Chidambaram, SP.; Aravamudan, G.; Goubitz, K.; Schenk, H.: Structure of bis(dipropyldithiocarbamato)tellurium(II). Acta Crystallogr. **C45** (1989) 1506 - 1509.

Gasparri, G.F.; Nardelli, M.; Villa, A.: The crystal and molecular structure of nickel bis(dithiocarbamate). Acta Crystallogr. **23** (1967) 384 - 391.

Gaussian 94, Revision D.3, Frisch, M.J.; Trucks, G.W.; Schlegel, H.B.; Gill, P.M.W.; Johnson, B.G.; Robb, M.A.; Cheeseman, J.R.; Keith, T.; Petersson, G.A.; Montgomery, J.A.; Raghavachari, K.; Al-Laham, M.A.; Zakrzewski, V.G.; Ortiz, J.V.; Foresman, J.B.; Cioslowski, J.; Stefanov, B.B.; Nanayakkara, A.; Challacombe, M.; Peng, C.Y.; Ayala, P.Y.; Chen, W.; Wong, M.W.; Andres, J.L.; Replogle, E.S.; Gomperts, R.; Martin, R.L.; Fox, D.J.; Binkley, J.S.; Defrees, D.J.; Baker, J.; Stewart, J.P.; Head-Gordon, M.; Gonzalez, C; Pople, J.A. Gaussian Inc., Pittsburgh PA, U.S.A., 1995.

Glendening, E. D.; Reed, A. E.; Carpenter, J.E.; Weinhold, F.: NBO, Version 3.1.

Graver, H.; Husebye, S.: The crystal and molecular structure of tellurium di(methylxanthate). Acta Chem. Scand. **A29** (1975) 14 - 20.

Haiduc, I.; King, R.B.; Newton, M.G.: Stereochemical aspects of tellurium complexes with sulfur ligands: molecular compounds and supramolecular associations. Chem. Rev. **94** (1994) 301 - 326.

Haiduc, I.; Sowerby, D.B.; Lu, S.-F.: Stereochemical aspects of phosphor-1,1-dithiolato metal complexes (dithiophosphates, dithiophosphinates): coordination patterns, molecular structures and supramolecular associations-I. Polyhedron **14** (1995) 3389 - 3472.

Hay, P.J.; Wadt, W.R.: *Ab initio* effective core potentials for molecular calculations. Potentials for the transition metal atoms Sc to Hg. J. Chem. Phys. **82** (1985a) 270 - 283.

Hay, P.J.; Wadt, W.R.: *Ab initio* effective core potentials for molecular calculations. Potentials for K to Au including the outermost core orbitals. J. Chem. Phys. **82** (1985b) 299 - 310.

Healy, P.C.; White, A.H.: Crystal structure of bis(*NN*-diethyldithiocarbamato)-mercury(II). J Chem. Soc., Dalton Trans (1973) 284-287.

Herring, F.G.; Park, J.M.; Rettig, S.J.; Trotter, J.: X-ray crystallographic study of Ni(II) bis(morpholine-*N*-carbodithioate) and epr studies of Cu(II) bis(morpholine-N-carbodithioate) and Cu(II) bis(pyrrolidine-N-carbodithioate). Can. J. Chem. **57** (1979) 2379 - 2385.

Hoskins, B.F.; Tiekink, E.R.T.; Winter, G.: The preparation and characterization of mixed dithiolate ligand complexes: the crystal and molecular structure of (O-ethylxanthato)(*N*,*N'*-diethyldithiocarbamato)tellurium(II). Inorg. Chim. Acta **105** (1985a) 171 - 176.

Hoskins, B.F.; Tiekink, E.R.T.; Winter, G.: The crystal structure of *bis*(*O*-ethyl-xanthato)nickel(II): a redetermination of the orthorhombic modification. Z. Kristallogr. **172** (1985b) 257 - 261.

Hoskins, B.F.; Tiekink, E.R.T.; Winter, G.: The crystal and molecular structure of bis(*O*-isopropylxanthato)tellurium(II). Inorg. Chim. Acta **96** (1985c) L79 - L81.

Hounslow, A.M.; Tiekink, E.R.T.: Correlations between nuclear magnetic resonance spectra and crystal structure. III. A ^{13}C nuclear magnetic resonance study in the

solid state of bis(xanthato) complexes of mercury(II); The crystal and molecular structure of bis(*n*-propyl-dithiocarbonato)mercury(II). J. Cryst Spect. Res. **21** (1991) 133 - 137.

Husebye, S.: The crystal and molecular structure of tellurium di(ethylxanthate). Acta Chem. Scand. **21** (1967) 42 - 52.

Husebye, S.: The crystal structure of tellurium di(morpholyldithiocarbamate). Acta Chem. Scand. **24** (1970) 2198 - 2210.

Iimura, Y.: Crystal structure of cadmium isopropylxanthate. Sci. Pap. Inst. Phys. Chem. Res. (Jpn) **67** (1973) 43 – 46.

Iimura, Y.; Ito, T.; Hagihara, H.: The crystal structure of cadmium ethylxanthate. Acta Crystallogr. **B28** (1972) 2271 - 2279.

Ikeda, T.; Hagihara, H.: The Crystal structure of zinc ethylxanthate. Acta Crystallogr. **21** (1966) 919 - 927.

Ito, M.; Iwasaki, H.: The structure of the monomeric form of mercury(II) *N*,*N*-diisopropyldithiocarbamate. [bis(*N*,*N*-diisopropyldithiocarbamato)mercury(II)]. Acta Crystallogr. **B35** (1979) 2720 - 2721.

Ito, T.: The crystal structure of zinc isopropylxanthate. Acta Crystallogr. **B28** (1972) 1697 - 1704.

Ito, T.; Igarashi, T.; Hagihara, H.: The crystal structure of metal diethyldithiophosphates 1. Zinc diethyldithiophosphate. Acta Crystallogr. **B25** (1969) 2303 - 2309.

Iwasaki, H.: The crystal structures of dimeric and monomeric forms of mercury(II) *N*,*N*-diethyldithiocarbamate, $Hg_2(S_2CNEt_2)_4$ and $Hg(S_2CNEt_2)_2$. Acta Crystallogr. **B29** (1973) 2115 - 2124.

Johnson, C.K.: ORTEPII. Report ORNL-5138, Oak Ridge National Laboratory, Tennessee 1976.

Kameníč ek, J.; Pastorek, R.; Bř ezina, F.; Kratochvíl, B.; Trávníč ek, Z.: Determination of the stucture of bis(propyldithiocarbamate)nickel(II). Coll. Czech. Chem. Commun. **55** (1990) 1010 - 1014.

Kellö, E.; Vrábel, V.; Kettmann, V.; Garaj, J.: The crystal and molecular structure of the complex of zinc(II) with di-μ-diallyldithiocarbamte-bis(diallyldithiocarbamate). Coll. Czech. Chem. Comm. **48** (1983) 1272 - 1280.

Kettmann, V.; Garaj, J.; Kúdela, S.: The crystal structure of nickel(II) cyclopentamethylenedithiocarbamate. Coll. Czech. Chem. Commun. **43** (1978) 1204 - 1213.

Khan, M.N.I.; Fackler, J. P.; Murray, H.H.; Heinrich, D.D.; Campana, C.: Structure of the beta form of bis(diethyldithiocarbamato)nickel(II). Acta Crystallogr. **C43** (1987) 1917 - 1919.

Klug, H.P.: The crystal structure of zinc dimethyldithiocarbamate. Acta Crystallogr. **21** (1966) 536 - 546.

Kumar, V.; Aravamudan, G.; Seshasayee, M.; Selvam, P.; Yvon, K.: Structure of bis(diisopropyldithiocarbamato)tellurium(II). Acta Crystallogr. **C46** (1990) 2081 - 2083.

Lawton, S.L.: The crystal and molecular structure of the polymeric complex mercuric *O,O'*-diisopropyl phosphorodithioate, $Hg[i\text{-}C_3H_7O)_2PS_2]_2$. Inorg. Chem. **10** (1971) 328 - 335.

Lawton, S.L.; Kokotailo, G.T.: The crystal and molecular structures of zinc and cadmium *O,O*-diisopropylphosphorodithioates. Inorg. Chem. **8** (1969) 2410 - 2421.

Lokaj, J.; Garaj, J.; Kettmann, V.; Vrábel, V.: The crystal structure of nickel(II) dimethyldithiocarbamate. Coll. Czech. Chem. Comm. **45** (1980) 2147 - 2151.

Lokaj, J.; Pavelč ík, F.; Kettmann, V.; Masaryk, J.; Vrábel, V.; Garaj, J.: Structure of bis(diallyldithiocarbamato)nickel(II). Acta Crystallogr. **B37** (1981) 926 - 928.

Lokaj, J.; Vrábel, V.; Kellö, E.: Structure of bis(di-n-butyldithiocarbamato)nickel(II). Chem. zvesti **38** (1984) 313 - 320.

Martin, J.M.; Newman, P.W.G.; Robinson, B.W.; White, A.H.: Crystal structures of bis-(*N*-methyl-*N*-phenyldithiocarbamato)-nickel(II) and -copper(II). J. Chem. Soc., Dalton Trans (1972) 2233 - 2238.

Martín, A.; Orpen, A.G.: Structural systematics. 6. Apparent flexibility of metal complexes in crystals. J. Am. Chem. Soc. **118** (1996) 1464 - 1470.

Miyamae, H.; Ito, M.; Iwasaki, H.: The structure of zinc(II) *N*,*N*-diisopropyldithiocarbamate {Bis[μ–(*N*,*N*-diisopropyldithiocarbamato-μ–*S*,*S*']-bis(*N*,*N*-diisopropyl-dithiocarbamato)-dizinc(II)}. Acta Crystallogr. **B35** (1979) 1480 - 1482.

Motevalli, M.; O'Brien, P.; Walsh, J.R.; Watson, I.M.: Synthesis, characterization and X-ray crystal structures of asymmetric bis(dialkyldithiocarbamates) of zinc: potential precursors for ZnS depostion. Polyhedron **15** (1996) 2801 - 2808.

Newman, P.W.G.; White, A.H.: Crystal structure of bis(*NN*-di-isopropyl-dithiocarbamato)nickel(II). J. Chem. Soc., Dalton Trans (1972a) 2239 - 2243.

Newman, P.W.G.; White, A.H.: Crystal structure of bis(*N*-methyldithiocarbamato)nickel(II). J. Chem. Soc., Dalton Trans (1972b) 1460 - 1463.

Peyronel, G.; Pignedoli, A.: The crystal and molecular Structure of nickel(II) bis(*N*,*N*-di-n-propyldithiocarbamate). Acta Crystallogr. **23** (1967) 398 - 410.

Radha, A.; Seshasayee, M.; Aravamudan, G.: Structures of bis(piperidine-1-dithiocarbamato)nickel(II) and bis(piperidine-1-dithiocarbamato)copper(II). Acta Crystallogr. **C44** (1988) 1378 - 1381.

Ramalingam, K.; Radha, K.; Aravamudan, G.; Mahadevan, C.; Subramanyam, Ch.; Seshasayee, M.: Structure of bis[*N*,*N*-bis(2-hyroxyethyl)dithiocarbamato]nickel(II), $C_{10}H_{20}N_2NiO_4S_4$. Acta Crystallogr. **C40** (1984) 1838 - 1839.

Ramalingam, K.; bin Shawkataly, O.; Fun, H.-K.; Abdul Razak, I.: Redetermination of the crystal structure of bis{[μ2-(*N*,*N'*-dimethyldithiocarbamato-*S*,*S'*)(*N*,*N'*-

dimethyldithiocarbamato-*S*,*S'*)zinc(II)]}, $Zn_2[S_2CN(CH_3)_2]_4$. Z. Kristallogr. - NCS **213** (1998) 371 - 372.

Raston, C.L.; White, A.H.: Crystal Structure of bis(*N*,*N*-diisobutyldithiocarbamato)nickel(II). Aust. J. Chem. **29** (1976) 523 - 529.

Rietveld, H.M.; Maslen, E.N.: The crystal structure of cadmium n-butyl xanthate. Acta Crystallogr. **18** (1965) 429 - 436.

Romanenko, G.V.; Podberezskaya, N.V.; Bakakin, V.V.: Crystalline structure of bis(trifluoroethylxanthogenato)nickel(II) - $Ni(S_2COCH_2CF_3)_2$. Z. Struckt. Khim. **28** (1987) 98 - 104.

Rout, G.C.; Seshasayee, M.; Radha, K.; Aravamudan, G.: Structure of bis[bis(2-hydroxyethyl)dithiocarbamato]tellurium(II), $[Te(C_5H_{10}NO_2S_2)_2]$. Acta Crystallogr. **C39** (1983) 1021 - 1023.

Selvaraju, R.; Panchanatheswaran, K., Thiruvalluvar, A., Parthasarathi, V.: Redetermination of bis(*N*,*N*-diethyldithiocarbamato)nickel(II). Acta Crystallogr. **C51** (1995) 606 - 608.

Shugam, E.A.; Agre, V.M.: Structure of chelate compounds with Me-S bonds. 5. Crystal and molecular structure of cadmium diethyldithiocarbamate. Kristallografiya **13** (1968) 197 - 200.

Silvestru, C.; Haiduc, I.: Structural patterns in inorganic and organoantimony derivatives of oxo- and thiodiorganophosphorus ligands. Coord. Chem. Rev. **147** (1996) 117 - 146.

Sreehari, N.; Varghese, B.; Manoharan, P. T.: Crystal and molecular structure of dimeric bis[*N*,*N*-di-n-propyldithiocarbamato]zinc(II) and the study of exchange-coupled copper(II)-copper(II) pairs in its lattice. Inorg. Chem. **29** (1990) 4011 - 4015; also see Inorg. Chem. **31** (1992) 716.

Starikova, Z.A.; Shugam, E.A.; Agre, V.M.; Oboznenko, Yu.V.: Structures of inner complex compounds with M-S bonds. 7. The crystal structure of nickel hexamethylenedithiocarbamate. Kristallografiya. **17** (1972) 88 - 93.

Stewart G.M.; Tiekink E.R.T.; Buntine M.A.: Structural aspects of the coordination of triethylphosphinegold(I) to 2-thiouracil: a comparison between theory and experiment. J. Phys. Chem. A **101** (1997) 5368 - 5373

Sundburg, M.R.; Riekkola, M.-L.: The effect of fluorination on the thermal properties and crystal structure of bis[*N*,*N*-di(trifluoroethyl)dithiocarbamato]nickel(II). Inorg. Chim. Acta **132** (1987) 99 - 103.

Svensson, G.; Albertsson, J.: On the crystal structure of dithiophosphorus compounds. The crystal structure of $Pb[S_2P(C_2H_5)_2]_2$ at 293K and Cd_2 $[S_2P(C_2H_5)_2]_4$ at 173K. Acta Chem. Scand. **45** (1991) 820 - 827.

teXsan Single crystal structure analysis software, Version 1.6. Molecular Structure Corporation, The Woodlands, Texas 1993.

Tiekink, E.R.T.: The structural diversity in main group element compounds. Main Group Chemistry News **3** (1995) 12 - 16.

Tiekink, E.R.T.: Structural chemistry of organotin carboxylates: a review of the crystallographic literature. Appl. Organomet. Chem. **5** (1991) 1 - 23.

Tiekink, E.R.T.: Structural chemistry of tin 1,1-dithiolate complexes. Main Group Met. Chem. **15** (1992) 161 - 186.

Tiekink, E.R.T.: Bis(*O*-methyldithiocarbonato)mercury(II). Acta Crystallogr. **C43** (1987) 448 - 450.

Tiekink, E.R.T.: The rich diversity in tin carboxylate structures. Trends Organomet. Chem. **1** (1994) 71 - 116.

Tiekink, E.R.T.: Triclinic modification of Bis(*O*-ethyl dithiocarbonato)tellurium(II). Acta Crystallogr. **C42** (1986) 633 - 634.

Tiekink, E.R.T.; Hall, V.J.; Buntine, M. A.: An examination of the influence of crystal structure on molecular structure. The crystal and molecular structures of some diorganotinchloro-(*N*,*N*-dialkyldithiocarbamate)s, $R_2Sn(S_2CNR'_2)Cl$, R = Me, tBu, Ph, Cy; R'_2 = $(Et)_2$, (Et, Cy) and $(Cy)_2$: a comparison between solid state and theoretical structures. Z. Kristallogr. **214** (1999) 124 – 134.

Tiekink, E.R.T.; Hall, V.J.; Hook, J.; Buntine, M.A.: Examination of the effect of crystal packing forces on geometric parameters: a crystallographic and theoretical Study of 2,2'-bipyridyl adducts of R_2SnCl_2. Z. Kristallogr. submitted.

Tiekink, E.R.T.; Winter, G.: Inorganic xanthates: a structural perspective. Rev. Inorg. Chem. **12** (1992) 183 - 302.

Wadt, W.R.; Hay, P.J.: *Ab initio* effective core potentials for molecular calculations. Potentials for main group elements Na to Bi. J. Chem. Phys. **82** (1985) 284 - 298.

Walker, N.; Stuart, D.: An empirical method for correcting diffractometer data for absorption effects. Acta Crystallogr. **A39** (1983) 158 - 166.

Watanabe, Y.: Mercury ethylxanthate. Acta Crystallogr. **B33** (1977) 3566 - 3568.

Watanabe, Y.: The structure of mercury(II) isopropylxanthate. Acta Crystallogr. **B37** (1981) 553 - 556.

Wierzbicki, A.; Salter, E.A.; Hoffman, N.W.; Stevens, E.D.; Van Do, L.; VanLoock, M.S.; Madura, J.D.: Structural investigations of trans-$Rh(PY_3)_2(CO)X$ (X = I, Cl, NCO; Y = H, Me, Ph) using density functional theory and X-ray analysis. J. Phys. Chem. **100** (1996) 11250 - 11254.

Winter, G.: Inorganic xanthates. Inorg. Chem. **2** (1980) 253 - 342.

Wundelich, H.: Structure of bis(diethyldithiophosphinato)cadmium(II). Acta Crystallogr. **C42** (1986) 631 - 632.

Wunderlich, H.: Bis(di-n-propyldithiophosphinato)zinc(II). Acta Crystallogr. **B38** (1982) 614 - 617.

Xiong, R.-G.; Liu, C.-M.; Li, H.-Z.; You, X.-Z.; Huang, X.-Y.: Bis[O-(4-methylcyclohexyl) dithiocarbonato-S,S']nickel(II). Acta Crystallogr. **C52** (1996) 519 - 521.

Zvonkova, Z.V.; Khvatkina, A.N.; Ivanova, N.S.: Crystal structure of zinc and lead diethyldithiocarbamates. Soviet Physics-Crystallogr. **12** (1968) 926 - 929.

APPENDIX

APPENDIX 3.I

$[Ni(S_2COMe)_2]$

Table 3.I.1: Crystallographic Parameters for $[Ni(S_2COCH_3)_2]$

Formula	$C_4H_6NiO_2S_4$
Formula weight	273.03
Crystal morphology / colour	Block / brown
Crystal dimensions (mm)	0.16 x 0.16 x 0.32
Crystal system	monoclinic
Space group	$P2_1/c$ (#14)
a (Å)	6.357(4)
b (Å)	13.76(1)
c (Å)	10.566(3)
α (°)	90
β (°)	97.20(3)
γ (°)	90
V (Å^3)	916.5(7)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.979
$F(000)$	552
Temperature (°K)	293
μ (cm^{-1})	29.51
θ limits, cell (°)	24.6 – 27.3
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 8, 0 – 17, -13 – 13
Range of transmission factors	0.952 – 1
Scan technique	ω:2θ
No. of data measured	2391
No. of unique data	2214
R_{amal}	0.168
No. of parameters	100
R (I≥0σ(I))	0.090
R_w (I≥0σ(I))	0.122
R (I≥3σ(I))	0.047
R_w (I≥3σ(I))	0.058
Maximum and minimum residual electron density (e Å^{-3})	1.12, -1.19

Table 3.I.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2COCH_3)_2]$

Atom	*x*	*y*	*z*
Ni	0.4097(1)	0.11150(5)	0.39753(5)
S(1)	0.5854(2)	0.1185(1)	0.5915(1)
S(2)	0.1434(2)	0.1213(1)	0.5144(1)
S(3)	0.6764(2)	0.1206(1)	0.2810(1)
S(4)	0.2341(2)	0.1111(1)	0.2023(1)
O(1)	0.3180(5)	0.1353(3)	0.7583(3)
O(2)	0.5011(5)	0.1193(3)	0.0358(3)
C(1)	0.3387(8)	0.1266(4)	0.6373(4)
C(2)	0.1061(9)	0.1379(5)	0.7947(5)
C(3)	0.4787(8)	0.1182(4)	0.1563(4)
C(4)	0.7104(8)	0.1269(5)	-0.0028(5)

Table 3.I.3: Anisotropic thermal parameters (Å^2) for the non-hydrogen atoms in [Ni(S_2COCH_3)$_2$]

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0341(3)	0.0287(5)	0.0323(3)	-0.0002(4)	0.0036(2)	-0.0002(4)
S(1)	0.0335(6)	0.042(1)	0.0380(6)	0.0001(9)	0.0023(5)	0.0009(8)
S(2)	0.0342(7)	0.043(1)	0.0366(6)	0.0004(7)	0.0028(5)	-0.0037(7)
S(3)	0.0335(6)	0.040(1)	0.0361(6)	-0.0011(7)	0.0030(5)	0.0029(7)
S(4)	0.0329(6)	0.043(1)	0.0380(6)	-0.0003(8)	0.0010(4)	-0.0006(8)
O(1)	0.040(2)	0.041(3)	0.036(2)	-0.002(2)	0.005(1)	-0.003(2)
O(2)	0.041(2)	0.056(3)	0.031(2)	-0.001(2)	0.005(1)	-0.005(2)
C(1)	0.037(3)	0.019(4)	0.038(2)	-0.002(2)	0.004(2)	-0.003(2)
C(2)	0.048(3)	0.049(5)	0.043(3)	-0.003(3)	0.014(2)	-0.004(3)
C(3)	0.045(3)	0.020(3)	0.034(2)	0.003(3)	0.004(2)	-0.004(3)
C(4)	0.043(3)	0.071(6)	0.039(3)	0.002(3)	0.012(2)	-0.002(3)

Table 3.I.4: Fractional atomic coordinates and B_{eq} values (Å^2) for the hydrogen atoms in [Ni(S_2COCH_3)$_2$]*

Atom	x	y	z	Beq
H(2a)	0.1142	0.1458	0.8846	4.3553
H(2b)	0.0302	0.1909	0.7534	4.3553
H(2c)	0.0349	0.0789	0.7702	4.3553
H(4a)	0.7975	0.0735	0.0337	4.7681
H(4b)	0.7002	0.1242	-0.0951	4.7681
H(4c)	0.7741	0.1881	0.0271	4.7681

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table: 3.I.5: Bond distances (Å) for $[Ni(S_2COCH_3)_2]$

Ni — S(1)	2.210(1)	S(3) — C(3)	1.704(5)
Ni — S(2)	2.221(2)	S(4) — C(3)	1.689(5)
Ni — S(3)	2.220(2)	O(1) — C(1)	1.306(5)
Ni — S(4)	2.219(1)	O(1) — C(2)	1.447(6)
S(1) — C(1)	1.701(5)	O(2) — C(3)	1.299(5)
S(2) — C(1)	1.682(5)	O(2) — C(4)	1.443(6)

Table: 3.I.6: Bond angles (deg.) for $[Ni(S_2COCH_3)_2]$

S(1) — Ni — S(2)	79.23(6)	Ni — S(4) — C(3)	83.9(2)
S(1) — Ni — S(3)	100.34(6)	C(1) — O(1) — C(2)	118.3(4)
S(1) — Ni — S(4)	177.63(7)	C(3) — O(2) — C(4)	119.7(4)
S(2) — Ni — S(3)	173.31(7)	S(1) — C(1) — S(2)	113.3(3)
S(2) — Ni — S(4)	100.80(6)	S(1) — C(1) — O(1)	119.6(3)
S(3) — Ni — S(4)	79.34(6)	S(2) — C(1) — O(1)	127.2(4)
Ni — S(1) — C(1)	83.7(2)	S(3) — C(3) — S(4)	113.3(3)
Ni — S(2) — C(1)	83.8(2)	S(3) — C(3) — O(2)	126.7(4)
Ni — S(3) — C(3)	83.5(2)	S(4) — C(3) — O(2)	120.1(3)

Table 3.I.7: Observed and calculated structure factors for $[Ni(S_2COCH_3)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	2	30	12	23	0	4	11	88	82	99	0	9	2	107	92	99	0	14	3	95	109	99	1	1	5	479	474	99
0	0	4	199	192	99	0	4	12	-31	4	99	0	9	3	53	17	99	0	14	4	177	175	99	1	1	6	-10	15	95
0	0	6	449	468	99	0	4	13	-28	5	99	0	9	4	226	209	99	0	14	5	-132	11	99	1	1	7	205	206	99
0	0	8	285	308	99	0	5	1	926	916	99	0	9	5	639	579	99	0	14	6	134	135	99	1	1	8	94	103	78
0	0	10	596	655	99	0	5	2	46	40	95	0	9	6	146	137	99	0	14	7	88	14	99	1	1	9	649	637	99
0	0	12	-53	8	99	0	5	3	12	15	99	0	9	7	99	71	99	0	14	8	-111	11	99	1	1	10	248	238	99
0	1	-9	534	457	99	0	5	4	193	186	99	0	9	8	151	145	99	0	15	1	59	22	99	1	1	11	66	67	85
0	1	2	56	45	34	0	5	5	859	835	99	0	9	9	411	396	99	0	15	2	-93	22	99	1	1	12	62	74	83
0	1	3	26	11	74	0	5	6	-49	16	99	0	9	10	-51	27	99	0	15	3	47	4	99	1	1	13	97	85	93
0	1	4	141	118	99	0	5	7	65	62	99	0	9	11	140	149	99	0	15	4	-110	43	99	1	2	-13	91	93	99
0	1	5	1025	888	99	0	5	8	298	301	99	0	10	0	684	696	99	0	15	5	129	137	99	1	2	-12	25	22	99
0	1	6	259	247	99	0	5	9	467	481	99	0	10	1	320	323	99	0	15	6	85	112	99	1	2	-11	-30	75	99
0	1	7	8	43	99	0	5	10	71	55	99	0	10	2	57	80	99	0	15	7	104	9	99	1	2	-10	-58	29	99
0	1	8	444	453	99	0	5	11	177	191	99	0	10	3	64	103	99	0	16	0	362	396	99	1	2	-9	91	80	99
0	1	10	72	76	84	0	5	12	-17	54	99	0	10	4	252	235	99	0	16	1	244	275	99	1	2	-8	45	5	99
0	1	11	183	187	99	0	5	13	56	45	97	0	10	5	-33	38	99	0	16	2	82	19	99	1	2	-7	798	783	99
0	1	12	41	42	69	0	6	0	670	700	99	0	10	6	204	179	99	0	16	3	-91	31	99	1	2	-6	214	203	99
0	1	13	57	48	73	0	6	1	607	613	99	0	10	7	104	71	99	0	16	4	64	22	99	1	2	-5	704	677	99
0	2	1	821	866	99	0	6	2	96	98	99	0	10	8	-28	8	99	0	16	5	-25	8	99	1	2	-4	30	13	99
0	2	2	52	53	47	0	6	3	39	54	99	0	10	9	152	135	99	0	16	6	-140	5	99	1	2	-3	619	591	99
0	2	3	34	33	50	0	6	4	252	236	99	0	10	10	226	221	99	0	17	1	215	214	99	1	2	-2	62	57	41
0	2	4	118	114	76	0	6	5	76	75	99	0	10	11	94	93	99	0	17	2	107	100	99	1	2	-1	65	37	50
0	2	5	114	113	77	0	6	6	155	164	99	0	11	1	50	79	99	0	17	3	-75	5	99	1	2	0	220	223	99
0	2	6	77	66	66	0	6	7	127	136	99	0	11	2	58	74	99	0	17	4	-77	121	99	1	2	1	1242	1290	99
0	2	7	145	149	99	0	6	8	-35	5	99	0	11	3	22	5	99	1	0	-12	148	143	99	1	2	2	64	4	57
0	2	8	-43	5	99	0	6	9	243	239	99	0	11	4	110	91	99	1	0	-10	50	44	99	1	2	3	1189	1237	99
0	2	9	341	317	99	0	6	10	193	200	99	0	11	5	43	75	99	1	0	-8	77	68	99	1	2	4	227	237	99
0	2	10	97	83	85	0	6	11	180	182	99	0	11	6	249	237	99	1	0	-6	1571	1500	99	1	2	5	433	452	99
0	2	11	238	253	99	0	6	12	55	16	99	0	11	7	69	2	99	1	0	-4	90	77	67	1	2	6	21	29	99
0	2	12	14	8	78	0	7	1	333	302	99	0	11	8	297	275	99	1	0	-2	371	308	99	1	2	7	686	700	99
0	2	13	105	110	93	0	7	2	111	114	99	0	11	9	36	51	99	1	0	0	1804	1757	99	1	2	8	-27	24	99
0	3	1	600	619	99	0	7	3	-38	11	99	0	11	10	66	51	99	1	0	2	94	50	51	1	2	9	88	85	85
0	3	2	-19	44	99	0	7	4	135	123	99	0	12	0	940	973	99	1	0	4	1841	1678	99	1	2	10	70	62	83
0	3	3	11	6	99	0	7	5	178	158	99	0	12	1	448	435	99	1	0	6	17	11	81	1	2	11	418	406	99
0	3	4	39	42	65	0	7	6	395	362	99	0	12	2	46	34	99	1	0	8	284	284	99	1	2	12	-63	9	99
0	3	5	592	571	99	0	7	7	44	15	99	0	12	3	-49	44	99	1	0	10	428	431	99	1	2	13	74	59	90
0	3	6	391	390	99	0	7	8	399	400	99	0	12	4	77	25	99	1	0	12	36	40	99	1	3	-13	39	12	99
0	3	7	-9	28	99	0	7	9	173	172	99	0	12	5	-74	3	99	1	1	-13	-22	12	99	1	3	-12	161	166	99
0	3	8	484	486	99	0	7	10	63	71	99	0	12	6	-117	85	99	1	1	-12	114	117	99	1	3	-11	128	121	99
0	3	9	337	330	99	0	7	11	52	55	99	0	12	7	185	153	99	1	1	-11	218	221	99	1	3	-10	16	15	99
0	3	10	85	82	98	0	7	12	35	13	99	0	12	8	133	118	99	1	1	-10	24	24	99	1	3	-9	-27	38	99
0	3	11	127	130	99	0	8	0	1968	2034	99	0	12	9	111	96	99	1	1	-9	37	29	99	1	3	-8	357	341	99
0	3	12	9	24	99	0	8	1	542	555	99	0	12	10	221	188	99	1	1	-8	326	298	99	1	3	-7	448	427	99
0	3	13	-23	41	99	0	8	2	20	45	99	0	13	1	413	424	99	1	1	-7	607	588	99	1	3	-6	216	212	99
0	4	0	3815	3940	99	0	8	3	61	54	99	0	13	2	-110	117	99	1	1	-6	158	146	99	1	3	-5	777	730	99
0	4	1	497	498	99	0	8	4	48	21	99	0	13	3	-111	9	99	1	1	-5	1031	988	99	1	3	-4	188	178	99
0	4	2	31	28	99	0	8	5	-76	20	99	0	13	4	192	182	99	1	1	-4	101	98	78	1	3	-3	-28	35	99
0	4	3	15	14	99	0	8	6	257	225	99	0	13	5	341	317	99	1	1	-3	103	98	66	1	3	-2	214	214	99
0	4	4	95	82	92	0	8	7	177	170	99	0	13	6	192	171	99	1	1	-2	207	166	99	1	3	-1	68	46	66
0	4	5	23	29	99	0	8	8	208	189	99	0	13	7	-51	63	99	1	1	-1	472	455	99	1	3	0	772	792	99
0	4	6	381	387	99	0	8	9	-30	110	99	0	13	8	70	44	99	1	1	0	755	741	99	1	3	1	371	388	99
0	4	7	120	124	99	0	8	10	377	384	99	0	13	9	296	265	99	1	1	1	341	334	99	1	3	2	176	172	99
0	4	8	262	266	99	0	8	11	118	120	99	0	14	0	498	507	99	1	1	2	64	82	46	1	3	3	1031	1024	99
0	4	9	70	75	99	0	8	12	22	4	99	0	14	1	108	117	99	1	1	3	1264	1259	99	1	3	4	34	32	99
0	4	10	576	575	99	0	9	1	674	691	99	0	14	2	60	50	99	1	1	4	9	2	90	1	3	5	277	284	99
1	3	6	-18	25	99	1	5	8	-54	8	99	1	8	-12	94	87	99	1	10	-3	235	209	99	1	12	9	51	41	99
1	3	7	196	203	99	1	5	9	634	646	99	1	8	-11	-64	23	99	1	10	-2	194	178	99	1	13	-9	62	9	99
1	3	8	178	183	99	1	5	10	118	109	99	1	8	-10	52	63	99	1	10	-1	56	7	99	1	13	-8	10	14	99
1	3	9	450	450	99	1	5	11	59	66	99	1	8	-9	-54	16	99	1	10	0	396	414	99	1	13	-7	272	292	99
1	3	10	313	316	99	1	5	12	52	46	99	1	8	-8	60	53	99	1	10	1	380	377	99	1	13	-6	-44	25	99
1	3	11	58	58	96	1	6	-12	49	55	99	1	8	-7	269	245	99	1	10	2	-53	11	99	1	13	-5	388	395	99
1	3	12	79	89	99	1	6	-11	-33	57	99	1	8	-6	904	866	99	1	10	3	400	392	99	1	13	-4	120	95	99
1	3	13	67	67	99	1	6	-10	79	72	99	1	8	-5	249	250	99	1	10	4	571	552	99	1	13	-3	-53	14	99
1	4	-13	46	47	99	1	6	-9	72	72	99	1	8	-4	29	51	99	1	10	5	155	154	99	1	13	-2	161	176	99
1	4	-12	134	127	99	1	6	-8	36	7	99	1	8	-3	141	126	99	1	10	6	10	73	99	1	13	-1	314	320	99
1	4	-11	18	17	99	1	6	-7	625	572	99	1	8	-2	55	62	99	1	10	7	410	380	99	1	13	0	-116	44	99
1	4	-10	-46	53	99	1	6	-6	492	462	99	1	8	-1	84	84	99	1	10	8	66	65	99	1	13	1	60	62	99
1	4	-9	-28	11	99	1	6	-5	492	461	99	1	8	0	811	824	99	1	10	9	64	51	99	1	13	2	-36	99	99
1	4	-8	69	64	99	1	6	-4	-39	9	99	1	8	1	292	307	99	1	10	10	187	170	99	1	13	3	374	376	99
1	4	-7	187	168	99	1	6	-3	318	297	99	1	8	2	50	57	99	1	10	11	184	187	99	1	13	4	68	0	99
1	4	-6	1380	1312	99	1	6	-2	166	169	99	1	8	3	314	319	99	1	11	-10	-75	8	99	1	13	5	268	263	99
1	4	-5	194	188	99	1	6	-1	-74	15	99	1	8	4	864	850	99	1	11	-9	-65	34	99	1	13	6	87	127	99
1	4	-4	73	64	99	1	6	0	405	432	99	1	8	5	242	227	99	1	11	-8	209	210	99	1	13	7	-87	57	99
1	4	-3	100	102	82	1	6	1	695	743	99	1	8	6	50	7	99	1	11	-7	23	68	99	1	13	8	-77	100	99
1	4	-2	204	202	99	1	6	2	51	8	99	1	8	7	31	35	99	1	11	-6	103	131	99	1	13	9	340	316	99
1	4	-1	59	59	86	1	6	3	781	810	99	1	8	8	166	166	99	1	11	-5	74	84	99	1	14	-8	-80	4	99
1	4	0	1371	1420	99	1	6	4	543	541	99	1	8	9	55	43	99	1	11	-4	146	140	99	1	14	-7	114	144	99
1	4	1	215	211	99	1	6	5	330	332	99	1	8	10	276	270	99	1	11	-3	-48	10	99	1	14	-6	359	367	99
1	4	2	48	17	81	1	6	6	69	69	99	1	8	11	-15	90	99	1	11	-2	82	64	99	1	14	-5	84	75	99
1	4	3	231	243	99	1	6	7	543	563	99	1	9	-11	181	198	99	1	11	-1	292	287	99	1	14	-4	-59	11	99
1	4	4	1401	1365	99	1	6	8	72	56	99	1	9	-10	-3	87	99	1	11	0	337	313	99	1	14	-3	150	151	99
1	4	5	155	170	99	1	6	9	77	70	99	1	9	-9	-74	8	99	1	11	1	171	161	99	1	14	-2	-30	123	99
1	4	6	-31	10	99	1	6	10	145	152	99	1	9	-8	91	79	99	1	11	2	287	273	99	1	14	-1	-93	19	99
1	4	7	33	24	99	1	6	11	308	315	99	1	9	-7	480	454	99	1	11	3	221	215	99	1	14	0	322	303	99
1	4	8	237	252	99	1	6	12	49	23	99	1	9	-6	-54	2	99	1	11	4	69	50	99	1	14	1	164	162	99
1	4	9	65	27	99	1	7	-12	145	161	99	1	9	-5	637	662	99	1	11	5	71	38	99	1	14	2	93	23	99
1	4	10	380	384	99	1	7	-11	-67	7	99	1	9	-4	94	96	99	1	11	6	44	60	99	1	14	3	130	134	99
1	4	11	65	60	99	1	7	-10	42	20	99	1	9	-3	41	39	99	1	11	7	56	93	99	1	14	4	382	404	99
1	4	12	-40	38	99	1	7	-9	36	36	99	1	9	-2	154	151	99	1	11	8	145	131	99	1	14	5	-28	35	99
1	5	-13	20	13	99	1	7	-8	314	297	99	1	9	-1	533	545	99	1	11	9	23	25	99	1	14	6	47	54	99
1	5	-12	-44	39	99	1	7	-7	237	217	99	1	9	0	81	98	99	1	11	10	248	217	99	1	14	7	256	225	99
1	5	-11	262	248	99	1	7	-6	210	195	99	1	9	1	81	93	99	1	12	-10	-22	63	99	1	14	8	62	58	99
1	5	-10	41	68	99	1	7	-5	366	345	99	1	9	2	98	86	99	1	12	-9	-39	16	99	1	15	-7	-84	13	99
1	5	-9	-72	15	99	1	7	-4	177	184	99	1	9	3	668	679	99	1	12	-8	-52	39	99	1	15	-6	-79	71	99
1	5	-8	208	188	99	1	7	-3	42	14	99	1	9	4	44	15	99	1	12	-7	202	214	99	1	15	-5	60	35	99
1	5	-7	609	582	99	1	7	-2	164	156	99	1	9	5	432	425	99	1	12	-6	399	427	99	1	15	-4	112	98	99
1	5	-6	92	62	99	1	7	-1	206	203	99	1	9	6	120	129	99	1	12	-5	177	200	99	1	15	-3	-50	4	99
1	5	-5	1009	914	99	1	7	0	530	562	99	1	9	7	103	104	99	1	12	-4	-49	39	99	1	15	-2	24	16	99
1	5	-4	54	35	99	1	7	1	246	267	99	1	9	8	87	83	99	1	12	-3	44	102	99	1	15	-1	241	256	99
1	5	-3	87	74	99	1	7	2	328	339	99	1	9	9	513	505	99	1	12	-2	-49	32	99	1	15	0	151	141	99
1	5	-2	32	26	96	1	7	3	539	556	99	1	9	10	47	2	99	1	12	-1	71	74	99	1	15	1	132	87	99
1	5	-1	632	651	99	1	7	4	49	51	99	1	9	11	45	58	99	1	12	0	278	281	99	1	15	2	129	156	99
1	5	0	382	405	99	1	7	5	58	87	99	1	10	-11	-36	31	99	1	12	1	244	251	99	1	15	3	-109	45	99
1	5	1	161	161	99	1	7	6	-58	31	99	1	10	-10	85	82	99	1	12	2	-112	44	99	1	15	4	76	36	99
1	5	2	87	84	99	1	7	7	157	154	99	1	10	-9	54	63	99	1	12	3	274	275	99	1	15	5	-34	71	99
1	5	3	1003	1041	99	1	7	8	136	185	99	1	10	-8	-71	3	99	1	12	4	436	438	99	1	15	6	83	63	99
1	5	4	-32	21	99	1	7	9	206	201	99	1	10	-7	367	329	99	1	12	5	187	201	99	1	15	7	55	47	99
1	5	5	546	536	99	1	7	10	294	301	99	1	10	-6	494	488	99	1	12	6	-72	2	99	1	16	-6	66	146	99
1	5	6	77	75	99	1	7	11	26	42	99	1	10	-5	229	227	99	1	12	7	-56	32	99	1	16	-5	76	117	99
1	5	7	156	162	99	1	7	12	106	87	99	1	10	-4	55	8	99	1	12	8	-94	79	99	1	16	-4	67	24	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	16	-3	16	66	99	2	1	12	116	94	99	2	4	-11	72	50	99	2	6	-7	119	108	99	2	8	-1	240	249	99
1	16	-2	-90	65	99	2	2	-13	308	336	99	2	4	-10	58	79	99	2	6	-6	248	231	99	2	8	0	62	68	99
1	16	-1	70	54	99	2	2	-12	79	69	99	2	4	-9	-23	26	99	2	6	-5	455	465	99	2	8	1	54	19	99
1	16	0	150	148	99	2	2	-11	154	156	99	2	4	-8	218	209	99	2	6	-4	-56	14	99	2	8	2	60	42	99
1	16	1	144	166	99	2	2	-10	-22	4	99	2	4	-7	51	33	99	2	6	-3	788	791	99	2	8	3	149	144	99
1	16	2	91	22	99	2	2	-9	316	312	99	2	4	-6	585	572	99	2	6	-2	544	550	99	2	8	4	901	898	99
1	16	3	186	174	99	2	2	-8	-32	28	99	2	4	-5	137	134	99	2	6	-1	120	123	99	2	8	5	301	280	99
1	16	4	179	173	99	2	2	-7	145	141	99	2	4	-4	105	108	83	2	6	0	74	70	99	2	8	6	36	65	99
1	16	5	97	134	99	2	2	-6	93	95	99	2	4	-3	278	274	99	2	6	1	141	146	99	2	8	7	94	73	99
1	17	-4	34	74	99	2	2	-5	665	613	99	2	4	-2	1353	1360	99	2	6	2	162	176	99	2	8	8	183	149	99
1	17	-3	60	3	99	2	2	-4	34	4	51	2	4	-1	190	181	99	2	6	3	87	78	99	2	8	9	110	122	99
1	17	-2	88	129	99	2	2	-3	1219	1192	99	2	4	0	124	134	99	2	6	4	335	326	99	2	8	10	-61	11	99
1	17	-1	145	138	99	2	2	-2	273	265	99	2	4	1	-34	13	99	2	6	5	538	524	99	2	8	11	-44	39	99
1	17	0	-69	63	99	2	2	-1	265	261	99	2	4	2	68	62	92	2	6	6	46	4	99	2	9	-11	250	276	99
1	17	1	-53	37	99	2	2	0	30	29	99	2	4	3	119	112	99	2	6	7	48	20	99	2	9	-10	113	113	99
1	17	2	100	86	99	2	2	1	260	245	99	2	4	4	1385	1376	99	2	6	8	210	216	99	2	9	-9	40	35	99
1	17	3	186	175	99	2	2	2	75	67	75	2	4	5	189	193	99	2	6	9	191	213	99	2	9	-8	43	34	99
2	0	-12	462	490	99	2	2	3	120	123	99	2	4	6	97	100	99	2	6	10	-39	29	99	2	9	-7	455	423	99
2	0	-10	91	90	99	2	2	4	146	139	99	2	4	7	49	52	94	2	6	11	-72	25	99	2	9	-6	48	22	99
2	0	-8	257	242	99	2	2	5	667	697	99	2	4	8	251	255	99	2	6	12	-56	47	99	2	9	-5	193	178	99
2	0	-6	740	692	99	2	2	6	13	4	99	2	4	9	87	86	99	2	7	-12	119	128	99	2	9	-4	151	134	99
2	0	-4	122	118	83	2	2	7	54	60	75	2	4	10	-38	24	99	2	7	-11	164	153	99	2	9	-3	549	560	99
2	0	-2	1586	1579	99	2	2	8	89	90	90	2	4	11	31	25	99	2	7	-10	31	15	99	2	9	-2	69	33	99
2	0	0	218	198	99	2	2	9	299	296	99	2	4	12	196	201	99	2	7	-9	-25	40	99	2	9	-1	298	326	99
2	0	2	84	90	68	2	2	10	-29	12	99	2	5	-13	178	183	99	2	7	-8	233	220	99	2	9	0	218	230	99
2	0	4	1652	1614	99	2	2	11	-13	24	99	2	5	-12	71	57	99	2	7	-7	52	31	99	2	9	1	-50	5	99
2	0	6	122	110	85	2	2	12	16	19	99	2	5	-11	354	358	99	2	7	-6	207	185	99	2	9	2	156	178	99
2	0	8	332	305	99	2	3	-13	141	142	99	2	5	-10	110	108	99	2	7	-5	137	117	99	2	9	3	862	886	99
2	0	10	26	30	74	2	3	-12	136	131	99	2	5	-9	42	34	99	2	7	-4	557	527	99	2	9	4	119	111	99
2	0	12	245	223	99	2	3	-11	283	280	99	2	5	-8	49	70	99	2	7	-3	362	352	99	2	9	5	178	174	99
2	1	-13	180	181	99	2	3	-10	33	36	99	2	5	-7	552	519	99	2	7	-2	121	142	99	2	9	6	109	98	99
2	1	-12	112	103	99	2	3	-9	48	15	99	2	5	-6	78	71	99	2	7	-1	66	58	99	2	9	7	99	88	99
2	1	-11	349	365	99	2	3	-8	268	257	99	2	5	-5	243	243	99	2	7	0	47	65	99	2	9	8	73	56	99
2	1	-10	72	78	99	2	3	-7	254	248	99	2	5	-4	334	315	99	2	7	1	45	38	99	2	9	9	223	206	99
2	1	-9	33	16	99	2	3	-6	229	228	99	2	5	-3	785	779	99	2	7	2	144	154	99	2	9	10	131	117	99
2	1	-8	184	193	99	2	3	-5	228	210	99	2	5	-2	97	105	99	2	7	3	334	341	99	2	10	-11	34	55	99
2	1	-7	480	454	99	2	3	-4	630	600	99	2	5	-1	402	418	99	2	7	4	677	676	99	2	10	-10	-66	10	99
2	1	-6	190	184	99	2	3	-3	693	685	99	2	5	0	255	276	99	2	7	5	111	104	99	2	10	-9	195	204	99
2	1	-5	276	250	99	2	3	-2	186	186	99	2	5	1	-23	5	99	2	7	6	274	242	99	2	10	-8	-25	73	99
2	1	-4	576	524	99	2	3	-1	186	190	99	2	5	2	118	125	99	2	7	7	47	38	99	2	10	-7	48	62	99
2	1	-3	904	894	99	2	3	0	183	185	99	2	5	3	1178	1219	99	2	7	8	-76	29	99	2	10	-6	269	244	99
2	1	-2	168	168	99	2	3	1	12	42	99	2	5	4	387	373	99	2	7	9	91	81	99	2	10	-5	266	246	99
2	1	-1	424	413	99	2	3	2	125	132	99	2	5	5	210	211	99	2	7	10	-53	15	99	2	10	-4	75	12	99
2	1	0	313	310	99	2	3	3	833	830	99	2	5	6	203	205	99	2	7	11	-32	5	99	2	10	-3	412	418	99
2	1	1	41	31	59	2	3	4	796	811	99	2	5	7	97	100	99	2	8	-12	285	311	99	2	10	-2	543	546	99
2	1	2	-57	26	99	2	3	5	148	160	99	2	5	8	66	42	99	2	8	-11	71	73	99	2	10	-1	-54	16	99
2	1	3	1235	1230	99	2	3	6	287	306	99	2	5	9	274	270	99	2	8	-10	-86	58	99	2	10	0	32	65	99
2	1	4	657	684	99	2	3	7	8	19	99	2	5	10	126	131	99	2	8	-9	36	41	99	2	10	1	153	148	99
2	1	5	199	209	99	2	3	8	39	21	89	2	5	11	-14	28	99	2	8	-8	152	134	99	2	10	2	190	184	99
2	1	6	289	287	99	2	3	9	195	190	99	2	5	12	26	51	99	2	8	-7	58	47	99	2	10	3	-89	29	99
2	1	7	80	75	71	2	3	10	25	41	99	2	6	-12	163	171	99	2	8	-6	196	353	99	2	10	4	367	357	99
2	1	8	36	9	67	2	3	11	28	11	99	2	6	-11	117	112	99	2	8	-5	186	179	99	2	10	5	346	333	99
2	1	9	290	268	99	2	3	12	123	114	99	2	6	-10	-41	10	99	2	8	-4	64	86	99	2	10	6	-83	7	99
2	1	10	112	90	99	2	4	-13	29	63	99	2	6	-9	287	275	99	2	8	-3	340	366	99	2	10	7	-75	33	99
2	1	11	-13	21	99	2	4	-12	439	437	99	2	6	-8	72	65	99	2	8	-2	799	834	99	2	10	8	244	235	99
2	10	9	103	104	99	2	13	5	134	124	99	3	0	-2	1878	1906	99	3	2	8	85	79	99	3	5	-11	139	133	99
2	10	10	70	29	99	2	13	6	-4	23	99	3	0	0	72	75	74	3	2	9	292	306	99	3	5	-10	189	186	99
2	11	-10	-77	12	99	2	13	7	110	58	99	3	0	2	455	449	99	3	2	10	40	10	95	3	5	-9	182	168	99
2	11	-9	-23	44	99	2	13	8	-32	51	99	3	0	4	74	71	77	3	2	11	118	102	99	3	5	-8	103	88	99
2	11	-8	160	136	99	2	14	-8	-54	60	99	3	0	6	500	515	99	3	2	12	60	29	99	3	5	-7	355	339	99
2	11	-7	114	96	99	2	14	-7	81	28	99	3	0	8	582	587	99	3	3	-13	124	143	99	3	5	-6	323	315	99
2	11	-6	142	108	99	2	14	-6	197	182	99	3	0	10	42	37	99	3	3	-12	85	66	99	3	5	-5	-61	23	99
2	11	-5	74	55	99	2	14	-5	100	93	99	3	0	12	188	166	99	3	3	-11	92	98	99	3	5	-4	42	42	99
2	11	-4	410	378	99	2	14	-4	-131	8	99	3	1	-13	168	195	99	3	3	-10	272	279	99	3	5	-3	1200	1219	99
2	11	-3	116	130	99	2	14	-3	155	176	99	3	1	-12	43	41	99	3	3	-9	90	95	99	3	5	-2	248	256	99
2	11	-2	71	79	99	2	14	-2	397	397	99	3	1	-11	117	127	99	3	3	-8	258	236	99	3	5	-1	194	202	99
2	11	-1	135	153	99	2	14	-1	49	46	99	3	1	-10	241	262	99	3	3	-7	200	190	99	3	5	0	156	162	99
2	11	0	64	48	99	2	14	0	-69	50	99	3	1	-9	147	145	99	3	3	-6	294	284	99	3	5	1	298	313	99
2	11	1	-80	35	99	2	14	1	-60	117	99	3	1	-8	185	188	99	3	3	-5	15	17	99	3	5	2	-28	1	99
2	11	2	98	104	99	2	14	2	38	137	99	3	1	-7	310	313	99	3	3	-4	291	299	99	3	5	3	329	340	99
2	11	3	68	7	99	2	14	3	62	1	99	3	1	-6	332	337	99	3	3	-3	930	925	99	3	5	4	29	27	99
2	11	4	460	437	99	2	14	4	278	282	99	3	1	-5	-38	7	99	3	3	-2	637	640	99	3	5	5	-52	20	99
2	11	5	-60	63	99	2	14	5	177	176	99	3	1	-4	158	178	99	3	3	-1	128	132	99	3	5	6	158	154	99
2	11	6	167	146	99	2	14	6	-119	16	99	3	1	-3	1259	1274	99	3	3	0	306	318	99	3	5	7	718	730	99
2	11	7	57	61	99	2	14	7	-88	54	99	3	1	-2	526	533	99	3	3	1	170	188	99	3	5	8	131	134	99
2	11	8	-66	21	99	2	15	-7	129	119	99	3	1	-1	146	163	99	3	3	2	6	55	99	3	5	9	40	84	99
2	11	9	-44	3	99	2	15	-6	86	42	99	3	1	0	306	312	99	3	3	3	113	113	99	3	5	10	28	74	99
2	12	-9	64	41	99	2	15	-5	-115	5	99	3	1	1	335	298	99	3	3	4	176	165	99	3	5	11	104	94	99
2	12	-8	59	65	99	2	15	-4	223	228	99	3	1	2	24	37	87	3	3	5	37	12	88	3	6	-12	63	91	99
2	12	-7	39	40	99	2	15	-3	-133	17	99	3	1	3	294	303	99	3	3	6	341	374	99	3	6	-11	171	168	99
2	12	-6	169	164	99	2	15	-2	79	30	99	3	1	4	96	83	85	3	3	7	511	531	99	3	6	-10	-51	21	99
2	12	-5	128	155	99	2	15	-1	161	158	99	3	1	5	14	17	99	3	3	8	287	307	99	3	6	-9	213	179	99
2	12	-4	65	61	99	2	15	0	98	38	99	3	1	6	279	304	99	3	3	9	72	69	99	3	6	-8	239	229	99
2	12	-3	319	299	99	2	15	1	98	27	99	3	1	7	697	722	99	3	3	10	109	102	99	3	6	-7	55	81	99
2	12	-2	166	157	99	2	15	2	57	38	99	3	1	8	246	248	99	3	3	11	105	108	99	3	6	-6	48	23	99
2	12	-1	200	197	99	2	15	3	-121	116	99	3	1	9	92	83	99	3	4	-12	247	240	99	3	6	-5	172	165	99
2	12	0	66	38	99	2	15	4	172	227	99	3	1	10	108	96	99	3	4	-11	63	38	99	3	6	-4	140	145	99
2	12	1	46	24	99	2	15	5	-128	29	99	3	1	11	126	112	99	3	4	-10	-55	6	99	3	6	-3	287	283	99
2	12	2	38	16	99	2	15	6	106	73	99	3	1	12	30	8	99	3	4	-9	146	142	99	3	6	-2	353	374	99
2	12	3	119	114	99	2	16	-5	-69	101	99	3	2	-13	97	119	99	3	4	-8	785	734	99	3	6	-1	324	336	99
2	12	4	483	472	99	2	16	-4	-54	37	99	3	2	-12	46	37	99	3	4	-7	131	125	99	3	6	0	63	61	99
2	12	5	251	248	99	2	16	-3	175	187	99	3	2	-11	206	213	99	3	4	-6	280	272	99	3	6	1	252	249	99
2	12	6	-87	28	99	2	16	-2	80	92	99	3	2	-10	39	9	99	3	4	-5	-44	17	99	3	6	2	320	323	99
2	12	7	65	62	99	2	16	-1	92	113	99	3	2	-9	245	235	99	3	4	-4	245	251	99	3	6	3	51	96	99
2	12	8	69	53	99	2	16	0	-85	18	99	3	2	-8	108	93	99	3	4	-3	156	149	99	3	6	4	-68	12	99
2	12	9	-13	109	99	2	16	1	-169	22	99	3	2	-7	135	132	99	3	4	-2	1538	1578	99	3	6	5	112	103	99
2	13	-9	62	24	99	2	16	2	-63	16	99	3	2	-6	-8	11	99	3	4	-1	209	218	99	3	6	6	121	97	99
2	13	-8	99	75	99	2	16	3	-83	70	99	3	2	-5	108	116	87	3	4	0	69	63	97	3	6	7	-20	44	99
2	13	-7	265	265	99	2	16	4	160	196	99	3	2	-4	76	68	71	3	4	1	151	148	99	3	6	8	195	193	99
2	13	-6	85	61	99	2	17	-3	171	191	99	3	2	-3	400	394	99	3	4	2	360	391	99	3	6	9	230	234	99
2	13	-5	105	112	99	2	17	-2	101	11	99	3	2	-2	161	159	99	3	4	3	154	157	99	3	6	10	39	23	99
2	13	-4	-66	31	99	2	17	-1	-167	76	99	3	2	-1	341	375	99	3	4	4	75	67	99	3	6	11	99	94	99
2	13	-3	353	353	99	2	17	0	63	106	99	3	2	0	31	35	99	3	4	5	34	59	99	3	7	-12	-89	66	99
2	13	-2	-145	6	99	2	17	1	-8	5	99	3	2	1	377	384	99	3	4	6	437	449	99	3	7	-11	55	60	99
2	13	-1	150	186	99	2	17	2	-41	110	99	3	2	2	141	142	99	3	4	7	48	15	99	3	7	-10	254	231	99
2	13	0	92	173	99	3	0	-12	243	265	99	3	2	3	194	194	99	3	4	8	512	518	99	3	7	-9	-54	40	99
2	13	1	96	3	99	3	0	-10	32	3	99	3	2	4	0	2	99	3	4	9	48	68	99	3	7	-8	229	213	99
2	13	2	136	158	99	3	0	-8	815	858	99	3	2	5	111	119	99	3	4	10	67	34	99	3	7	-7	-20	50	99
2	13	3	499	509	99	3	0	-6	312	319	99	3	2	6	44	37	38	3	4	11	42	25	99	3	7	-6	210	199	99
2	13	4	52	19	99	3	0	-4	242	260	99	3	2	7	83	68	99	3	5	-12	58	7	99	3	7	-5	12	32	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	7	-4	300	300	99	3	9	7	618	562	99	3	12	3	152	135	99	4	0	-10	154	174	99	4	2	8	-19	13	99
3	7	-3	447	440	99	3	9	8	67	32	99	3	12	4	-58	28	99	4	0	-8	676	747	99	4	2	9	259	267	99
3	7	-2	544	525	99	3	9	9	45	72	99	3	12	5	70	86	99	4	0	-6	73	19	83	4	2	10	28	13	99
3	7	-1	102	98	99	3	9	10	46	50	99	3	12	6	196	183	99	4	0	-4	568	576	99	4	2	11	38	14	99
3	7	0	233	244	99	3	10	-10	-86	23	99	3	12	7	46	18	99	4	0	-2	307	297	99	4	3	-12	31	19	99
3	7	1	41	68	99	3	10	-9	99	92	99	3	12	8	194	188	99	4	0	0	480	474	99	4	3	-11	-36	20	99
3	7	2	44	48	99	3	10	-8	264	253	99	3	13	-8	63	36	99	4	0	2	943	939	99	4	3	-10	227	225	99
3	7	3	82	81	99	3	10	-7	-60	21	99	3	13	-7	158	164	99	4	0	4	39	41	99	4	3	-9	293	298	99
3	7	4	141	155	99	3	10	-6	-48	22	99	3	13	-6	183	178	99	4	0	6	407	446	99	4	3	-8	147	142	99
3	7	5	-10	8	99	3	10	-5	183	170	99	3	13	-5	-99	16	99	4	0	8	136	143	99	4	3	-7	287	287	99
3	7	6	342	329	99	3	10	-4	134	145	99	3	13	-4	122	110	99	4	0	10	185	186	99	4	3	-6	84	73	99
3	7	7	294	269	99	3	10	-3	148	160	99	3	13	-3	521	558	99	4	1	-12	-57	30	99	4	3	-5	54	54	99
3	7	8	298	281	99	3	10	-2	389	394	99	3	13	-2	81	57	99	4	1	-11	46	12	99	4	3	-4	141	116	99
3	7	9	48	48	99	3	10	-1	188	188	99	3	13	-1	117	121	99	4	1	-10	182	197	99	4	3	-3	56	43	94
3	7	10	69	87	99	3	10	0	-41	52	99	3	13	0	59	22	99	4	1	-9	403	430	99	4	3	-2	320	311	99
3	8	-11	37	60	99	3	10	1	95	98	99	3	13	1	180	159	99	4	1	-8	133	128	99	4	3	-1	40	32	99
3	8	-10	59	12	99	3	10	2	344	337	99	3	13	2	73	34	99	4	1	-7	297	316	99	4	3	0	471	491	99
3	8	-9	206	205	99	3	10	3	-55	8	99	3	13	3	162	136	99	4	1	-6	131	135	99	4	3	1	981	1026	99
3	8	-8	501	475	99	3	10	4	-61	27	99	3	13	4	-20	117	99	4	1	-5	65	57	87	4	3	2	358	359	99
3	8	-7	183	173	99	3	10	5	-122	69	99	3	13	5	79	11	99	4	1	-4	122	118	99	4	3	3	42	53	99
3	8	-6	190	185	99	3	10	6	52	116	99	3	13	6	-147	27	99	4	1	-3	208	218	99	4	3	4	226	214	99
3	8	-5	-56	21	99	3	10	7	72	16	99	3	13	7	157	139	99	4	1	-2	302	296	99	4	3	5	97	108	99
3	8	-4	190	190	99	3	10	8	242	217	99	3	14	-7	-61	14	99	4	1	-1	-12	4	99	4	3	6	83	63	99
3	8	-3	183	191	99	3	10	9	153	142	99	3	14	-6	77	18	99	4	1	0	350	357	99	4	3	7	221	231	99
3	8	-2	981	988	99	3	11	-10	43	155	99	3	14	-5	151	136	99	4	1	1	1288	1335	99	4	3	8	242	252	99
3	8	-1	294	284	99	3	11	-9	38	0	99	3	14	-4	138	109	99	4	1	2	250	250	99	4	3	9	43	33	99
3	8	0	55	47	99	3	11	-8	148	149	99	3	14	-3	45	72	99	4	1	3	77	77	99	4	3	10	126	130	99
3	8	1	182	197	99	3	11	-7	74	41	99	3	14	-2	294	293	99	4	1	4	206	214	99	4	4	-12	-50	33	99
3	8	2	214	216	99	3	11	-6	106	132	99	3	14	-1	51	60	99	4	1	5	88	104	99	4	4	-11	51	15	99
3	8	3	157	160	99	3	11	-5	-61	34	99	3	14	0	-160	37	99	4	1	6	40	30	99	4	4	-10	174	154	99
3	8	4	36	49	99	3	11	-4	206	209	99	3	14	1	62	12	99	4	1	7	311	354	99	4	4	-9	53	53	99
3	8	5	76	86	99	3	11	-3	130	113	99	3	14	2	220	250	99	4	1	8	194	198	99	4	4	-8	671	667	99
3	8	6	320	314	99	3	11	-2	329	339	99	3	14	3	85	46	99	4	1	9	-41	14	99	4	4	-7	116	98	99
3	8	7	-47	24	99	3	11	-1	70	41	99	3	14	4	-36	34	99	4	1	10	122	113	99	4	4	-6	22	18	99
3	8	8	384	356	99	3	11	0	167	158	99	3	14	5	-77	38	99	4	1	11	173	160	99	4	4	-5	123	119	99
3	8	9	115	101	99	3	11	1	73	4	99	3	14	6	56	100	99	4	2	-12	33	6	99	4	4	-4	460	459	99
3	8	10	26	28	99	3	11	2	53	23	99	3	15	-6	-51	81	99	4	2	-11	129	125	99	4	4	-3	82	88	99
3	9	-11	131	116	99	3	11	3	157	159	99	3	15	-5	62	28	99	4	2	-10	46	8	99	4	4	-2	255	252	99
3	9	-10	99	94	99	3	11	4	31	92	99	3	15	-4	-69	115	99	4	2	-9	218	226	99	4	4	-1	74	73	99
3	9	-9	166	149	99	3	11	5	-74	4	99	3	15	-3	98	34	99	4	2	-8	106	97	99	4	4	0	427	439	99
3	9	-8	-70	3	99	3	11	6	231	224	99	3	15	-2	189	176	99	4	2	-7	511	549	99	4	4	1	126	87	99
3	9	-7	285	265	99	3	11	7	21	60	99	3	15	-1	58	3	99	4	2	-6	-51	8	99	4	4	2	804	820	99
3	9	-6	250	253	99	3	11	8	208	198	99	3	15	0	-89	88	99	4	2	-5	92	103	99	4	4	3	97	88	99
3	9	-5	58	24	99	3	12	-9	222	186	99	3	15	1	-6	29	99	4	2	-4	109	103	99	4	4	4	45	41	99
3	9	-4	82	68	99	3	12	-8	225	235	99	3	15	2	63	2	99	4	2	-3	85	77	99	4	4	5	42	56	99
3	9	-3	902	913	99	3	12	-7	155	150	99	3	15	3	34	152	99	4	2	-2	47	8	89	4	4	6	374	384	99
3	9	-2	-20	40	99	3	12	-6	114	107	99	3	15	4	-126	40	99	4	2	-1	-34	35	99	4	4	7	98	98	99
3	9	-1	186	178	99	3	12	-5	52	23	99	3	16	-4	101	53	99	4	2	0	34	24	99	4	4	8	134	132	99
3	9	0	-69	34	99	3	12	-4	-60	109	99	3	16	-3	73	94	99	4	2	1	396	398	99	4	4	9	45	42	99
3	9	1	239	242	99	3	12	-3	-94	155	99	3	16	-2	220	201	99	4	2	2	138	137	99	4	4	10	170	170	99
3	9	2	-18	30	99	3	12	-2	474	505	99	3	16	-1	178	157	99	4	2	3	187	181	99	4	5	-12	-73	40	99
3	9	3	258	255	99	3	12	-1	233	241	99	3	16	0	-22	23	99	4	2	4	-35	4	99	4	5	-11	35	3	99
3	9	4	131	103	99	3	12	0	73	34	99	3	16	1	112	101	99	4	2	5	132	150	99	4	5	-10	129	117	99
3	9	5	-68	16	99	3	12	1	157	162	99	3	16	2	122	37	99	4	2	6	31	70	99	4	5	-9	474	450	99
3	9	6	75	30	99	3	12	2	-40	46	99	4	0	-12	32	35	99	4	2	7	229	242	99	4	5	-8	76	82	99
4	5	-7	285	272	99	4	7	4	192	190	99	4	10	-1	-67	34	99	4	14	-6	48	26	99	5	2	-5	294	289	99
4	5	-6	157	153	99	4	7	5	65	84	99	4	10	0	78	68	99	4	14	-5	-25	71	99	5	2	-4	110	96	99
4	5	-5	44	45	99	4	7	6	-43	63	99	4	10	1	128	148	99	4	14	-4	187	194	99	5	2	-3	6	55	99
4	5	-4	-10	45	99	4	7	7	67	78	99	4	10	2	357	345	99	4	14	-3	34	23	99	5	2	-2	-31	11	99
4	5	-3	327	335	99	4	7	8	248	233	99	4	10	3	-20	24	99	4	14	-2	66	22	99	5	2	-1	77	75	99
4	5	-2	157	160	99	4	7	9	-19	25	99	4	10	4	58	15	99	4	14	-1	49	35	99	5	2	0	113	96	99
4	5	-1	-23	34	99	4	8	-11	32	24	99	4	10	5	146	110	99	4	14	0	-129	62	99	5	2	1	359	364	99
4	5	0	155	166	99	4	8	-10	116	109	99	4	10	6	219	187	99	4	14	1	-68	55	99	5	2	2	22	13	99
4	5	1	1222	1251	99	4	8	-9	102	80	99	4	10	7	77	86	99	4	14	2	217	260	99	5	2	3	212	198	99
4	5	2	100	85	99	4	8	-8	508	471	99	4	10	8	58	46	99	4	14	3	107	38	99	5	2	4	54	8	99
4	5	3	110	86	99	4	8	-7	145	145	99	4	11	-9	43	12	99	4	14	4	-46	7	99	5	2	5	90	88	99
4	5	4	203	202	99	4	8	-6	-57	16	99	4	11	-8	81	72	99	4	15	-4	-110	20	99	5	2	6	68	61	99
4	5	5	-47	74	99	4	8	-5	156	166	99	4	11	-7	71	115	99	4	15	-3	71	130	99	5	2	7	-38	26	99
4	5	6	29	15	99	4	8	-4	246	247	99	4	11	-6	37	24	99	4	15	-2	-87	47	99	5	2	8	-19	4	99
4	5	7	166	372	99	4	8	-3	132	118	99	4	11	-5	-27	2	99	4	15	-1	-49	20	99	5	2	9	45	39	99
4	5	8	97	103	99	4	8	-2	164	162	99	4	11	-4	76	57	99	4	15	0	179	184	99	5	3	-11	23	13	99
4	5	9	33	29	99	4	8	-1	105	102	99	4	11	-3	140	144	99	4	15	1	-48	20	99	5	3	-10	73	78	99
4	5	10	26	73	99	4	8	0	324	325	99	4	11	-2	121	119	99	4	15	2	144	142	99	5	3	-9	70	80	99
4	6	-11	94	95	99	4	8	1	114	120	99	4	11	-1	-104	33	99	5	0	-10	135	147	99	5	3	-8	60	43	99
4	6	-10	-28	22	99	4	8	2	579	557	99	4	11	0	307	328	99	5	0	-8	29	30	99	5	3	-7	39	13	99
4	6	-9	177	170	99	4	8	3	143	123	99	4	11	1	209	196	99	5	0	-6	296	301	99	5	3	-6	392	369	99
4	6	-8	245	236	99	4	8	4	34	33	99	4	11	2	242	249	99	5	0	-4	893	912	99	5	3	-5	392	375	99
4	6	-7	421	413	99	4	8	5	88	83	99	4	11	3	-99	2	99	5	0	-2	-56	6	99	5	3	-4	197	194	99
4	6	-6	18	19	99	4	8	6	250	241	99	4	11	4	150	138	99	5	0	0	231	223	99	5	3	-3	-48	11	99
4	6	-5	40	43	99	4	8	7	161	144	99	4	11	5	-52	56	99	5	0	2	398	384	99	5	3	-2	202	209	99
4	6	-4	239	247	99	4	8	8	109	101	99	4	11	6	78	40	99	5	0	4	290	291	99	5	3	-1	-56	43	99
4	6	-3	55	50	99	4	8	9	9	67	99	4	11	7	-58	25	99	5	0	6	340	361	99	5	3	0	101	99	99
4	6	-2	12	22	99	4	9	-10	-76	37	99	4	12	-8	251	260	99	5	0	8	43	46	99	5	3	1	564	575	99
4	6	-1	40	36	99	4	9	-9	394	359	99	4	12	-7	61	134	99	5	1	-11	24	21	99	5	3	2	474	459	99
4	6	0	71	56	99	4	9	-8	51	31	99	4	12	-6	-52	12	99	5	1	-10	14	48	99	5	3	3	50	1	99
4	6	1	288	282	99	4	9	-7	216	199	99	4	12	-5	137	142	99	5	1	-9	137	141	99	5	3	4	274	262	99
4	6	2	321	323	99	4	9	-6	142	134	99	4	12	-4	73	81	99	5	1	-8	-45	18	99	5	3	5	190	192	99
4	6	3	109	118	99	4	9	-5	52	26	99	4	12	-3	95	100	99	5	1	-7	37	22	99	5	3	6	128	139	99
4	6	4	-81	14	99	4	9	-4	-86	22	99	4	12	-2	74	88	99	5	1	-6	327	328	99	5	3	7	-17	8	99
4	6	5	137	135	99	4	9	-3	307	305	99	4	12	-1	-92	89	99	5	1	-5	564	548	99	5	3	8	173	184	99
4	6	6	182	168	99	4	9	-2	-68	21	99	4	12	0	184	191	99	5	1	-4	163	157	99	5	3	9	23	29	99
4	6	7	191	173	99	4	9	-1	-9	38	99	4	12	1	-63	105	99	5	1	-3	-29	31	99	5	4	-11	-23	40	99
4	6	8	59	35	99	4	9	0	13	6	99	4	12	2	288	297	99	5	1	-2	216	228	99	5	4	-10	143	125	99
4	6	9	215	220	99	4	9	1	937	927	99	4	12	3	133	110	99	5	1	-1	-37	32	99	5	4	-9	20	30	99
4	6	10	-50	35	99	4	9	2	70	35	99	4	12	4	-59	20	99	5	1	0	-21	33	99	5	4	-8	-49	28	99
4	7	-11	-56	22	99	4	9	3	-40	71	99	4	12	5	79	76	99	5	1	1	771	772	99	5	4	-7	-66	36	99
4	7	-10	217	192	99	4	9	4	168	161	99	4	12	6	88	105	99	5	1	2	378	372	99	5	4	-6	285	271	99
4	7	-9	154	133	99	4	9	5	41	41	99	4	13	-7	100	127	99	5	1	3	-51	6	99	5	4	-5	130	116	99
4	7	-8	134	117	99	4	9	6	-95	41	99	4	13	-6	67	102	99	5	1	4	243	231	99	5	4	-4	814	794	99
4	7	-7	215	202	99	4	9	7	305	292	99	4	13	-5	87	11	99	5	1	5	362	313	99	5	4	-3	108	110	99
4	7	-6	18	23	99	4	9	8	23	14	99	4	13	-4	-109	52	99	5	1	6	105	113	99	5	4	-2	-6	4	99
4	7	-5	-55	30	99	4	10	-10	-92	29	99	4	13	-3	196	205	99	5	1	7	-47	5	99	5	4	-1	31	20	99
4	7	-4	108	104	99	4	10	-9	-73	93	99	4	13	-2	-16	47	99	5	1	8	191	195	99	5	4	0	166	184	99
4	7	-3	55	87	99	4	10	-8	272	264	99	4	13	-1	-56	29	99	5	1	9	-60	25	99	5	4	1	86	55	99
4	7	-2	232	224	99	4	10	-7	235	246	99	4	13	0	61	74	99	5	2	-11	30	45	99	5	4	2	344	345	99
4	7	-1	33	43	99	4	10	-6	-71	25	99	4	13	1	542	564	99	5	2	-10	-34	39	99	5	4	3	73	66	99
4	7	0	458	466	99	4	10	-5	-54	36	99	4	13	2	75	81	99	5	2	-9	-36	21	99	5	4	4	269	262	99
4	7	1	532	549	99	4	10	-4	250	263	99	4	13	3	80	46	99	5	2	-8	25	16	99	5	4	5	63	82	99
4	7	2	357	345	99	4	10	-3	-57	6	99	4	13	4	-24	108	99	5	2	-7	296	307	99	5	4	6	326	315	99
4	7	3	-65	26	99	4	10	-2	57	25	99	4	13	5	45	14	99	5	2	-6	-11	28	99	5	4	7	-39	55	99

h	k	l	Fo	Fc	sigF2
5	4	8	48	44	99
5	4	9	23	32	99
5	5	-11	-51	25	99
5	5	-10	49	7	99
5	5	-9	159	151	99
5	5	-8	36	19	99
5	5	-7	60	26	99
5	5	-6	213	210	99
5	5	-5	602	580	99
5	5	-4	90	79	99
5	5	-3	53	41	99
5	5	-2	193	196	99
5	5	-1	-51	27	99
5	5	0	34	50	99
5	5	1	771	767	99
5	5	2	204	199	99
5	5	3	-64	11	99
5	5	4	143	144	99
5	5	5	358	348	99
5	5	6	63	60	99
5	5	7	9	9	99
5	5	8	157	173	99
5	5	9	30	20	99
5	6	-10	66	94	99
5	6	-9	46	7	99
5	6	-8	15	42	99
5	6	-7	271	251	99
5	6	-6	55	72	99
5	6	-5	215	214	99
5	6	-4	229	232	99
5	6	-3	40	23	99
5	6	-2	55	24	99
5	6	-1	126	102	99
5	6	0	228	230	99
5	6	1	275	272	99
5	6	2	52	34	99
5	6	3	168	160	99
5	6	4	11	20	99
5	6	5	-70	55	99
5	6	6	147	148	99
5	6	7	-33	12	99
5	6	8	-62	11	99
5	7	-10	67	78	99
5	7	-9	35	4	99
5	7	-8	43	47	99
5	7	-7	31	5	99
5	7	-6	330	321	99
5	7	-5	166	163	99
5	7	-4	158	168	99
5	7	-3	31	12	99
5	7	-2	165	165	99
5	7	-1	65	54	99
5	7	0	114	109	99
5	7	1	300	296	99
5	7	2	431	420	99
5	7	3	33	1	99
5	7	4	219	220	99
5	7	5	41	56	99
5	7	6	124	123	99
5	7	7	-44	9	99
5	7	8	160	144	99
5	8	-10	85	74	99
5	8	-9	-72	42	99
5	8	-8	37	21	99
5	8	-7	37	56	99
5	8	-6	203	202	99
5	8	-5	157	164	99
5	8	-4	531	522	99
5	8	-3	144	159	99
5	8	-2	-9	1	99
5	8	-1	-84	31	99
5	8	0	103	103	99
5	8	1	105	76	99
5	8	2	272	256	99
5	8	3	59	98	99
5	8	4	206	187	99
5	8	5	-56	57	99
5	8	6	215	208	99
5	8	7	118	81	99
5	9	-9	121	116	99
5	9	-8	30	40	99
5	9	-7	34	24	99
5	9	-6	84	90	99
5	9	-5	480	464	99
5	9	-4	51	10	99
5	9	-3	55	45	99
5	9	-2	144	143	99
5	9	-1	56	23	99
5	9	0	99	95	99
5	9	1	589	585	99
5	9	2	-70	48	99
5	9	3	-94	12	99
5	9	4	49	48	99
5	9	5	304	295	99
5	9	6	10	9	99
5	9	7	-55	10	99
5	10	-8	-26	51	99
5	10	-7	154	167	99
5	10	-6	79	87	99
5	10	-5	58	115	99
5	10	-4	263	258	99
5	10	-3	45	12	99
5	10	-2	-53	20	99
5	10	-1	133	120	99
5	10	0	241	246	99
5	10	1	164	149	99
5	10	2	13	44	99
5	10	3	147	104	99
5	10	4	-48	27	99
5	10	5	-32	14	99
5	10	6	167	164	99
5	11	-7	-12	0	99
5	11	-6	199	224	99
5	11	-5	78	9	99
5	11	-4	113	108	99
5	11	-3	-53	18	99
5	11	-2	129	113	99
5	11	-1	-68	52	99
5	11	0	-79	78	99
5	11	1	-104	76	99
5	11	2	329	301	99
5	11	3	27	5	99
5	11	4	165	141	99
5	11	5	-69	29	99
5	12	-6	131	126	99
5	12	-5	142	142	99
5	12	-4	254	254	99
5	12	-3	75	141	99
5	12	-2	29	6	99
5	12	-1	-139	27	99
5	12	0	-117	28	99
5	12	1	93	66	99
5	12	2	142	160	99
5	12	3	96	94	99
5	12	4	105	106	99
5	13	-5	284	291	99
5	13	-4	62	21	99
5	13	-3	64	42	99
5	13	-2	72	93	99
5	13	-1	93	16	99
5	13	0	70	97	99
5	13	1	343	358	99
5	13	2	84	30	99
5	13	3	70	10	99
5	14	-3	76	20	99
5	14	-2	-65	9	99
5	14	-1	-126	107	99
5	14	0	198	185	99
6	0	-10	297	332	99
6	0	-8	50	49	99
6	0	-6	329	342	99
6	0	-4	341	338	99
6	0	-2	161	155	99
6	0	0	212	212	99
6	0	2	-88	5	99
6	0	4	540	531	99
6	0	6	208	206	99
6	0	8	106	94	99
6	1	-10	36	17	99
6	1	-9	18	23	99
6	1	-8	159	160	99
6	1	-7	-62	6	99
6	1	-6	125	116	99
6	1	-5	398	406	99
6	1	-4	241	238	99
6	1	-3	13	14	99
6	1	-2	165	160	99
6	1	-1	352	347	99
6	1	0	40	34	99
6	1	1	-30	10	99
6	1	2	-51	43	99
6	1	3	12	29	99
6	1	4	112	108	99
6	1	5	489	490	99
6	1	6	197	202	99
6	1	7	-17	6	99
6	1	8	84	71	99
6	2	-10	70	41	99
6	2	-9	-71	32	99
6	2	-8	38	2	99
6	2	-7	38	14	99
6	2	-6	42	49	99
6	2	-5	105	88	99
6	2	-4	19	32	99
6	2	-3	318	320	99
6	2	-2	54	10	99
6	2	-1	188	185	99
6	2	0	70	68	99
6	2	1	-87	14	99
6	2	2	-35	13	99
6	2	3	-31	41	99
6	2	4	83	53	99
6	2	5	242	236	99
6	2	6	70	22	99
6	2	7	101	106	99
6	2	8	31	3	99
6	3	-10	79	29	99
6	3	-9	-76	31	99
6	3	-8	169	161	99
6	3	-7	-43	6	99
6	3	-6	138	146	99
6	3	-5	294	282	99
6	3	-4	287	286	99
6	3	-3	-16	21	99
6	3	-2	212	212	99
6	3	-1	247	238	99
6	3	0	-13	71	99
6	3	1	36	29	99
6	3	2	-58	47	99
6	3	3	-66	36	99
6	3	4	163	152	99
6	3	5	372	367	99
6	3	6	250	251	99
6	3	7	46	1	99
6	4	-10	313	292	99
6	4	-9	35	41	99
6	4	-8	54	46	99
6	4	-7	-45	40	99
6	4	-6	317	303	99
6	4	-5	17	28	99
6	4	-4	315	303	99
6	4	-3	83	47	99
6	4	-2	145	142	99
6	4	-1	67	60	99
6	4	0	180	173	99
6	4	1	37	59	99
6	4	2	-44	2	99
6	4	3	53	43	99
6	4	4	461	467	99
6	4	5	100	59	99
6	4	6	190	188	99
6	4	7	28	7	99
6	4	8	13	99	
6	5	-9	-12	13	99
6	5	-8	151	136	99
6	5	-7	45	6	99
6	5	-6	30	61	99
6	5	-5	434	420	99
6	5	-4	136	137	99
6	5	-3	30	8	99
6	5	-2	95	71	99
6	5	-1	360	358	99
6	5	0	54	14	99
6	5	1	56	32	99
6	5	2	-18	33	99
6	5	3	38	15	99
6	5	4	-27	37	99
6	5	5	515	497	99
6	5	6	114	113	99
6	5	7	-27	7	99
6	6	-9	31	36	99
6	6	-8	27	6	99
6	6	-7	12	19	99
6	6	-6	121	120	99
6	6	-5	51	62	99
6	6	-4	87	80	99
6	6	-3	249	262	99
6	6	-2	51	29	99
6	6	-1	117	130	99
6	6	0	169	166	99
6	6	1	23	25	99
6	6	2	68	28	99
6	6	3	61	40	99
6	6	4	148	130	99
6	6	5	192	186	99
6	6	6	-14	55	99
6	7	-8	122	135	99
6	7	-7	-32	8	99
6	7	-6	119	132	99
6	7	-5	124	120	99
6	7	-4	233	252	99
6	7	-3	-20	21	99
6	7	-2	196	204	99
6	7	-1	54	97	99
6	7	0	53	76	99
6	7	1	-81	50	99
6	7	2	56	45	99
6	7	3	51	34	99
6	7	4	153	144	99
6	7	5	204	194	99
6	7	6	254	238	99
6	8	-8	56	36	99
6	8	-7	-56	60	99
6	8	-6	197	207	99
6	8	-5	59	42	99
6	8	-4	210	217	99
6	8	-3	50	74	99
6	8	-2	113	113	99
6	8	-1	33	84	99
6	8	0	-65	84	99
6	8	1	41	85	99
6	8	2	-12	6	99
6	8	3	-67	63	99
6	8	4	325	318	99
6	8	5	104	85	99
6	9	-7	-16	8	99
6	9	-6	-80	10	99
6	9	-5	311	333	99
6	9	-4	55	40	99
6	9	-3	66	6	99
6	9	-2	-68	2	99
6	9	-1	267	275	99
6	9	0	68	44	99
6	9	1	17	41	99
6	9	2	64	28	99
6	9	3	-43	10	99
6	9	4	-87	20	99
6	9	5	408	394	99
6	10	-6	138	136	99
6	10	-5	-28	28	99
6	10	-4	103	94	99
6	10	-3	159	174	99
6	10	-2	-98	40	99
6	10	-1	-63	58	99
6	10	0	199	184	99
6	10	1	59	42	99
6	10	2	62	28	99
6	10	3	45	36	99
6	10	4	175	147	99
6	11	-5	-12	4	99
6	11	-4	156	170	99
6	11	-3	-65	14	99
6	11	-2	179	154	99
6	11	-1	70	10	99
6	11	0	53	55	99
6	11	1	56	52	99
6	11	2	-134	33	99
6	11	3	81	28	99
6	12	-3	38	79	99
6	12	-2	66	79	99
6	12	-1	65	69	99
6	12	0	-81	8	99
7	4	-3	73	42	99
7	4	-2	475	466	99
7	4	-1	102	33	99
7	4	0	216	209	99
7	4	1	55	19	99
7	4	2	41	18	99
7	4	3	49	24	99
7	4	4	127	129	99
7	4	5	53	52	99
7	5	-7	187	182	99
7	5	-6	-22	15	99
7	5	-5	-86	12	99
7	5	-4	71	72	99
7	5	-3	-55	36	99
7	5	-2	109	90	99
7	5	-1	537	521	99
7	5	0	37	77	99
7	5	1	-89	5	99
7	5	2	-101	36	99
7	5	3	25	57	99
7	5	4	63	8	99
7	6	-7	-17	95	99
7	6	-6	106	112	99
7	6	-5	58	48	99
7	6	-4	-74	3	99
7	6	-3	69	67	99
7	6	-2	129	116	99
7	6	-1	68	88	99
7	6	0	72	52	99
7	6	1	-72	25	99
7	6	2	59	6	99
7	6	3	42	4	99
7	6	4	132	110	99
7	7	-6	68	30	99
7	7	-5	-99	35	99
7	7	-4	-54	72	99
7	7	-3	-96	24	99
7	7	-2	187	190	99
7	7	-1	196	195	99
7	7	0	190	194	99
7	7	1	16	6	99
7	7	2	-98	12	99
7	7	3	87	36	99
7	8	-5	-37	48	99
7	8	-4	41	15	99
7	8	-3	-35	64	99
7	8	-2	338	336	99
7	8	-1	-102	50	99
7	8	0	132	148	99
7	8	1	47	32	99
7	8	2	64	8	99
7	9	-3	34	34	99
7	9	-2	40	21	99
7	9	-1	406	414	99
7	9	0	-30	1	99
7	9	1	61	1	99
8	0	-4	48	27	99
8	0	-2	214	202	99
8	0	0	57	19	99
8	1	-5	-61	17	99
8	1	-4	56	55	99
8	1	-3	44	34	99
8	1	-2	-51	14	99
8	1	-1	130	133	99
8	1	0	-52	35	99
8	1	1	16	49	99
8	2	-4	25	7	99
8	2	-3	65	16	99
8	2	-2	42	41	99
8	2	-1	166	162	99
8	2	0	51	5	99
8	2	1	125	131	99
8	3	-4	-98	50	99
8	3	-3	59	6	99
8	3	-2	48	15	99
8	3	-1	126	107	99
8	3	0	74	52	99
8	3	1	65	50	99
8	4	-3	52	30	99
8	4	-2	177	177	99
8	4	-1	57	43	99
8	4	0	-74	19	99

APPENDIX 3.II

$[Ni(S_2COnPr)_2]$

Table 3.II.1: Crystallographic Parameters for $[Ni(S_2COCH_2CH_2CH_3)_2]$

Formula	$C_8H_{14}NiO_2S_4$
Formula weight	329.10
Crystal morphology / colour	block / brown
Crystal dimensions (mm)	0.09 x 0.31 x 0.39
Crystal system	triclinic
Space group	$P\bar{1}$ (#2)
a (Å)	9.482(2)
b (Å)	9.972(1)
c (Å)	7.701(1)
α (°)	93.62(1)
β (°)	105.96(1)
γ (°)	73.11(1)
V (Å^3)	669.8(2)
Z	2
$\rho_{calc.}$ (g cm^{-3})	1.631
$F(000)$	340
Temperature (°K)	293
μ (cm^{-1})	20.33
θ limits, cell (°)	24.2 – 25
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 12, -13 – 13, -10 – 10
Range of transmission factors	0.967 – 1
Scan technique	ω:2θ
No. of data measured	3270
No. of unique data	3084
R_{amal}	0.023
No. of parameters	136
R (I≥0σ(I))	0.057
R_w (I≥0σ(I))	0.071
R (I≥3σ(I))	0.037
R_w (I≥3σ(I))	0.034
Maximum and minimum residual electron density (e Å^{-3})	0.54, -0.48

Table 3.II.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2COCH_2CH_2CH_3)_2]$

Atom	*x*	*y*	*z*
Ni	0.19422(4)	0.45878(4)	0.20818(6)
S(1)	0.11540(9)	0.67941(8)	0.2838(1)
S(2)	-0.04000(8)	0.47180(7)	0.2238(1)
S(3)	0.43395(8)	0.44479(8)	0.2192(1)
S(4)	0.28322(8)	0.23321(7)	0.1545(1)
O(1)	-0.1573(2)	0.7334(2)	0.3264(3)
O(2)	0.5729(2)	0.1752(2)	0.1751(3)
C(1)	-0.0454(3)	0.6383(3)	0.2835(4)
C(2)	-0.2998(3)	0.7005(3)	0.3187(4)
C(3)	-0.4168(3)	0.8372(3)	0.3263(4)
C(4)	-0.5684(3)	0.8158(3)	0.3238(5)
C(5)	0.4488(3)	0.2738(3)	0.1830(4)
C(6)	0.7181(3)	0.2102(3)	0.2073(4)
C(7)	0.8395(3)	0.0754(3)	0.2110(5)
C(8)	0.9920(4)	0.0977(3)	0.2324(6)

Table 3.II.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2COCH_2CH_2CH_3)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0436(2)	0.0443(2)	0.0469(3)	-0.0105(2)	0.0123(2)	0.0025(2)
S(1)	0.0500(4)	0.0491(4)	0.0751(7)	-0.0184(4)	0.0206(4)	-0.0084(4)
S(2)	0.0489(4)	0.0438(4)	0.0568(6)	-0.0139(3)	0.0171(4)	-0.0011(4)
S(3)	0.0477(4)	0.0464(4)	0.0737(6)	-0.0140(3)	0.0179(4)	-0.0012(4)
S(4)	0.0469(4)	0.0467(4)	0.0590(6)	-0.0143(3)	0.0130(4)	0.0009(4)
O(1)	0.048(1)	0.047(1)	0.053(1)	-0.0128(9)	0.017(1)	-0.0059(9)
O(2)	0.045(1)	0.049(1)	0.069(2)	-0.0091(9)	0.015(1)	-0.003(1)
C(1)	0.045(2)	0.045(2)	0.034(2)	-0.011(1)	0.008(1)	0.003(1)
C(2)	0.046(2)	0.050(2)	0.046(2)	-0.014(1)	0.014(1)	0.002(1)
C(3)	0.051(2)	0.051(2)	0.064(2)	-0.009(1)	0.019(2)	-0.004(2)
C(4)	0.052(2)	0.068(2)	0.070(3)	-0.007(2)	0.020(2)	-0.003(2)
C(5)	0.045(2)	0.048(2)	0.032(2)	-0.009(1)	0.007(1)	0.003(1)
C(6)	0.043(2)	0.055(2)	0.063(2)	-0.015(1)	0.010(2)	-0.003(2)
C(7)	0.052(2)	0.053(2)	0.108(3)	-0.009(2)	0.021(2)	-0.002(2)
C(8)	0.054(2)	0.060(2)	0.125(4)	-0.007(2)	0.027(2)	-0.007(2)

Table 3.II.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Ni(S_2COCH_2CH_2CH_3)_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	-0.2852	0.6408	0.4206	4.4111
H(2b)	-0.3322	0.6534	0.2071	4.4111
H(3a)	-0.3807	0.8843	0.4365	5.2642
H(3b)	-0.4307	0.8950	0.2228	5.2642
H(4a)	-0.6417	0.9059	0.3292	6.0992
H(4b)	-0.6056	0.7694	0.2135	6.0992
H(4c)	-0.5554	0.7582	0.4272	6.0992
H(6a)	0.7131	0.2710	0.1109	5.1547
H(6b)	0.7394	0.2568	0.3219	5.1547
H(7a)	0.8124	0.0274	0.0987	6.8370
H(7b)	0.8457	0.0179	0.3114	6.8370
H(8a)	1.0207	0.1448	0.3451	7.6446
H(8b)	1.0675	0.0079	0.2335	7.6446
H(8c)	0.9869	0.1551	0.1325	7.6446

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 3.II.5: Bond distances (Å) for [Ni($S_2COCH_2CH_2CH_3$)2]

Ni — S(1)	2.2048(9)	O(1) — C(1)	1.306(3)
Ni — S(2)	2.2230(9)	O(1) — C(2)	1.465(3)
Ni — S(3)	2.2147(9)	O(2) — C(5)	1.309(3)
Ni — S(4)	2.2167(8)	O(2) — C(6)	1.469(3)
S(1) — C(1)	1.689(3)	C(2) — C(3)	1.497(4)
S(2) — C(1)	1.684(3)	C(3) — C(4)	1.509(4)
S(3) — C(5)	1.682(3)	C(6) — C(7)	1.490(4)
S(4) — C(5)	1.687(3)	C(7) — C(8)	1.489(4)

Table 3.II.6: Bond angles (deg.) for [Ni($S_2COCH_2CH_2CH_3$)2]

S(1) — Ni — S(2)	79.10(3)	C(5) — O(2) — C(6)	119.5(2)
S(1) — Ni — S(3)	99.74(3)	S(1) — C(1) — S(2)	113.4(2)
S(1) — Ni — S(4)	175.55(4)	S(2) — C(1) — O(1)	127.2(2)
S(2) — Ni — S(3)	174.90(4)	S(1) — C(1) — O(1)	119.4(2)
S(2) — Ni — S(4)	101.63(3)	O(1) — C(2) — C(3)	106.7(2)
S(3) — Ni — S(4)	79.15(3)	C(2) — C(3) — C(4)	111.4(2)
Ni — S(1) — C(1)	83.97(9)	S(3) — C(5) — S(4)	113.9(1)
Ni — S(2) — C(1)	83.51(9)	S(3) — C(5) — O(2)	126.3(2)
Ni — S(3) — C(5)	83.52(9)	S(4) — C(5) — O(2)	119.8(2)
Ni — S(4) — C(5)	83.35(9)	O(2) — C(6) — C(7)	106.8(2)
C(1) — O(1) — C(2)	119.7(2)	C(6) — C(7) — C(8)	112.0(3)

Table 3.II.7: Observed and calculated structure factors for $[Ni(S_2COCH_2CH_2CH_3)_2]$

h	k	l	Fo	Fc	sigF
0	0	2	1541	1816	9
0	0	3	431	455	3
0	0	4	302	313	2
0	0	5	256	264	2
0	0	6	78	73	3
0	0	7	101	99	3
0	0	8	66	69	4
0	0	9	40	34	7
0	1	-9	49	34	6
0	1	-8	21	13	11
0	1	-7	138	137	3
0	1	-6	219	219	2
0	1	-5	296	309	2
0	1	-4	868	878	5
0	1	-3	275	284	2
0	1	-2	1483	1614	8
0	1	-1	60	57	1
0	1	1	319	322	2
0	1	2	196	206	2
0	1	3	269	283	2
0	1	4	191	194	2
0	1	5	186	190	2
0	1	6	70	74	3
0	1	7	120	121	3
0	1	8	18	34	12
0	1	9	46	50	7
0	2	-9	74	64	5
0	2	-8	76	84	4
0	2	-7	170	175	3
0	2	-6	299	311	3
0	2	-5	260	262	2
0	2	-4	514	525	3
0	2	-3	251	251	2
0	2	-2	304	304	2
0	2	-1	198	199	2
0	2	0	65	71	1
0	2	1	94	90	1
0	2	2	148	154	2
0	2	3	359	373	2
0	2	4	180	180	2
0	2	5	358	370	3
0	2	6	14	8	10
0	2	7	192	192	3
0	2	8	62	66	5
0	2	9	55	52	6
0	3	-9	90	65	4
0	3	-8	87	77	4
0	3	-7	121	116	3
0	3	-6	141	137	3
0	3	-5	137	130	2
0	3	-4	154	154	2
0	3	-3	44	41	3
0	3	-2	278	282	2
0	3	-1	328	315	2
0	3	0	604	591	4
0	3	1	828	824	5
0	3	2	457	461	3
0	3	3	857	883	5
0	3	4	16	8	9
0	3	5	489	503	3
0	3	6	172	173	3
0	3	7	168	164	3
0	3	8	113	110	3
0	3	9	0	27	13
0	4	-9	35	40	10
0	4	-8	38	22	7
0	4	-7	74	70	4
0	4	-6	65	62	4
0	4	-5	70	67	3
0	4	-4	242	248	2
0	4	-3	141	139	2
0	4	-2	545	551	3
0	4	-1	704	674	4
0	4	0	528	524	3
0	4	1	1077	1070	6
0	4	2	50	47	3
0	4	3	750	744	4
0	4	4	237	232	2
0	4	5	275	277	3
0	4	6	168	166	3
0	4	7	56	55	5
0	4	8	66	61	5
0	4	9	7	2	12
0	5	-8	34	23	9
0	5	-7	59	49	5
0	5	-6	158	148	3
0	5	-5	42	57	6
0	5	-4	398	390	3
0	5	-3	442	435	3
0	5	-2	489	496	3
0	5	-1	898	877	5
0	5	0	244	238	2
0	5	1	812	795	5
0	5	2	77	71	2
0	5	3	360	363	3
0	5	4	128	128	2
0	5	5	100	100	3
0	5	6	83	85	4
0	5	7	35	16	7
0	5	8	54	52	6
0	6	-8	61	54	6
0	6	-7	23	13	12
0	6	-6	189	179	3
0	6	-5	175	176	3
0	6	-4	287	281	3
0	6	-3	404	395	3
0	6	-2	210	210	2
0	6	-1	427	417	3
0	6	0	29	20	5
0	6	1	256	254	2
0	6	2	115	110	2
0	6	3	139	134	2
0	6	4	163	165	2
0	6	5	76	72	4
0	6	6	154	149	3
0	6	7	16	8	12
0	6	8	95	79	4
0	7	-7	54	42	6
0	7	-6	148	146	3
0	7	-5	114	108	3
0	7	-4	175	171	3
0	7	-3	136	133	3
0	7	-2	103	104	3
0	7	-1	178	174	2
0	7	0	24	19	8
0	7	1	256	251	2
0	7	2	212	206	2
0	7	3	231	226	3
0	7	4	280	270	3
0	7	5	89	79	3
0	7	6	184	180	3
0	7	7	25	29	13
0	7	8	71	66	6
0	8	-7	49	26	7
0	8	-6	64	63	5
0	8	-5	58	56	5
0	8	-4	39	42	7
0	8	-3	160	162	3
0	8	-2	55	48	4
0	8	-1	338	330	3
0	8	0	219	212	3
0	8	1	353	347	3
0	8	2	349	341	3
0	8	3	156	155	3
0	8	4	294	282	3
0	8	5	35	25	8
0	8	6	138	135	4
0	8	7	58	52	7
0	9	-6	1	23	13
0	9	-5	79	74	5
0	9	-4	0	7	12
0	9	-3	217	211	3
0	9	-2	80	85	4
0	9	-1	288	274	3
0	9	0	236	227	3
0	9	1	154	150	3
0	9	2	265	263	3
0	9	3	13	9	12
0	9	4	176	169	3
0	9	5	51	44	6
0	9	6	70	74	6
0	10	-5	121	110	4
0	10	-4	30	11	11
0	10	-3	196	184	3
0	10	-2	103	93	4
0	10	-1	156	151	3
0	10	0	191	179	3
0	10	1	65	60	5
0	10	2	164	160	3
0	10	3	35	12	8
0	10	4	97	93	4
0	10	5	0	9	13
0	11	-4	23	46	14
0	11	-3	90	84	5
0	11	-2	117	109	4
0	11	-1	58	53	6
0	11	0	125	120	4
0	11	1	0	23	13
0	11	2	103	97	4
0	11	3	18	20	13
0	11	4	62	66	6
0	12	-2	43	46	9
0	12	-1	29	31	12
0	12	0	72	73	6
0	12	1	3	16	13
0	12	2	105	93	4
1	-12	-1	22	19	13
1	-12	0	13	10	13
1	-11	-4	22	15	13
1	-11	-3	0	20	13
1	-11	-2	9	4	12
1	-11	-1	86	75	4
1	-11	0	36	19	8
1	-11	1	48	60	7
1	-11	2	24	12	13
1	-11	3	8	9	13
1	-10	-5	44	54	8
1	-10	-4	44	38	7
1	-10	-3	99	95	4
1	-10	-2	51	45	5
1	-10	-1	39	41	7
1	-10	0	0	13	11
1	-10	1	47	40	6
1	-10	2	87	88	4
1	-10	3	4	27	12
1	-10	4	84	79	5
1	-9	-6	22	10	12
1	-9	-5	43	37	7
1	-9	-4	0	22	11
1	-9	-3	77	62	4
1	-9	-2	130	123	3
1	-9	-1	161	154	3
1	-9	0	213	213	3
1	-9	1	86	82	4
1	-9	2	155	153	3
1	-9	3	44	46	6
1	-9	4	23	20	12
1	-9	5	76	66	5
1	-8	-7	0	5	13
1	-8	-6	37	39	8
1	-8	-5	106	98	4
1	-8	-4	111	110	3
1	-8	-3	181	180	3
1	-8	-2	161	156	3
1	-8	-1	82	78	3
1	-8	0	68	69	4
1	-8	1	91	89	3
1	-8	2	72	69	4
1	-8	3	103	104	3
1	-8	4	83	83	4
1	-8	5	24	30	11
1	-8	6	44	31	7
1	-7	-8	12	2	13
1	-7	-7	103	102	4
1	-7	-6	0	3	12
1	-7	-5	185	183	3
1	-7	-4	0	15	10
1	-7	-3	125	124	3
1	-7	-2	63	68	4
1	-7	-1	0	11	10
1	-7	0	94	99	3
1	-7	1	32	25	6
1	-7	2	32	30	6
1	-7	3	0	19	10
1	-7	4	24	34	9
1	-7	5	14	7	11
1	-7	6	0	16	12
1	-7	7	36	27	9
1	-6	-8	0	23	13
1	-6	-7	92	86	4
1	-6	-6	35	33	7
1	-6	-5	49	42	5
1	-6	-4	32	31	6
1	-6	-3	46	51	4
1	-6	-2	22	37	8
1	-6	-1	53	52	3
1	-6	0	157	153	2
1	-6	1	46	48	4
1	-6	2	154	166	2
1	-6	3	119	124	3
1	-6	4	28	43	8
1	-6	5	152	149	3
1	-6	6	46	47	6
1	-6	7	86	82	4
1	-5	-8	0	28	12
1	-5	-7	29	19	9
1	-5	-6	33	34	7
1	-5	-5	55	50	4
1	-5	-4	21	16	8
1	-5	-3	24	17	6
1	-5	-2	135	128	2
1	-5	-1	28	33	5
1	-5	0	147	145	2
1	-5	1	236	239	2
1	-5	2	37	32	4
1	-5	3	319	327	3
1	-5	4	83	83	3
1	-5	5	179	181	3
1	-5	6	81	81	4
1	-5	7	46	34	6
1	-5	8	0	30	13
1	-4	-9	0	11	13
1	-4	-8	22	18	12
1	-4	-7	34	9	7
1	-4	-6	33	27	6
1	-4	-5	73	70	3
1	-4	-4	198	201	2
1	-4	-3	52	51	3
1	-4	-2	372	373	3
1	-4	-1	237	238	2
1	-4	0	330	339	2
1	-4	1	479	478	3
1	-4	2	106	107	2
1	-4	3	272	283	2
1	-4	4	38	37	4
1	-4	5	39	42	5
1	-4	6	26	25	8
1	-4	7	21	34	11
1	-4	8	24	10	11
1	-3	-9	8	21	12
1	-3	-8	32	27	8
1	-3	-7	67	67	4
1	-3	-6	176	175	3
1	-3	-5	30	36	6
1	-3	-4	407	407	3
1	-3	-3	235	236	2
1	-3	-2	496	494	3
1	-3	-1	590	593	4
1	-3	0	297	293	2
1	-3	1	381	377	3
1	-3	2	22	16	4
1	-3	3	53	52	3
1	-3	4	50	52	3
1	-3	5	32	37	6
1	-3	6	52	59	4
1	-3	7	0	26	11
1	-3	8	51	48	6
1	-2	-9	54	43	6
1	-2	-8	104	104	3
1	-2	-7	45	47	5
1	-2	-6	249	249	3
1	-2	-5	48	44	4
1	-2	-4	309	309	2
1	-2	-3	161	167	2
1	-2	-2	161	163	2
1	-2	-1	38	30	7
1	-2	0	67	63	2
1	-2	1	144	136	1
1	-2	2	113	112	2
1	-2	3	0	12	7
1	-2	4	158	167	2
1	-2	5	28	33	6
1	-2	6	154	162	3
1	-2	7	0	7	11
1	-2	8	91	88	4
1	-2	9	25	22	12
1	-1	-9	34	19	8
1	-1	-8	93	89	4
1	-1	-7	23	14	9
1	-1	-6	94	95	3
1	-1	-5	66	71	3
1	-1	-4	21	33	6
1	-1	-3	94	92	2
1	-1	-2	40	37	2
1	-1	-1	250	253	2
1	-1	0	27	23	2
1	-1	1	422	420	3
1	-1	2	236	240	2
1	-1	3	279	285	2
1	-1	4	357	376	3
1	-1	5	85	88	3
1	-1	6	242	241	3
1	-1	7	19	25	11
1	-1	8	77	81	4
1	-1	9	0	23	12
1	0	-9	20	2	12
1	0	-8	12	14	11
1	0	-7	9	4	10
1	0	-6	16	14	10
1	0	-5	21	12	7
1	0	-4	84	85	2
1	0	-3	110	113	2
1	0	-2	148	148	1
1	0	-1	363	388	2
1	0	1	490	468	3
1	0	2	669	674	4
1	0	3	303	312	2
1	0	4	477	483	3
1	0	5	51	43	4
1	0	6	172	164	2
1	0	7	0	25	11
1	0	8	13	17	11
1	0	9	23	17	12
1	1	-9	28	21	10
1	1	-8	37	42	7
1	1	-7	20	23	10
1	1	-6	187	198	2
1	1	-5	121	128	2
1	1	-4	332	332	2
1	1	-3	522	537	3
1	1	-2	95	105	1
1	1	-1	923	923	5
1	1	1	833	826	5
1	1	2	689	677	4
1	1	3	280	281	2
1	1	4	208	204	2
1	1	5	13	6	9
1	1	6	19	11	10
1	1	7	42	49	6
1	1	8	23	14	11
1	1	9	32	42	10
1	2	-9	17	5	12
1	2	-8	116	111	3
1	2	-7	100	103	3
1	2	-6	141	136	2
1	2	-5	408	412	3
1	2	-4	146	151	2
1	2	-3	809	823	5
1	2	-2	762	777	4
1	2	-1	991	950	6
1	2	0	865	825	5
1	2	1	437	443	3
1	2	2	176	180	2
1	2	3	58	57	2
1	2	4	17	29	8
1	2	5	171	171	2
1	2	6	50	52	5
1	2	7	138	139	3
1	2	8	20	21	12
1	2	9	76	68	5
1	3	-9	40	12	
1	3	-8	30	32	9
1	3	-7	152	156	3
1	3	-6	69	69	4
1	3	-5	284	284	3
1	3	-4	191	186	2
1	3	-3	258	252	2
1	3	-2	42	38	3
1	3	-1	21	20	4
1	3	0	208	199	2
1	3	1	196	190	2
1	3	2	81	64	2
1	3	3	290	294	2
1	3	4	270	279	2
1	3	5	265	269	2
1	3	6	153	156	3
1	3	7	153	156	3
1	3	8	36	18	7
1	4	-9	40	45	9
1	4	-8	11	8	12
1	4	-7	76	83	4
1	4	-6	33	22	6
1	4	-5	112	114	3
1	4	-4	145	147	2
1	4	-3	159	160	2
1	4	-2	64	57	2
1	4	-1	172	171	2
1	4	0	500	497	3
1	4	1	34	47	3
1	4	2	777	791	5
1	4	3	253	253	2
1	4	4	451	452	3
1	4	5	219	223	2
1	4	6	86	83	3
1	4	7	97	98	3
1	4	8	19	19	12
1	4	9	44	26	6
1	5	-9	18	18	8
1	5	-8	33	28	9
1	5	-7	57	47	5
1	5	-6	44	53	6
1	5	-5	147	140	3
1	5	-4	136	135	2
1	5	-3	230	224	2
1	5	-2	655	646	4
1	5	-1	76	76	2
1	5	0	911	925	5
1	5	1	233	236	2
1	5	2	595	577	4
1	5	3	283	285	2
1	5	4	121	120	3
1	5	5	153	153	3
1	5	6	21	22	11
1	5	7	57	60	5
1	5	8	0	20	12
1	6	-8	0	25	13
1	6	-7	90	91	4
1	6	-6	81	69	4
1	6	-5	183	176	3
1	6	-4	361	346	3
1	6	-3	132	129	2
1	6	-2	567	561	4
1	6	-1	71	76	3
1	6	0	409	417	3
1	6	1	181	176	2
1	6	2	118	122	2
1	6	3	150	147	2
1	6	4	9	12	10
1	6	5	120	119	3
1	6	6	0	15	11
1	6	7	89	84	4
1	6	8	27	36	12
1	7	-5	0	21	13
1	7	-4	257	253	3
1	7	-3	0	3	10
1	7	-2	243	249	2
1	7	-1	60	63	3
1	7	0	166	172	2
1	7	1	137	136	2
1	7	2	125	125	2
1	7	3	227	229	2
1	7	4	18	23	10
1	7	5	215	213	3
1	7	6	75	73	4
1	7	7	110	99	4
1	8	-7	24	24	13
1	8	-6	86	81	4
1	8	-5	23	12	11
1	8	-4	122	111	3
1	8	-3	11	6	10
1	8	-2	150	156	3
1	8	-1	109	117	3
1	8	0	190	190	2
1	8	1	319	320	3
1	8	2	76	80	4
1	8	3	370	365	3
1	8	4	95	84	3
1	8	5	207	206	3
1	8	6	118	109	4
1	8	7	51	48	7
1	9	-6	69	56	5
1	9	-5	38	31	7
1	9	-4	141	131	3
1	9	-3	58	53	4
1	9	-2	204	213	3
1	9	-1	269	274	3
1	9	0	165	160	3
1	9	1	401	396	3
1	9	2	26	10	9
1	9	3	289	273	3
1	9	4	90	86	4
1	9	5	103	90	4
1	9	6	65	56	5
1	10	-6	100	71	4
1	10	-5	33	29	10
1	10	-4	157	145	3
1	10	-3	185	171	3
1	10	-2	153	151	3
1	10	-1	286	288	3
1	10	0	51	51	5
1	10	1	243	236	3
1	10	2	46	36	6
1	10	3	112	109	4
1	10	4	45	51	7
1	10	5	36	40	9
1	11	-4	101	85	4
1	11	-3	121	121	4
1	11	-2	45	53	7
1	11	-1	134	126	3
1	11	0	35	2	11
1	11	1	102	97	4
1	11	2	43	50	7
1	11	3	85	79	5
1	11	4	96	87	4
1	12	-3	66	64	6
1	12	-2	44	14	7

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
1	12	-1	93	95	5	2	-7	0	20	20	10	2	-4	7	29	29	9	2	-1	8	40	47	8	2	2	7	0	24	11
1	12	0	31	35	11	2	-7	1	84	85	3	2	-4	8	17	26	12	2	0	-9	35	32	7	2	2	8	32	21	8
1	12	1	120	119	4	2	-7	2	47	50	5	2	-3	-9	44	56	8	2	0	-8	29	29	8	2	2	9	39	22	8
1	12	2	105	105	5	2	-7	3	153	158	3	2	-3	-8	36	26	7	2	0	-7	29	21	7	2	3	-9	40	45	8
1	12	3	94	81	4	2	-7	4	61	64	4	2	-3	-7	29	33	8	2	0	-6	98	102	3	2	3	-8	46	45	6
2	-11	-3	0	7	13	2	-7	5	79	80	4	2	-3	-6	0	6	10	2	0	-5	18	14	8	2	3	-7	82	78	3
2	-11	-2	0	17	13	2	-7	6	22	20	12	2	-3	-5	138	143	2	2	0	-4	163	162	2	2	3	-6	134	134	3
2	-11	-1	35	27	9	2	-6	-8	55	40	6	2	-3	-4	170	172	2	2	0	-3	88	82	2	2	3	-5	71	74	3
2	-11	0	69	64	5	2	-6	-7	79	73	4	2	-3	-3	296	300	2	2	0	-2	148	148	2	2	3	-4	128	136	2
2	-11	1	70	57	5	2	-6	-6	46	54	6	2	-3	-2	228	232	2	2	0	-1	93	90	1	2	3	-3	71	84	2
2	-11	2	65	68	6	2	-6	-5	105	99	3	2	-3	-1	91	91	2	2	0	0	23	15	3	2	3	-2	41	13	2
2	-10	-5	27	36	13	2	-6	-4	53	52	4	2	-3	0	78	67	2	2	0	1	183	180	2	2	3	-1	199	189	2
2	-10	-4	30	30	11	2	-6	-3	96	97	3	2	-3	1	188	181	2	2	0	2	34	37	3	2	3	0	34	32	3
2	-10	-3	69	67	5	2	-6	-2	111	115	3	2	-3	2	186	187	2	2	0	3	230	230	2	2	3	1	167	161	2
2	-10	-2	88	82	4	2	-6	-1	357	363	3	2	-3	3	103	100	2	2	0	4	111	120	2	2	3	2	20	6	5
2	-10	-1	86	87	4	2	-6	0	187	186	2	2	-3	4	142	143	2	2	0	5	85	84	3	2	3	3	28	22	4
2	-10	0	50	53	6	2	-6	1	315	323	3	2	-3	5	32	7	5	2	0	6	79	77	3	2	3	4	61	52	3
2	-10	1	43	33	7	2	-6	2	105	107	3	2	-3	6	58	57	4	2	0	7	20	10	10	2	3	5	15	13	9
2	-10	2	0	5	13	2	-6	3	105	109	3	2	-3	7	13	18	11	2	0	8	0	24	12	2	3	6	81	79	3
2	-10	3	45	36	7	2	-6	4	0	20	10	2	-3	8	0	19	12	2	0	9	29	10	10	2	3	7	46	41	6
2	-10	4	0	8	13	2	-6	5	0	16	11	2	-2	-9	0	9	12	2	1	-9	33	4	8	2	3	8	39	33	8
2	-9	-6	59	54	6	2	-6	6	42	42	6	2	-2	-8	24	19	10	2	1	-8	57	54	5	2	4	-9	28	25	11
2	-9	-5	71	66	5	2	-6	7	20	13	12	2	-2	-7	124	120	3	2	1	-7	17	15	10	2	4	-8	48	39	6
2	-9	-4	83	75	4	2	-5	-8	59	54	5	2	-2	-6	29	25	6	2	1	-6	56	61	4	2	4	-7	0	14	11
2	-9	-3	69	74	4	2	-5	-7	6	21	12	2	-2	-5	234	232	2	2	1	-5	60	67	3	2	4	-6	0	13	10
2	-9	-2	33	21	8	2	-5	-6	115	110	3	2	-2	-4	31	42	5	2	1	-4	73	72	2	2	4	-5	0	7	9
2	-9	-1	22	24	11	2	-5	-5	184	184	3	2	-2	-3	170	172	2	2	1	-3	19	14	5	2	4	-4	60	58	3
2	-9	0	28	17	10	2	-5	-4	212	212	2	2	-2	-2	206	201	2	2	1	-2	292	288	2	2	4	-3	0	10	8
2	-9	1	135	128	3	2	-5	-3	330	329	3	2	-2	-1	17	4	5	2	1	-1	280	267	2	2	4	-2	34	27	3
2	-9	2	15	25	12	2	-5	-2	225	229	2	2	-2	0	330	324	2	2	1	0	252	244	2	2	4	-1	49	48	2
2	-9	3	109	104	4	2	-5	-1	153	155	2	2	-2	1	54	55	2	2	1	1	284	272	2	2	4	0	16	4	6
2	-9	4	62	51	5	2	-5	0	38	13	4	2	-2	2	170	173	2	2	1	2	26	21	4	2	4	1	55	60	2
2	-9	5	29	22	11	2	-5	1	109	113	2	2	-2	3	82	76	2	2	1	3	78	78	2	2	4	2	118	121	2
2	-8	-7	74	59	5	2	-5	2	203	209	2	2	-2	4	46	57	4	2	1	4	61	61	3	2	4	3	47	52	3
2	-8	-6	24	7	12	2	-5	3	82	79	3	2	-2	5	16	21	10	2	1	5	49	43	4	2	4	4	191	189	2
2	-8	-5	63	56	5	2	-5	4	156	160	3	2	-2	6	28	35	8	2	1	6	28	25	7	2	4	5	38	42	6
2	-8	-4	61	69	5	2	-5	5	19	24	10	2	-2	7	22	10	11	2	1	7	22	35	11	2	4	6	88	90	3
2	-8	-3	76	78	4	2	-5	6	33	35	8	2	-2	8	43	37	7	2	1	8	29	9	8	2	4	7	54	55	5
2	-8	-2	86	89	4	2	-5	7	42	37	7	2	-1	-9	63	54	5	2	1	9	11	10	12	2	4	8	3	4	12
2	-8	-1	227	228	3	2	-4	-9	43	36	7	2	-1	-8	0	13	11	2	2	-9	28	13	10	2	5	-9	17	2	12
2	-8	0	22	3	10	2	-4	-8	63	52	5	2	-1	-7	98	100	3	2	2	-8	36	31	7	2	5	-8	23	11	12
2	-8	1	179	174	3	2	-4	-7	117	119	3	2	-1	-6	0	29	10	2	2	-7	54	60	5	2	5	-7	22	17	11
2	-8	2	51	55	5	2	-4	-6	83	83	3	2	-1	-5	69	71	3	2	2	-6	65	66	3	2	5	-6	34	20	6
2	-8	3	37	13	6	2	-4	-5	132	133	3	2	-1	-4	135	140	2	2	2	-5	82	80	2	2	5	-5	43	43	4
2	-8	4	16	14	11	2	-4	-4	17	7	9	2	-1	-3	32	24	3	2	2	-4	204	210	2	2	5	-4	48	55	4
2	-8	5	55	53	6	2	-4	-3	93	94	2	2	-1	-2	254	250	2	2	2	-3	14	10	6	2	5	-3	25	17	5
2	-8	6	33	18	9	2	-4	-2	336	341	2	2	-1	-1	28	22	3	2	2	-2	168	160	2	2	5	-2	88	78	2
2	-7	-8	21	21	13	2	-4	-1	337	344	2	2	-1	0	156	150	1	2	2	-1	18	18	4	2	5	-1	147	157	2
2	-7	-7	35	1	9	2	-4	0	541	535	3	2	-1	1	70	68	2	2	2	0	78	69	1	2	5	0	113	118	2
2	-7	-6	86	76	4	2	-4	1	145	149	2	2	-1	2	12	16	7	2	2	1	138	140	1	2	5	1	178	195	2
2	-7	-5	145	143	3	2	-4	2	294	289	2	2	-1	3	78	82	2	2	2	2	84	90	2	2	5	2	233	237	2
2	-7	-4	88	84	3	2	-4	3	94	97	2	2	-1	4	57	53	3	2	2	3	114	119	2	2	5	3	25	10	6
2	-7	-3	283	286	3	2	-4	4	9	24	10	2	-1	5	103	107	3	2	2	4	23	34	6	2	5	4	115	117	3
2	-7	-2	12	6	10	2	-4	5	94	94	3	2	-1	6	82	82	3	2	2	5	63	60	3	2	5	5	63	61	4
2	-7	-1	169	168	2	2	-4	6	56	53	4	2	-1	7	46	36	5	2	2	6	20	23	9	2	5	6	17	17	10

2	5	7	42	36	6	2	9	-2	47	38	4	3	-9	0	73	77	5	3	-5	0	23	19	7	3	-2	3	60	65	3
2	5	8	21	26	12	2	9	-1	29	41	7	3	-9	1	76	81	4	3	-5	1	101	106	3	3	-2	4	52	47	4
2	6	-8	0	14	12	2	9	0	188	190	3	3	-9	2	88	94	4	3	-5	2	72	74	3	3	-2	5	22	31	9
2	6	-7	17	26	12	2	9	1	48	41	5	3	-9	3	119	119	4	3	-5	3	145	148	3	3	-2	6	55	51	5
2	6	-6	83	83	3	2	9	2	202	205	3	3	-9	4	53	51	7	3	-5	4	121	118	3	3	-2	7	22	26	11
2	6	-5	34	31	6	2	9	3	114	114	3	3	-8	-7	20	29	14	3	-5	5	85	85	4	3	-2	8	0	27	13
2	6	-4	128	125	2	2	9	4	44	56	7	3	-8	-6	25	6	12	3	-5	6	98	93	4	3	-1	-9	0	0	12
2	6	-3	172	178	2	2	9	5	82	74	4	3	-8	-5	60	54	5	3	-5	7	26	14	11	3	-1	-8	100	99	3
2	6	-2	18	24	8	2	9	6	48	39	7	3	-8	-4	64	64	5	3	-4	-9	0	8	13	3	-1	-7	131	130	3
2	6	-1	230	233	2	2	10	-6	0	6	13	3	-8	-3	45	45	6	3	-4	-8	41	49	7	3	-1	-6	125	127	3
2	6	0	141	140	2	2	10	-5	39	41	8	3	-8	-2	198	204	3	3	-4	-7	32	3	7	3	-1	-5	263	272	2
2	6	1	61	56	3	2	10	-4	56	49	5	3	-8	-1	59	65	5	3	-4	-6	32	42	7	3	-1	-4	53	59	3
2	6	2	38	27	4	2	10	-3	66	62	4	3	-8	0	282	278	3	3	-4	-5	51	46	4	3	-1	-3	175	172	2
2	6	3	57	60	3	2	10	-2	152	158	3	3	-8	1	176	177	3	3	-4	-4	40	42	5	3	-1	-2	31	27	3
2	6	4	97	91	3	2	10	-1	0	1	11	3	-8	2	166	172	3	3	-4	-3	61	54	3	3	-1	-1	117	109	2
2	6	5	51	50	4	2	10	0	167	166	3	3	-8	3	159	156	3	3	-4	-2	62	64	3	3	-1	0	31	25	3
2	6	6	62	57	4	2	10	1	61	62	5	3	-8	4	7	38	12	3	-4	-1	132	144	2	3	-1	1	87	80	2
2	6	7	26	28	11	2	10	2	37	33	7	3	-8	5	65	66	5	3	-4	0	33	33	4	3	-1	2	147	145	2
2	6	8	0	6	13	2	10	3	23	28	12	3	-7	-7	62	66	6	3	-4	1	371	381	3	3	-1	3	10	10	8
2	7	-8	49	41	6	2	10	4	57	57	6	3	-7	-6	67	69	5	3	-4	2	171	173	2	3	-1	4	193	199	2
2	7	-7	30	20	9	2	10	5	31	25	10	3	-7	-5	99	92	4	3	-4	3	265	276	3	3	-1	5	48	48	4
2	7	-6	61	60	5	2	11	-5	54	47	7	3	-7	-4	258	262	3	3	-4	4	173	175	3	3	-1	6	111	102	3
2	7	-5	97	93	3	2	11	-4	78	73	5	3	-7	-3	23	20	10	3	-4	5	60	69	4	3	-1	7	61	66	5
2	7	-4	11	6	10	2	11	-3	30	24	9	3	-7	-2	400	398	3	3	-4	6	75	74	4	3	-1	8	7	11	12
2	7	-3	107	103	3	2	11	-2	67	70	5	3	-7	-1	195	196	3	3	-4	7	0	3	12	3	0	-10	43	37	7
2	7	-2	21	17	8	2	11	-1	0	2	11	3	-7	0	275	276	3	3	-3	-9	28	35	12	3	0	-9	43	30	6
2	7	-1	3	17	9	2	11	0	0	16	12	3	-7	1	208	214	3	3	-3	-8	38	32	7	3	0	-8	61	64	5
2	7	0	89	99	2	2	11	1	31	28	8	3	-7	2	64	62	4	3	-3	-7	93	88	3	3	0	-7	65	67	4
2	7	1	79	86	3	2	11	2	57	63	6	3	-7	3	89	101	4	3	-3	-6	113	112	3	3	0	-6	33	36	3
2	7	2	139	143	2	2	11	3	51	45	6	3	-7	4	0	21	11	3	-3	-5	22	20	9	3	0	-5	29	30	5
2	7	3	46	56	5	2	11	4	19	36	13	3	-7	5	31	23	8	3	-3	-4	234	235	2	3	0	-4	113	116	2
2	7	4	35	36	6	2	12	-3	29	21	10	3	-7	6	40	23	7	3	-3	-3	327	337	2	3	0	-3	18	16	6
2	7	5	43	44	6	2	12	-2	29	31	11	3	-6	-8	50	50	7	3	-3	-2	162	166	2	3	0	-2	50	49	2
2	7	6	33	33	8	2	12	-1	36	40	8	3	-6	-7	99	106	4	3	-3	-1	768	738	5	3	0	-1	121	119	2
2	7	7	43	45	8	2	12	0	36	37	8	3	-6	-6	205	205	3	3	-3	0	113	115	2	3	0	0	294	235	2
2	8	-7	22	23	13	2	12	1	31	24	10	3	-6	-5	42	48	6	3	-3	1	584	569	4	3	0	1	130	127	2
2	8	-6	28	22	9	2	12	2	0	6	13	3	-6	-4	350	345	3	3	-3	2	215	216	2	3	0	2	472	465	3
2	8	-5	5	12	11	2	12	3	42	40	9	3	-6	-3	110	113	3	3	-3	3	132	126	2	3	0	3	47	51	3
2	8	-4	36	40	7	3	-11	-2	101	97	5	3	-6	-2	266	269	3	3	-3	4	105	108	3	3	0	4	240	242	2
2	8	-3	48	39	4	3	-11	-1	49	65	9	3	-6	-1	169	171	2	3	-3	5	0	19	10	3	0	5	128	134	3
2	8	-2	99	102	3	3	-11	0	110	108	4	3	-6	0	61	63	4	3	-3	6	25	22	9	3	0	6	25	28	9
2	8	-1	27	39	7	3	-10	-4	103	97	4	3	-6	1	92	94	3	3	-3	7	0	17	11	3	0	7	57	64	5
2	8	0	62	67	4	3	-10	-3	71	71	5	3	-6	2	26	33	8	3	-3	8	0	11	13	3	0	8	0	23	12
2	8	1	0	15	10	3	-10	-2	122	121	4	3	-6	3	40	43	6	3	-2	-9	53	52	6	3	1	-10	33	22	9
2	8	2	89	94	3	3	-10	-1	0	19	12	3	-6	4	49	47	5	3	-2	-8	86	86	4	3	1	-9	34	11	8
2	8	3	60	56	4	3	-10	0	76	79	5	3	-6	5	32	33	8	3	-2	-7	18	15	10	3	1	-8	46	48	5
2	8	4	137	139	3	3	-10	1	20	17	13	3	-6	6	40	48	8	3	-2	-6	195	198	3	3	1	-7	13	11	10
2	8	5	97	93	4	3	-10	2	14	42	13	3	-5	-8	108	103	4	3	-2	-5	315	317	3	3	1	-6	74	77	3
2	8	6	49	46	6	3	-10	3	45	45	8	3	-5	-7	0	19	12	3	-2	-4	173	177	2	3	1	-5	92	97	2
2	8	7	62	58	6	3	-9	-6	54	39	6	3	-5	-6	192	186	3	3	-2	-3	692	691	4	3	1	-4	46	43	3
2	9	-7	39	6	8	3	-9	-5	20	44	13	3	-5	-5	79	76	4	3	-2	-2	87	85	2	3	1	-3	312	314	2
2	9	-6	27	20	11	3	-9	-4	51	47	6	3	-5	-4	158	158	3	3	-2	-1	625	613	4	3	1	-2	391	382	3
2	9	-5	28	14	10	3	-9	-3	12	23	12	3	-5	-3	109	111	3	3	-2	0	184	182	2	3	1	-1	329	323	2
2	9	-4	30	33	9	3	-9	-2	21	43	12	3	-5	-2	46	48	4	3	-2	1	94	96	2	3	1	0	660	615	4
2	9	-3	15	23	11	3	-9	-1	24	14	11	3	-5	-1	63	75	3	3	-2	2	86	86	2	3	1	1	32	29	3

h	k	l	Fo	Fc	sigF
3	1	2	338	336	2
3	1	3	157	157	2
3	1	4	28	27	6
3	1	5	70	78	4
3	1	6	36	36	6
3	1	7	0	5	11
3	1	8	6	9	12
3	2	-9	14	10	11
3	2	-8	56	58	5
3	2	-7	86	82	3
3	2	-6	13	18	10
3	2	-5	263	265	2
3	2	-4	197	198	2
3	2	-3	343	341	2
3	2	-2	443	429	3
3	2	-1	131	123	2
3	2	0	297	283	2
3	2	1	78	79	2
3	2	2	25	21	4
3	2	3	52	56	3
3	2	4	45	39	4
3	2	5	0	10	10
3	2	6	21	1	9
3	2	7	33	25	7
3	2	8	11	2	12
3	3	-9	34	34	9
3	3	-8	25	36	11
3	3	-7	133	130	3
3	3	-6	45	36	4
3	3	-5	200	209	2
3	3	-4	114	117	2
3	3	-3	132	134	2
3	3	-2	13	22	7
3	3	-1	23	19	4
3	3	0	127	120	2
3	3	1	0	8	7
3	3	2	0	9	8
3	3	3	47	48	3
3	3	4	32	29	5
3	3	5	101	102	3
3	3	6	0	13	11
3	3	7	78	75	4
3	3	8	39	33	8
3	4	-9	51	39	6
3	4	-8	16	18	11
3	4	-7	86	77	3
3	4	-6	3	9	10
3	4	-5	73	68	3
3	4	-4	43	45	4
3	4	-3	39	35	3
3	4	-2	19	23	6
3	4	-1	19	23	6
3	4	0	148	158	2
3	4	1	142	143	2
3	4	2	129	129	2
3	4	3	241	242	2
3	4	4	9	7	9
3	4	5	162	162	3
3	4	6	65	63	4
3	4	7	23	36	12
3	4	8	40	37	8
3	5	-9	30	24	10
3	5	-8	0	19	12
3	5	-7	43	37	5
3	5	-6	35	29	6
3	5	-5	51	64	4
3	5	-4	31	34	5
3	5	-3	30	35	5
3	5	-2	207	209	2
3	5	-1	117	123	2
3	5	0	205	205	2
3	5	1	277	279	2
3	5	2	15	28	9
3	5	3	222	221	2
3	5	4	69	65	3
3	5	5	50	43	4
3	5	6	44	39	6
3	5	7	26	31	10
3	5	8	0	4	12
3	6	-9	0	16	13
3	6	-8	15	5	12
3	6	-7	49	41	5
3	6	-6	45	46	5
3	6	-5	52	52	4
3	6	-4	188	183	2
3	6	-3	32	31	5
3	6	-2	235	237	2
3	6	-1	156	150	2
3	6	0	91	91	2
3	6	1	154	154	2
3	6	2	0	13	9
3	6	3	0	11	9
3	6	4	0	5	10
3	6	5	61	68	5
3	6	6	0	22	11
3	6	7	49	38	6
3	7	-8	28	23	11
3	7	-7	46	52	7
3	7	-6	99	91	3
3	7	-5	0	22	11
3	7	-4	157	148	3
3	7	-3	65	67	3
3	7	-2	93	93	3
3	7	-1	77	82	3
3	7	0	12	18	9
3	7	1	37	39	4
3	7	2	0	18	9
3	7	3	103	108	3
3	7	4	22	12	9
3	7	5	57	62	5
3	7	6	32	27	9
3	7	7	21	17	12
3	8	-8	43	27	8
3	8	-7	2	23	12
3	8	-6	54	47	5
3	8	-5	25	2	9
3	8	-4	0	24	10
3	8	-3	41	35	5
3	8	-2	13	13	10
3	8	-1	130	133	2
3	8	0	0	2	9
3	8	1	152	158	2
3	8	2	33	25	6
3	8	3	72	75	3
3	8	4	82	86	4
3	8	5	26	10	9
3	8	6	82	82	4
3	8	7	10	4	13
3	9	-7	24	22	13
3	9	-6	35	5	7
3	9	-5	73	67	4
3	9	-4	36	12	6
3	9	-3	124	126	3
3	9	-2	33	37	6
3	9	-1	73	80	3
3	9	0	24	2	7
3	9	1	48	42	5
3	9	2	98	98	3
3	9	3	80	84	4
3	9	4	108	109	4
3	9	5	47	37	6
3	9	6	21	35	13
3	10	-6	29	21	11
3	10	-5	44	44	7
3	10	-4	38	42	7
3	10	-3	42	33	6
3	10	-2	23	2	9
3	10	-1	150	146	3
3	10	0	102	100	3
3	10	1	148	146	3
3	10	2	118	113	3
3	10	3	51	50	6
3	10	4	0	19	12
3	10	5	24	10	13
3	11	-5	56	45	6
3	11	-4	23	8	12
3	11	-3	108	106	4
3	11	-2	55	46	5
3	11	-1	73	79	4
3	11	0	34	35	8
3	11	1	19	14	12
3	11	2	55	57	6
3	11	3	51	49	7
3	11	4	103	96	4
3	12	-3	0	14	12
3	12	-2	25	27	12
3	12	-1	45	39	7
3	12	0	109	101	4
3	12	1	56	44	6
3	12	2	125	115	4
3	12	3	0	19	13
4	-10	-3	102	105	5
4	-10	-2	9	3	13
4	-10	-1	54	69	7
4	-10	0	43	47	8
4	-10	1	34	41	10
4	-9	-5	65	61	6
4	-9	-4	31	28	10
4	-9	-3	89	86	4
4	-9	-2	34	28	9
4	-9	-1	115	121	4
4	-9	0	77	76	5
4	-9	1	118	119	4
4	-9	2	112	109	4
4	-9	3	52	53	7
4	-8	-6	0	14	13
4	-8	-5	94	100	4
4	-8	-4	45	28	6
4	-8	-3	198	197	3
4	-8	-2	107	107	4
4	-8	-1	229	234	3
4	-8	0	199	202	3
4	-8	1	131	131	4
4	-8	2	211	210	3
4	-8	3	26	2	12
4	-8	4	114	120	4
4	-7	-7	69	69	6
4	-7	-6	0	9	12
4	-7	-5	195	190	3
4	-7	-4	61	59	5
4	-7	-3	297	295	3
4	-7	-2	204	207	3
4	-7	-1	225	225	3
4	-7	0	298	302	3
4	-7	1	37	53	8
4	-7	2	223	226	3
4	-7	3	50	45	6
4	-7	4	96	99	4
4	-7	5	46	45	7
4	-6	-8	46	35	7
4	-6	-7	146	140	3
4	-6	-6	17	6	12
4	-6	-5	287	288	3
4	-6	-4	136	138	3
4	-6	-3	303	304	3
4	-6	-2	301	305	3
4	-6	-1	151	149	3
4	-6	0	299	309	3
4	-6	1	14	8	10
4	-5	-6	141	137	3
4	-5	-5	252	249	2
4	-5	-4	46	47	4
4	-5	-3	227	232	2
4	-5	-2	82	84	2
4	-5	-1	211	213	2
4	-5	0	245	241	2
4	-5	1	228	224	2
4	-5	2	415	417	3
4	-5	3	104	103	3
4	-5	4	381	387	3
4	-5	5	67	57	4
4	-5	6	195	195	3
4	-5	7	93	87	4
4	-4	8	55	46	6
4	-4	-9	18	23	13
4	-4	-8	70	61	5
4	-4	-7	71	63	4
4	-4	-6	59	58	4
4	-4	-5	113	117	3
4	-4	-4	37	4	5
4	-4	-3	233	236	2
4	-4	-2	227	228	2
4	-4	-1	356	350	3
4	-4	0	627	617	4
4	-4	1	210	204	2
4	-4	2	655	666	4
4	-4	3	90	86	3
4	-4	4	350	351	3
4	-4	5	161	162	3
4	-4	6	79	79	4
4	-4	7	86	80	4
4	-3	-9	32	10	9
4	-3	-8	37	38	8
4	-3	-7	67	60	4
4	-3	-6	35	16	6
4	-3	-5	220	211	3
4	-3	-4	178	182	2
4	-3	-3	400	397	3
4	-3	-2	593	595	4
4	-3	-1	328	337	3
4	-3	0	750	755	5
4	-3	1	23	15	7
4	-3	2	428	433	3
4	-3	3	139	146	3
4	-3	4	94	97	3
4	-3	5	85	85	4
4	-3	6	0	14	11
4	-3	7	0	18	13
4	-2	-8	15	1	10
4	-2	-7	155	156	2
4	-2	-6	98	97	2
4	-2	-5	249	249	2
4	-2	-4	521	508	3
4	-2	-3	298	290	2
4	-2	-2	1279	1205	7
4	-2	-1	57	43	2
4	-2	0	1143	1111	7
4	-2	1	324	316	2
4	-2	2	482	469	3
4	-2	3	302	302	3
4	-2	4	40	41	6
4	-2	5	131	129	3
4	-2	6	50	50	6
4	-2	7	30	7	4
4	-1	-9	18	13	12
4	-1	-8	71	63	4
4	-1	-7	48	48	4
4	-1	-6	59	58	4
4	-1	-5	113	117	3
4	-1	-4	37	4	5
4	-1	-3	233	236	2
4	-1	-2	227	228	2
4	-1	-1	356	350	3
4	-1	0	627	617	4
4	-1	1	210	204	2
4	-1	2	655	666	4
4	-1	3	90	86	3
4	-1	4	350	351	3
4	-1	5	161	162	3
4	-1	6	79	79	4
4	-1	7	86	80	4
4	-1	8	24	26	12
4	0	-9	4	14	12
4	0	-8	143	140	3
4	0	-7	143	142	3
4	0	-6	260	260	3
4	0	-5	446	447	3
4	0	-4	216	209	2
4	0	-3	625	625	4
4	0	-2	19	31	6
4	0	-1	346	349	2
4	0	0	84	84	2
4	0	1	644	636	4
4	0	2	82	87	2
4	0	3	534	534	3
4	0	4	197	204	2
4	0	5	229	223	3
4	0	6	155	149	3
4	0	7	6	18	12
4	0	8	65	54	6
4	1	-10	47	39	7
4	1	-9	16	27	12
4	1	-8	98	92	3
4	1	-7	141	141	3
4	1	-6	155	156	2
4	1	-5	98	97	2
4	1	-4	249	249	2
4	1	-3	521	508	3
4	1	-2	298	290	2
4	1	-1	1279	1205	7
4	1	0	57	43	2
4	1	1	1143	1111	7
4	1	2	324	316	2
4	1	3	482	469	3
4	1	4	302	302	3
4	1	5	40	41	6
4	1	6	131	129	3
4	1	7	50	50	6
4	1	8	43	30	7
4	2	-9	0	9	12
4	2	-8	84	82	4
4	2	-7	54	48	4
4	2	-6	229	231	3
4	2	-5	325	323	3
4	2	-4	355	362	3
4	2	-3	913	888	5
4	2	-2	178	170	2
4	2	-1	1055	995	6
4	2	0	298	291	2
4	2	1	429	432	3
4	2	2	380	369	3
4	2	3	17	14	9
4	2	4	170	172	2
4	2	5	73	71	3
4	2	6	63	58	4
4	2	7	33	24	8
4	2	8	24	26	12
4	3	-9	4	14	12
4	3	-8	143	140	3
4	3	-7	143	142	3
4	3	-6	260	260	3
4	3	-5	446	447	3
4	3	-4	216	209	2
4	3	-3	625	625	4
4	3	-2	19	31	6
4	3	-1	346	349	2
4	3	0	175	174	2
4	3	1	74	86	2
4	3	2	144	144	2
4	3	3	36	35	4
4	3	4	139	141	3
4	3	5	27	29	8
4	3	6	124	120	3
4	3	7	22	12	12
4	3	8	58	60	6
4	4	-9	45	33	7
4	4	-8	137	125	3
4	4	-7	141	141	3
4	4	-6	141	137	3
4	4	-5	252	249	2
4	4	-4	46	47	4
4	4	-3	227	232	2
4	4	-2	82	84	2
4	4	-1	211	213	2
4	4	0	245	241	2
4	4	1	228	224	2
4	4	2	415	417	3
4	4	3	104	103	3
4	4	4	381	387	3
4	4	5	67	57	4
4	4	6	195	195	3
4	4	7	93	87	4
4	4	8	55	46	6
4	5	-9	18	23	13
4	5	-8	70	61	5
4	5	-7	71	63	4
4	5	-6	59	58	4
4	5	-5	113	117	3
4	5	-4	37	4	5
4	5	-3	233	236	2
4	5	-2	227	228	2
4	5	-1	356	350	3
4	5	0	627	617	4
4	5	1	210	204	2
4	5	2	655	666	4
4	5	3	90	86	3
4	5	4	350	351	3
4	5	5	161	162	3
4	5	6	79	79	4
4	5	7	86	80	4
4	6	-9	32	10	9
4	6	-8	37	38	8
4	6	-7	67	60	4
4	6	-6	35	16	6
4	6	-5	220	211	3
4	6	-4	178	182	2
4	6	-3	400	397	3
4	6	-2	593	595	4
4	6	-1	328	337	3
4	6	0	750	755	5
4	6	1	23	15	7
4	6	2	428	433	3
4	6	3	139	146	3
4	6	4	94	97	3
4	6	5	85	85	4
4	6	6	0	14	11
4	7	-8	29	13	10
4	7	-7	136	126	3
4	7	-6	75	75	4
4	7	-5	279	275	3
4	7	-4	302	302	3
4	7	-3	281	286	3
4	7	-2	428	439	3
4	7	-1	80	77	3
4	7	0	260	270	2
4	7	1	85	89	3
4	7	2	64	57	4
4	7	3	81	79	3
4	7	4	0	7	10
4	7	5	32	40	8
4	7	6	16	12	12
4	7	7	43	31	7
4	8	-8	0	14	13
4	8	-7	158	138	3
4	8	-6	77	86	5
4	8	-5	194	181	3
4	8	-4	144	143	3
4	8	-3	107	110	3
4	8	-2	101	107	3
4	8	-1	27	9	6
4	8	0	69	74	3
4	8	1	46	43	5
4	8	2	104	106	3
4	8	3	78	85	4
4	8	4	81	85	4
4	8	5	103	104	4
4	8	6	27	9	11
4	9	-7	77	67	5
4	9	-6	47	30	6
4	9	-5	57	46	5
4	9	-4	63	59	4
4	9	-3	0	2	10
4	9	-2	124	134	3
4	9	-1	59	63	4
4	9	0	199	211	3
4	9	1	161	165	3
4	9	2	152	156	3
4	9	3	219	215	3
4	9	4	0	11	12
4	9	5	160	154	3
4	9	6	55	51	7
4	10	-6	41	19	7
4	10	-5	0	14	12
4	10	-4	90	93	4
4	10	-3	0	13	11
4	10	-2	171	180	3
4	10	-1	115	121	3
4	10	0	138	151	3
4	10	1	218	222	3
4	10	2	18	16	12
4	10	3	192	191	3
4	10	4	56	51	6
4	10	5	94	86	5
4	11	-5	38	37	9
4	11	-4	143	136	3
4	11	-3	37	36	8
4	11	-2	161	160	3
4	11	-1	150	153	3
4	11	0	89	88	4
4	11	1	170	173	3
4	11	2	0	23	12
4	11	3	92	92	4
4	11	4	30	18	11
4	12	-4	107	102	4
4	12	-3	94	98	5
4	12	-2	80	76	4
4	12	-1	121	125	4
4	12	0	27	33	11
4	12	1	78	70	5
4	12	2	26	16	13
5	-9	-4	17	29	13
5	-9	-3	0	3	12
5	-9	-2	19	27	12
5	-9	-1	0	5	13
5	-9	0	0	29	13
5	-9	1	30	14	10
5	-9	2	17	7	13
5	-8	-6	0	10	13
5	-8	-5	23	11	12
5	-8	-4	34	31	8
5	-8	-3	0	3	12
5	-8	-2	32	14	9
5	-8	-1	59	56	5
5	-8	0	39	47	8
5	-8	1	112	106	4
5	-8	2	0	2	12
5	-8	3	81	76	5
5	-7	-7	23	11	13
5	-7	-6	24	12	12
5	-7	-5	0	9	12
5	-7	-4	83	85	4
5	-7	-3	91	93	4
5	-7	-2	120	118	3
5	-7	-1	169	176	3
5	-7	0	29	22	9
5	-7	1	130	133	3
5	-7	2	69	70	5
5	-7	3	35	32	8
5	-7	4	55	56	6
5	-7	5	31	3	9
5	-6	-7	31	3	9
5	-6	-6	116	110	4
5	-6	-5	77	72	4
5	-6	-4	153	154	3
5	-6	-3	174	166	3
5	-6	-2	65	66	4
5	-6	-1	152	151	3
5	-6	0	44	43	5
5	-6	1	47	54	6
5	-6	2	47	44	6
5	-6	3	18	3	11
5	-6	4	7	15	12
5	-6	5	19	3	12

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
5	-5	-8	77	69	5	5	-2	0	397	397	3	5	1	4	106	109	3	5	5	-9	18	21	13	5	8	-2	85	88	3
5	-5	-7	36	26	9	5	-2	1	27	28	6	5	1	5	210	214	3	5	5	-8	119	113	4	5	8	-1	265	268	3
5	-5	-6	111	108	4	5	-2	2	195	198	2	5	1	6	0	9	12	5	5	-7	24	12	10	5	8	0	110	110	3
5	-5	-5	104	99	3	5	-2	3	83	79	3	5	1	7	58	44	5	5	5	-6	156	154	3	5	8	1	72	65	3
5	-5	-4	65	64	4	5	-2	4	26	34	8	5	2	-9	19	30	12	5	5	-5	40	32	5	5	8	2	66	72	4
5	-5	-3	116	115	3	5	-2	5	56	56	5	5	2	-8	0	13	11	5	5	-4	100	101	3	5	8	3	10	15	11
5	-5	-2	0	14	10	5	-2	6	13	4	11	5	2	-7	90	88	3	5	5	-3	71	68	3	5	8	4	69	72	4
5	-5	-1	71	70	3	5	-2	7	33	32	9	5	2	-6	67	78	4	5	5	-2	42	40	4	5	8	5	21	32	12
5	-5	0	40	40	6	5	-1	-9	53	55	6	5	2	-5	171	167	2	5	5	-1	96	98	2	5	8	6	70	64	5
5	-5	1	55	59	4	5	-1	-8	43	34	6	5	2	-4	287	290	2	5	5	0	21	9	7	5	9	-7	116	112	4
5	-5	2	60	60	4	5	-1	-7	186	184	3	5	2	-3	88	82	2	5	5	1	404	409	3	5	9	-6	38	32	8
5	-5	3	40	44	6	5	-1	-6	28	3	7	5	2	-2	603	595	4	5	5	2	84	82	3	5	9	-5	157	162	3
5	-5	4	89	88	4	5	-1	-5	321	329	3	5	2	-1	340	329	2	5	5	3	428	433	3	5	9	-4	14	4	11
5	-5	5	0	3	12	5	-1	-4	143	144	2	5	2	0	727	713	4	5	5	4	163	157	3	5	9	-3	112	115	3
5	-5	6	62	66	6	5	-1	-3	288	288	2	5	2	1	545	538	3	5	5	5	202	199	3	5	9	-2	37	11	6
5	-4	-8	55	52	6	5	-1	-2	238	244	2	5	2	2	389	371	3	5	5	6	115	117	4	5	9	-1	47	49	5
5	-4	-7	45	32	6	5	-1	-1	59	64	3	5	2	3	323	315	3	5	5	7	38	30	8	5	9	0	74	76	4
5	-4	-6	48	46	6	5	-1	0	172	180	2	5	2	4	59	44	4	5	6	-9	34	22	9	5	9	1	0	26	11
5	-4	-5	53	51	4	5	-1	1	70	61	3	5	2	5	60	65	5	5	6	-8	36	38	8	5	9	2	175	185	3
5	-4	-4	22	20	10	5	-1	2	82	88	3	5	2	6	38	42	7	5	6	-7	31	40	9	5	9	3	28	15	10
5	-4	-3	61	62	4	5	-1	3	81	81	3	5	2	7	30	13	9	5	6	-6	63	58	4	5	9	4	194	194	3
5	-4	-2	23	18	8	5	-1	4	50	47	4	5	3	-9	59	59	6	5	6	-5	0	9	10	5	9	5	53	54	7
5	-4	-1	112	113	3	5	-1	5	85	89	4	5	3	-8	47	47	6	5	6	-4	132	125	3	5	10	-6	42	42	8
5	-4	0	118	121	3	5	-1	6	20	22	11	5	3	-7	113	114	3	5	6	-3	288	286	3	5	10	-5	51	53	6
5	-4	1	109	114	3	5	-1	7	77	69	5	5	3	-6	259	252	3	5	6	-2	141	137	2	5	10	-4	35	35	8
5	-4	2	207	214	3	5	0	-9	78	75	5	5	3	-5	29	37	7	5	6	-1	679	681	4	5	10	-3	86	87	4
5	-4	3	20	22	11	5	0	-8	35	26	7	5	3	-4	648	631	4	5	6	0	71	65	3	5	10	-2	87	88	4
5	-4	4	173	170	3	5	0	-7	158	156	3	5	3	-3	336	331	3	5	6	1	713	715	4	5	10	-1	121	131	3
5	-4	5	46	46	6	5	0	-6	53	48	4	5	3	-2	906	874	5	5	6	2	270	264	3	5	10	0	276	284	3
5	-4	6	52	57	7	5	0	-5	167	167	2	5	3	-1	635	608	4	5	6	3	339	346	3	5	10	1	75	76	4
5	-3	-9	0	8	13	5	0	-4	174	173	2	5	3	0	567	540	4	5	6	4	227	232	3	5	10	2	322	328	3
5	-3	-8	13	29	13	5	0	-3	83	85	2	5	3	1	377	363	3	5	6	5	49	50	6	5	10	3	45	31	7
5	-3	-7	25	26	10	5	0	-2	272	267	2	5	3	2	31	31	5	5	6	6	102	96	4	5	10	4	185	183	3
5	-3	-6	19	32	11	5	0	-1	24	19	5	5	3	3	80	80	3	5	6	7	40	26	8	5	11	-5	88	82	5
5	-3	-5	92	94	3	5	0	0	283	273	2	5	3	4	135	124	3	5	7	-8	44	42	7	5	11	-4	99	103	4
5	-3	-4	0	1	10	5	0	1	91	88	2	5	3	5	17	11	10	5	7	-7	0	13	11	5	11	-3	148	151	3
5	-3	-3	248	249	2	5	0	2	216	216	2	5	3	6	99	99	4	5	7	-6	125	127	3	5	11	-2	282	284	3
5	-3	-2	156	158	2	5	0	3	208	210	2	5	3	7	15	17	12	5	7	-5	210	215	3	5	11	-1	109	117	4
5	-3	-1	331	331	3	5	0	4	118	119	3	5	4	-9	57	47	6	5	7	-4	171	173	3	5	11	0	338	341	3
5	-3	0	339	341	3	5	0	5	198	197	3	5	4	-8	127	125	3	5	7	-3	536	543	4	5	11	1	0	7	12
5	-3	1	177	180	2	5	0	6	0	19	12	5	4	-7	26	25	9	5	7	-2	5	9	10	5	11	2	199	206	3
5	-3	2	296	305	3	5	0	7	94	94	4	5	4	-6	318	327	3	5	7	-1	633	641	4	5	11	3	66	75	6
5	-3	3	17	13	10	5	1	-9	55	41	6	5	4	-5	97	102	3	5	7	0	209	214	2	5	12	-4	138	139	4
5	-3	4	118	119	3	5	1	-8	0	11	11	5	4	-4	429	429	3	5	7	1	337	341	3	5	12	-3	95	96	4
5	-3	5	52	54	5	5	1	-7	55	57	5	5	4	-3	192	189	2	5	7	2	219	221	3	5	12	-2	180	184	3
5	-3	6	0	3	12	5	1	-6	72	69	3	5	4	-2	209	200	2	5	7	3	0	37	11	5	12	-1	15	15	12
5	-2	-9	0	20	12	5	1	-5	64	69	3	5	4	-1	44	44	3	5	7	4	93	99	3	5	12	0	112	119	4
5	-2	-8	35	26	7	5	1	-4	155	157	2	5	4	0	135	136	2	5	7	5	51	45	5	5	12	1	50	50	6
5	-2	-7	88	91	4	5	1	-3	83	82	2	5	4	1	39	33	4	5	7	6	15	30	12	5	12	2	34	43	10
5	-2	-6	22	13	9	5	1	-2	256	255	2	5	4	2	216	211	2	5	8	-8	79	71	5	6	-9	-2	34	14	10
5	-2	-5	273	276	3	5	1	-1	68	71	2	5	4	3	91	88	3	5	8	-7	111	107	4	6	-9	-1	19	28	13
5	-2	-4	120	120	2	5	1	0	333	336	2	5	4	4	163	163	3	5	8	-6	115	109	4	6	-8	-5	28	25	13
5	-2	-3	424	432	3	5	1	1	372	369	3	5	4	5	126	125	3	5	8	-5	307	303	3	6	-8	-4	23	25	12
5	-2	-2	352	357	3	5	1	2	313	307	3	5	4	6	114	109	3	5	8	-4	47	39	5	6	-8	-3	35	42	9
5	-2	-1	305	311	2	5	1	3	419	408	3	5	4	7	64	58	5	5	8	-3	398	410	3	6	-8	-2	46	44	7
6	-8	-1	0	21	12	6	-3	-6	123	125	3	6	0	1	122	122	2	6	3	6	31	36	9	6	7	-3	57	59	4
6	-8	0	9	12	12	6	-3	-5	0	23	11	6	0	2	19	30	10	6	3	7	0	12	13	6	7	-2	165	163	3
6	-8	1	0	10	13	6	-3	-4	96	95	3	6	0	3	38	32	5	6	4	-9	28	29	10	6	7	-1	123	124	3
6	-8	2	21	29	13	6	-3	-3	33	32	6	6	0	4	40	46	6	6	4	-8	57	56	5	6	7	0	227	226	3
6	-7	-6	36	40	9	6	-3	-2	89	89	3	6	0	5	21	20	11	6	4	-7	115	122	3	6	7	1	201	207	3
6	-7	-5	11	21	13	6	-3	-1	157	154	2	6	0	6	59	57	5	6	4	-6	59	59	4	6	7	2	134	134	3
6	-7	-4	43	51	7	6	-3	0	135	139	3	6	1	-9	23	12	12	6	4	-5	184	190	2	6	7	3	93	94	4
6	-7	-3	10	11	12	6	-3	1	205	206	3	6	1	-8	44	41	7	6	4	-4	0	9	10	6	7	4	21	34	11
6	-7	-2	3	20	12	6	-3	2	0	7	10	6	1	-7	39	45	7	6	4	-3	111	110	2	6	7	5	12	7	12
6	-7	-1	26	13	11	6	-3	3	111	110	3	6	1	-6	26	26	8	6	4	-2	53	57	3	6	7	6	24	4	12
6	-7	0	87	84	4	6	-3	4	95	91	4	6	1	-5	151	147	2	6	4	-1	16	13	9	6	8	-8	9	17	12
6	-7	1	13	25	8	6	-3	5	0	3	12	6	1	-4	40	38	5	6	4	0	35	28	5	6	8	-7	52	57	6
6	-7	2	39	45	8	6	-3	6	50	56	7	6	1	-3	210	210	2	6	4	1	47	47	4	6	8	-6	60	53	5
6	-7	3	40	32	8	6	-2	-9	13	5	12	6	1	-2	59	62	3	6	4	2	32	34	6	6	8	-5	19	20	11
6	-6	-7	22	7	13	6	-2	-8	60	54	5	6	1	-1	80	81	2	6	4	3	49	58	4	6	8	-4	191	191	3
6	-6	-6	0	8	12	6	-2	-7	18	8	11	6	1	0	49	41	3	6	4	4	44	47	6	6	8	-3	115	114	3
6	-6	-5	35	42	9	6	-2	-6	11	7	10	6	1	1	46	46	4	6	4	5	0	6	11	6	8	-2	225	226	3
6	-6	-4	97	95	4	6	-2	-5	11	19	10	6	1	2	163	161	2	6	4	6	21	38	12	6	8	-1	171	171	3
6	-6	-3	46	44	6	6	-2	-4	144	146	3	6	1	3	14	5	10	6	5	-9	44	50	7	6	8	0	105	104	3
6	-6	-2	159	160	3	6	-2	-3	118	115	3	6	1	4	137	138	3	6	5	-8	0	18	11	6	8	1	65	63	4
6	-6	-1	20	8	11	6	-2	-2	145	142	2	6	1	5	62	57	4	6	5	-7	68	66	4	6	8	2	9	9	11
6	-6	0	63	62	5	6	-2	-1	150	155	2	6	1	6	53	46	5	6	5	-6	51	46	5	6	8	3	17	31	11
6	-6	1	34	22	7	6	-2	0	55	64	4	6	1	7	52	41	6	6	5	-5	14	16	10	6	8	4	45	38	6
6	-6	2	64	63	5	6	-2	1	63	56	4	6	2	-9	33	39	9	6	5	-4	105	107	3	6	8	5	44	25	6
6	-6	3	8	10	12	6	-2	2	139	140	3	6	2	-8	0	6	11	6	5	-3	26	26	7	6	9	-7	27	13	12
6	-6	4	65	67	5	6	-2	3	69	68	4	6	2	-7	87	86	3	6	5	-2	70	66	3	6	9	-6	97	95	4
6	-5	-7	54	52	6	6	-2	4	52	55	5	6	2	-6	20	5	9	6	5	-1	29	14	5	6	9	-5	35	40	8
6	-5	-6	79	70	4	6	-2	5	71	73	4	6	2	-5	60	57	3	6	5	0	9	22	9	6	9	-4	92	98	4
6	-5	-5	72	68	4	6	-2	6	14	14	12	6	2	-4	23	13	7	6	5	1	0	7	9	6	9	-3	39	47	5
6	-5	-4	74	75	4	6	-1	-9	0	13	13	6	2	-3	157	149	2	6	5	2	48	53	5	6	9	-2	20	19	10
6	-5	-3	37	40	6	6	-1	-8	20	47	12	6	2	-2	148	148	2	6	5	3	104	105	3	6	9	-1	35	23	6
6	-5	-2	73	78	4	6	-1	-7	32	6	7	6	2	-1	277	273	2	6	5	4	41	50	7	6	9	0	37	41	6
6	-5	-1	35	35	7	6	-1	-6	154	155	3	6	2	0	268	271	2	6	5	5	122	121	3	6	9	1	60	65	4
6	-5	0	184	201	3	6	-1	-5	62	68	4	6	2	1	86	90	3	6	5	6	45	39	7	6	9	2	37	50	8
6	-5	1	54	59	5	6	-1	-4	176	179	2	6	2	2	218	212	2	6	6	-9	9	7	12	6	9	3	32	14	7
6	-5	2	130	133	3	6	-1	-3	111	112	2	6	2	3	66	66	4	6	6	-8	18	16	12	6	9	4	69	57	4
6	-5	3	41	36	7	6	-1	-2	36	35	5	6	2	4	67	59	4	6	6	-7	25	25	11	6	9	5	5	13	12
6	-5	4	24	23	11	6	-1	-1	11	22	9	6	2	5	54	59	5	6	6	-6	0	3	10	6	10	-6	0	27	12
6	-5	5	0	5	12	6	-1	0	25	26	7	6	2	6	38	16	7	6	6	-5	30	13	6	6	10	-5	24	11	11
6	-4	-8	0	13	13	6	-1	1	108	110	3	6	2	7	31	12	10	6	6	-4	85	81	3	6	10	-4	22	6	11
6	-4	-7	70	73	5	6	-1	2	41	44	6	6	3	-9	38	35	8	6	6	-3	45	45	4	6	10	-3	36	27	6
6	-4	-6	43	28	6	6	-1	3	104	103	3	6	3	-8	0	6	11	6	6	-2	108	117	3	6	10	-2	0	4	11
6	-4	-5	84	83	4	6	-1	4	77	70	3	6	3	-7	23	10	10	6	6	-1	22	3	7	6	10	-1	27	11	6
6	-4	-4	156	160	3	6	-1	5	37	36	7	6	3	-6	28	28	7	6	6	0	46	46	4	6	10	0	12	6	11
6	-4	-3	96	95	3	6	-1	6	18	27	12	6	3	-5	157	158	3	6	6	1	161	159	2	6	10	1	68	79	4
6	-4	-2	190	203	3	6	0	-9	15	12	12	6	3	-4	8	20	9	6	6	2	48	8	4	6	10	2	56	57	6
6	-4	-1	85	87	3	6	0	-8	84	84	4	6	3	-3	240	238	2	6	6	3	203	199	3	6	10	3	82	78	4
6	-4	0	47	50	5	6	0	-7	31	15	7	6	3	-2	105	110	2	6	6	4	0	1	11	6	10	4	52	31	5
6	-4	1	0	11	10	6	0	-6	107	102	3	6	3	-1	51	52	3	6	6	5	88	92	4	6	11	-5	40	21	7
6	-4	2	58	65	5	6	0	-5	6	23	10	6	3	0	115	112	2	6	6	6	0	8	13	6	11	-4	7	31	12
6	-4	3	63	63	4	6	0	-4	26	30	7	6	3	1	109	101	2	6	7	-8	38	26	8	6	11	-3	0	20	12
6	-4	4	40	28	7	6	0	-3	74	74	3	6	3	2	23	22	8	6	7	-7	27	33	10	6	11	-2	36	34	7
6	-4	5	37	46	9	6	0	-2	24	2	9	6	3	3	52	57	5	6	7	-6	62	61	4	6	11	-1	103	110	4
6	-3	-8	48	54	7	6	0	-1	178	173	2	6	3	4	45	45	5	6	7	-5	98	101	3	6	11	0	37	45	5
6	-3	-7	35	30	8	6	0	0	57	53	3	6	3	5	32	29	7	6	7	-4	11	11	10	6	11	1	122	126	4

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
6	11	2	104	93	4	7	-3	-5	12	9	11	7	0	6	0	10	12	7	4	-3	216	226	2	7	8	-6	36	27	7
6	11	3	45	53	8	7	-3	-4	89	96	3	7	1	-9	63	62	5	7	4	-2	51	41	4	7	8	-5	61	66	5
6	12	-4	50	42	7	7	-3	-3	65	71	4	7	1	-8	69	75	5	7	4	-1	75	82	3	7	8	-4	16	19	11
6	12	-3	102	101	4	7	-3	-2	135	138	3	7	1	-7	92	91	4	7	4	0	32	20	5	7	8	-3	71	74	4
6	12	-2	14	12	12	7	-3	-1	81	87	3	7	1	-6	51	52	5	7	4	1	93	94	3	7	8	-2	0	13	10
6	12	-1	129	128	4	7	-3	0	8	11	10	7	1	-5	90	93	3	7	4	2	23	21	9	7	8	-1	0	14	10
6	12	0	59	54	6	7	-3	1	77	83	4	7	1	-4	113	112	3	7	4	3	89	93	3	7	8	0	19	17	10
6	12	1	59	67	6	7	-3	2	119	123	3	7	1	-3	116	116	3	7	4	4	31	28	8	7	8	1	57	60	5
7	-8	-2	12	10	13	7	-3	3	77	80	4	7	1	-2	192	191	2	7	4	5	29	31	9	7	8	2	60	56	4
7	-8	-1	19	7	13	7	-3	4	91	92	4	7	1	-1	95	95	3	7	4	6	0	5	12	7	8	3	32	15	6
7	-7	-5	9	6	13	7	-3	5	55	49	6	7	1	0	41	41	5	7	5	-9	23	6	12	7	8	4	48	44	6
7	-7	-4	0	8	13	7	-2	-8	71	62	5	7	1	1	31	22	6	7	5	-8	66	64	5	7	8	5	34	17	8
7	-7	-3	56	51	6	7	-2	-7	0	6	12	7	1	2	53	53	4	7	5	-7	41	37	6	7	9	-7	44	41	6
7	-7	-2	23	14	12	7	-2	-6	127	125	3	7	1	3	95	90	3	7	5	-6	89	95	4	7	9	-6	36	41	8
7	-7	-1	119	116	4	7	-2	-5	24	18	9	7	1	4	0	6	11	7	5	-5	32	34	7	7	9	-5	57	56	5
7	-7	0	55	55	6	7	-2	-4	59	62	4	7	1	5	61	55	5	7	5	-4	66	60	3	7	9	-4	24	24	9
7	-7	1	109	112	4	7	-2	-3	40	51	6	7	1	6	32	30	10	7	5	-3	101	105	3	7	9	-3	25	15	9
7	-6	-6	34	26	10	7	-2	-2	234	226	3	7	2	-9	43	41	8	7	5	-2	26	31	8	7	9	-2	14	31	11
7	-6	-5	87	81	4	7	-2	-1	34	23	6	7	2	-8	6	21	11	7	5	-1	198	205	2	7	9	-1	24	8	9
7	-6	-4	0	16	12	7	-2	0	391	399	3	7	2	-7	48	56	5	7	5	0	28	40	7	7	9	0	50	63	5
7	-6	-3	176	174	3	7	-2	1	66	57	4	7	2	-6	94	93	3	7	5	1	121	124	3	7	9	1	19	26	11
7	-6	-2	57	56	6	7	-2	2	234	237	3	7	2	-5	71	71	4	7	5	2	0	9	10	7	9	2	48	53	6
7	-6	-1	177	171	3	7	-2	3	64	66	4	7	2	-4	79	75	3	7	5	3	25	21	9	7	9	3	35	32	7
7	-6	0	121	116	3	7	-2	4	38	35	7	7	2	-3	16	10	9	7	5	4	19	31	12	7	9	4	17	21	12
7	-6	1	67	64	5	7	-2	5	32	21	9	7	2	-2	70	68	3	7	5	5	0	11	12	7	10	-6	0	11	12
7	-6	2	81	85	5	7	-1	-9	0	5	13	7	2	-1	173	174	2	7	5	6	29	19	11	7	10	-5	0	8	11
7	-6	3	48	15	6	7	-1	-8	58	53	5	7	2	0	94	92	3	7	6	-8	57	55	6	7	10	-4	7	26	11
7	-5	-7	63	68	7	7	-1	-7	38	41	8	7	2	1	260	256	3	7	6	-7	18	25	12	7	10	-3	4	17	11
7	-5	-6	71	71	5	7	-1	-6	72	72	4	7	2	2	47	42	5	7	6	-6	58	57	4	7	10	-2	52	57	5
7	-5	-5	172	166	3	7	-1	-5	89	90	3	7	2	3	136	142	3	7	6	-5	97	102	3	7	10	-1	0	7	11
7	-5	-4	32	3	9	7	-1	-4	387	385	3	7	2	4	97	91	4	7	6	-4	50	50	4	7	10	0	37	49	7
7	-5	-3	189	190	3	7	-1	-3	45	39	5	7	2	5	0	22	12	7	6	-3	105	108	3	7	10	1	16	4	11
7	-5	-2	84	88	4	7	-1	-2	547	540	4	7	2	6	35	43	9	7	6	-2	27	32	7	7	10	2	22	15	11
7	-5	-1	81	87	4	7	-1	-1	84	80	3	7	3	-9	31	37	10	7	6	-1	0	14	10	7	10	3	38	37	8
7	-5	0	76	73	4	7	-1	0	246	249	3	7	3	-8	43	39	6	7	6	0	46	41	5	7	11	-5	20	4	12
7	-5	1	18	14	12	7	-1	1	97	99	3	7	3	-7	69	63	4	7	6	1	73	78	3	7	11	-4	37	39	8
7	-5	2	23	7	12	7	-1	2	56	59	4	7	3	-6	6	18	11	7	6	2	92	90	3	7	11	-3	20	15	11
7	-5	3	26	34	11	7	-1	3	33	26	7	7	3	-5	20	16	10	7	6	3	0	14	11	7	11	-2	9	19	12
7	-5	4	0	22	13	7	-1	4	106	103	3	7	3	-4	147	145	2	7	6	4	52	51	5	7	11	-1	26	3	9
7	-4	-8	55	48	7	7	-1	5	0	7	12	7	3	-3	186	175	2	7	6	5	47	40	6	7	11	0	19	18	11
7	-4	-7	117	108	4	7	0	-9	47	36	7	7	3	-2	146	147	2	7	7	-8	32	9	9	7	11	1	46	46	6
7	-4	-6	32	7	8	7	0	-8	62	60	5	7	3	-1	299	296	3	7	7	-7	34	43	8	7	11	2	0	11	12
7	-4	-5	146	146	3	7	0	-7	93	95	4	7	3	0	3	17	10	7	7	-6	0	6	11	7	12	-3	24	7	12
7	-4	-4	71	81	5	7	0	-6	218	221	3	7	3	1	148	152	2	7	7	-5	16	13	10	7	12	-2	37	46	9
7	-4	-3	78	76	4	7	0	-5	96	98	3	7	3	2	85	89	3	7	7	-4	33	26	7	7	12	-1	14	28	12
7	-4	-2	51	48	5	7	0	-4	244	247	3	7	3	3	16	17	11	7	7	-3	87	93	3	7	12	0	29	24	10
7	-4	-1	28	26	8	7	0	-3	42	41	5	7	3	4	21	30	11	7	7	-2	82	79	3	8	-7	-2	116	120	4
7	-4	0	22	36	11	7	0	-2	51	49	4	7	3	5	47	44	6	7	7	-1	105	110	3	8	-6	-5	30	3	11
7	-4	1	58	59	5	7	0	-1	36	35	6	7	3	6	21	7	12	7	7	0	112	117	3	8	-6	-4	121	131	4
7	-4	2	0	25	12	7	0	0	276	274	3	7	4	-9	39	34	8	7	7	1	20	3	10	8	-6	-3	72	63	5
7	-4	3	59	54	5	7	0	1	71	67	3	7	4	-8	34	28	8	7	7	2	67	60	4	8	-6	-2	135	131	4
7	-4	4	4	22	12	7	0	2	183	180	3	7	4	-7	0	0	11	7	7	3	66	72	5	8	-6	-1	157	153	4
7	-3	-8	0	8	13	7	0	3	46	41	5	7	4	-6	125	122	3	7	7	4	28	9	9	8	-6	0	45	56	8
7	-3	-7	60	47	5	7	0	4	42	45	6	7	4	-5	131	135	3	7	7	5	43	38	7	8	-6	1	166	165	4
7	-3	-6	4	14	11	7	0	5	20	4	11	7	4	-4	145	146	3	7	8	-7	13	5	12	8	-5	-6	154	146	4
8	-5	-5	44	48	8	8	-1	3	0	22	12	8	3	-1	55	44	4	8	7	-3	82	77	4	9	-4	-1	58	52	5
8	-5	-4	216	210	3	8	-1	4	86	85	4	8	3	0	434	443	3	8	7	-2	113	114	3	9	-4	0	28	26	10
8	-5	-3	179	183	3	8	-1	5	0	7	13	8	3	1	167	163	3	8	7	-1	233	237	3	9	-4	1	67	58	5
8	-5	-2	161	165	3	8	0	-8	112	106	4	8	3	2	228	234	3	8	7	0	37	43	7	9	-3	-6	79	80	5
8	-5	-1	233	239	3	8	0	-7	124	124	4	8	3	3	133	130	3	8	7	1	258	265	3	9	-3	-5	47	48	8
8	-5	0	40	53	9	8	0	-6	114	102	3	8	3	4	35	38	8	8	7	2	64	60	5	9	-3	-4	78	83	5
8	-5	1	151	152	3	8	0	-5	304	309	3	8	3	5	45	50	7	8	7	3	126	132	4	9	-3	-3	0	18	12
8	-5	2	5	13	13	8	0	-4	84	84	3	8	4	-9	52	44	6	8	7	4	65	65	6	9	-3	-2	72	70	4
8	-4	-7	39	17	9	8	0	-3	405	404	3	8	4	-8	11	14	12	8	8	-7	17	25	12	9	-3	-1	38	42	7
8	-4	-6	191	186	3	8	0	-2	296	300	3	8	4	-7	103	102	4	8	8	-6	84	93	5	9	-3	0	63	67	5
8	-4	-5	137	130	3	8	0	-1	293	294	3	8	4	-6	121	116	3	8	8	-5	56	52	5	9	-3	1	52	52	6
8	-4	-4	176	175	3	8	0	0	281	282	3	8	4	-5	132	128	3	8	8	-4	149	152	3	9	-3	2	38	45	9
8	-4	-3	212	210	3	8	0	1	104	103	3	8	4	-4	375	375	3	8	8	-3	210	216	3	9	-2	-7	34	30	9
8	-4	-2	60	66	5	8	0	2	131	126	3	8	4	-3	17	13	11	8	8	-2	100	106	3	9	-2	-6	59	52	5
8	-4	-1	169	166	3	8	0	3	0	7	11	8	4	-2	470	469	3	8	8	-1	263	275	3	9	-2	-5	0	8	12
8	-4	0	26	29	10	8	0	4	45	38	6	8	4	-1	147	148	3	8	8	0	29	11	8	9	-2	-4	89	82	4
8	-4	1	82	83	4	8	0	5	28	37	11	8	4	0	255	260	3	8	8	1	144	148	3	9	-2	-3	53	47	5
8	-4	2	48	57	7	8	1	-9	65	65	6	8	4	1	149	156	3	8	8	2	55	47	5	9	-2	-2	126	126	3
8	-4	3	52	36	6	8	1	-8	28	46	12	8	4	2	37	34	6	8	8	3	0	17	12	9	-2	-1	108	110	3
8	-3	-7	38	47	9	8	1	-7	205	202	3	8	4	3	82	78	4	8	8	4	14	18	12	9	-2	0	109	108	4
8	-3	-6	130	132	3	8	1	-6	80	86	4	8	4	4	29	20	9	8	9	-6	103	97	4	9	-2	1	150	155	3
8	-3	-5	115	115	3	8	1	-5	306	306	3	8	4	5	35	37	9	8	9	-5	119	120	3	9	-2	2	37	21	8
8	-3	-4	57	71	5	8	1	-4	252	254	3	8	5	-8	63	50	5	8	9	-4	83	88	4	9	-2	3	113	115	4
8	-3	-3	138	140	3	8	1	-3	239	242	3	8	5	-7	116	104	3	8	9	-3	155	166	3	9	-1	-7	0	10	12
8	-3	-2	0	6	11	8	1	-2	258	253	3	8	5	-6	197	203	3	8	9	-2	0	17	11	9	-1	-6	85	86	4
8	-3	-1	137	140	3	8	1	-1	69	67	4	8	5	-5	57	59	5	8	9	-1	77	83	4	9	-1	-5	23	23	11
8	-3	0	64	67	5	8	1	0	144	137	3	8	5	-4	277	289	3	8	9	0	22	21	10	9	-1	-4	181	182	3
8	-3	1	121	121	3	8	1	1	64	68	4	8	5	-3	56	53	4	8	9	1	0	7	12	9	-1	-3	131	126	3
8	-3	2	108	109	4	8	1	2	90	89	4	8	5	-2	171	178	3	8	9	2	0	16	12	9	-1	-2	198	203	3
8	-3	3	37	60	9	8	1	3	118	115	3	8	5	-1	92	92	3	8	9	3	0	9	12	9	-1	-1	234	231	3
8	-3	4	99	99	4	8	1	4	66	66	5	8	5	0	26	29	8	8	10	-6	62	52	6	9	-1	0	72	84	5
8	-2	-8	60	50	6	8	1	5	97	93	4	8	5	1	79	78	4	8	10	-5	43	44	7	9	-1	1	205	204	3
8	-2	-7	66	68	5	8	2	-9	87	82	5	8	5	2	8	8	10	8	10	-4	43	29	6	9	-1	2	41	33	7
8	-2	-6	39	36	7	8	2	-8	28	28	10	8	5	3	86	82	4	8	10	-3	0	13	12	9	-1	3	88	91	4
8	-2	-5	136	137	3	8	2	-7	143	138	3	8	5	4	0	17	12	8	10	-2	16	6	11	9	0	-8	67	62	5
8	-2	-4	27	11	9	8	2	-6	70	68	4	8	5	5	72	68	5	8	10	-1	15	10	11	9	0	-7	0	9	12
8	-2	-3	216	225	3	8	2	-5	125	122	3	8	6	-8	71	73	5	8	10	0	0	17	12	9	0	-6	170	170	3
8	-2	-2	56	57	5	8	2	-4	51	46	5	8	6	-7	45	34	6	8	10	1	41	19	6	9	0	-5	97	94	4
8	-2	-1	249	257	3	8	2	-3	57	46	4	8	6	-6	121	125	3	8	10	2	58	56	6	9	0	-4	234	237	3
8	-2	0	179	174	3	8	2	-2	80	66	3	8	6	-5	0	9	11	8	11	-4	26	15	11	9	0	-3	219	219	3
8	-2	1	169	168	3	8	2	-1	47	46	5	8	6	-4	98	100	3	8	11	-3	46	29	6	9	0	-2	143	142	3
8	-2	2	214	211	3	8	2	0	187	182	3	8	6	-3	36	39	6	8	11	-2	27	19	10	9	0	-1	233	233	3
8	-2	3	42	43	7	8	2	1	138	136	3	8	6	-2	72	60	4	8	11	-1	62	58	5	9	0	0	15	7	11
8	-2	4	130	131	4	8	2	2	217	210	3	8	6	-1	88	93	3	8	11	0	80	81	5	9	0	1	127	122	3
8	-1	-8	33	38	11	8	2	3	156	152	3	8	6	0	46	50	5	8	11	1	48	53	7	9	0	2	46	57	7
8	-1	-7	66	58	5	8	2	4	97	97	4	8	6	1	177	172	3	9	-5	-4	146	143	4	9	0	3	48	49	6
8	-1	-6	71	81	5	8	2	5	89	87	5	8	6	2	32	4	7	9	-5	-3	93	105	5	9	0	4	44	41	7
8	-1	-5	166	166	3	8	3	-9	56	52	6	8	6	3	164	164	3	9	-5	-2	188	190	3	9	1	-8	108	103	4
8	-1	-4	50	47	5	8	3	-8	28	10	9	8	6	4	63	59	5	9	-5	-1	16	21	13	9	1	-7	25	11	10
8	-1	-3	280	281	3	8	3	-7	75	79	4	8	6	5	74	71	5	9	-5	0	120	126	4	9	1	-6	176	177	3
8	-1	-2	138	137	3	8	3	-6	17	15	11	8	7	-3	51	39	6	9	-4	-6	96	89	5	9	1	-5	97	96	4
8	-1	-1	263	264	3	8	3	-5	115	113	3	8	7	-7	25	22	11	9	-4	-5	111	114	4	9	1	-4	145	142	3
8	-1	0	287	284	3	8	3	-4	123	119	3	8	7	-6	47	52	6	9	-4	-4	131	131	4	9	1	-3	156	153	3
8	-1	1	130	130	3	8	3	-3	98	97	3	8	7	-5	23	15	10	9	-4	-3	40	27	6	9	1	-2	85	85	6
8	-1	2	224	220	3	8	3	-2	373	375	3	8	7	-4	83	84	4	9	-4	-2	101	91	4	9	1	-1	143	145	3

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
9	1	0	35	40	7	9	5	3	46	34	6	9	11	-1	72	79	5	10	2	0	36	25	7	10	7	2	95	89	4
9	1	1	117	111	3	9	5	4	48	49	7	10	-4	-3	75	85	5	10	2	1	27	26	11	10	8	-6	33	14	8
9	1	2	70	60	4	9	6	-8	38	34	9	10	-4	-2	0	9	13	10	2	2	0	11	12	10	8	-5	0	12	12
9	1	3	74	74	4	9	6	-7	130	126	4	10	-4	-1	51	50	7	10	2	3	51	56	7	10	8	-4	42	13	6
9	1	4	65	63	6	9	6	-6	0	28	12	10	-3	-5	60	65	6	10	3	-7	18	11	12	10	8	-3	58	62	6
9	2	-8	98	100	4	9	6	-5	153	152	3	10	-3	-4	15	8	12	10	3	-6	32	42	9	10	8	-2	42	39	7
9	2	-7	41	39	7	9	6	-4	98	103	3	10	-3	-3	12	14	12	10	3	-5	0	9	11	10	8	-1	130	131	4
9	2	-6	107	106	4	9	6	-3	88	95	4	10	-3	-2	0	4	12	10	3	-4	29	25	8	10	8	0	109	112	4
9	2	-5	119	121	3	9	6	-2	117	122	3	10	-3	-1	40	48	8	10	3	-3	0	6	11	10	8	1	103	106	4
9	2	-4	59	56	4	9	6	-1	33	25	7	10	-3	0	23	22	13	10	3	-2	60	56	5	10	9	-5	90	94	5
9	2	-3	186	188	3	9	6	0	135	133	3	10	-2	-6	0	12	13	10	3	-1	71	70	4	10	9	-4	40	30	8
9	2	-2	18	5	11	9	6	1	4	24	12	10	-2	-5	43	37	7	10	3	0	76	74	4	10	9	-3	166	163	3
9	2	-1	219	223	3	9	6	2	147	149	3	10	-2	-4	40	34	7	10	3	1	125	119	3	10	9	-2	104	105	4
9	2	0	83	80	4	9	6	3	76	66	5	10	-2	-3	63	72	5	10	3	2	0	10	12	10	9	-1	125	127	4
9	2	1	186	188	3	9	6	4	106	104	4	10	-2	-2	42	42	7	10	3	3	84	78	4	10	9	0	113	110	4
9	2	2	143	139	3	9	7	-7	64	65	5	10	-2	-1	28	36	11	10	4	-7	12	10	12	10	9	1	27	32	11
9	2	3	75	78	5	9	7	-6	40	40	7	10	-2	0	0	8	12	10	4	-6	37	33	7	10	10	-3	81	80	4
9	2	4	125	117	4	9	7	-5	64	70	5	10	-2	1	32	6	10	10	4	-5	29	6	9	10	10	-2	42	53	8
9	3	-8	45	42	7	9	7	-4	90	94	4	10	-1	-6	38	32	8	10	4	-4	112	114	3	10	10	-1	0	9	12
9	3	-7	79	83	4	9	7	-3	65	65	4	10	-1	-5	11	27	12	10	4	-3	71	79	4	11	-2	-3	32	23	10
9	3	-6	28	32	10	9	7	-2	191	195	3	10	-1	-4	0	21	11	10	4	-2	117	119	3	11	-2	-2	0	30	13
9	3	-5	168	171	3	9	7	-1	0	9	12	10	-1	-3	23	23	11	10	4	-1	138	144	3	11	-1	-5	13	27	13
9	3	-4	10	8	11	9	7	0	280	280	3	10	-1	-2	42	53	8	10	4	0	28	27	9	11	-1	-4	0	20	13
9	3	-3	273	269	3	9	7	1	96	93	4	10	-1	-1	35	33	8	10	4	1	102	102	4	11	-1	-3	0	6	13
9	3	-2	89	86	3	9	7	2	219	218	3	10	-1	0	89	95	4	10	4	2	49	35	6	11	-1	-2	18	1	12
9	3	-1	304	293	3	9	7	3	137	132	4	10	-1	1	0	16	12	10	4	3	24	14	12	11	-1	-1	55	57	6
9	3	0	209	210	3	9	8	-7	38	52	9	10	-1	2	50	44	6	10	5	-7	17	5	12	11	-1	0	30	7	9
9	3	1	173	166	3	9	8	-6	70	66	5	10	0	-7	0	14	13	10	5	-6	105	101	4	11	0	-6	25	11	12
9	3	2	223	217	3	9	8	-5	84	87	4	10	0	-6	0	4	12	10	5	-5	52	47	5	11	0	-5	31	31	10
9	3	3	0	17	12	9	8	-4	190	193	3	10	0	-5	49	65	7	10	5	-4	119	120	3	11	0	-4	29	32	11
9	3	4	117	110	4	9	8	-3	55	56	6	10	0	-4	82	83	4	10	5	-3	103	107	4	11	0	-3	104	106	4
9	4	-8	0	36	13	9	8	-2	322	325	3	10	0	-3	61	69	5	10	5	-2	49	51	6	11	0	-2	17	4	12
9	4	-7	92	93	4	9	8	-1	66	68	5	10	0	-2	123	125	3	10	5	-1	73	80	4	11	0	-1	106	104	4
9	4	-6	67	58	4	9	8	0	276	286	3	10	0	-1	34	3	7	10	5	0	22	7	11	11	0	0	45	42	7
9	4	-5	222	213	3	9	8	1	153	149	3	10	0	0	52	53	6	10	5	1	7	7	11	11	0	1	34	19	9
9	4	-4	14	7	11	9	8	2	107	109	4	10	0	1	34	31	8	10	5	2	0	7	12	11	1	-6	64	60	5
9	4	-3	324	320	3	9	8	3	96	104	4	10	0	2	23	25	12	10	5	3	26	31	12	11	1	-5	69	83	5
9	4	-2	181	175	3	9	9	-6	114	119	4	10	1	-7	70	63	5	10	6	-7	14	14	12	11	1	-4	31	34	9
9	4	-1	266	256	3	9	9	-5	77	74	5	10	1	-6	56	53	6	10	6	-6	69	70	5	11	1	-3	60	65	6
9	4	0	253	251	3	9	9	-4	240	240	3	10	1	-5	64	71	5	10	6	-5	46	51	7	11	1	-2	27	14	10
9	4	1	67	74	5	9	9	-3	23	12	12	10	1	-4	75	78	4	10	6	-4	42	37	7	11	1	-1	23	31	12
9	4	2	161	157	3	9	9	-2	238	247	3	10	1	-3	12	18	11	10	6	-3	20	35	12	11	1	0	18	6	12
9	4	3	25	23	11	9	9	-1	92	96	4	10	1	-2	9	12	11	10	6	-2	30	2	8	11	1	1	77	74	5
9	4	4	54	49	6	9	9	0	118	114	3	10	1	-1	13	16	12	10	6	-1	7	24	11	11	2	-6	25	38	13
9	5	-8	68	60	5	9	9	1	89	81	4	10	1	0	67	59	4	10	6	0	20	9	12	11	2	-5	22	18	12
9	5	-7	135	133	4	9	9	2	14	6	12	10	1	1	21	5	12	10	6	1	55	36	5	11	2	-4	28	15	10
9	5	-6	26	40	12	9	10	-5	0	17	13	10	1	2	44	41	7	10	6	2	37	26	8	11	2	-3	56	54	6
9	5	-5	253	253	3	9	10	-4	132	138	4	10	1	3	11	5	12	10	7	-6	23	15	11	11	2	-2	38	38	8
9	5	-4	94	87	4	9	10	-3	31	33	10	10	2	-7	32	39	10	10	7	-5	9	15	12	11	2	-1	80	73	4
9	5	-3	251	256	3	9	10	-2	67	77	5	10	2	-6	8	11	12	10	7	-4	0	3	11	11	2	0	66	60	5
9	5	-2	179	190	3	9	10	-1	47	44	6	10	2	-5	0	15	12	10	7	-3	43	45	7	11	2	1	35	22	8
9	5	-1	96	113	4	9	10	0	0	17	12	10	2	-4	56	47	5	10	7	-2	14	6	11	11	3	-6	0	20	12
9	5	0	145	152	3	9	10	1	52	49	6	10	2	-3	8	2	11	10	7	-1	49	19	5	11	3	-5	60	65	6
9	5	1	0	3	11	9	11	-3	0	24	12	10	2	-2	83	77	4	10	7	0	47	46	6	11	3	-4	6	45	12
9	5	2	78	76	4	9	11	-2	38	44	9	10	2	-1	0	7	11	10	7	1	24	29	12	11	3	-3	72	67	5

11	3	-2	44	43	7	12	5	-2	32	28	11
11	3	-1	0	15	12	12	5	-1	156	166	4
11	3	0	0	24	12	12	6	-3	126	139	4
11	3	1	18	1	12	12	6	-2	46	50	7
11	4	-6	48	40	6						
11	4	-5	22	24	12						
11	4	-4	35	17	8						
11	4	-3	37	27	7						
11	4	-2	72	71	4						
11	4	-1	28	24	10						
11	4	0	103	104	4						
11	4	1	13	26	12						
11	5	-6	0	14	12						
11	5	-5	56	64	6						
11	5	-4	88	92	4						
11	5	-3	44	57	7						
11	5	-2	104	105	4						
11	5	-1	0	2	12						
11	5	0	25	16	12						
11	5	1	22	16	12						
11	6	-6	53	41	6						
11	6	-5	42	53	7						
11	6	-4	0	21	12						
11	6	-3	0	11	12						
11	6	-2	66	68	5						
11	6	-1	13	6	12						
11	6	0	111	105	4						
11	6	1	34	32	9						
11	7	-5	20	11	12						
11	7	-4	80	81	5						
11	7	-3	0	17	12						
11	7	-2	88	84	4						
11	7	-1	46	38	6						
11	7	0	40	22	7						
11	8	-4	28	35	10						
11	8	-3	0	10	12						
11	8	-2	0	10	12						
11	8	-1	3	18	12						
11	8	0	0	10	12						
12	1	-3	96	92	4						
12	1	-2	150	153	4						
12	2	-4	145	144	4						
12	2	-3	98	99	4						
12	2	-2	48	53	8						
12	2	-1	47	48	8						
12	3	-4	0	11	13						
12	3	-3	22	20	13						
12	3	-2	51	46	7						
12	3	-1	31	18	10						
12	4	-4	0	3	12						
12	4	-3	55	45	6						
12	4	-2	28	2	11						
12	4	-1	122	125	4						
12	5	-4	33	30	10						
12	5	-3	169	174	3						

APPENDIX 3.III

$[Ni(S_2COiPr)_2]$

Table 3.III.1: Crystallographic Parameters for $[Ni(S_2COCH(CH_3)_2)_2]$

Formula	$C_8H_{14}NiO_2S_4$
Formula weight	329.10
Crystal morphology / colour	block / brown
Crystal dimensions (mm)	0.13 x 0.23 x 0.32
Crystal system	monoclinic
Space group	$P2_1/c$ (#14)
a (Å)	8.869(2)
b (Å)	6.084(1)
c (Å)	13.2029(9)
α (°)	90
β (°)	94.671(9)
γ (°)	90
V (Å^3)	710.1(2)
Z	2
$\rho_{calc.}$ (g cm^{-3})	1.539
$F(000)$	340
Temperature (°K)	293
μ (cm^{-1})	19.18
θ limits, cell (°)	21.3 – 25.0
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 11, 0 – 7, -16 – 16.
Range of transmission factors	0.962 – 1
Scan technique	ω:2θ
No. of data measured	1906
No. of unique data	1796
R_{amal}	0.072
No. of parameters	70
R (I≥0σ(I))	0.056
R_w (I≥0σ(I))	0.077
R (I≥3σ(I))	0.044
R_w (I≥3σ(I))	0.034
Maximum and minimum residual electron density (e Å^{-3})	0.58, -0.65

Table 3.III.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2COCH(CH_3)_2)_2]$

Atom	*x*	*y*	*z*
Ni	0	0	0
S(1)	-0.1927(2)	-0.1637(2)	-0.08437(9)
S(2)	-0.0316(1)	0.2113(2)	-0.13700(9)
O(1)	-0.2717(3)	0.0468(5)	-0.2499(2)
C(1)	-0.1767(5)	0.0398(7)	-0.1714(3)
C(2)	-0.2624(5)	0.2273(8)	-0.3221(3)
C(3)	-0.3488(6)	0.4202(8)	-0.2895(4)
C(4)	-0.3266(6)	0.1311(9)	-0.4187(3)

Table 3.III.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2COCH(CH_3)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0531(6)	0.0551(6)	0.0537(5)	-0.0086(5)	0.0059(4)	-0.0003(5)
S(1)	0.076(1)	0.0691(9)	0.0666(8)	-0.0263(8)	-0.0043(7)	0.0099(7)
S(2)	0.0578(8)	0.0651(9)	0.0633(8)	-0.0174(7)	0.0004(6)	0.0086(7)
O(1)	0.057(2)	0.064(2)	0.052(2)	-0.013(2)	0.002(2)	0.005(2)
C(1)	0.052(3)	0.054(3)	0.048(2)	-0.007(3)	0.015(2)	-0.002(2)
C(2)	0.054(3)	0.068(3)	0.046(2)	-0.007(3)	0.008(2)	0.001(3)
C(3)	0.087(4)	0.070(4)	0.082(4)	0.017(3)	-0.002(3)	-0.012(3)
C(4)	0.107(5)	0.089(4)	0.068(3)	0.006(4)	0.014(3)	0.004(3)

Table 3.III.4: Fractional atomic coordinates and B_{eq} values (Å^2) for the hydrogen atoms in [Ni($S_2CO(CH(CH_3)_2)_2$]*

Atom	*x*	*y*	*z*	B(eq)
H(2a)	-0.1570	0.2662	-0.3310	5.2955
H(3a)	-0.3055	0.4668	-0.2274	7.6586
H(3b)	-0.3431	0.5346	-0.3399	7.6586
H(3c)	-0.4507	0.3784	-0.2872	7.6586
H(4a)	-0.4303	0.0924	-0.4181	8.4157
H(4b)	-0.3208	0.2342	-0.4767	8.4157
H(4c)	-0.2723	0.0014	-0.4388	8.4157

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 3.III.5: Bond distances (Å) for [Ni($S_2COCH(CH_3)_2$)$_2$]

Ni — S(1)	2.201(1)	O(1) — C(1)	1.282(4)
Ni — S(2)	2.218(1)	O(1) — C(2)	1.462(5)
S(1) — C(1)	1.703(4)	C(2) — C(3)	1.485(6)
S(2) — C(1)	1.689(4)	C(2) — C(4)	1.474(6)

Table 3.III.6: Bond Angles (deg.) for [Ni($S_2COCH(CH_3)_2)_2$]

S(1) — Ni — S(1)*	180(-)	S(1) — C(1) — S(2)	111.9(2)
S(1) — Ni — S(2)	78.96(4)	S(1) — C(1) — O(1)	118.9(3)
S(1) — Ni — S(2)*	101.04(4)	S(2) — C(1) — O(1)	129.1(3)
S(2) — Ni — S(2)*	180(-)	O(1) — C(2) — C(3)	110.2(3)
Ni — S(1) — C(1)	84.7(1)	O(1) — C(2) — C(4)	103.3(4)
Ni — S(2) — C(1)	84.4(1)	C(3) — C(2) — C(4)	113.1(4)
C(1) — O(1) — C(2)	119.0(3)		

* atom related by a centre of symmetry

Table 3.III.7: Observed and calculated structure factors for [Ni($S_2COCH(CH_3)_2)_2$]

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	2	12	82	12	0	3	15	25	16	66	1	0	-4	166	165	52	1	2	-5	517	513	99	1	4	-12	37	27	83
0	0	4	67	66	34	0	4	0	282	287	99	1	0	-2	821	821	99	1	2	-4	372	372	99	1	4	-11	74	70	90
0	0	6	100	99	46	0	4	1	-20	9	49	1	0	2	335	334	97	1	2	-3	20	33	30	1	4	-10	124	119	99
0	0	8	258	273	99	0	4	2	78	77	59	1	0	4	443	447	99	1	2	-2	386	384	99	1	4	-9	108	117	99
0	0	10	97	119	75	0	4	3	29	28	48	1	0	6	652	648	99	1	2	-1	490	471	99	1	4	-8	209	209	99
0	0	12	264	257	99	0	4	4	138	148	77	1	0	8	495	474	99	1	2	0	50	49	32	1	4	-7	116	115	85
0	0	14	140	111	99	0	4	5	207	204	99	1	0	10	147	148	84	1	2	1	204	207	64	1	4	-6	176	162	99
0	0	16	64	59	89	0	4	6	312	325	99	1	0	12	110	112	81	1	2	2	496	502	99	1	4	-5	167	157	98
0	1	1	838	816	99	0	4	7	82	76	75	1	0	14	75	75	83	1	2	3	217	210	74	1	4	-4	51	50	64
0	1	2	190	199	50	0	4	8	229	215	99	1	0	16	36	25	75	1	2	4	833	824	99	1	4	-3	41	39	54
0	1	3	81	83	34	0	4	9	115	104	80	1	1	-17	-11	50	99	1	2	5	109	121	51	1	4	-2	142	140	78
0	1	4	149	346	99	0	4	10	49	33	67	1	1	-16	8	3	96	1	2	6	213	198	90	1	4	-1	222	211	99
0	1	5	405	417	99	0	4	11	39	50	72	1	1	-15	73	56	99	1	2	7	233	228	99	1	4	0	358	350	99
0	1	6	362	347	99	0	4	12	20	28	73	1	1	-14	41	11	87	1	2	8	65	57	60	1	4	1	101	96	64
0	1	7	274	263	99	0	4	13	81	86	82	1	1	-13	200	205	99	1	2	9	147	132	88	1	4	2	217	217	99
0	1	8	294	313	99	0	4	14	-12	13	71	1	1	-12	-6	40	84	1	2	10	228	243	99	1	4	3	85	86	61
0	1	9	188	187	94	0	5	1	268	273	99	1	1	-11	34	24	70	1	2	11	65	81	71	1	4	4	153	156	83
0	1	10	271	261	99	0	5	2	148	157	90	1	1	-10	224	212	99	1	2	12	119	112	87	1	4	5	86	88	67
0	1	11	164	165	99	0	5	3	57	54	62	1	1	-9	143	137	85	1	2	13	104	97	84	1	4	6	224	219	99
0	1	12	77	104	78	0	5	4	99	101	70	1	1	-8	101	106	62	1	2	14	26	16	68	1	4	7	69	80	71
0	1	13	125	128	99	0	5	5	-25	10	60	1	1	-7	199	200	86	1	2	15	34	1	71	1	4	8	154	143	97
0	1	14	88	84	89	0	5	6	36	46	63	1	1	-6	492	485	99	1	2	16	58	65	72	1	4	9	131	121	88
0	1	15	66	56	82	0	5	7	143	167	96	1	1	-5	423	413	99	1	3	-15	23	27	87	1	4	10	31	16	67
0	1	16	-33	13	76	0	5	8	39	43	68	1	1	-4	304	325	99	1	3	-14	36	39	96	1	4	11	70	82	79
0	2	0	114	114	41	0	5	9	85	78	77	1	1	-3	585	566	99	1	3	-13	30	32	90	1	4	12	29	40	74
0	2	1	119	117	42	0	5	10	-16	32	67	1	1	-2	837	846	99	1	3	-12	21	18	82	1	4	13	67	63	76
0	2	2	131	135	47	0	5	11	-9	34	68	1	1	-1	1161	1192	99	1	3	-11	159	140	99	1	4	14	55	61	76
0	2	3	134	134	48	0	5	12	27	11	65	1	1	0	265	260	72	1	3	-10	86	66	86	1	5	-13	53	62	91
0	2	4	851	869	99	0	5	13	58	53	64	1	1	1	283	278	79	1	3	-9	290	288	99	1	5	-12	49	52	89
0	2	5	200	208	77	0	6	0	118	128	85	1	1	2	59	38	29	1	3	-8	101	118	84	1	5	-11	22	19	80
0	2	6	189	190	80	0	6	1	109	117	78	1	1	3	143	143	47	1	3	-7	202	202	99	1	5	-10	-13	3	81
0	2	7	39	45	46	0	6	2	149	151	92	1	1	4	98	98	40	1	3	-6	266	265	99	1	5	-9	81	71	85
0	2	8	166	169	87	0	6	3	-24	8	62	1	1	5	25	40	33	1	3	-5	350	348	99	1	5	-8	-31	18	78
0	2	9	222	217	99	0	6	4	45	43	69	1	1	6	66	61	42	1	3	-4	139	125	66	1	5	-7	151	148	99
0	2	10	140	132	88	0	6	5	43	55	69	1	1	7	438	441	99	1	3	-3	57	58	45	1	5	-6	39	28	69
0	2	11	20	34	71	0	6	6	14	15	64	1	1	8	190	189	86	1	3	-2	-24	4	39	1	5	-5	35	62	73
0	2	12	139	140	98	0	6	7	12	1	59	1	1	9	185	185	91	1	3	-1	-12	14	36	1	5	-4	-7	16	67
0	2	13	19	14	70	0	6	8	23	33	66	1	1	10	43	51	61	1	3	0	114	116	50	1	5	-3	50	42	67
0	2	14	22	11	69	0	6	9	48	51	70	1	1	11	281	270	99	1	3	1	176	176	69	1	5	-2	119	122	86
0	2	15	38	39	73	0	6	10	59	53	68	1	1	12	120	119	83	1	3	2	255	250	99	1	5	-1	343	330	99
0	2	16	29	42	75	0	6	11	19	29	60	1	1	13	67	33	67	1	3	3	756	761	99	1	5	0	231	231	99
0	3	1	42	42	39	0	7	1	21	43	65	1	1	14	72	75	76	1	3	4	153	159	71	1	5	1	167	164	99
0	3	2	176	177	68	0	7	2	-26	4	62	1	1	15	36	59	73	1	3	5	429	416	99	1	5	2	50	40	61
0	3	3	349	360	99	0	7	3	85	93	75	1	1	16	43	55	75	1	3	6	35	49	56	1	5	3	-25	8	60
0	3	4	83	73	52	0	7	4	33	47	67	1	2	-16	-37	7	97	1	3	7	93	80	67	1	5	4	25	16	60
0	3	5	502	496	99	0	7	5	31	45	63	1	2	-15	16	0	96	1	3	8	42	36	62	1	5	5	88	97	78
0	3	6	97	103	62	0	7	6	8	11	63	1	2	-14	27	14	91	1	3	9	32	24	64	1	5	6	72	75	78
0	3	7	233	217	99	0	7	7	-31	3	60	1	2	-13	41	3	82	1	3	10	75	70	69	1	5	7	169	162	99
0	3	8	30	32	61	0	7	8	22	33	57	1	2	-12	172	182	99	1	3	11	101	115	81	1	5	8	-15	24	70
0	3	9	89	92	76	1	0	-16	73	77	99	1	2	-11	119	123	99	1	3	12	57	61	75	1	5	9	100	95	82
0	3	10	95	98	75	1	0	-14	177	179	99	1	2	-10	168	153	99	1	3	13	46	41	73	1	5	10	35	4	66
0	3	11	113	124	89	1	0	-12	83	78	84	1	2	-9	96	101	76	1	3	14	-27	14	72	1	5	11	14	17	66
0	3	12	59	75	79	1	0	-10	-5	23	69	1	2	-8	215	196	99	1	3	15	56	60	73	1	5	12	33	47	70
0	3	13	18	12	70	1	0	-8	328	325	99	1	2	-7	145	132	73	1	4	-14	31	43	92	1	5	13	27	33	60
0	3	14	40	32	74	1	0	-6	293	312	99	1	2	-6	355	356	99	1	4	-13	52	25	81	1	6	-11	-26	7	74
1	6	-10	8	13	76	2	1	-15	77	89	99	2	2	7	75	81	59	2	4	0	314	312	99	2	6	3	15	18	64
1	6	-9	39	50	87	2	1	-14	-42	5	94	2	2	8	65	59	58	2	4	1	139	138	71	2	6	4	39	60	72
1	6	-8	12	4	73	2	1	-13	87	82	93	2	2	9	82	80	69	2	4	2	299	299	99	2	6	5	46	46	69
1	6	-7	-22	2	71	2	1	-12	-21	37	80	2	2	10	285	286	99	2	4	3	61	67	60	2	6	6	109	115	87
1	6	-6	63	70	64	2	1	-11	68	67	82	2	2	11	42	35	65	2	4	4	132	125	78	2	6	7	-12	19	69
1	6	-5	57	58	73	2	1	-10	61	72	75	2	2	12	127	121	87	2	4	5	53	30	57	2	6	8	63	70	77
1	6	-4	109	114	88	2	1	-9	167	155	97	2	2	13	39	50	65	2	4	6	130	123	82	2	6	9	32	24	64
1	6	-3	45	55	70	2	1	-8	128	123	76	2	2	14	28	31	66	2	4	7	40	41	62	2	6	10	52	46	67
1	6	-2	164	153	99	2	1	-7	452	448	99	2	2	15	36	49	67	2	4	8	66	67	71	2	7	-7	25	20	51
1	6	-1	29	26	69	2	1	-6	474	476	99	2	2	16	19	34	62	2	4	9	55	71	68	2	7	-6	39	42	55
1	6	0	122	125	94	2	1	-5	255	266	99	2	3	-15	-39	6	98	2	4	10	47	55	69	2	7	-5	67	92	91
1	6	1	96	101	85	2	1	-4	114	95	48	2	3	-14	16	45	91	2	4	11	99	107	89	2	7	-4	-19	0	84
1	6	2	-8	23	70	2	1	-3	437	423	99	2	3	-13	82	88	99	2	4	12	28	39	72	2	7	-3	92	81	87
1	6	3	26	30	65	2	1	-2	929	919	99	2	3	-12	-36	27	91	2	4	13	32	18	68	2	7	-2	39	28	75
1	6	4	50	52	72	2	1	-1	654	637	99	2	3	-11	191	190	99	2	4	14	79	87	81	2	7	-1	6	12	73
1	6	5	65	73	75	2	1	0	281	278	94	2	3	-10	74	60	78	2	5	-13	34	47	89	2	7	0	29	10	69
1	6	6	50	37	68	2	1	1	115	113	44	2	3	-9	195	192	99	2	5	-12	-45	23	88	2	7	1	-38	21	76
1	6	7	-13	0	67	2	1	2	638	639	99	2	3	-8	58	56	74	2	5	-11	-17	13	84	2	7	2	30	1	67
1	6	8	75	70	75	2	1	3	384	392	99	2	3	-7	77	86	69	2	5	-10	41	45	81	2	7	3	82	81	83
1	6	9	38	23	68	2	1	4	-9	20	33	2	3	-6	73	51	62	2	5	-9	62	64	77	2	7	4	51	34	69
1	6	10	79	74	75	2	1	5	439	427	99	2	3	-5	83	73	65	2	5	-8	63	58	74	2	7	5	47	49	71
1	7	-8	10	11	55	2	1	6	84	85	48	2	3	-4	137	140	77	2	5	-7	139	142	99	2	7	6	21	22	65
1	7	-7	29	9	42	2	1	7	297	298	99	2	3	-3	333	333	99	2	5	-6	22	1	64	2	7	7	27	20	59
1	7	-6	17	26	52	2	1	8	134	121	71	2	3	-2	292	286	99	2	5	-5	94	95	81	3	0	-16	49	72	99
1	7	-5	61	85	76	2	1	9	243	254	99	2	3	-1	227	228	93	2	5	-4	21	5	63	3	0	-14	87	79	99
1	7	-4	49	50	72	2	1	10	104	113	71	2	3	0	157	155	68	2	5	-3	121	117	80	3	0	-12	31	35	81
1	7	-3	116	113	91	2	1	11	67	56	65	2	3	1	350	363	99	2	5	-2	89	96	71	3	0	-10	112	103	98
1	7	-2	26	22	70	2	1	12	127	115	82	2	3	2	139	135	64	2	5	-1	239	241	99	3	0	-8	625	620	99
1	7	-1	44	30	68	2	1	13	64	60	66	2	3	3	576	582	99	2	5	0	118	112	80	3	0	-6	282	288	99
1	7	0	-33	16	70	2	1	14	-38	10	67	2	3	4	164	159	75	2	5	1	139	143	89	3	0	-4	155	153	68
1	7	1	43	34	72	2	1	15	58	48	68	2	3	5	180	167	84	2	5	2	-21	11	61	3	0	-2	280	271	99
1	7	2	9	30	72	2	1	16	58	57	68	2	3	6	175	159	87	2	5	3	52	54	64	3	0	0	669	666	99
1	7	3	52	58	74	2	2	-16	-9	7	92	2	3	7	115	110	74	2	5	4	148	154	93	3	0	2	11	17	38
1	7	4	16	7	68	2	2	-15	27	48	99	2	3	8	121	128	80	2	5	5	133	135	90	3	0	4	551	546	99
1	7	5	38	34	68	2	2	-14	35	36	92	2	3	9	135	133	81	2	5	6	36	37	69	3	0	6	522	527	99
1	7	6	13	21	63	2	2	-13	33	29	90	2	3	10	-22	12	65	2	5	7	196	186	99	3	0	8	245	251	99
1	7	7	21	7	60	2	2	-12	171	167	99	2	3	11	163	152	99	2	5	8	37	32	67	3	0	10	57	54	58
2	0	-16	89	78	99	2	2	-11	-17	26	80	2	3	12	49	39	68	2	5	9	75	60	69	3	0	12	9	12	55
2	0	-14	173	200	99	2	2	-10	256	264	99	2	3	13	83	76	75	2	5	10	60	58	70	3	0	14	129	129	89
2	0	-12	122	117	98	2	2	-9	-28	6	69	2	3	14	28	11	68	2	5	11	13	16	66	3	0	16	73	68	63
2	0	-10	43	14	64	2	2	-8	15	25	62	2	3	15	51	44	65	2	5	12	38	25	64	3	1	-16	47	52	99
2	0	-8	408	393	99	2	2	-7	191	193	95	2	4	-14	65	72	99	2	6	-11	-12	31	78	3	1	-15	77	92	99
2	0	-6	681	689	99	2	2	-6	361	356	99	2	4	-13	-23	18	90	2	6	-10	29	6	72	3	1	-14	60	62	98
2	0	-4	161	150	58	2	2	-5	108	110	60	2	4	-12	45	48	88	2	6	-9	40	47	77	3	1	-13	-35	9	92
2	0	-2	1416	1428	99	2	2	-4	213	215	88	2	4	-11	12	18	81	2	6	-8	32	34	80	3	1	-12	40	18	79
2	0	0	186	180	68	2	2	-3	345	348	99	2	4	-10	133	126	99	2	6	-7	64	49	80	3	1	-11	93	82	94
2	0	2	218	200	68	2	2	-2	468	461	99	2	4	-9	40	48	78	2	6	-6	116	115	94	3	1	-10	41	44	82
2	0	4	16	18	33	2	2	-1	120	120	53	2	4	-8	198	214	99	2	6	-5	84	86	83	3	1	-9	266	260	99
2	0	6	674	681	99	2	2	0	57	62	37	2	4	-7	157	146	99	2	6	-4	169	161	99	3	1	-8	98	98	81
2	0	8	558	564	99	2	2	1	34	44	33	2	4	-6	13	23	66	2	6	-3	80	81	84	3	1	-7	442	438	99
2	0	10	164	131	89	2	2	2	713	717	99	2	4	-5	98	100	77	2	6	-2	62	64	77	3	1	-6	161	165	85
2	0	12	68	81	65	2	2	3	306	304	99	2	4	-4	21	33	67	2	6	-1	-19	15	66	3	1	-5	252	247	99
2	0	14	91	107	82	2	2	4	500	502	99	2	4	-3	145	141	83	2	6	0	42	49	73	3	1	-4	345	337	99
2	0	16	7	19	65	2	2	5	27	29	41	2	4	-2	316	313	99	2	6	1	32	27	63	3	1	-3	429	435	99
2	1	-16	-17	22	99	2	2	6	120	102	59	2	4	-1	284	289	99	2	6	2	28	20	63	3	1	-2	280	278	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	1	-1	65	61	50	3	3	-10	95	102	94	3	5	-10	43	53	93	3	7	5	44	50	72	4	2	-10	72	61	96
3	1	0	211	209	80	3	3	-9	40	39	79	3	5	-9	97	85	94	3	7	6	15	4	61	4	2	-9	56	47	95
3	1	1	470	466	99	3	3	-8	112	112	97	3	5	-8	31	16	89	4	0	-16	47	83	99	4	2	-8	56	53	88
3	1	2	542	545	99	3	3	-7	26	31	75	3	5	-7	166	162	99	4	0	-14	-40	18	99	4	2	-7	54	35	80
3	1	3	225	232	82	3	3	-6	13	40	70	3	5	-6	101	101	99	4	0	-12	56	51	99	4	2	-6	132	123	99
3	1	4	90	99	48	3	3	-5	118	111	87	3	5	-5	77	61	92	4	0	-10	252	258	99	4	2	-5	62	64	80
3	1	5	558	567	99	3	3	-4	45	36	70	3	5	-4	-36	18	66	4	0	-8	518	518	99	4	2	-4	659	644	99
3	1	6	280	275	99	3	3	-3	497	496	99	3	5	-3	104	103	86	4	0	-6	64	72	69	4	2	-3	70	74	73
3	1	7	243	236	99	3	3	-2	297	294	99	3	5	-2	96	100	76	4	0	-4	-27	12	58	4	2	-2	175	178	92
3	1	8	44	58	54	3	3	-1	313	318	99	3	5	-1	157	168	98	4	0	-2	12	23	56	4	2	-1	34	31	51
3	1	9	206	197	99	3	3	0	67	65	51	3	5	0	57	65	67	4	0	0	730	727	99	4	2	0	129	135	69
3	1	10	12	10	53	3	3	1	384	389	99	3	5	1	106	108	76	4	0	2	390	391	99	4	2	1	341	334	99
3	1	11	6	33	54	3	3	2	133	128	67	3	5	2	28	34	61	4	0	4	377	380	99	4	2	2	391	390	99
3	1	12	72	76	62	3	3	3	261	261	99	3	5	3	39	41	60	4	0	6	394	393	99	4	2	3	114	113	62
3	1	13	67	83	64	3	3	4	88	99	60	3	5	4	51	19	60	4	0	8	122	98	69	4	2	4	261	251	99
3	1	14	58	67	64	3	3	5	11	24	52	3	5	5	98	114	80	4	0	10	170	168	93	4	2	5	174	179	83
3	1	15	59	57	67	3	3	6	95	87	65	3	5	6	21	30	64	4	0	12	128	150	83	4	2	6	62	56	57
3	1	16	32	32	54	3	3	7	70	73	66	3	5	7	175	171	99	4	0	14	120	117	87	4	2	7	80	68	59
3	2	-16	37	23	96	3	3	8	132	125	78	3	5	8	58	59	74	4	1	-16	25	32	99	4	2	8	255	259	99
3	2	-15	-30	27	99	3	3	9	224	244	99	3	5	9	44	23	66	4	1	-15	39	51	99	4	2	9	111	107	71
3	2	-14	62	69	99	3	3	10	18	33	67	3	5	10	57	50	71	4	1	-14	59	66	99	4	2	10	182	175	99
3	2	-13	46	24	92	3	3	11	178	171	99	3	5	11	26	6	60	4	1	-13	79	68	99	4	2	11	-22	19	60
3	2	-12	161	151	99	3	3	12	39	41	66	3	5	12	48	43	62	4	1	-12	87	98	99	4	2	12	70	61	66
3	2	-11	88	88	95	3	3	13	63	56	72	3	6	-10	27	26	75	4	1	-11	103	106	99	4	2	13	3	21	60
3	2	-10	198	203	99	3	3	14	0	2	63	3	6	-9	30	41	84	4	1	-10	98	98	99	4	2	14	7	6	58
3	2	-9	43	36	75	3	4	-14	48	54	97	3	6	-8	67	71	96	4	1	-9	277	276	99	4	3	-15	31	38	99
3	2	-8	39	29	69	3	4	-13	21	14	91	3	6	-7	92	85	99	4	1	-8	18	14	82	4	3	-14	21	2	99
3	2	-7	98	102	78	3	4	-12	32	38	90	3	6	-6	129	129	99	4	1	-7	169	177	99	4	3	-13	79	67	99
3	2	-6	84	70	68	3	4	-11	32	14	89	3	6	-5	51	49	82	4	1	-6	15	11	67	4	3	-12	13	2	97
3	2	-5	133	122	77	3	4	-10	58	64	89	3	6	-4	84	72	81	4	1	-5	205	201	99	4	3	-11	106	107	99
3	2	-4	642	647	99	3	4	-9	-30	10	86	3	6	-3	60	50	73	4	1	-4	251	253	99	4	3	-10	56	57	99
3	2	-3	409	415	99	3	4	-8	145	131	99	3	6	-2	33	23	65	4	1	-3	229	237	99	4	3	-9	31	22	92
3	2	-2	149	155	76	3	4	-7	30	33	86	3	6	-1	27	18	64	4	1	-2	61	60	58	4	3	-8	12	10	92
3	2	-1	-21	10	42	3	4	-6	84	89	92	3	6	0	-13	6	64	4	1	-1	308	302	99	4	3	-7	15	9	88
3	2	0	253	256	98	3	4	-5	30	41	78	3	6	1	59	50	67	4	1	0	566	573	99	4	3	-6	194	209	99
3	2	1	386	384	99	3	4	-4	110	106	99	3	6	2	113	108	83	4	1	1	440	444	99	4	3	-5	413	407	99
3	2	2	548	552	99	3	4	-3	271	271	99	3	6	3	-12	10	69	4	1	2	227	229	91	4	3	-4	251	237	99
3	2	3	267	265	99	3	4	-2	366	367	99	3	6	4	107	98	85	4	1	3	415	412	99	4	3	-3	396	395	99
3	2	4	316	312	99	3	4	-1	125	122	81	3	6	5	40	19	64	4	1	4	253	256	99	4	3	-2	93	89	73
3	2	5	11	21	41	3	4	0	266	269	99	3	6	6	97	88	79	4	1	5	121	126	64	4	3	-1	120	109	74
3	2	6	78	75	56	3	4	1	275	282	99	3	6	7	26	13	63	4	1	6	255	260	99	4	3	0	72	72	60
3	2	7	163	168	81	3	4	2	65	56	62	3	6	8	34	52	71	4	1	7	248	256	99	4	3	1	144	130	75
3	2	8	156	167	85	3	4	3	81	82	63	3	6	9	46	44	64	4	1	8	58	69	58	4	3	2	67	64	56
3	2	9	31	28	61	3	4	4	83	86	65	3	7	-7	47	46	71	4	1	9	35	27	57	4	3	3	174	174	89
3	2	10	237	221	99	3	4	5	118	133	82	3	7	-6	7	20	68	4	1	10	80	96	64	4	3	4	111	112	67
3	2	11	46	37	65	3	4	6	127	127	84	3	7	-5	70	69	75	4	1	11	75	77	62	4	3	5	68	65	60
3	2	12	113	111	82	3	4	7	-18	7	57	3	7	-4	16	32	76	4	1	12	27	19	54	4	3	6	4	1	55
3	2	13	34	35	61	3	4	8	130	134	90	3	7	-3	22	32	73	4	1	13	91	92	72	4	3	7	161	163	92
3	2	14	-15	19	58	3	4	9	41	44	65	3	7	-2	31	10	66	4	1	14	35	24	56	4	3	8	60	47	61
3	2	15	51	43	59	3	4	10	70	71	74	3	7	-1	29	8	65	4	1	15	69	63	59	4	3	9	195	191	99
3	3	-15	54	45	98	3	4	11	24	14	64	3	7	0	-7	5	66	4	2	-15	24	23	99	4	3	10	-38	1	64
3	3	-14	32	11	96	3	4	12	54	52	72	3	7	1	13	23	69	4	2	-14	59	66	99	4	3	11	117	114	83
3	3	-13	95	105	99	3	4	13	-17	1	63	3	7	2	58	49	73	4	2	-13	28	53	99	4	3	12	56	48	63
3	3	-12	-25	6	97	3	5	-12	43	35	87	3	7	3	99	108	87	4	2	-12	153	161	99	4	3	13	-14	6	62
3	3	-11	195	204	99	3	5	-11	19	5	86	3	7	4	-28	21	71	4	2	-11	34	11	97	4	3	14	-17	3	54
4	4	-14	14	27	96	4	6	-6	61	75	96	5	1	-1	570	565	99	5	3	-5	443	440	99	5	5	-1	176	179	99
4	4	-13	38	44	99	4	6	-5	-10	6	67	5	1	0	285	285	99	5	3	-4	185	177	99	5	5	0	75	68	77
4	4	-12	35	13	96	4	6	-4	5	11	74	5	1	1	306	310	99	5	3	-3	204	209	99	5	5	1	119	115	93
4	4	-11	25	18	99	4	6	-3	50	46	81	5	1	2	33	27	50	5	3	-2	76	78	80	5	5	2	62	71	76
4	4	-10	73	64	99	4	6	-2	31	5	70	5	1	3	264	261	99	5	3	-1	24	31	66	5	5	3	32	33	66
4	4	-9	56	50	99	4	6	-1	40	38	73	5	1	4	347	344	99	5	3	0	199	195	99	5	5	4	26	26	64
4	4	-8	105	94	99	4	6	0	87	83	77	5	1	5	69	73	63	5	3	1	-17	29	62	5	5	5	96	98	79
4	4	-7	38	29	91	4	6	1	107	103	86	5	1	6	33	9	55	5	3	2	30	21	60	5	5	6	-10	7	60
4	4	-6	109	97	99	4	6	2	126	128	96	5	1	7	170	164	90	5	3	3	227	233	99	5	5	7	80	75	73
4	4	-5	-44	15	91	4	6	3	21	19	64	5	1	8	209	206	99	5	3	4	158	154	91	5	5	8	31	13	62
4	4	-4	229	233	99	4	6	4	104	107	88	5	1	9	35	38	56	5	3	5	147	146	88	5	5	9	-9	4	58
4	4	-3	203	203	99	4	6	5	28	28	67	5	1	10	30	29	56	5	3	6	-19	13	59	5	5	10	25	41	59
4	4	-2	220	221	99	4	6	6	27	23	64	5	1	11	104	110	73	5	3	7	195	197	99	5	6	-8	56	46	99
4	4	-1	101	93	79	4	6	7	-18	8	61	5	1	12	40	27	55	5	3	8	13	5	58	5	6	-7	15	18	99
4	4	0	225	221	99	4	6	8	34	16	62	5	1	13	91	85	69	5	3	9	114	105	81	5	6	-6	34	26	78
4	4	1	177	175	99	4	7	-5	49	50	81	5	1	14	-25	20	56	5	3	10	17	10	60	5	6	-5	20	4	71
4	4	2	23	35	62	4	7	-4	5	5	74	5	2	-15	38	32	99	5	3	11	50	43	61	5	6	-4	-23	21	77
4	4	3	10	5	55	4	7	-3	41	24	72	5	2	-14	60	40	99	5	3	12	22	32	60	5	6	-3	21	44	83
4	4	4	61	62	62	4	7	-2	-26	6	70	5	2	-13	48	58	99	5	3	13	15	15	56	5	6	-2	44	40	76
4	4	5	232	228	99	4	7	-1	16	16	70	5	2	-12	127	130	99	5	4	-13	44	46	99	5	6	-1	20	14	75
4	4	6	178	183	99	4	7	0	32	20	67	5	2	-11	52	47	99	5	4	-12	28	6	99	5	6	0	130	130	99
4	4	7	-27	22	61	4	7	1	70	71	76	5	2	-10	50	54	99	5	4	-11	-27	26	99	5	6	1	81	81	85
4	4	8	154	146	94	4	7	2	14	16	74	5	2	-9	95	93	99	5	4	-10	117	107	99	5	6	2	91	97	87
4	4	9	-12	4	61	4	7	3	79	76	75	5	2	-8	-9	29	99	5	4	-9	107	105	99	5	6	3	39	28	64
4	4	10	41	39	67	4	7	4	-30	6	64	5	2	-7	-10	45	99	5	4	-8	149	144	99	5	6	4	34	29	67
4	4	11	-26	11	66	5	0	-16	53	65	99	5	2	-6	420	410	99	5	4	-7	-45	22	99	5	6	5	63	58	67
4	4	12	36	52	68	5	0	-14	59	62	99	5	2	-5	98	94	99	5	4	-6	79	87	99	5	6	6	8	8	63
4	4	13	-18	2	52	5	0	-12	19	30	99	5	2	-4	310	307	99	5	4	-5	48	9	91	5	6	7	13	30	61
4	5	-12	39	38	99	5	0	-10	261	270	99	5	2	-3	123	117	92	5	4	-4	128	119	99	5	7	-3	47	53	77
4	5	-11	21	5	99	5	0	-8	160	161	99	5	2	-2	134	128	91	5	4	-3	42	26	77	5	7	-2	-22	11	74
4	5	-10	19	35	99	5	0	-6	77	81	92	5	2	-1	134	137	85	5	4	-2	119	125	93	5	7	-1	-14	14	70
4	5	-9	139	133	99	5	0	-4	33	49	73	5	2	0	70	67	64	5	4	-1	85	68	75	5	7	0	22	22	69
4	5	-8	108	104	99	5	0	-2	551	540	99	5	2	1	-24	19	56	5	4	0	87	81	79	5	7	1	62	74	71
4	5	-7	155	148	99	5	0	0	565	552	99	5	2	2	311	314	99	5	4	1	81	88	78	5	7	2	-7	11	62
4	5	-6	72	67	97	5	0	2	257	260	99	5	2	3	102	104	70	5	4	2	84	91	72	6	0	-14	81	94	99
4	5	-5	5	30	87	5	0	4	34	27	53	5	2	4	204	203	99	5	4	3	154	159	95	6	0	-12	-31	53	99
4	5	-4	12	13	68	5	0	6	251	261	99	5	2	5	236	235	99	5	4	4	114	114	82	6	0	-10	106	105	99
4	5	-3	24	40	73	5	0	8	91	78	68	5	2	6	130	119	77	5	4	5	98	100	76	6	0	-8	129	120	99
4	5	-2	69	66	77	5	0	10	-23	9	57	5	2	7	113	121	73	5	4	6	209	203	99	6	0	-6	49	36	99
4	5	-1	141	144	99	5	0	12	147	150	93	5	2	8	131	127	81	5	4	7	-43	0	61	6	0	-4	70	78	93
4	5	0	25	27	68	5	0	14	114	112	77	5	2	9	110	110	76	5	4	8	80	73	73	6	0	-2	633	634	99
4	5	1	108	102	80	5	1	-15	38	33	99	5	2	10	164	161	94	5	4	9	89	92	71	6	0	0	406	409	99
4	5	2	33	38	65	5	1	-14	38	42	99	5	2	11	-28	19	61	5	4	10	-15	8	60	6	0	2	52	57	64
4	5	3	68	69	68	5	1	-13	74	85	99	5	2	12	-2	12	57	5	4	11	-19	18	60	6	0	4	-15	26	62
4	5	4	63	73	66	5	1	-12	38	16	99	5	2	13	31	19	55	5	4	12	38	31	56	6	0	6	247	243	99
4	5	5	130	134	89	5	1	-11	131	137	99	5	2	14	13	3	49	5	5	-11	-12	26	99	6	0	8	78	77	66
4	5	6	34	49	69	5	1	-10	115	112	99	5	3	-14	-17	25	99	5	5	-10	-33	28	99	6	0	10	118	116	80
4	5	7	105	106	82	5	1	-9	161	170	99	5	3	-13	59	36	99	5	5	-9	126	112	99	6	0	12	102	82	72
4	5	8	44	47	68	5	1	-8	47	46	99	5	3	-12	-22	1	99	5	5	-8	77	77	99	6	1	-15	20	45	99
4	5	9	-23	19	63	5	1	-7	89	86	99	5	3	-11	32	58	99	5	5	-7	96	101	99	6	1	-14	-14	52	99
4	5	10	11	10	63	5	1	-6	139	132	99	5	3	-10	33	23	99	5	5	-6	-23	16	99	6	1	-13	64	58	99
4	5	11	-25	8	61	5	1	-5	209	206	99	5	3	-9	37	40	99	5	5	-5	-24	16	85	6	1	-12	62	71	99
4	6	-9	-40	11	99	5	1	-4	-27	7	74	5	3	-8	49	25	99	5	5	-4	43	37	76	6	1	-11	86	91	99
4	6	-8	80	77	99	5	1	-3	65	62	75	5	3	-7	112	108	99	5	5	-3	23	37	79	6	1	-10	77	66	99
4	6	-7	36	56	99	5	1	-2	61	65	72	5	3	-6	51	73	99	5	5	-2	82	74	84	6	1	-9	69	51	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	1	-8	37	17	99	6	3	-8	60	69	99	6	5	0	93	90	91	7	1	3	50	37	68	7	3	7	45	44	62
6	1	-7	179	181	99	6	3	-7	163	160	99	6	5	1	83	84	86	7	1	4	20	29	68	7	3	8	72	76	73
6	1	-6	185	180	99	6	3	-6	35	62	99	6	5	2	76	80	80	7	1	5	176	175	99	7	3	9	55	52	59
6	1	-5	151	153	99	6	3	-5	195	194	99	6	5	3	32	5	65	7	1	6	86	83	73	7	3	10	33	26	53
6	1	-4	22	38	91	6	3	-4	48	52	93	6	5	4	54	46	68	7	1	7	128	125	84	7	3	11	41	47	56
6	1	-3	245	240	99	6	3	-3	68	65	92	6	5	5	54	60	69	7	1	8	66	63	65	7	4	-11	-26	58	99
6	1	-2	67	60	79	6	3	-2	37	29	83	6	5	6	8	5	64	7	1	9	96	83	71	7	4	-10	62	66	99
6	1	-1	298	293	99	6	3	-1	45	37	77	6	5	7	70	66	70	7	1	10	64	57	60	7	4	-9	17	1	99
6	1	0	40	34	67	6	3	0	107	110	89	6	5	8	24	5	59	7	1	11	40	39	60	7	4	-8	59	57	99
6	1	1	260	260	99	6	3	1	175	181	99	6	5	9	3	4	53	7	1	12	69	61	56	7	4	-7	79	60	99
6	1	2	12	47	67	6	3	2	7	9	67	6	6	-7	-10	13	92	7	2	-13	41	12	99	7	4	-6	-27	5	99
6	1	3	53	46	62	6	3	3	270	269	99	6	6	-6	55	47	81	7	2	-12	68	84	99	7	4	-5	49	42	99
6	1	4	216	217	99	6	3	4	115	115	81	6	6	-5	-9	25	78	7	2	-11	19	13	99	7	4	-4	35	19	95
6	1	5	221	219	99	6	3	5	175	167	99	6	6	-4	35	41	77	7	2	-10	21	28	99	7	4	-3	98	111	99
6	1	6	103	107	73	6	3	6	32	31	61	6	6	-3	-17	30	81	7	2	-9	42	5	99	7	4	-2	154	157	99
6	1	7	128	112	82	6	3	7	34	27	58	6	6	-2	76	76	91	7	2	-8	99	119	99	7	4	-1	43	32	80
6	1	8	203	199	99	6	3	8	68	64	64	6	6	-1	71	63	87	7	2	-7	128	118	99	7	4	0	144	144	99
6	1	9	113	112	77	6	3	9	48	56	62	6	6	0	96	92	92	7	2	-6	146	146	99	7	4	1	-22	27	81
6	1	10	27	34	58	6	3	10	20	32	59	6	6	1	38	51	82	7	2	-5	52	51	99	7	4	2	39	29	73
6	1	11	82	75	65	6	3	11	-11	21	59	6	6	2	38	45	76	7	2	-4	155	155	99	7	4	3	-12	4	67
6	1	12	66	74	69	6	3	12	23	15	52	6	6	3	-15	26	68	7	2	-3	101	103	99	7	4	4	96	100	87
6	1	13	51	50	56	6	4	-12	55	24	99	6	6	4	27	16	62	7	2	-2	36	26	82	7	4	5	-23	27	69
6	2	-14	43	31	99	6	4	-11	45	67	99	6	6	5	46	44	61	7	2	-1	104	109	99	7	4	6	58	54	65
6	2	-13	48	4	99	6	4	-10	110	103	99	6	6	6	30	19	55	7	2	0	147	145	99	7	4	7	80	64	69
6	2	-12	91	92	99	6	4	-9	90	79	99	7	0	-14	40	26	99	7	2	1	91	85	85	7	4	8	22	5	54
6	2	-11	33	40	99	6	4	-8	124	122	99	7	0	-12	6	51	99	7	2	2	281	279	99	7	4	9	-16	12	58
6	2	-10	65	69	99	6	4	-7	80	91	99	7	0	-10	20	13	99	7	2	3	28	19	69	7	5	-9	37	53	99
6	2	-9	44	33	99	6	4	-6	70	71	99	7	0	-8	222	212	99	7	2	4	156	146	98	7	5	-8	-10	3	99
6	2	-8	36	19	99	6	4	-5	-43	4	99	7	0	-6	69	83	99	7	2	5	91	93	75	7	5	-7	43	29	99
6	2	-7	96	81	99	6	4	-4	-16	10	86	7	0	-4	145	146	99	7	2	6	26	22	64	7	5	-6	18	1	99
6	2	-6	368	360	99	6	4	-3	-29	7	83	7	0	-2	349	354	99	7	2	7	50	51	67	7	5	-5	27	11	89
6	2	-5	159	164	99	6	4	-2	149	146	99	7	0	0	172	172	99	7	2	8	80	88	71	7	5	-4	23	13	90
6	2	-4	193	203	99	6	4	-1	14	26	74	7	0	2	193	193	99	7	2	9	-2	15	61	7	5	-3	111	101	99
6	2	-3	99	90	99	6	4	0	73	76	83	7	0	4	184	190	99	7	2	10	52	58	68	7	5	-2	68	79	99
6	2	-2	37	47	81	6	4	1	28	4	63	7	0	6	259	250	99	7	2	11	51	48	60	7	5	-1	126	131	99
6	2	-1	4	13	70	6	4	2	91	92	83	7	0	8	106	105	78	7	2	12	-20	29	56	7	5	0	69	67	88
6	2	0	120	120	86	6	4	3	121	114	87	7	0	10	16	26	60	7	3	-12	-28	42	99	7	5	1	60	33	75
6	2	1	50	45	70	6	4	4	157	153	98	7	0	12	62	53	57	7	3	-11	102	94	99	7	5	2	11	27	74
6	2	2	314	311	99	6	4	5	22	23	61	7	1	-14	43	27	99	7	3	-10	63	61	99	7	5	3	20	23	69
6	2	3	27	37	67	6	4	6	131	125	90	7	1	-13	67	50	99	7	3	-9	55	51	99	7	5	4	61	50	77
6	2	4	156	151	92	6	4	7	47	46	63	7	1	-12	50	36	99	7	3	-8	68	56	99	7	5	5	62	71	73
6	2	5	-9	10	61	6	4	8	18	16	62	7	1	-11	47	33	99	7	3	-7	99	112	99	7	5	6	-33	19	67
6	2	6	136	133	85	6	4	9	59	51	64	7	1	-10	38	61	99	7	3	-6	52	4	99	7	5	7	50	58	62
6	2	7	134	126	83	6	4	10	-29	5	56	7	1	-9	53	55	99	7	3	-5	65	62	99	7	6	-5	14	28	74
6	2	8	55	49	58	6	4	11	35	38	54	7	1	-8	129	132	99	7	3	-4	34	54	99	7	6	-4	57	52	84
6	2	9	51	45	61	6	5	-10	46	55	99	7	1	-7	187	194	99	7	3	-3	54	39	89	7	6	-3	-11	17	86
6	2	10	103	105	79	6	5	-9	59	67	99	7	1	-6	108	106	99	7	3	-2	40	31	78	7	6	-2	-11	44	89
6	2	11	49	45	61	6	5	-8	7	3	99	7	1	-5	76	92	99	7	3	-1	28	48	84	7	6	-1	28	30	81
6	2	12	-4	16	56	6	5	-7	41	43	99	7	1	-4	127	128	99	7	3	0	22	14	74	7	6	0	22	41	83
6	2	13	26	30	55	6	5	-6	-27	21	99	7	1	-3	260	254	99	7	3	1	215	222	99	7	6	1	49	45	71
6	3	-13	39	41	99	6	5	-5	51	14	92	7	1	-2	88	84	99	7	3	2	64	68	80	7	6	2	24	13	66
6	3	-12	16	12	99	6	5	-4	59	68	91	7	1	-1	163	165	99	7	3	3	212	212	99	7	6	3	47	56	72
6	3	-11	87	94	99	6	5	-3	58	57	84	7	1	0	43	55	82	7	3	4	56	53	71	8	0	-12	-40	12	99
6	3	-10	47	66	99	6	5	-2	26	29	80	7	1	1	96	87	85	7	3	5	86	73	74	8	0	-10	93	89	99
6	3	-9	62	60	99	6	5	-1	198	201	99	7	1	2	24	25	71	7	3	6	18	20	64	8	0	-8	147	158	99
8	0	-6	75	77	99	8	2	9	34	19	60	9	0	-4	63	65	99	9	3	-1	17	50	96	10	2	0	57	71	98
8	0	-4	122	131	99	8	2	10	80	73	66	9	0	-2	126	141	99	9	3	0	32	38	91	10	2	1	36	15	81
8	0	-2	166	167	99	8	3	-11	44	53	99	9	0	0	35	19	76	9	3	1	61	70	92	10	2	2	87	84	92
8	0	0	35	45	78	8	3	-10	6	8	99	9	0	2	116	117	91	9	3	2	-21	6	79	10	2	3	31	43	83
8	0	2	59	59	69	8	3	-9	-28	24	99	9	0	4	108	113	89	9	3	3	58	52	78	10	2	4	29	20	70
8	0	4	195	214	99	8	3	-8	-51	15	99	9	0	6	98	114	79	9	3	4	25	47	75	10	2	5	28	19	66
8	0	6	200	201	99	8	3	-7	54	21	99	9	0	8	28	21	53	9	3	5	19	25	70	10	2	6	40	39	59
8	0	8	49	51	63	8	3	-6	58	36	99	9	1	-11	42	31	99	9	3	6	47	43	68	10	3	-6	21	31	99
8	0	10	-16	27	54	8	3	-5	92	95	99	9	1	-10	-44	6	99	9	3	7	42	48	62	10	3	-5	74	86	99
8	1	-13	69	39	99	8	3	-4	88	71	99	9	1	-9	90	107	99	9	4	-7	16	20	99	10	3	-4	49	40	99
8	1	-12	65	3	99	8	3	-3	81	82	99	9	1	-8	-24	27	99	9	4	-6	26	22	99	10	3	-3	48	54	99
8	1	-11	21	13	99	8	3	-2	-26	12	90	9	1	-7	28	52	99	9	4	-5	39	58	99	10	3	-2	11	2	98
8	1	-10	-19	26	99	8	3	-1	111	109	99	9	1	-6	-50	8	99	9	4	-4	94	95	99	10	3	-1	20	16	89
8	1	-9	123	133	99	8	3	0	-38	23	87	9	1	-5	64	54	99	9	4	-3	52	46	99	10	3	0	49	42	96
8	1	-8	94	104	99	8	3	1	141	131	99	9	1	-4	88	83	99	9	4	-2	79	90	99	10	3	1	57	53	83
8	1	-7	107	102	99	8	3	2	39	41	77	9	1	-3	68	71	99	9	4	-1	-25	8	92	10	3	2	35	39	81
8	1	-6	34	56	99	8	3	3	110	112	94	9	1	-2	8	11	93	9	4	0	15	14	85	10	3	3	34	38	78
8	1	-5	86	92	99	8	3	4	66	59	73	9	1	-1	85	80	97	9	4	1	71	74	94	10	3	4	20	15	63
8	1	-4	178	180	99	8	3	5	48	31	66	9	1	0	145	148	99	9	4	2	4	16	78	11	0	-6	-20	11	99
8	1	-3	77	80	99	8	3	6	49	51	70	9	1	1	86	84	88	9	4	3	36	41	79	11	0	-4	52	60	99
8	1	-2	40	61	92	8	3	7	25	10	62	9	1	2	-37	5	75	9	4	4	54	49	74	11	0	-2	56	80	99
8	1	-1	157	157	99	8	3	8	19	5	64	9	1	3	105	104	93	9	4	5	44	32	64	11	0	0	68	79	81
8	1	0	148	148	99	8	3	9	75	69	66	9	1	4	87	79	79	10	0	-8	51	54	99	11	0	2	27	27	68
8	1	1	12	14	71	8	4	-9	64	28	99	9	1	5	71	75	78	10	0	-6	-21	20	99	11	1	-6	-14	9	99
8	1	2	28	17	69	8	4	-8	65	29	99	9	1	6	-6	12	62	10	0	-4	-14	38	99	11	1	-5	4	42	99
8	1	3	172	168	99	8	4	-7	21	19	99	9	1	7	38	45	64	10	0	-2	126	130	99	11	1	-4	-30	18	99
8	1	4	15	3	68	8	4	-6	29	12	99	9	1	8	-28	13	59	10	0	0	49	50	80	11	1	-3	40	45	97
8	1	5	103	109	87	8	4	-5	-24	8	99	9	1	9	20	12	49	10	0	2	56	63	75	11	1	-2	49	38	92
8	1	6	21	29	64	8	4	-4	83	94	99	9	2	-10	31	24	99	10	0	4	58	76	75	11	1	-1	63	64	97
8	1	7	100	92	72	8	4	-3	103	105	99	9	2	-9	41	20	99	10	0	6	34	37	58	11	1	0	-11	13	82
8	1	8	-32	0	61	8	4	-2	140	131	99	9	2	-8	-33	18	99	10	1	-9	49	37	99	11	1	1	42	40	76
8	1	9	15	27	62	8	4	-1	42	30	85	9	2	-7	12	1	99	10	1	-8	27	23	99	11	1	2	45	44	76
8	1	10	48	48	58	8	4	0	75	76	97	9	2	-6	114	112	99	10	1	-7	36	36	99	11	1	3	-3	13	79
8	1	11	30	21	50	8	4	1	58	60	90	9	2	-5	-37	30	99	10	1	-6	11	29	99	11	2	-4	38	44	99
8	2	-12	53	66	99	8	4	2	31	17	78	9	2	-4	74	63	99	10	1	-5	-34	26	99	11	2	-3	-32	6	96
8	2	-11	-35	6	99	8	4	3	21	1	71	9	2	-3	13	39	99	10	1	-4	-18	24	99	11	2	-2	-35	14	89
8	2	-10	-51	12	99	8	4	4	61	47	75	9	2	-2	60	56	95	10	1	-3	79	67	99	11	2	-1	-28	3	86
8	2	-9	10	9	99	8	4	5	39	30	66	9	2	-1	85	92	99	10	1	-2	61	57	98	11	2	0	61	59	88
8	2	-8	92	91	99	8	4	6	43	44	70	9	2	0	91	100	99	10	1	-1	38	58	96	11	2	1	-15	5	77
8	2	-7	57	58	99	8	4	7	11	20	58	9	2	1	51	52	84	10	1	0	46	56	92						
8	2	-6	84	90	99	8	5	-6	22	13	99	9	2	2	129	127	99	10	1	1	102	97	94						
8	2	-5	49	50	99	8	5	-5	32	14	98	9	2	3	16	4	73	10	1	2	19	16	76						
8	2	-4	76	76	99	8	5	-4	-27	15	94	9	2	4	-11	7	71	10	1	3	36	29	74						
8	2	-3	79	80	99	8	5	-3	92	97	99	9	2	5	48	51	76	10	1	4	71	77	84						
8	2	-2	69	64	93	8	5	-2	44	49	92	9	2	6	-22	15	64	10	1	5	35	43	79						
8	2	-1	7	33	84	8	5	-1	69	71	92	9	2	7	-9	4	62	10	1	6	24	21	68						
8	2	0	121	134	99	8	5	0	49	30	81	9	2	8	62	60	66	10	1	7	19	25	56						
8	2	1	159	157	94	8	5	1	17	17	81	9	3	-9	31	18	99	10	1	-8	37	20	99						
8	2	2	185	189	99	8	5	2	67	72	85	9	3	-8	22	22	99	10	1	-7	27	14	99						
8	2	3	30	34	77	8	5	3	-12	6	71	9	3	-7	23	5	99	10	1	-6	30	35	99						
8	2	4	93	91	86	8	5	4	13	2	65	9	3	-6	29	7	99	10	1	-5	80	3	99						
8	2	5	-7	19	70	8	5	5	73	71	73	9	3	-5	127	115	99	10	1	-4	76	75	99						
8	2	6	63	62	89	9	1	-11	125	136	99	9	3	-4	66	61	99	10	1	-3	24	22	99						
8	2	7	28	4	68	9	1	-6	94	93	99	9	3	-3	39	35	99	10	1	-2	-28	5	96						
8	2	8	92	88	74	9	1	-5	11	16	99	9	3	-2	42	33	99	10	1	-1	13	38	98						

APPENDIX 3.IV

$[Ni(S_2COnBu)_2]$

Table 3.IV.1: Crystallographic Parameters for [Ni($S_2COCH_2CH_2CH_2CH_3$)2]

Formula	$C_{10}H_{18}NiO_2S_4$
Formula weight	357.19
Crystal morphology / colour	plate / brown
Crystal dimensions (mm)	0.08 x 0.25 x 0.40
Crystal system	triclinic
Space group	$P\bar{1}$(#2)
a (Å)	6.410(2)
b (Å)	11.073(2)
c (Å)	5.972(1)
α (°)	104.55(2)
β (°)	100.46(2)
γ (°)	76.67(2)
V (Å^3)	395.7(1)
Z	1
$\rho_{calc.}$ (g cm^{-3})	1.499
F(000)	186
Temperature (°K)	293
μ (cm^{-1})	17.41
θ limits, cell (°)	10.0 – 12.0
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 8, -14 – 14, -7 – 7.
Range of transmission factors	0.961 – 1
Scan technique	ω:2θ
No. of data measured	1999
No. of unique data	1835
R_{amal}	0.023
No. of parameters	79
R (I≥0σ(I))	0.057
R_w (I≥0σ(I))	0.070
R (I≥3σ(I))	0.038
R_w (I≥3σ(I))	0.031
Maximum and minimum residual electron density (e Å^{-3})	0.61, -0.99

Table 3.IV.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2COCH_2CH_2CH_2CH_3)_2]$

Atom	*x*	*y*	*z*
Ni	0	0	0
S(1)	0.1041(2)	0.17750(10)	0.1949(2)
S(2)	0.2205(2)	0.01764(9)	-0.2305(2)
O(1)	0.3691(4)	0.2322(2)	-0.0286(4)
C(1)	0.2503(5)	0.1513(3)	-0.0267(6)
C(2)	0.4949(6)	0.2086(3)	-0.2230(6)
C(3)	0.5823(6)	0.3264(3)	-0.1952(6)
C(4)	0.7192(6)	0.3150(3)	-0.3816(6)
C(5)	0.8206(8)	0.4301(4)	-0.3455(9)

Table 3.IV.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2COCH_2CH_2CH_2CH_3)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0555(5)	0.0619(5)	0.0570(4)	-0.0100(4)	0.0029(3)	0.0162(3)
S(1)	0.0810(7)	0.0758(7)	0.0654(6)	-0.0231(6)	0.0184(5)	0.0037(5)
S(2)	0.0720(7)	0.0641(6)	0.0615(6)	-0.0181(5)	0.0119(5)	0.0076(5)
O(1)	0.076(2)	0.063(2)	0.067(2)	-0.021(1)	0.011(1)	0.014(1)
C(1)	0.057(2)	0.059(2)	0.063(2)	-0.005(2)	0.002(2)	0.019(2)
C(2)	0.075(3)	0.067(2)	0.065(2)	-0.017(2)	0.012(2)	0.017(2)
C(3)	0.077(3)	0.056(2)	0.084(3)	-0.012(2)	0.019(2)	0.011(2)
C(4)	0.090(3)	0.065(3)	0.087(3)	-0.017(2)	0.027(2)	0.013(2)
C(5)	0.156(5)	0.083(3)	0.154(4)	-0.051(3)	0.074(4)	0.001(3)

Table 3.IV.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in [Ni($S_2COCH_2CH_2CH_2CH_3)_2$]*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.6101	0.1375	-0.2160	6.4
H(2b)	0.4046	0.1930	-0.3679	6.4
H(3a)	0.6680	0.3415	-0.0473	6.8
H(3b)	0.4645	0.3960	-0.2030	6.8
H(4a)	0.8312	0.2419	-0.3807	7.5
H(4b)	0.6309	0.3056	-0.5286	7.5
H(5a)	0.9095	0.4405	-0.1990	11.7
H(5b)	0.9060	0.4184	-0.4665	11.7
H(5c)	0.7099	0.5038	-0.3484	11.7

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 3.IV.5: Bond distances (Å) for [Ni($S_2COCH_2CH_2CH_2CH_3)_2$]

Ni(1) — S(1)	2.1998(9)	O(1) — C(2)	1.468(4)
Ni(1) — S(2)	2.2136(9)	C(3) — C(4)	1.503(4)
S(1) — C(1)	1.687(3)	C(2) — C(3)	1.496(4)
S(2) — C(1)	1.688(3)	C(4) — C(5)	1.513(5)
O(1) — C(1)	1.307(3)		

Table 3.IV.6: Bond angles (deg.) for $[Ni(S_2COCH_2CH_2CH_2CH_3)_2]$

S(1) — Ni(1) — S(1)*	180(-)	C(1) — O(1) — C(2)	119.2(3)
S(1) — Ni(1) — S(2)	79.48(3)	C(2) — C(3) — C(4)	112.2(3)
S(1) — Ni(1) — S(2)*	100.52(3)	C(3) — C(4) — C(5)	112.5(3)
S(2) — Ni(1) — S(2)*	180(-)	S(1) — C(1) — S(2)	113.5(2)
Ni(1) — S(1) — C(1)	83.3(1)	S(1) — C(1) — O(1)	126.8(3)
Ni(1) — S(2) — C(1)	83.8(1)	S(2) — C(1) — O(1)	119.7(3)
O(1) — C(2) — C(3)	106.2(3)		

* atom related by a centre of symmetry

Table 3.IV.7: Observed and calculated structure factors for $[Ni(S_2COCH_2CH_2CH_2CH_3)_2]$

h	k	l	Fo	Fc	sigF
0	0	1	512	515	4
0	0	2	123	123	2
0	0	3	64	63	2
0	0	4	243	244	2
0	0	5	210	208	3
0	0	6	27	34	7
0	0	7	8	11	9
0	1	-7	0	10	10
0	1	-6	8	10	10
0	1	-5	95	90	3
0	1	-4	150	147	2
0	1	-3	11	19	7
0	1	-2	87	87	2
0	1	-1	323	318	3
0	1	1	571	601	4
0	1	2	81	80	2
0	1	3	122	124	2
0	1	4	283	283	3
0	1	5	152	152	2
0	1	6	28	22	6
0	1	7	0	7	8
0	2	-7	31	28	6
0	2	-6	0	14	10
0	2	-5	29	16	6
0	2	-4	49	50	4
0	2	-3	113	115	2
0	2	-2	57	61	2
0	2	-1	305	300	2
0	2	0	36	28	2
0	2	1	163	161	2
0	2	2	27	23	3
0	2	3	139	141	2
0	2	4	189	187	2
0	2	5	60	58	3
0	2	6	25	17	6
0	2	7	20	4	6
0	3	-7	24	22	8
0	3	-6	14	3	10
0	3	-5	46	48	5
0	3	-4	148	150	2
0	3	-3	212	212	2
0	3	-2	105	107	2
0	3	-1	45	41	2
0	3	0	174	170	2
0	3	1	136	134	2
0	3	2	70	78	2
0	3	3	75	73	2
0	3	4	64	62	3
0	3	5	23	23	6
0	3	6	16	7	8
0	4	-7	13	10	10
0	4	-6	22	17	10
0	4	-5	97	100	3
0	4	-4	293	289	3
0	4	-3	240	237	2
0	4	-2	14	12	7
0	4	-1	18	16	5
0	4	0	353	344	3
0	4	1	387	384	3
0	4	2	147	148	2
0	4	3	20	18	7
0	4	4	33	27	4
0	4	5	47	46	3
0	4	6	25	25	5
0	5	-7	0	4	10
0	5	-6	22	5	10
0	5	-5	103	101	3
0	5	-4	236	236	3
0	5	-3	125	125	2
0	5	-2	77	77	2
0	5	-1	113	111	2
0	5	0	455	446	4
0	5	1	384	378	3
0	5	2	0	6	8
0	5	3	44	47	4
0	5	4	78	83	3
0	5	5	86	89	3
0	5	6	26	28	5
0	6	-7	0	14	11
0	6	-6	19	23	11
0	6	-5	85	83	3
0	6	-4	133	129	2
0	6	-3	57	55	3
0	6	-2	72	75	3
0	6	-1	137	141	2
0	6	0	358	357	3
0	6	1	192	183	2
0	6	2	43	41	4
0	6	3	57	63	3
0	6	4	74	79	3
0	6	5	89	95	3
0	6	6	10	14	7
0	7	-7	46	33	5
0	7	-6	0	22	12
0	7	-5	42	40	5
0	7	-4	78	84	3
0	7	-3	102	110	3
0	7	-2	102	102	2
0	7	-1	65	61	3
0	7	0	177	175	2
0	7	1	94	96	3
0	7	2	0	14	10
0	7	3	29	32	6
0	7	4	52	57	4
0	7	5	36	40	4
0	8	-7	17	29	11
0	8	-6	43	17	5
0	8	-5	31	8	6
0	8	-4	73	81	4
0	8	-3	124	132	3
0	8	-2	136	143	3
0	8	-1	104	112	3
0	8	0	38	36	5
0	8	1	93	93	3
0	8	2	55	64	4
0	8	3	56	50	4
0	8	4	52	54	4
0	8	5	13	14	7
0	9	-6	24	5	10
0	9	-5	0	14	11
0	9	-4	67	78	4
0	9	-3	95	110	3
0	9	-2	23	5	9
0	9	-1	15	11	10
0	9	0	105	102	3
0	9	1	97	96	3
0	9	2	61	68	5
0	9	3	9	12	10
0	9	4	20	14	7
0	10	-6	21	17	10
0	10	-5	25	17	10
0	10	-4	66	77	5
0	10	-3	58	61	5
0	10	-2	43	33	5
0	10	-1	81	80	3
0	10	0	62	66	5
0	10	1	124	121	3
0	10	2	35	21	6
0	10	3	25	25	8
0	10	4	0	7	9
0	11	-5	15	11	11
0	11	-4	46	55	6
0	11	-3	33	41	8
0	11	-2	19	9	11
0	11	-1	15	5	11
0	11	0	31	37	8
0	11	1	54	60	5
0	11	2	18	3	10
0	11	3	16	27	10
0	12	-5	0	21	11
0	12	-4	22	30	11
0	12	-3	39	43	7
0	12	-2	15	25	12
0	12	-1	28	33	9
0	12	0	55	52	5
0	12	1	37	31	6
0	12	2	22	1	9
0	13	-4	26	23	9
0	13	-3	30	39	9
0	13	-2	33	36	8
0	13	-1	0	19	11
0	13	0	15	25	12
1	-13	0	15	25	12
1	-13	1	27	26	12
1	-13	2	46	10	6
1	-13	3	22	9	12
1	-12	-2	21	19	11
1	-12	-1	0	17	12
1	-12	0	43	50	9
1	-12	1	0	10	13
1	-12	2	34	19	9
1	-12	3	27	3	12
1	-12	4	30	27	10
1	-11	-3	0	4	10
1	-11	-2	19	3	11
1	-11	-1	42	33	7
1	-11	0	88	81	4
1	-11	1	10	37	13
1	-11	2	15	35	13
1	-11	3	0	3	12
1	-11	4	29	39	12
1	-11	5	36	31	8
1	-10	-3	38	27	6
1	-10	-2	32	27	8
1	-10	-1	57	54	5
1	-10	0	47	48	6
1	-10	1	60	59	5
1	-10	2	34	37	9
1	-10	3	20	35	13
1	-10	4	52	56	6
1	-10	5	25	28	12
1	-10	6	34	7	8
1	-9	-4	23	23	7
1	-9	-3	68	59	4
1	-9	-2	26	33	10
1	-9	-1	31	33	8
1	-9	0	73	67	4
1	-9	1	34	40	8
1	-9	2	69	72	4
1	-9	3	71	77	5
1	-9	4	57	62	6
1	-9	5	39	35	8
1	-9	6	39	9	7
1	-8	-5	15	20	8
1	-8	-4	61	67	4
1	-8	-3	35	42	7
1	-8	-2	0	12	10
1	-8	-1	8	14	10
1	-8	0	124	125	3
1	-8	1	150	154	3
1	-8	2	28	33	8
1	-8	3	20	26	11
1	-8	4	50	55	6
1	-8	5	58	54	6
1	-8	6	26	26	11
1	-7	-5	40	34	4
1	-7	-4	114	115	3
1	-7	-3	62	58	4
1	-7	-2	89	82	3
1	-7	-1	23	17	9
1	-7	0	225	218	3
1	-7	1	251	252	3
1	-7	2	56	48	4
1	-7	3	45	35	5
1	-7	4	67	65	4
1	-7	5	87	88	4
1	-7	6	37	40	8
1	-6	-5	39	39	4
1	-6	-4	66	71	3
1	-6	-3	47	51	4
1	-6	-2	24	13	7
1	-6	-1	108	95	2
1	-6	0	317	313	3
1	-6	1	236	235	3
1	-6	2	26	26	6
1	-6	3	0	5	10
1	-6	4	128	118	3
1	-6	5	132	129	3
1	-6	6	26	38	12
1	-6	7	21	2	10
1	-5	-6	0	10	8
1	-5	-5	18	16	8
1	-5	-4	26	29	6
1	-5	-3	33	22	5
1	-5	-2	57	52	3
1	-5	-1	141	141	2
1	-5	0	250	248	2
1	-5	1	134	134	2
1	-5	2	0	6	8
1	-5	3	55	56	3
1	-5	4	145	139	3
1	-5	5	119	115	3
1	-5	6	25	31	11
1	-5	7	0	2	11
1	-4	-6	0	2	8
1	-4	-5	23	23	7
1	-4	-4	59	54	3
1	-4	-3	128	130	2
1	-4	-2	93	88	2
1	-4	-1	14	14	8
1	-4	0	0	10	7
1	-4	1	120	122	2
1	-4	2	57	53	3
1	-4	3	76	71	3
1	-4	4	94	93	3
1	-4	5	39	42	6
1	-4	6	0	11	11
1	-4	7	0	7	11
1	-3	-6	0	11	8
1	-3	-5	13	4	8
1	-3	-4	166	163	2
1	-3	-3	289	291	3
1	-3	-2	107	109	2
1	-3	-1	14	18	7
1	-3	0	40	40	3
1	-3	1	228	227	2
1	-3	2	233	227	2
1	-3	3	31	35	5
1	-3	4	47	42	4
1	-3	5	50	47	5
1	-3	6	33	12	7
1	-3	7	14	9	10
1	-2	-7	18	11	7
1	-2	-6	20	19	7
1	-2	-5	76	74	3
1	-2	-4	272	270	3
1	-2	-3	334	340	3
1	-2	-2	34	43	3
1	-2	-1	82	82	2
1	-2	0	824	823	6
1	-2	1	728	734	5
1	-2	2	264	258	2
1	-2	3	0	8	8
1	-2	4	28	37	7
1	-2	5	152	138	3
1	-2	6	74	74	4
1	-2	7	0	7	10
1	-1	-7	11	9	8
1	-1	-6	29	15	5
1	-1	-5	71	64	3
1	-1	-4	258	256	3
1	-1	-3	191	193	2
1	-1	-2	7	7	7
1	-1	-1	61	64	2
1	-1	0	514	510	4
1	-1	1	1110	1138	8
1	-1	2	264	259	2
1	-1	3	64	57	3
1	-1	4	104	100	3
1	-1	5	185	178	3
1	-1	6	102	105	3
1	-1	7	7	11	9
1	0	-7	25	27	6
1	0	-6	31	35	5
1	0	-5	13	7	9
1	0	-4	43	38	3
1	0	-3	128	129	2
1	0	-2	34	33	3
1	0	-1	235	233	2
1	0	0	244	238	2
1	0	1	138	131	2
1	0	2	158	165	2
1	0	3	0	6	8
1	0	4	129	126	2
1	0	5	155	151	3
1	0	6	51	53	4
1	0	7	7	3	9
1	1	-7	54	50	4
1	1	-6	48	45	4
1	1	-5	0	11	9
1	1	-4	30	30	4
1	1	-3	101	102	2
1	1	-2	302	302	2
1	1	-1	46	43	2
1	1	0	211	210	2
1	1	1	25	21	4
1	1	2	83	80	2
1	1	3	72	76	2
1	1	4	107	101	2
1	1	5	84	81	3
1	1	6	23	12	8
1	1	7	16	7	8
1	2	-7	54	59	4
1	2	-6	0	8	9
1	2	-5	19	17	8
1	2	-4	194	191	2
1	2	-3	344	349	3
1	2	-2	257	257	2
1	2	-1	45	44	2
1	2	0	47	44	2
1	2	1	326	331	3
1	2	2	240	248	2
1	2	3	67	71	2
1	2	4	33	34	5
1	2	5	27	30	7
1	2	6	25	23	6
1	2	7	0	6	8
1	3	-7	36	41	6
1	3	-6	19	11	9
1	3	-5	18	22	9
1	3	-4	230	232	2
1	3	-3	519	521	4
1	3	-2	208	208	2
1	3	-1	173	173	2
1	3	0	125	126	2
1	3	1	541	541	4
1	3	2	374	377	3
1	3	3	51	48	3
1	3	4	16	10	9
1	3	5	49	48	4
1	3	6	47	49	4
1	4	-7	37	27	5
1	4	-6	14	3	9
1	4	-5	34	37	5
1	4	-4	179	182	2
1	4	-3	272	279	2
1	4	-2	24	22	4
1	4	-1	123	124	2
1	4	0	266	266	2
1	4	1	485	492	4
1	4	2	251	252	2
1	4	3	56	63	3
1	4	4	29	34	5
1	4	5	90	88	2
1	4	6	67	66	3
1	5	-7	15	36	6
1	5	-6	35	40	6
1	5	-5	56	55	4
1	5	-4	111	116	2
1	5	-3	150	150	2
1	5	-2	83	81	2
1	5	-1	97	91	2
1	5	0	233	226	2
1	5	1	311	318	3
1	5	2	85	84	2
1	5	3	46	43	3
1	5	4	7	9	8
1	5	5	66	69	3
1	5	6	50	50	3
1	6	-7	44	49	5
1	6	-6	68	72	3
1	6	-5	24	26	7
1	6	-4	49	48	4
1	6	-3	137	140	2
1	6	-2	256	256	2
1	6	-1	253	254	2
1	6	0	48	48	3
1	6	1	140	137	2
1	6	2	91	85	2
1	6	3	33	30	5
1	6	4	53	59	3
1	6	5	43	44	4
1	7	-7	42	40	5
1	7	-6	45	41	5
1	7	-5	19	5	9
1	7	-4	15	14	10
1	7	-3	185	184	2
1	7	-2	196	198	2
1	7	-1	150	153	2
1	7	0	109	112	2
1	7	1	56	58	3
1	7	2	131	128	2
1	7	3	77	78	3
1	7	4	34	37	5
1	7	5	29	33	5
1	8	-7	34	31	6
1	8	-6	12	9	10
1	8	-5	24	32	9
1	8	-4	48	44	5
1	8	-3	156	162	3
1	8	-2	134	140	3
1	8	-1	106	107	2
1	8	0	35	42	5
1	8	1	156	151	2
1	8	2	134	130	3
1	8	3	46	41	4
1	8	4	24	15	6
1	8	5	0	7	7
1	9	-7	0	29	10
1	9	-6	0	8	11
1	9	-5	23	27	11
1	9	-4	49	56	5
1	9	-3	131	138	3
1	9	-2	49	55	5
1	9	-1	71	66	3
1	9	0	84	81	3
1	9	1	110	99	3
1	9	2	129	118	3
1	9	3	28	8	7
1	9	4	27	34	5
1	10	-6	37	40	7
1	10	-5	32	34	8
1	10	-4	13	35	11
1	10	-3	81	88	4
1	10	-2	54	60	4
1	10	-1	25	7	8
1	10	0	47	46	5
1	10	1	73	68	4
1	10	2	49	47	5
1	10	3	0	11	10
1	10	4	13	18	8
1	11	-6	24	35	10
1	11	-5	35	41	8
1	11	-4	35	37	7
1	11	-3	33	45	8
1	11	-2	73	77	4
1	11	-1	46	58	6
1	11	0	47	54	5
1	11	1	65	63	4
1	11	2	13	32	10
1	11	3	17	6	10
1	12	-5	15	3	11
1	12	-4	0	8	11
1	12	-3	44	43	6
1	12	-2	70	69	4
1	12	-1	47	47	6
1	12	0	23	10	9
1	12	1	20	21	11
1	12	2	28	32	7
1	13	-4	0	9	11
1	13	-3	23	31	12
1	13	-2	37	42	7
1	13	-1	26	12	9
1	13	0	19	15	11
1	13	1	12	5	10
1	14	-3	0	28	11
1	14	-2	14	24	11
1	14	-1	32	13	6
2	-12	-1	0	10	11
2	-12	0	9	24	12
2	-12	1	31	39	11
2	-12	2	28	21	11
2	-12	3	0	4	13
2	-11	-2	26	29	10
2	-11	-1	12	21	12
2	-11	0	47	29	6
2	-11	1	31	24	11
2	-11	2	41	33	8
2	-11	3	0	30	13
2	-11	4	38	24	9
2	-10	-3	27	28	8
2	-10	-2	36	39	8
2	-10	-1	0	9	12
2	-10	0	0	21	12
2	-10	1	60	55	5
2	-10	2	41	35	8
2	-10	3	31	31	11
2	-10	4	31	32	11
2	-10	5	13	28	13
2	-9	-4	41	37	5
2	-9	-3	63	71	5
2	-9	-2	18	13	11
2	-9	-1	35	28	7
2	-9	0	30	14	8
2	-9	1	101	113	4
2	-9	2	88	94	5
2	-9	3	0	7	13
2	-9	4	25	9	12
2	-9	5	15	33	13
2	-8	-4	38	38	5
2	-8	-3	95	90	3
2	-8	-2	39	31	6
2	-8	-1	49	45	5
2	-8	0	57	55	5
2	-8	1	147	153	3
2	-8	2	118	123	4
2	-8	3	22	14	12
2	-8	4	7	3	13
2	-8	5	37	47	10
2	-8	6	45	41	7
2	-7	-5	20	13	6
2	-7	-4	22	29	7
2	-7	-3	38	31	6
2	-7	-2	30	32	7
2	-7	-1	23	23	9
2	-7	0	101	101	3
2	-7	1	158	164	3
2	-7	2	80	80	4
2	-7	3	21	11	11
2	-7	4	0	24	12
2	-7	5	49	63	5
2	-7	6	44	48	8
2	-6	-5	9	2	8
2	-6	-4	0	2	9
2	-6	-3	37	32	5
2	-6	-2	54	46	4
2	-6	-1	54	50	4
2	-6	0	45	49	4

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
2	-6	1	102	103	3	2	-2	1	319	318	3	2	2	-2	583	581	4	2	6	-3	44	52	4	2	10	3	34	31	5
2	-6	2	65	57	4	2	-2	2	398	388	3	2	2	-1	50	53	2	2	6	-2	310	313	3	2	11	-6	33	34	6
2	-6	3	0	13	11	2	-2	3	82	77	3	2	2	0	169	167	2	2	6	-1	150	150	2	2	11	-5	34	24	7
2	-6	4	46	41	6	2	-2	4	0	6	10	2	2	1	234	232	2	2	6	0	11	23	8	2	11	-4	28	31	9
2	-6	5	53	51	6	2	-2	5	72	78	4	2	2	2	427	435	3	2	6	1	72	68	3	2	11	-3	25	6	8
2	-6	6	28	33	11	2	-2	6	88	85	4	2	2	3	215	217	2	2	6	2	103	102	2	2	11	-2	75	78	4
2	-5	-6	26	26	4	2	-2	7	24	37	8	2	2	4	28	20	6	2	6	3	124	124	2	2	11	-1	94	93	3
2	-5	-5	21	19	6	2	-1	-7	21	20	6	2	2	5	0	3	9	2	6	4	40	46	4	2	11	0	17	27	10
2	-5	-4	0	11	9	2	-1	-6	52	59	3	2	2	6	49	48	4	2	6	5	0	11	8	2	11	1	16	15	10
2	-5	-3	119	120	2	2	-1	-5	59	59	3	2	3	-7	37	28	4	2	7	-7	39	41	5	2	11	2	0	17	10
2	-5	-2	169	170	2	2	-1	-4	38	42	4	2	3	-6	37	38	5	2	7	-6	53	48	4	2	11	3	33	35	6
2	-5	-1	83	79	3	2	-1	-3	27	27	4	2	3	-5	33	26	4	2	7	-5	48	49	4	2	12	-5	18	11	10
2	-5	0	37	33	4	2	-1	-2	150	155	2	2	3	-4	99	99	2	2	7	-4	48	47	4	2	12	-4	7	22	11
2	-5	1	28	15	6	2	-1	-1	57	62	2	2	3	-3	195	201	2	2	7	-3	124	124	2	2	12	-3	29	4	7
2	-5	2	111	118	3	2	-1	0	183	179	2	2	3	-2	198	195	2	2	7	-2	220	224	2	2	12	-2	61	59	4
2	-5	3	70	65	4	2	-1	1	113	114	2	2	3	-1	88	80	2	2	7	-1	95	98	2	2	12	-1	50	47	5
2	-5	4	44	32	6	2	-1	2	24	22	5	2	3	0	19	38	3	2	7	0	204	205	2	2	12	0	0	12	10
2	-5	5	14	33	12	2	-1	3	41	43	4	2	3	1	297	296	3	2	7	1	50	48	4	2	12	1	32	27	6
2	-5	6	0	14	12	2	-1	4	43	36	5	2	3	2	312	315	3	2	7	2	173	173	2	2	12	2	25	14	8
2	-4	-6	0	15	8	2	-1	5	74	76	4	2	3	3	88	88	2	2	7	3	103	108	2	2	13	-5	0	11	10
2	-4	-5	0	19	8	2	-1	6	59	56	4	2	3	4	42	51	4	2	7	4	13	2	8	2	13	-4	22	4	10
2	-4	-4	50	51	3	2	-1	7	13	13	9	2	3	5	21	3	8	2	7	5	18	24	6	2	13	-3	17	18	11
2	-4	-3	239	248	2	2	0	-7	54	50	3	2	3	6	55	59	4	2	8	-7	29	28	6	2	13	-2	47	52	5
2	-4	-2	279	273	3	2	0	-6	87	83	2	2	4	-7	23	19	7	2	8	-6	45	53	5	2	13	-1	28	28	8
2	-4	-1	24	29	6	2	0	-5	23	27	6	2	4	-6	83	82	3	2	8	-5	36	34	5	2	13	0	41	22	5
2	-4	0	82	81	2	2	0	-4	0	20	8	2	4	-5	94	94	2	2	8	-4	12	10	9	2	13	1	24	8	7
2	-4	1	219	220	2	2	0	-3	62	60	2	2	4	-4	82	78	2	2	8	-3	120	117	2	2	14	-3	19	13	10
2	-4	2	254	252	3	2	0	-2	222	226	2	2	4	-3	114	115	2	2	8	-2	174	176	2	2	14	-2	0	21	11
2	-4	3	121	123	3	2	0	-1	328	330	3	2	4	-2	198	195	2	2	8	-1	20	30	9	2	14	-1	17	31	10
2	-4	4	12	12	11	2	0	0	0	9	7	2	4	-1	241	236	2	2	8	0	49	46	4	3	-11	-1	0	15	12
2	-4	5	39	36	7	2	0	1	102	102	2	2	4	0	25	29	4	2	8	1	13	16	9	3	-11	0	0	1	12
2	-4	6	47	42	6	2	0	2	97	97	2	2	4	1	195	195	2	2	8	2	108	107	3	3	-11	1	0	20	13
2	-4	7	33	15	7	2	0	3	16	40	4	2	4	2	183	187	2	2	8	3	72	74	3	3	-11	2	23	39	14
2	-3	-6	0	3	8	2	0	4	57	57	4	2	4	3	31	38	5	2	8	4	20	23	7	3	-11	3	0	20	14
2	-3	-5	0	15	8	2	0	5	36	42	6	2	4	4	28	3	5	2	9	-7	12	15	10	3	-10	-2	33	49	9
2	-3	-4	132	129	2	2	0	6	29	30	7	2	4	5	26	26	6	2	9	-6	48	47	5	3	-10	-1	28	2	10
2	-3	-3	280	283	3	2	1	-7	64	67	3	2	4	6	37	39	4	2	9	-5	82	88	3	3	-10	0	12	15	13
2	-3	-2	230	235	2	2	1	-6	75	73	3	2	5	-7	23	30	7	2	9	-4	76	84	4	3	-10	1	20	25	13
2	-3	-1	36	33	3	2	1	-5	41	41	3	2	5	-6	99	102	3	2	9	-3	48	47	4	3	-10	2	45	67	10
2	-3	0	37	26	3	2	1	-4	24	13	5	2	5	-5	97	99	2	2	9	-2	102	110	3	3	-10	3	40	42	10
2	-3	1	546	549	4	2	1	-3	438	434	3	2	5	-4	0	10	8	2	9	-1	96	93	3	3	-10	4	0	3	14
2	-3	2	456	446	4	2	1	-2	518	519	4	2	5	-3	60	64	2	2	9	0	56	54	4	3	-9	-3	26	23	9
2	-3	3	103	109	3	2	1	-1	143	144	2	2	5	-2	222	225	2	2	9	1	91	91	3	3	-9	-2	43	48	7
2	-3	4	19	6	10	2	1	0	79	78	2	2	5	-1	386	381	3	2	9	2	75	71	3	3	-9	-1	36	17	8
2	-3	5	57	54	5	2	1	1	103	102	2	2	5	0	307	303	3	2	9	3	19	28	10	3	-9	0	21	6	12
2	-3	6	86	86	4	2	1	2	383	388	3	2	5	1	30	33	5	2	9	4	17	7	7	3	-9	1	20	45	13
2	-3	7	38	37	6	2	1	3	208	209	2	2	5	2	96	97	2	2	10	-6	46	44	5	3	-9	2	61	68	6
2	-2	-7	7	11	7	2	1	4	24	24	7	2	5	3	87	95	3	2	10	-5	54	53	4	3	-9	3	26	44	14
2	-2	-6	0	19	9	2	1	5	22	9	8	2	5	4	46	52	4	2	10	-4	44	42	5	3	-9	4	10	8	14
2	-2	-5	0	4	8	2	1	6	24	25	8	2	5	5	47	46	4	2	10	-3	45	41	5	3	-9	5	26	9	13
2	-2	-4	60	60	3	2	2	-7	59	57	3	2	5	6	27	24	4	2	10	-2	67	68	4	3	-8	-4	21	9	7
2	-2	-3	187	192	2	2	2	-6	26	35	7	2	6	-7	38	41	5	2	10	-1	119	119	3	3	-8	-3	18	11	11
2	-2	-2	75	77	2	2	2	-5	26	30	5	2	6	-6	73	63	3	2	10	0	81	79	3	3	-8	-2	15	10	11
2	-2	-1	0	7	7	2	2	-4	0	12	8	2	6	-5	0	17	9	2	10	1	50	46	4	3	-8	-1	31	27	9
2	-2	0	82	78	2	2	2	-3	329	326	3	2	6	-4	46	49	4	2	10	2	47	50	5	3	-8	0	37	25	7
3	-8	1	54	51	6	3	-3	-3	0	9	8	3	1	-3	68	72	2	3	5	-3	62	60	2	3	9	1	48	51	5
3	-8	2	57	60	6	3	-3	-2	98	99	2	3	1	-2	268	275	2	3	5	-2	131	130	2	3	9	2	7	16	10
3	-8	3	8	21	13	3	-3	-1	46	48	4	3	1	-1	305	311	3	3	5	-1	340	343	3	3	9	3	31	34	5
3	-8	4	0	9	14	3	-3	0	44	45	4	3	1	0	36	36	3	3	5	0	40	38	3	3	9	4	17	30	8
3	-8	5	0	16	13	3	-3	1	76	81	3	3	1	1	31	28	4	3	5	1	101	103	2	3	10	-6	36	29	5
3	-7	-4	0	11	9	3	-3	2	124	126	3	3	1	2	201	207	2	3	5	2	45	44	4	3	10	-5	47	57	5
3	-7	-3	0	6	10	3	-3	3	115	116	3	3	1	3	229	226	3	3	5	3	112	115	2	3	10	-4	23	11	9
3	-7	-2	45	53	6	3	-3	4	37	27	6	3	1	4	71	72	3	3	5	4	82	78	3	3	10	-3	73	72	3
3	-7	-1	54	57	5	3	-3	5	0	17	12	3	1	5	20	21	10	3	5	5	0	8	9	3	10	-2	10	4	9
3	-7	0	40	29	6	3	-3	6	41	39	7	3	1	6	18	11	9	3	6	-7	17	23	9	3	10	-1	114	111	3
3	-7	1	6	10	11	3	-2	-6	48	50	3	3	2	-7	0	2	8	3	6	-6	72	68	3	3	10	0	80	84	3
3	-7	2	37	44	8	3	-2	-5	80	83	2	3	2	-6	32	30	4	3	6	-5	59	62	3	3	10	1	0	13	10
3	-7	3	19	36	13	3	-2	-4	49	53	3	3	2	-5	79	79	2	3	6	-4	74	76	3	3	10	2	31	29	6
3	-7	4	0	13	13	3	-2	-3	49	56	3	3	2	-4	85	86	2	3	6	-3	3	7	8	3	10	3	27	21	6
3	-7	5	0	17	13	3	-2	-2	15	7	8	3	2	-3	139	138	2	3	6	-2	216	213	2	3	11	-6	37	28	5
3	-6	-5	21	14	6	3	-2	-1	188	185	2	3	2	-2	151	154	2	3	6	-1	200	206	2	3	11	-5	36	38	6
3	-6	-4	30	22	5	3	-2	0	104	109	2	3	2	-1	130	130	2	3	6	0	30	27	4	3	11	-4	14	8	10
3	-6	-3	27	29	7	3	-2	1	80	78	3	3	2	0	0	12	7	3	6	1	166	169	2	3	11	-3	25	18	8
3	-6	-2	154	151	3	3	-2	2	47	49	4	3	2	1	75	74	2	3	6	2	0	5	9	3	11	-2	30	32	7
3	-6	-1	135	131	3	3	-2	3	19	22	10	3	2	2	202	203	2	3	6	3	138	138	2	3	11	-1	86	82	3
3	-6	0	46	38	5	3	-2	4	8	31	11	3	2	3	138	144	2	3	6	4	54	55	3	3	11	0	33	31	6
3	-6	1	29	10	8	3	-2	5	36	27	7	3	2	4	29	24	6	3	6	5	16	16	8	3	11	1	39	29	5
3	-6	2	54	62	6	3	-2	6	30	30	8	3	2	5	0	13	10	3	7	-7	29	16	5	3	11	2	1	17	9
3	-6	3	87	88	4	3	-1	-7	18	20	5	3	2	6	21	16	8	3	7	-6	38	35	5	3	12	-5	38	36	5
3	-6	4	23	36	13	3	-1	-6	83	89	2	3	3	-7	11	7	8	3	7	-5	94	92	3	3	12	-4	21	24	10
3	-6	5	0	13	12	3	-1	-5	80	81	2	3	3	-6	52	48	3	3	7	-4	116	110	2	3	12	-3	0	19	10
3	-6	6	0	16	12	3	-1	-4	22	26	6	3	3	-5	145	145	2	3	7	-3	32	32	5	3	12	-2	36	35	6
3	-5	-5	0	2	8	3	-1	-3	66	65	2	3	3	-4	134	126	2	3	7	-2	142	143	2	3	12	-1	52	64	5
3	-5	-4	0	4	8	3	-1	-2	216	218	2	3	3	-3	49	50	3	3	7	-1	169	167	2	3	12	0	36	27	5
3	-5	-3	88	95	3	3	-1	-1	312	304	3	3	3	-2	104	102	2	3	7	0	37	42	4	3	12	1	25	17	7
3	-5	-2	224	217	3	3	-1	0	167	166	2	3	3	-1	254	251	2	3	7	1	29	26	6	3	12	2	21	5	7
3	-5	-1	153	152	3	3	-1	1	16	16	8	3	3	0	299	297	3	3	7	2	43	44	4	3	13	-4	25	35	9
3	-5	0	0	12	10	3	-1	2	101	101	2	3	3	1	122	120	2	3	7	3	75	77	3	3	13	-3	26	17	8
3	-5	1	91	89	3	3	-1	3	128	129	3	3	3	2	103	109	2	3	7	4	21	31	8	3	13	-2	0	10	10
3	-5	2	202	198	3	3	-1	4	64	57	4	3	3	3	98	98	3	3	7	5	19	14	6	3	13	-1	0	16	10
3	-5	3	131	147	4	3	-1	5	21	21	11	3	3	4	42	39	4	3	8	-7	8	4	9	3	13	0	24	35	7
3	-5	4	49	46	6	3	-1	6	0	14	11	3	3	5	27	24	7	3	8	-6	18	23	9	3	13	1	9	18	9
3	-5	5	0	8	13	3	0	-7	42	42	3	3	3	6	24	24	6	3	8	-5	83	81	3	3	14	-3	0	7	10
3	-5	6	11	28	12	3	0	-6	80	85	3	3	4	-7	11	3	6	3	8	-4	139	139	2	3	14	-2	0	6	10
3	-4	-6	25	16	4	3	0	-5	45	50	3	3	4	-6	79	72	3	3	8	-3	116	118	2	3	14	-1	25	12	6
3	-4	-5	0	7	8	3	0	-4	75	76	2	3	4	-5	144	141	2	3	8	-2	32	34	5	4	-10	-1	13	19	12
3	-4	-4	0	3	8	3	0	-3	32	29	4	3	4	-4	55	56	3	3	8	-1	122	119	2	4	-10	0	0	11	13
3	-4	-3	128	128	2	3	0	-2	495	494	4	3	4	-3	73	75	2	3	8	0	133	131	2	4	-10	1	0	6	15
3	-4	-2	190	183	2	3	0	-1	423	430	3	3	4	-2	117	121	2	3	8	1	93	89	3	4	-10	2	0	21	13
3	-4	-1	99	97	3	3	0	0	35	43	4	3	4	-1	294	294	3	3	8	2	86	84	3	4	-9	-2	0	6	12
3	-4	0	22	24	8	3	0	1	54	56	3	3	4	0	278	283	3	3	8	3	47	48	4	4	-9	-1	0	11	12
3	-4	1	70	71	3	3	0	2	149	151	2	3	4	1	136	139	2	3	8	4	0	20	8	4	-9	0	20	20	13
3	-4	2	270	273	3	3	0	3	262	261	3	3	4	2	13	25	9	3	9	-7	14	8	9	4	-9	1	16	13	13
3	-4	3	187	189	3	3	0	4	98	100	3	3	4	3	83	82	3	3	9	-6	10	21	10	4	-9	2	0	18	13
3	-4	4	30	32	10	3	0	5	0	3	10	3	4	4	79	78	3	3	9	-5	76	80	3	4	-9	3	23	20	13
3	-4	5	0	8	12	3	0	6	26	8	7	3	4	5	26	24	7	3	9	-4	46	42	4	4	-8	-3	15	10	10
3	-4	6	27	37	11	3	1	-7	23	24	5	3	5	-7	0	12	8	3	9	-3	11	7	9	4	-8	-2	32	23	8
3	-3	-6	8	17	7	3	1	-6	59	57	3	3	5	-6	88	80	2	3	9	-2	36	34	5	4	-8	-1	63	56	5
3	-3	-5	43	45	3	3	1	-5	30	21	4	3	5	-5	63	56	3	3	9	-1	105	104	3	4	-8	0	6	40	13
3	-3	-4	7	10	8	3	1	-4	14	5	8	3	5	-4	43	51	4	3	9	0	133	132	3	4	-8	1	47	12	7

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
4	-8	2	0	9	13	4	-3	4	34	26	9	4	2	-6	0	2	8	4	6	-3	194	194	2	4	11	-1	35	45	6
4	-8	3	27	28	14	4	-3	5	16	19	12	4	2	-5	96	95	2	4	6	-2	58	60	3	4	11	-2	33	33	6
4	-8	4	26	22	14	4	-2	-6	40	42	3	4	2	-4	164	166	2	4	6	-1	102	105	2	4	11	-1	34	31	6
4	-7	-4	19	3	7	4	-2	-5	96	96	2	4	2	-3	75	70	2	4	6	0	130	131	2	4	11	0	53	51	4
4	-7	-3	0	6	11	4	-2	-4	40	39	4	4	2	-2	8	9	8	4	6	1	79	77	3	4	11	1	23	27	8
4	-7	-2	34	50	9	4	-2	-3	50	55	3	4	2	-1	112	115	2	4	6	2	73	68	3	4	11	2	0	2	9
4	-7	-1	112	115	4	4	-2	-2	105	104	2	4	2	0	244	240	2	4	6	3	46	50	4	4	12	-5	20	1	8
4	-7	0	68	67	5	4	-2	-1	259	249	3	4	2	1	200	195	2	4	6	4	41	40	4	4	12	-4	46	45	5
4	-7	1	29	13	11	4	-2	0	218	211	3	4	2	2	64	69	4	4	7	-7	18	6	6	4	12	-3	47	48	5
4	-7	2	35	31	10	4	-2	1	42	42	5	4	2	3	44	44	5	4	7	-6	11	20	9	4	12	-2	0	11	10
4	-7	3	58	55	6	4	-2	2	20	8	11	4	2	4	52	55	5	4	7	-5	42	45	4	4	12	-1	0	2	9
4	-7	4	39	45	10	4	-2	3	93	88	3	4	2	5	37	32	6	4	7	-4	106	109	2	4	12	0	0	12	9
4	-7	5	23	15	13	4	-2	4	84	85	4	4	3	-7	23	23	5	4	7	-3	131	127	2	4	12	1	33	34	5
4	-6	-4	0	5	8	4	-2	5	28	28	9	4	3	-6	17	16	7	4	7	-2	79	80	3	4	13	-4	27	30	7
4	-6	-3	0	16	11	4	-2	6	25	5	9	4	3	-5	118	111	2	4	7	-1	26	21	6	4	13	-3	24	36	8
4	-6	-2	85	85	4	4	-1	-6	51	52	3	4	3	-4	117	115	2	4	7	0	120	119	2	4	13	-2	0	7	10
4	-6	-1	124	120	3	4	-1	-5	70	69	2	4	3	-3	36	31	3	4	7	1	128	123	2	4	13	-1	0	8	9
4	-6	0	55	59	6	4	-1	-4	13	20	8	4	3	-2	84	87	2	4	7	2	68	66	3	4	13	0	26	24	6
4	-6	1	30	4	9	4	-1	-3	54	52	3	4	3	-1	162	167	2	4	7	3	48	46	4	5	-9	0	25	39	11
4	-6	2	61	64	5	4	-1	-2	74	77	3	4	3	0	257	259	3	4	7	4	26	28	6	5	-9	1	0	20	13
4	-6	3	100	107	4	4	-1	-1	334	322	3	4	3	1	109	109	2	4	8	-7	0	11	8	5	-8	-2	0	8	11
4	-6	4	52	61	8	4	-1	0	215	201	3	4	3	2	26	12	6	4	8	-6	15	9	8	5	-8	-1	10	39	13
4	-6	5	11	16	13	4	-1	1	0	9	10	4	3	3	31	24	6	4	8	-5	46	50	4	5	-8	0	34	58	11
4	-5	-5	15	13	7	4	-1	2	0	6	10	4	3	4	63	61	4	4	8	-4	109	105	3	5	-8	1	0	27	14
4	-5	-4	6	6	8	4	-1	3	109	112	3	4	3	5	21	42	9	4	8	-3	0	11	9	5	-8	2	0	10	14
4	-5	-3	0	6	10	4	-1	4	116	120	3	4	4	-7	0	2	8	4	8	-2	63	69	3	5	-8	3	0	25	13
4	-5	-2	75	73	4	4	-1	5	0	31	12	4	4	-6	41	38	4	4	8	-1	40	41	4	5	-7	-3	22	2	10
4	-5	-1	92	83	4	4	-1	6	0	2	10	4	4	-5	104	102	2	4	8	0	125	125	3	5	-7	-2	27	17	9
4	-5	0	40	37	6	4	0	-6	0	14	8	4	4	-4	30	19	5	4	8	1	95	93	3	5	-7	-1	15	47	10
4	-5	1	26	7	10	4	0	-5	46	47	3	4	4	-3	82	86	2	4	8	2	8	3	9	5	-7	0	57	47	6
4	-5	2	47	47	7	4	0	-4	30	37	5	4	4	-2	27	5	4	4	8	3	16	4	9	5	-7	1	16	21	13
4	-5	3	88	103	5	4	0	-3	57	56	3	4	4	-1	176	179	2	4	8	4	30	25	4	5	-7	2	0	7	14
4	-5	4	61	63	6	4	0	-2	101	101	2	4	4	0	221	226	2	4	9	-6	19	9	8	5	-7	3	17	33	14
4	-5	5	0	13	13	4	0	-1	165	170	2	4	4	1	22	30	7	4	9	-5	59	59	4	5	-6	-4	13	17	8
4	-4	-5	29	33	4	4	0	0	122	115	2	4	4	2	96	97	3	4	9	-4	67	64	3	5	-6	-3	0	14	11
4	-4	-4	49	61	4	4	0	1	0	8	9	4	4	3	40	43	5	4	9	-3	14	11	9	5	-6	-2	4	3	12
4	-4	-3	11	4	9	4	0	2	51	46	4	4	4	4	80	80	3	4	9	-2	64	70	3	5	-6	-1	29	25	10
4	-4	-2	44	29	5	4	0	3	124	122	3	4	4	5	26	31	7	4	9	-1	39	34	4	5	-6	0	16	14	9
4	-4	-1	52	53	5	4	0	4	84	90	4	4	5	-7	27	22	5	4	9	0	112	115	3	5	-6	1	0	21	13
4	-4	0	61	60	4	4	0	5	24	19	9	4	5	-6	36	34	4	4	9	1	42	44	4	5	-6	2	29	13	12
4	-4	1	39	50	7	4	0	6	0	4	9	4	5	-5	85	77	2	4	9	2	30	32	6	5	-6	3	18	19	14
4	-4	2	45	39	6	4	1	-7	0	7	7	4	5	-4	95	91	2	4	9	3	12	18	9	5	-6	4	38	30	9
4	-4	3	21	34	12	4	1	-6	1	11	8	4	5	-3	30	31	5	4	10	-6	24	13	6	5	-5	-4	38	40	4
4	-4	4	22	34	13	4	1	-5	45	48	4	4	5	-2	58	62	3	4	10	-5	34	40	6	5	-5	-3	48	47	5
4	-4	5	0	15	13	4	1	-4	127	128	2	4	5	-1	206	208	2	4	10	-4	47	47	4	5	-5	-2	0	4	11
4	-3	-6	13	16	7	4	1	-3	109	110	2	4	5	0	134	136	2	4	10	-3	7	16	9	5	-5	-1	25	16	11
4	-3	-5	70	73	3	4	1	-2	97	98	2	4	5	1	0	10	9	4	10	-2	0	11	9	5	-5	0	27	41	11
4	-3	-4	66	67	3	4	1	-1	102	105	2	4	5	2	63	61	3	4	10	-1	67	65	3	5	-5	1	50	46	7
4	-3	-3	23	27	7	4	1	0	130	130	2	4	5	3	29	33	6	4	10	0	82	79	3	5	-5	2	36	27	9
4	-3	-2	0	15	10	4	1	1	88	90	3	4	5	4	74	74	3	4	10	1	21	12	8	5	-5	3	7	14	13
4	-3	-1	75	73	3	4	1	2	72	81	4	4	5	5	19	18	7	4	10	2	31	23	6	5	-5	4	0	11	13
4	-3	0	158	150	3	4	1	3	98	101	3	4	6	-7	17	19	7	4	10	3	0	3	8	5	-4	-5	21	31	6
4	-3	1	67	65	4	4	1	4	48	59	5	4	6	-6	10	9	8	4	11	-6	20	6	7	5	-4	-4	60	65	3
4	-3	2	31	33	8	4	1	5	20	16	10	4	6	-5	43	36	4	4	11	-5	0	14	9	5	-4	-3	39	28	5
4	-3	3	41	34	7	4	2	-7	20	14	5	4	6	-4	146	141	2	4	11	-4	48	42	4	5	-4	-2	12	10	11
5	-4	-1	28	31	10	5	1	-3	113	119	2	5	6	-5	30	24	4	5	12	-4	33	29	5	6	-1	1	42	55	7
5	-4	0	77	84	4	5	1	-2	29	13	5	5	6	-4	81	79	2	5	12	-3	27	39	7	6	-1	2	56	62	6
5	-4	1	75	79	5	5	1	-1	25	22	6	5	6	-3	102	103	2	5	12	-2	14	26	9	6	-1	3	29	32	10
5	-4	2	16	19	13	5	1	0	117	114	3	5	6	-2	45	45	4	5	12	-1	21	14	7	6	-1	4	0	14	12
5	-4	3	0	17	12	5	1	1	156	154	3	5	6	-1	0	11	8	5	12	0	20	3	7	6	0	-5	17	19	6
5	-4	4	34	26	9	5	1	2	75	82	4	5	6	0	23	31	8	5	13	-3	19	37	8	6	0	-4	39	39	4
5	-3	-5	49	47	3	5	1	3	7	18	11	5	6	1	103	102	3	5	13	-2	14	2	9	6	0	-3	87	87	3
5	-3	-4	62	67	3	5	1	4	0	21	11	5	6	2	71	72	3	5	13	-1	0	4	8	6	0	-2	52	48	4
5	-3	-3	17	4	9	5	1	5	22	30	10	5	6	3	16	23	9	6	-7	-1	0	4	12	6	0	-1	31	34	7
5	-3	-2	47	35	5	5	2	-6	28	17	4	5	6	4	13	18	8	6	-7	0	0	7	12	6	0	0	0	3	11
5	-3	-1	95	98	4	5	2	-5	42	43	3	5	7	-6	25	19	5	6	-7	1	13	16	13	6	0	1	74	78	4
5	-3	0	163	163	3	5	2	-4	106	104	2	5	7	-5	26	12	5	6	-6	-2	0	22	11	6	0	2	69	65	4
5	-3	1	83	89	4	5	2	-3	47	45	3	5	7	-4	84	80	3	6	-6	-1	0	2	12	6	0	3	17	20	12
5	-3	2	37	3	7	5	2	-2	63	60	3	5	7	-3	100	92	2	6	-6	0	0	5	13	6	0	4	19	4	11
5	-3	3	23	8	12	5	2	-1	10	26	9	5	7	-2	57	55	3	6	-6	1	0	27	13	6	1	-5	18	4	6
5	-3	4	38	52	9	5	2	0	148	145	3	5	7	-1	72	74	3	6	-6	2	22	21	13	6	1	-4	48	52	3
5	-3	5	35	37	8	5	2	1	144	138	3	5	7	0	62	61	3	6	-5	-3	38	37	6	6	1	-3	68	65	3
5	-2	-5	36	40	4	5	2	2	25	9	8	5	7	1	109	104	3	6	-5	-2	0	5	12	6	1	-2	14	5	9
5	-2	-4	41	43	4	5	2	3	23	14	9	5	7	2	33	39	6	6	-5	-1	0	8	12	6	1	-1	30	28	7
5	-2	-3	18	20	8	5	2	4	23	24	10	5	7	3	24	19	7	6	-5	0	12	38	13	6	1	0	0	23	11
5	-2	-2	0	4	10	5	2	5	36	35	5	5	8	-6	19	3	6	6	-5	1	49	51	7	6	1	1	90	88	4
5	-2	-1	70	74	4	5	3	-6	26	17	4	5	8	-5	34	27	4	6	-5	2	39	29	8	6	1	2	52	49	5
5	-2	0	161	156	3	5	3	-5	53	53	3	5	8	-4	77	74	3	6	-5	3	0	5	13	6	1	3	31	12	8
5	-2	1	76	75	4	5	3	-4	97	94	2	5	8	-3	55	54	3	6	-4	-4	29	34	4	6	1	4	13	4	11
5	-2	2	0	3	12	5	3	-3	0	5	8	5	8	-2	0	9	9	6	-4	-3	39	35	6	6	2	-6	26	25	4
5	-2	3	7	21	12	5	3	-2	46	44	3	5	8	-1	16	25	9	6	-4	-2	20	2	11	6	2	-5	27	27	4
5	-2	4	55	56	5	5	3	-1	59	59	3	5	8	0	63	61	3	6	-4	-1	22	5	12	6	2	-4	42	44	4
5	-2	5	32	42	9	5	3	0	150	148	2	5	8	1	85	81	3	6	-4	0	54	61	6	6	2	-3	68	72	3
5	-1	-6	0	2	7	5	3	1	111	105	3	5	8	2	12	11	9	6	-4	1	76	75	5	6	2	-2	30	26	5
5	-1	-5	0	2	8	5	3	2	30	32	7	5	8	3	0	22	9	6	-4	2	23	31	13	6	2	-1	26	12	6
5	-1	-4	39	46	4	5	3	3	38	38	6	5	9	-6	0	27	8	6	-4	3	0	3	13	6	2	0	71	64	3
5	-1	-3	63	64	3	5	3	4	36	33	6	5	9	-5	16	14	8	6	-3	-4	23	21	6	6	2	1	86	84	4
5	-1	-2	71	74	3	5	4	-6	31	31	4	5	9	-4	47	35	3	6	-3	-3	32	30	6	6	2	2	45	46	6
5	-1	-1	71	68	4	5	4	-5	30	25	4	5	9	-3	54	50	3	6	-3	-2	35	30	7	6	2	3	0	6	11
5	-1	0	84	82	4	5	4	-4	73	72	3	5	9	-2	40	37	4	6	-3	-1	30	20	9	6	2	4	0	8	10
5	-1	1	69	64	4	5	4	-3	129	129	2	5	9	-1	43	36	4	6	-3	0	43	40	7	6	3	-6	32	37	4
5	-1	2	25	27	10	5	4	-2	57	53	3	5	9	0	59	58	3	6	-3	1	62	62	6	6	3	-5	27	20	4
5	-1	3	44	45	6	5	4	-1	85	82	2	5	9	1	52	52	4	6	-3	2	42	32	8	6	3	-4	0	7	8
5	-1	4	54	53	6	5	4	0	126	131	2	5	9	2	0	7	9	6	-3	3	19	12	12	6	3	-3	65	66	3
5	-1	5	15	31	11	5	4	1	83	83	3	5	9	3	4	6	8	6	-2	-5	15	5	6	6	3	-2	128	129	2
5	0	-6	17	5	6	5	4	2	27	29	7	5	10	-5	0	5	8	6	-2	-4	3	2	8	6	3	-1	69	73	3
5	0	-5	29	4	4	5	4	3	10	6	10	5	10	-4	21	13	7	6	-2	-3	43	47	4	6	3	0	49	49	5
5	0	-4	69	75	3	5	4	4	16	30	10	5	10	-3	63	56	3	6	-2	-2	58	59	5	6	3	1	69	64	4
5	0	-3	121	124	2	5	5	-6	13	6	8	5	10	-2	55	56	4	6	-2	-1	34	47	8	6	3	2	53	52	5
5	0	-2	62	63	3	5	5	-5	0	6	8	5	10	-1	31	26	5	6	-2	0	2	31	12	6	3	3	25	32	10
5	0	-1	48	40	4	5	5	-4	48	46	3	5	10	0	23	13	7	6	-2	1	42	40	8	6	3	4	12	16	10
5	0	0	77	77	3	5	5	-3	159	157	2	5	10	1	28	31	6	6	-2	2	37	41	9	6	4	-6	30	32	4
5	0	1	115	109	3	5	5	-2	171	177	2	5	10	2	25	27	6	6	-2	3	0	24	13	6	4	-5	27	18	4
5	0	2	69	73	4	5	5	-1	42	43	4	5	11	-5	7	14	8	6	-2	4	0	22	12	6	4	-4	4	5	8
5	0	3	41	40	6	5	5	0	57	58	3	5	11	-4	2	8	9	6	-1	-5	8	10	7	6	4	-3	59	60	8
5	0	4	35	40	8	5	5	1	97	96	3	5	11	-3	63	64	8	6	-1	-4	12	14	8	6	4	-2	113	118	2
5	0	5	17	26	11	5	5	2	80	75	3	5	11	-2	46	42	4	6	-1	-3	67	76	3	6	4	-1	86	87	3
5	1	-6	32	26	3	5	5	3	52	52	4	5	11	-1	12	8	9	6	-1	-2	57	70	4	6	4	0	18	10	9
5	1	-5	11	22	8	5	5	4	37	29	5	5	11	0	25	6	8	6	-1	-1	22	11	10	6	4	1	45	36	5
5	1	-4	114	117	2	5	6	-6	17	13	7	5	11	1	14	17	9	6	-1	0	29	18	9	6	4	2	69	62	4

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
6	4	3	35	43	6	6	11	-3	37	45	4	7	3	-1	52	57	4	8	2	-3	4	11	8						
6	5	-6	17	3	6	6	11	-2	35	35	4	7	3	0	31	23	7	8	2	-2	0	16	9						
6	5	-5	0	22	8	6	11	-1	4	9	8	7	3	1	20	4	11	8	2	-1	30	33	7						
6	5	-4	0	3	8	6	11	0	15	9	8	7	3	2	8	26	11	8	2	0	0	17	10						
6	5	-3	92	92	2	6	12	-3	35	32	4	7	4	-5	17	8	5	8	3	-3	9	3	7						
6	5	-2	65	63	3	6	12	-2	29	31	5	7	4	-4	19	11	6	8	3	-2	21	25	7						
6	5	-1	0	19	9	7	-4	-2	18	22	11	7	4	-3	21	23	6	8	3	-1	30	37	6						
6	5	0	23	13	7	7	-4	-1	31	25	9	7	4	-2	64	69	3	8	3	0	0	6	10						
6	5	1	45	41	5	7	-4	0	0	16	12	7	4	-1	0	22	9	8	4	-3	7	12	7						
6	5	2	70	66	4	7	-4	1	39	16	7	7	4	0	36	27	5	8	4	-2	16	22	8						
6	5	3	25	26	8	7	-3	-3	18	7	9	7	4	1	21	3	10	8	4	-1	7	28	9						
6	6	-6	12	7	7	7	-3	-2	44	34	6	7	4	2	42	32	5	8	4	0	21	18	9						
6	6	-5	0	11	8	7	-3	-1	26	30	11	7	5	-5	10	2	7	8	5	-3	8	11	7						
6	6	-4	40	38	3	7	-3	0	0	18	12	7	5	-4	16	6	7	8	5	-2	21	6	5						
6	6	-3	78	81	3	7	-3	1	6	14	12	7	5	-3	37	39	4	8	5	-1	13	20	9						
6	6	-2	57	54	3	7	-3	2	22	21	12	7	5	-2	57	54	3	8	5	0	18	27	9						
6	6	-1	48	49	4	7	-2	-3	12	23	9	7	5	-1	23	28	7	8	6	-3	13	2	7						
6	6	0	0	30	9	7	-2	-2	43	48	6	7	5	0	7	18	9	8	6	-2	15	4	7						
6	6	1	56	58	4	7	-2	-1	27	23	10	7	5	1	0	3	10	8	6	-1	27	24	5						
6	6	2	56	57	4	7	-2	0	10	6	12	7	5	2	33	34	6	8	7	-2	4	3	7						
6	6	3	20	9	8	7	-2	1	31	13	9	7	6	-5	36	39	3												
6	7	-6	24	28	4	7	-2	2	33	30	9	7	6	-4	21	19	6												
6	7	-5	8	13	8	7	-1	-4	0	3	8	7	6	-3	18	18	7												
6	7	-4	35	31	4	7	-1	-3	30	35	5	7	6	-2	31	33	4												
6	7	-3	58	58	3	7	-1	-2	46	44	5	7	6	-1	32	36	5												
6	7	-2	41	42	4	7	-1	-1	11	11	11	7	6	0	20	26	8												
6	7	-1	15	15	9	7	-1	0	26	16	11	7	6	1	3	18	10												
6	7	0	0	13	9	7	-1	1	27	12	10	7	6	2	20	25	9												
6	7	1	52	50	4	7	-1	2	39	37	7	7	7	-5	37	35	3												
6	7	2	36	40	6	7	0	-4	13	15	8	7	7	-4	0	16	8												
6	7	3	6	2	8	7	0	-3	31	38	5	7	7	-3	0	7	8												
6	8	-5	33	31	4	7	0	-2	38	36	5	7	7	-2	22	23	6												
6	8	-4	0	3	8	7	0	-1	37	6	6	7	7	-1	48	46	4												
6	8	-3	29	24	5	7	0	0	15	4	11	7	7	0	23	33	7												
6	8	-2	48	52	4	7	0	1	34	28	8	7	7	1	18	14	8												
6	8	-1	52	48	3	7	0	2	41	39	7	7	8	-4	6	8	7												
6	8	0	35	33	5	7	1	-4	15	20	7	7	8	-3	11	12	8												
6	8	1	25	30	6	7	1	-3	31	24	4	7	8	-2	34	33	4												
6	8	2	20	28	8	7	1	-2	51	53	4	7	8	-1	52	54	3												
6	9	-5	0	6	8	7	1	-1	47	41	5	7	8	0	24	18	6												
6	9	-4	0	17	8	7	1	0	32	26	8	7	8	1	11	5	8												
6	9	-3	18	21	8	7	1	1	37	36	7	7	9	-4	0	5	7												
6	9	-2	68	64	3	7	1	2	23	38	12	7	9	-3	0	7	8												
6	9	-1	51	42	3	7	2	-5	20	25	5	7	9	-2	39	38	4												
6	9	0	0	6	9	7	2	-4	0	2	8	7	9	-1	39	44	4												
6	9	1	16	3	8	7	2	-3	0	3	8	7	9	0	9	8	8												
6	9	2	21	21	6	7	2	-2	52	55	3	7	10	-3	15	21	7												
6	10	-5	8	4	7	7	2	-1	78	86	4	7	10	-2	37	40	4												
6	10	-4	23	10	5	7	2	0	40	42	6	7	10	-1	0	22	8												
6	10	-3	33	27	4	7	2	1	0	19	12	8	0	-2	0	13	9												
6	10	-2	72	65	3	7	2	2	26	30	10	8	0	-1	27	34	9												
6	10	-1	24	24	6	7	3	-5	13	12	7	8	0	0	17	30	11												
6	10	0	21	16	7	7	3	-4	21	24	6	8	1	-2	10	7	9												
6	10	1	0	3	9	7	3	-3	13	7	8	8	1	-1	34	35	7												
6	11	-4	6	15	8	7	3	-2	52	55	4	8	1	0	37	39	6												

APPENDIX 3.V

$[Ni(S_2COiBu)_2]$

Table 3.V.1: Crystallographic Parameters for $[Ni(S_2COCH_2CH(CH_3)_2)_2]$

Formula	$C_{10}H_{18}NiO_2S_4$
Formula weight	357.19
Crystal morphology / colour	block / brown
Crystal dimensions (mm)	0.08 x 0.10 x 0.35
Crystal system	triclinic
Space group	$P\bar{1}$ (#2)
a (Å)	8.224(7)
b (Å)	8.722(3)
c (Å)	6.139(4)
α (°)	98.99(4)
β (°)	105.36(5)
γ (°)	109.10(4)
V (Å^3)	386.7(5)
Z	1
$\rho_{calc.}$ (g cm^{-3})	1.534
$F(000)$	186
Temperature (°K)	293
μ (cm^{-1})	17.82
θ limits, cell (°)	20.5 – 24.2
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 10, -11 – 9, -7 – 6
Range of transmission factors	0.937 – 1
Scan technique	ω:2θ
No. of data measured	1898
No. of unique data	1775
R_{amal}	0.048
No. of parameters	79
R (I≥0σ(I))	0.075
R_w (I≥0σ(I))	0.095
R (I≥3σ(I))	0.040
R_w (I≥3σ(I))	0.044
Maximum and minimum residual electron density (e Å^{-3})	0.55, -1.05

Table 3.V.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2COCH_2CH(CH_3)_2)_2]$

Atom	*x*	*y*	*z*
Ni	0	0	0
S(1)	-0.0932(1)	-0.2596(1)	0.0336(2)
S(2)	0.1913(1)	0.0364(1)	0.3521(2)
O(1)	0.1077(3)	-0.2686(3)	0.4332(4)
C(1)	0.0758(4)	-0.1739(4)	0.2962(6)
C(2)	0.2545(5)	-0.1934(4)	0.6599(6)
C(3)	0.2738(4)	-0.3341(4)	0.7646(6)
C(4)	0.4092(5)	-0.2600(5)	1.0124(7)
C(5)	0.3317(6)	-0.4471(5)	0.6161(7)

Table 3.V.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2COCH_2CH(CH_3)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0443(4)	0.0432(3)	0.0472(4)	0.0171(3)	0.0172(3)	0.0128(3)
S(1)	0.0540(5)	0.0446(4)	0.0539(6)	0.0102(4)	0.0071(4)	0.0122(4)
S(2)	0.0526(5)	0.0406(4)	0.0521(5)	0.0128(4)	0.0129(4)	0.0108(4)
O(1)	0.052(1)	0.040(1)	0.052(1)	0.012(1)	0.006(1)	0.013(1)
C(1)	0.043(2)	0.042(2)	0.051(2)	0.017(1)	0.017(2)	0.013(1)
C(2)	0.049(2)	0.042(2)	0.048(2)	0.015(1)	0.011(2)	0.007(1)
C(3)	0.041(2)	0.044(2)	0.048(2)	0.015(1)	0.015(1)	0.011(1)
C(4)	0.065(2)	0.065(2)	0.054(2)	0.030(2)	0.017(2)	0.012(2)
C(5)	0.079(3)	0.061(2)	0.066(3)	0.038(2)	0.026(2)	0.011(2)

Table 3.V.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Ni(S_2COCH_2CH(CH_3)_2)_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.3681	-0.1303	0.6389	4.6573
H(2b)	0.2243	-0.1187	0.7622	4.6573
H(3a)	0.1559	-0.4011	0.7713	4.2352
H(4a)	0.4212	-0.3484	1.0797	5.7990
H(4b)	0.5247	-0.1912	1.0094	5.7990
H(4c)	0.3665	-0.1940	1.1034	5.7990
H(5a)	0.3421	-0.5350	0.6854	6.2270
H(5b)	0.2429	-0.4940	0.4633	6.2270
H(5c)	0.4465	-0.3832	0.6063	6.2270

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 3.V.5: Bond distances (Å) for $[Ni(S_2COCH_2CH(CH_3)_2)_2]$

Ni — S(1)	2.2021(9)	O(1) — C(2)	1.460(4)
Ni — S(2)	2.215(1)	C(2) — C(3)	1.505(4)
S(1) — C(1)	1.687(3)	C(3) — C(4)	1.515(5)
S(2) — C(1)	1.695(3)	C(3) — C(5)	1.511(5)
O(1) — C(1)	1.305(4)		

Table 3.V.6: Bond angles (deg.) for $[Ni(S_2COCH_2CH(CH_3)_2)_2]$

S(1) — Ni — S(1)*	180(-)	S(1) — C(1) — S(2)	113.6(2)
S(1) — Ni — S(2)	79.69(3)	S(1) — C(1) — O(1)	120.1(2)
S(1) — Ni — S(2)*	100.31(3)	S(2) — C(1) — O(1)	126.4(2)
S(2) — Ni — S(2)*	180(-)	O(1) — C(2) — C(3)	107.7(2)
Ni — S(1) — C(1)	83.7(1)	C(2) — C(3) — C(4)	109.1(3)
Ni — S(2) — C(1)	83.1(1)	C(2) — C(3) — C(5)	111.2(3)
C(1) — O(1) — C(2)	119.7(2)	C(4) — C(3) — C(5)	111.3(3)

* atom related by a centre of symmetry

Table 3.V.7: Observed and calculated structure factors for $[Ni(S_2COCH_2CH(CH_3)_2)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	1	178	188	77	0	4	-1	336	333	99	0	9	-3	27	22	23	1	-6	1	-5	10	30	1	-2	0	176	171	79
0	0	2	309	331	99	0	4	1	113	113	58	0	9	-2	34	32	24	1	-6	2	51	53	20	1	-2	1	41	39	11
0	0	3	509	528	99	0	4	3	268	259	99	0	9	-1	66	64	28	1	-6	3	156	154	98	1	-2	2	74	73	25
0	0	4	110	109	54	0	4	4	43	38	31	0	9	0	22	15	19	1	-6	4	59	58	24	1	-2	3	161	161	86
0	0	5	133	136	76	0	4	5	100	95	58	0	-4	0	494	493	99	1	-6	5	20	41	45	1	-2	4	93	93	43
0	0	6	91	90	48	0	4	6	55	44	41	0	-4	-2	309	315	99	1	-6	6	59	58	26	1	-2	5	118	115	63
0	0	7	20	11	67	0	5	-7	14	8	41	0	9	1	-22	17	63	1	-6	7	3	3	26	1	-2	6	-9	19	57
0	1	-7	32	30	36	0	5	-6	58	56	27	0	9	2	42	38	35	1	-5	-5	63	60	42	1	-2	7	-20	21	64
0	1	-6	84	87	46	0	5	-5	102	106	48	0	10	-4	41	41	28	1	-5	-4	56	53	36	1	-1	-7	24	32	93
0	1	-5	64	62	30	0	5	-4	43	44	19	0	10	-3	19	10	24	1	-5	-3	218	221	99	1	-1	-6	128	120	89
0	1	-4	15	19	40	0	5	-3	138	139	78	0	10	-2	27	21	23	1	-5	-2	61	60	26	1	-1	-5	84	85	42
0	1	-3	127	148	69	0	5	-2	120	117	65	0	10	-1	57	64	30	1	-5	-1	145	146	82	1	-1	-4	157	156	99
0	1	-2	19	17	10	0	5	-1	123	121	63	0	10	0	-7	29	49	1	-5	0	318	302	99	1	-1	-3	363	380	99
0	1	-1	183	190	81	0	5	0	151	155	80	1	-11	2	-12	4	46	1	-5	1	144	137	75	1	-1	-2	30	25	12
0	1	1	95	96	35	0	5	1	-7	9	21	1	-10	-1	-23	44	63	1	-5	2	53	50	18	1	-1	-1	811	781	99
0	1	2	212	221	99	0	5	2	148	146	99	1	-10	0	22	27	25	1	-5	3	177	179	99	1	-1	1	85	85	29
0	1	3	414	418	99	0	5	3	131	127	78	1	-10	1	15	26	52	1	-5	4	43	44	19	1	-1	2	449	492	99
0	1	4	70	66	30	0	5	4	-16	5	63	1	-10	2	50	45	29	1	-5	5	23	19	16	1	-1	3	127	133	72
0	1	5	142	142	86	0	5	5	90	84	54	1	-10	3	53	53	30	1	-5	6	42	44	22	1	-1	4	-20	6	45
0	1	6	95	91	51	0	6	-7	29	31	22	1	-10	4	-18	14	48	1	-5	7	21	19	21	1	-1	5	68	59	34
0	1	7	40	34	37	0	6	-6	66	69	29	1	-9	-2	59	66	39	1	-4	-6	65	59	49	1	-1	6	-24	21	77
0	2	-7	-3	6	71	0	6	-5	29	28	18	1	-9	-1	21	8	43	1	-4	-5	59	55	40	1	-1	7	-30	7	65
0	2	-6	85	85	44	0	6	-4	80	80	32	1	-9	0	66	62	30	1	-4	-4	35	41	28	1	0	-7	44	34	40
0	2	-5	-23	6	53	0	6	-3	114	119	69	1	-9	1	94	95	46	1	-4	-3	278	273	99	1	0	-6	39	41	37
0	2	-4	48	40	21	0	6	-2	173	174	99	1	-9	2	38	37	24	1	-4	-2	161	159	95	1	0	-5	15	9	48
0	2	-3	209	209	99	0	6	-1	116	111	64	1	-9	3	62	62	30	1	-4	-1	117	115	56	1	0	-4	135	138	89
0	2	-2	161	160	75	0	6	0	37	38	16	1	-9	4	2	4	41	1	-4	0	564	554	99	1	0	-3	316	332	99
0	2	-1	165	166	72	0	6	1	84	86	36	1	-9	5	17	13	20	1	-4	1	56	62	16	1	0	-2	113	113	47
0	2	0	80	85	27	0	6	2	21	19	22	1	-8	-3	76	79	46	1	-4	2	311	298	99	1	0	-1	221	213	99
0	2	1	113	114	47	0	6	3	-32	10	59	1	-8	-2	58	61	34	1	-4	3	328	327	99	1	0	1	210	231	99
0	2	2	-13	10	26	0	6	4	-8	18	63	1	-8	-1	63	66	30	1	-4	4	87	84	39	1	0	2	382	414	99
0	2	3	26	26	19	0	6	5	28	17	35	1	-8	0	185	181	99	1	-4	5	91	91	45	1	0	3	176	185	99
0	2	4	87	91	38	0	7	-6	93	94	43	1	-8	1	85	84	35	1	-4	6	91	93	42	1	0	4	124	125	71
0	2	5	65	61	36	0	7	-5	62	64	26	1	-8	2	106	99	53	1	-4	7	-14	12	51	1	0	5	143	135	93
0	2	6	18	31	42	0	7	-4	127	124	64	1	-8	3	135	131	92	1	-3	-6	60	53	42	1	0	6	67	66	46
0	3	-7	13	39	67	0	7	-3	187	185	99	1	-8	4	62	66	28	1	-3	-5	43	39	31	1	0	7	-29	25	77
0	3	-6	118	121	63	0	7	-2	70	68	27	1	-8	5	42	43	24	1	-3	-4	-9	4	50	1	1	-7	24	6	63
0	3	-5	162	166	99	0	7	-1	205	204	99	1	-8	6	55	58	26	1	-3	-3	172	179	99	1	1	-6	74	71	40
0	3	-4	169	161	99	0	7	0	114	124	54	1	-7	-4	11	12	63	1	-3	-2	13	14	25	1	1	-5	60	57	30
0	3	-3	372	372	99	0	7	1	-14	13	44	1	-7	-3	9	16	58	1	-3	-1	-8	16	20	1	1	-4	89	93	37
0	3	-2	91	95	40	0	7	2	149	144	99	1	-7	-2	61	58	29	1	-3	0	370	359	99	1	1	-3	151	155	82
0	3	-1	444	445	99	0	7	3	-29	3	68	1	-7	-1	-35	12	43	1	-3	1	33	29	10	1	1	-2	142	137	62
0	3	0	328	324	99	0	7	4	11	6	50	1	-7	0	133	137	84	1	-3	2	391	376	99	1	1	-1	81	76	25
0	3	1	6	16	21	0	8	-6	34	34	22	1	-7	1	32	27	18	1	-3	3	202	192	99	1	1	0	598	621	99
0	3	2	238	244	99	0	8	-5	-1	3	27	1	-7	2	108	109	54	1	-3	4	-16	6	29	1	1	1	139	146	62
0	3	3	-9	7	37	0	8	-4	108	113	60	1	-7	3	187	183	99	1	-3	5	211	209	99	1	1	2	145	160	78
0	3	4	-24	14	52	0	8	-3	67	64	30	1	-7	4	53	48	23	1	-3	6	75	76	36	1	1	3	195	188	99
0	3	5	47	46	36	0	8	-2	105	105	52	1	-7	5	68	67	28	1	-3	7	12	23	59	1	1	4	45	42	28
0	3	6	22	8	34	0	8	-1	150	147	99	1	-7	6	83	85	35	1	-2	-7	19	18	76	1	1	5	152	147	99
0	4	-7	20	23	28	0	8	0	67	73	27	1	-6	-5	20	23	75	1	-2	-6	78	78	49	1	1	6	15	18	74
0	4	-6	90	87	40	0	8	1	102	101	50	1	-6	-4	10	7	58	1	-2	-5	37	38	33	1	2	-7	49	53	40
0	4	-5	86	88	38	0	8	2	138	130	88	1	-6	-3	77	77	38	1	-2	-4	147	144	99	1	2	-6	161	159	99
0	4	-4	143	152	83	0	8	3	24	26	65	1	-6	-2	38	41	23	1	-2	-3	92	94	41	1	2	-5	17	16	44
0	4	-3	221	232	99	0	9	-5	22	20	22	1	-6	-1	72	78	28	1	-2	-2	-10	8	22	1	2	-4	191	187	99
0	4	-2	334	340	99	0	9	-4	36	36	25	1	-6	0	147	143	84	1	-2	-1	298	290	99	1	2	-3	210	200	99
1	2	-2	13	10	9	1	6	-1	158	167	96	2	-8	-3	101	105	52	2	-4	1	265	260	99	2	0	-3	115	113	60
1	2	-1	431	419	99	1	6	0	45	44	20	2	-8	-2	37	35	24	2	-4	2	323	324	99	2	0	-2	29	26	10
1	2	0	83	83	33	1	6	1	68	63	28	2	-8	-1	77	80	33	2	-4	3	181	180	99	2	0	-1	772	787	99
1	2	1	51	56	15	1	6	2	40	33	25	2	-8	0	173	169	99	2	-4	4	246	242	99	2	0	0	46	42	11
1	2	2	132	136	74	1	6	3	34	38	34	2	-8	1	108	107	57	2	-4	5	130	132	87	2	0	1	217	223	99
1	2	3	27	23	22	1	6	4	18	17	76	2	-8	2	155	149	99	2	-4	6	57	58	29	2	0	2	591	626	99
1	2	4	-22	29	63	1	7	-6	32	33	23	2	-8	3	143	144	99	2	-4	7	48	49	29	2	0	3	68	74	29
1	2	5	46	49	37	1	7	-5	69	68	30	2	-8	4	54	56	26	2	-3	-7	-29	9	94	2	0	4	202	212	99
1	2	6	-28	5	70	1	7	-4	141	142	99	2	-8	5	92	94	44	2	-3	-6	43	37	41	2	0	5	138	123	91
1	3	-7	73	70	41	1	7	-3	111	106	56	2	-8	6	72	75	29	2	-3	-5	8	25	67	2	0	6	49	43	42
1	3	-6	96	93	45	1	7	-2	96	97	42	2	-7	-5	23	9	55	2	-3	-4	43	43	25	2	1	-7	71	70	48
1	3	-5	86	82	39	1	7	-1	180	188	99	2	-7	-4	7	10	68	2	-3	-3	48	50	21	2	1	-6	35	31	30
1	3	-4	230	235	99	1	7	0	87	91	39	2	-7	-3	52	47	30	2	-3	-2	9	6	26	2	1	-5	23	29	24
1	3	-3	346	335	99	1	7	1	99	93	49	2	-7	-2	91	93	41	2	-3	-1	98	92	44	2	1	-4	152	148	94
1	3	-2	96	93	42	1	7	2	86	81	44	2	-7	-1	50	53	23	2	-3	0	99	99	41	2	1	-3	123	124	65
1	3	-1	520	515	99	1	7	3	-26	4	72	2	-7	0	134	131	85	2	-3	1	235	233	99	2	1	-2	34	36	10
1	3	0	175	175	89	1	8	-6	25	2	22	2	-7	1	143	146	91	2	-3	2	265	257	99	2	1	-1	194	197	96
1	3	1	128	129	66	1	8	-5	-19	11	45	2	-7	2	154	153	99	2	-3	3	27	25	14	2	1	0	77	80	31
1	3	2	353	357	99	1	8	-4	63	59	30	2	-7	3	66	67	27	2	-3	4	10	9	33	2	1	1	62	65	20
1	3	3	27	32	23	1	8	-3	24	14	21	2	-7	4	-25	4	40	2	-3	5	119	118	66	2	1	2	42	43	18
1	3	4	35	30	29	1	8	-2	90	89	42	2	-7	5	104	98	51	2	-3	6	-6	12	57	2	1	3	71	75	32
1	3	5	91	87	52	1	8	-1	99	101	45	2	-7	6	39	37	21	2	-3	7	30	41	36	2	1	4	74	77	38
1	3	6	18	11	76	1	8	0	28	14	22	2	-6	-5	26	6	33	2	-2	-7	60	55	51	2	1	5	49	52	39
1	4	-7	37	38	29	1	8	1	80	70	41	2	-6	-4	75	78	45	2	-2	-6	97	94	57	2	1	6	23	9	79
1	4	-6	10	5	43	1	8	2	101	94	53	2	-6	-3	52	53	29	2	-2	-5	-20	9	55	2	2	-7	75	69	43
1	4	-5	30	29	19	1	9	-5	-13	5	46	2	-6	-2	13	5	19	2	-2	-4	255	255	99	2	2	-6	111	106	65
1	4	-4	205	202	99	1	9	-4	54	52	32	2	-6	-1	105	104	46	2	-2	-3	119	121	70	2	2	-5	94	95	45
1	4	-3	14	17	28	1	9	-3	63	60	31	2	-6	0	62	63	22	2	-2	-2	11	11	13	2	2	-4	278	272	99
1	4	-2	92	96	45	1	9	-2	45	45	26	2	-6	1	130	125	75	2	-2	-1	361	329	99	2	2	-3	99	100	51
1	4	-1	419	415	99	1	9	-1	20	20	21	2	-6	2	89	87	40	2	-2	0	104	104	43	2	2	-2	195	200	99
1	4	0	152	151	81	1	9	0	60	64	33	2	-6	3	61	60	23	2	-2	1	13	12	23	2	2	-1	287	289	99
1	4	1	107	111	48	1	9	1	53	56	35	2	-6	4	116	119	55	2	-2	2	157	161	79	2	2	0	18	17	10
1	4	2	316	319	99	1	10	-3	11	3	36	2	-6	5	44	45	21	2	-2	3	89	94	40	2	2	1	168	175	94
1	4	3	35	33	27	1	10	-2	33	38	28	2	-6	6	-2	6	25	2	-2	4	84	85	36	2	2	2	2	16	35
1	4	4	118	112	68	1	10	-1	49	49	27	2	-5	-6	73	65	54	2	-2	5	85	89	42	2	2	3	42	42	26
1	4	5	100	94	59	2	-11	1	-16	5	48	2	-5	-5	27	25	78	2	-2	6	49	41	35	2	2	4	24	46	68
1	5	-7	42	42	29	2	-11	2	24	25	26	2	-5	-4	164	158	99	2	-2	7	20	13	63	2	2	5	-31	4	72
1	5	-6	-15	15	47	2	-11	3	39	38	26	2	-5	-3	251	248	99	2	-1	-7	63	64	51	2	2	6	48	40	40
1	5	-5	16	22	40	2	-10	-2	18	9	36	2	-5	-2	71	71	25	2	-1	-6	89	83	50	2	3	-7	75	72	41
1	5	-4	118	118	72	2	-10	-1	34	28	23	2	-5	-1	325	327	99	2	-1	-5	108	106	56	2	3	-6	83	81	38
1	5	-3	91	90	39	2	-10	0	65	62	33	2	-5	0	299	294	99	2	-1	-4	369	359	99	2	3	-5	127	126	67
1	5	-2	58	55	19	2	-10	1	34	31	26	2	-5	1	207	203	99	2	-1	-3	233	230	99	2	3	-4	234	230	99
1	5	-1	131	133	70	2	-10	2	39	31	26	2	-5	2	259	260	99	2	-1	-2	255	247	99	2	3	-3	210	205	99
1	5	0	39	44	16	2	-10	3	15	37	40	2	-5	3	133	133	76	2	-1	-1	1090	1041	99	2	3	-2	383	380	99
1	5	1	28	23	19	2	-10	4	-15	21	47	2	-5	4	35	35	18	2	-1	0	347	360	99	2	3	-1	489	492	99
1	5	2	109	100	62	2	-9	-3	75	83	47	2	-5	5	110	111	54	2	-1	1	312	303	99	2	3	0	86	94	34
1	5	3	41	40	32	2	-9	-2	61	63	33	2	-5	6	-24	12	38	2	-1	2	415	451	99	2	3	1	386	396	99
1	5	4	34	26	35	2	-9	-1	57	59	30	2	-5	7	-9	2	40	2	-1	3	148	158	99	2	3	2	231	236	99
1	5	5	58	44	41	2	-9	0	105	102	59	2	-4	-6	48	37	43	2	-1	4	108	103	63	2	3	3	69	68	34
1	6	-7	61	66	30	2	-9	1	63	62	29	2	-4	-5	28	9	31	2	-1	5	124	117	32	2	3	4	129	124	35
1	6	-6	67	67	31	2	-9	2	51	52	28	2	-4	-4	96	87	50	2	-1	6	-7	5	67	2	3	5	49	34	41
1	6	-5	11	11	40	2	-9	3	96	91	44	2	-4	-3	173	166	99	2	0	-7	31	53	98	2	4	-7	42	40	29
1	6	-4	172	166	99	2	-9	4	18	5	42	2	-4	-2	22	21	14	2	0	-6	19	6	58	2	4	-6	50	53	29
1	6	-3	106	105	50	2	-9	5	3	25	45	2	-4	-1	418	401	99	2	0	-5	21	12	46	2	4	-5	46	47	24
1	6	-2	-13	6	30	2	-8	-4	-18	6	66	2	-4	0	311	306	99	2	0	-4	178	168	99	2	4	-4	34	30	44

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	4	-3	3	6	25	2	9	-1	26	29	25	3	-6	6	16	31	40	3	-1	-7	48	43	49	3	3	-7	4	3	67
2	4	-2	119	115	61	2	9	0	28	29	29	3	-5	-6	16	29	93	3	-1	-6	27	13	30	3	3	-6	41	36	27
2	4	-1	192	195	99	3	-11	0	36	29	26	3	-5	-5	-26	6	70	3	-1	-5	76	72	37	3	3	-5	140	142	99
2	4	0	51	47	18	3	-11	1	45	41	29	3	-5	-4	175	174	99	3	-1	-4	285	271	99	3	3	-4	72	76	27
2	4	1	171	175	99	3	-11	2	51	52	30	3	-5	-3	72	68	29	3	-1	-3	45	42	17	3	3	-3	95	100	40
2	4	2	224	217	99	3	-11	3	26	25	24	3	-5	-2	147	151	86	3	-1	-2	298	299	99	3	3	-2	304	313	99
2	4	3	11	7	28	3	-10	-2	5	11	44	3	-5	-1	356	342	99	3	-1	-1	509	483	99	3	3	-1	194	195	99
2	4	4	118	111	72	3	-10	-1	36	44	29	3	-5	0	93	92	39	3	-1	0	43	41	13	3	3	0	113	113	65
2	4	5	76	68	51	3	-10	0	54	52	30	3	-5	1	221	220	99	3	-1	1	524	523	99	3	3	1	341	350	99
2	5	-7	50	51	29	3	-10	1	25	21	24	3	-5	2	256	253	99	3	-1	2	168	180	98	3	3	2	35	37	24
2	5	-6	44	41	26	3	-10	2	52	52	30	3	-5	3	128	126	77	3	-1	3	104	108	55	3	3	3	113	108	59
2	5	-5	52	50	24	3	-10	3	-23	7	45	3	-5	4	57	57	24	3	-1	4	153	153	99	3	3	4	138	130	95
2	5	-4	129	124	81	3	-10	4	13	10	41	3	-5	5	83	86	36	3	-1	5	66	65	44	3	3	5	4	3	51
2	5	-3	188	191	99	3	-9	-3	40	44	33	3	-5	6	14	14	23	3	-1	6	21	34	60	3	4	-7	17	11	30
2	5	-2	89	88	38	3	-9	-2	32	38	27	3	-4	-6	-36	3	82	3	0	-7	34	34	40	3	4	-6	22	13	24
2	5	-1	31	37	17	3	-9	-1	104	106	51	3	-4	-5	-26	24	61	3	0	-6	44	38	32	3	4	-5	109	101	57
2	5	0	97	101	46	3	-9	0	96	94	46	3	-4	-4	122	118	69	3	0	-5	90	85	38	3	4	-4	74	70	27
2	5	1	42	38	23	3	-9	1	52	49	26	3	-4	-3	67	67	26	3	0	-4	90	88	38	3	4	-3	31	26	15
2	5	2	-11	15	51	3	-9	2	101	99	48	3	-4	-2	56	56	19	3	0	-3	34	34	14	3	4	-2	172	174	99
2	5	3	20	34	67	3	-9	3	58	59	28	3	-4	-1	310	299	99	3	0	-2	73	73	23	3	4	-1	21	26	16
2	5	4	31	38	38	3	-9	4	25	26	22	3	-4	0	9	16	27	3	0	-1	373	367	99	3	4	0	30	30	18
2	6	-7	67	66	33	3	-9	5	57	63	27	3	-4	1	291	281	99	3	0	0	45	48	14	3	4	1	139	135	96
2	6	-6	46	45	28	3	-8	-4	25	23	36	3	-4	2	261	256	99	3	0	1	136	149	69	3	4	2	34	34	26
2	6	-5	115	114	64	3	-8	-3	35	33	30	3	-4	3	-23	10	35	3	0	2	171	174	99	3	4	3	58	59	38
2	6	-4	139	137	91	3	-8	-2	12	20	25	3	-4	4	201	207	99	3	0	3	86	90	39	3	4	4	68	62	46
2	6	-3	43	36	21	3	-8	-1	138	135	97	3	-4	5	102	107	54	3	0	4	151	161	95	3	5	-7	19	41	65
2	6	-2	193	195	99	3	-8	0	12	7	38	3	-4	6	-21	25	51	3	0	5	51	42	37	3	5	-6	14	11	24
2	6	-1	105	110	50	3	-8	1	104	106	54	3	-3	-7	49	50	51	3	0	6	45	44	42	3	5	-5	109	109	60
2	6	0	20	21	39	3	-8	2	167	163	99	3	-3	-6	24	7	70	3	1	-7	101	95	56	3	5	-4	53	54	25
2	6	1	119	120	72	3	-8	3	50	45	24	3	-3	-5	84	82	41	3	1	-6	21	5	54	3	5	-3	31	33	20
2	6	2	-46	13	65	3	-8	4	79	77	32	3	-3	-4	118	114	62	3	1	-5	102	98	47	3	5	-2	105	111	49
2	6	3	10	7	66	3	-8	5	77	78	32	3	-3	-3	66	64	23	3	1	-4	132	132	81	3	5	-1	49	48	21
2	7	-6	15	16	33	3	-7	-5	26	12	36	3	-3	-2	172	169	93	3	1	-3	31	32	13	3	5	0	50	51	25
2	7	-5	86	85	38	3	-7	-4	38	35	33	3	-3	-1	178	166	97	3	1	-2	230	214	99	3	5	1	20	23	48
2	7	-4	88	87	37	3	-7	-3	36	36	25	3	-3	0	99	91	48	3	1	-1	92	86	41	3	5	2	8	21	55
2	7	-3	110	111	59	3	-7	-2	-6	20	22	3	-3	1	150	152	81	3	1	0	72	71	26	3	5	3	5	3	36
2	7	-2	158	160	99	3	-7	-1	64	64	26	3	-3	2	95	95	40	3	1	1	104	109	56	3	5	4	21	3	75
2	7	-1	101	105	51	3	-7	0	12	26	37	3	-3	3	88	94	40	3	1	2	75	73	28	3	6	-7	29	33	28
2	7	0	89	87	39	3	-7	1	12	11	17	3	-3	4	160	168	99	3	1	3	55	52	27	3	6	-6	39	39	29
2	7	1	181	177	99	3	-7	2	134	132	88	3	-3	5	16	16	38	3	1	4	72	79	41	3	6	-5	127	119	73
2	7	2	47	38	36	3	-7	3	35	31	19	3	-3	6	16	16	64	3	1	5	-52	18	81	3	6	-4	110	112	61
2	7	3	29	34	41	3	-7	4	30	33	21	3	-2	-7	68	60	52	3	1	6	21	6	71	3	6	-3	56	52	25
2	8	-6	15	21	31	3	-7	5	68	70	29	3	-2	-6	73	63	44	3	2	-7	78	79	47	3	6	-2	168	180	99
2	8	-5	50	47	29	3	-7	6	-13	17	35	3	-2	-5	133	126	83	3	2	-6	37	36	28	3	6	-1	74	77	31
2	8	-4	4	18	50	3	-6	-5	27	25	38	3	-2	-4	182	177	99	3	2	-5	176	172	99	3	6	0	98	98	50
2	8	-3	19	13	43	3	-6	-4	113	135	89	3	-2	-3	96	93	40	3	2	-4	224	218	99	3	6	1	93	89	46
2	8	-2	70	74	32	3	-6	-3	52	57	29	3	-2	-2	473	465	99	3	2	-3	99	96	40	3	6	2	-29	17	69
2	8	-1	1	17	44	3	-6	-2	36	34	19	3	-2	-1	170	166	86	3	2	-2	435	440	99	3	6	3	58	56	46
2	8	0	52	49	31	3	-6	-1	247	243	99	3	-2	0	65	65	21	3	2	-1	11	20	24	3	7	-6	18	21	51
2	8	1	64	58	39	3	-6	0	97	96	42	3	-2	1	275	265	99	3	2	0	150	155	82	3	7	-5	59	57	32
2	8	2	17	8	64	3	-6	1	53	56	21	3	-2	2	166	167	93	3	2	1	324	332	99	3	7	-4	5	8	48
2	9	-5	16	30	33	3	-6	2	171	172	99	3	-2	3	-26	12	56	3	2	2	46	44	22	3	7	-3	91	89	43
2	9	-4	13	3	42	3	-6	3	16	7	34	3	-2	4	49	47	35	3	2	3	29	35	27	3	7	-2	101	105	46
2	9	-3	29	29	26	3	-6	4	14	4	26	3	-2	5	-20	27	75	3	2	4	72	70	42	3	7	-1	40	38	25
2	9	-2	54	56	28	3	-6	5	47	49	22	3	-2	6	4	26	42	3	2	5	19	10	36	3	7	0	88	81	43
3	7	1	102	97	56	4	-6	-4	108	114	58	4	-2	-3	68	72	25	4	2	-2	406	399	99	4	7	-2	7	6	47
3	7	2	23	22	34	4	-6	-3	52	58	24	4	-2	-2	616	584	99	4	2	-1	93	92	39	4	7	-1	47	55	34
3	8	-5	22	34	58	4	-6	-2	197	198	99	4	-2	-1	141	127	73	4	2	0	281	289	99	4	7	0	85	80	48
3	8	-4	43	42	28	4	-6	-1	129	124	83	4	-2	0	238	227	99	4	2	1	206	206	99	4	7	1	-18	18	48
3	8	-3	42	40	25	4	-6	0	140	134	86	4	-2	1	367	345	99	4	2	2	59	59	30	4	8	-4	15	29	51
3	8	-2	27	26	23	4	-6	1	154	157	99	4	-2	2	66	63	23	4	2	3	118	119	75	4	8	-3	48	50	28
3	8	-1	66	60	34	4	-6	2	105	105	52	4	-2	3	79	80	33	4	2	4	17	31	80	4	8	-2	35	32	28
3	8	0	49	49	36	4	-6	3	-19	5	42	4	-2	4	110	115	63	4	2	5	9	5	70	4	8	-1	-13	17	59
3	8	1	29	31	37	4	-6	4	73	74	30	4	-2	5	16	12	74	4	3	-7	-19	15	59	5	-11	0	16	24	28
3	9	-4	-12	11	49	4	-6	5	14	14	27	4	-2	6	18	3	73	4	3	-6	32	33	28	5	-11	1	46	46	29
3	9	-3	36	36	27	4	-6	6	-5	8	32	4	-1	-7	17	7	73	4	3	-5	84	82	35	5	-11	2	-5	3	47
3	9	-2	42	40	26	4	-5	-6	33	18	40	4	-1	-6	29	29	33	4	3	-4	6	12	34	5	-10	-2	64	65	34
3	9	-1	39	34	29	4	-5	-5	55	55	38	4	-1	-5	137	129	99	4	3	-3	147	147	87	5	-10	-1	46	49	34
4	-11	0	12	17	52	4	-5	-4	142	141	83	4	-1	-4	66	65	25	4	3	-2	192	188	99	5	-10	0	35	36	30
4	-11	1	16	12	25	4	-5	-3	31	27	17	4	-1	-3	105	111	55	4	3	-1	13	24	34	5	-10	1	60	62	36
4	-11	2	13	15	23	4	-5	-2	239	231	99	4	-1	-2	470	454	99	4	3	0	215	217	99	5	-10	2	28	25	26
4	-10	-2	-10	19	50	4	-5	-1	293	278	99	4	-1	-1	165	158	88	4	3	1	227	227	99	5	-10	3	33	27	24
4	-10	-1	66	70	37	4	-5	0	171	168	99	4	-1	0	211	205	99	4	3	2	33	28	25	5	-9	-3	-10	27	60
4	-10	0	34	33	27	4	-5	1	287	281	99	4	-1	1	485	463	99	4	3	3	141	133	92	5	-9	-2	64	70	36
4	-10	1	-14	9	51	4	-5	2	159	158	99	4	-1	2	139	140	85	4	3	4	75	70	49	5	-9	-1	-16	23	60
4	-10	2	79	77	36	4	-5	3	197	192	99	4	-1	3	192	208	99	4	4	-7	36	32	29	5	-9	0	60	58	33
4	-10	3	-16	12	50	4	-5	4	146	153	99	4	-1	4	134	130	85	4	4	-6	44	36	28	5	-9	1	106	104	54
4	-10	4	-21	14	48	4	-5	5	49	53	24	4	-1	5	59	54	45	4	4	-5	72	72	33	5	-9	2	57	55	30
4	-9	-3	18	26	25	4	-5	6	36	43	23	4	-1	6	71	63	50	4	4	-4	99	103	50	5	-9	3	49	49	28
4	-9	-2	57	63	31	4	-4	-6	8	15	58	4	0	-7	13	5	69	4	4	-3	42	43	19	5	-9	4	63	69	30
4	-9	-1	106	106	54	4	-4	-5	-16	7	62	4	0	-6	38	29	31	4	4	-2	25	26	18	5	-8	-4	35	27	26
4	-9	0	78	76	35	4	-4	-4	28	26	24	4	0	-5	84	79	37	4	4	-1	54	57	23	5	-8	-3	15	12	50
4	-9	1	129	128	74	4	-4	-3	7	9	33	4	0	-4	-21	15	37	4	4	0	11	26	45	5	-8	-2	65	66	34
4	-9	2	105	104	51	4	-4	-2	111	104	65	4	0	-3	13	16	12	4	4	1	9	20	30	5	-8	-1	-34	14	56
4	-9	3	41	43	25	4	-4	-1	34	36	17	4	0	-2	52	54	17	4	4	2	36	38	31	5	-8	0	14	23	48
4	-9	4	83	79	34	4	-4	0	39	37	19	4	0	-1	58	54	17	4	4	3	47	43	37	5	-8	1	120	117	67
4	-9	5	60	64	26	4	-4	1	231	226	99	4	0	0	26	27	14	4	5	-7	29	24	29	5	-8	2	40	36	25
4	-8	-4	11	29	65	4	-4	2	29	31	21	4	0	1	171	173	99	4	5	-6	72	68	37	5	-8	3	43	44	26
4	-8	-3	26	32	25	4	-4	3	93	92	47	4	0	2	77	77	31	4	5	-5	115	107	66	5	-8	4	56	60	29
4	-8	-2	30	30	24	4	-4	4	98	103	48	4	0	3	94	100	46	4	5	-4	-10	17	42	5	-8	5	23	22	18
4	-8	-1	98	101	46	4	-4	5	22	26	52	4	0	4	78	74	41	4	5	-3	134	142	90	5	-7	-5	65	66	43
4	-8	0	41	40	23	4	-4	6	51	58	38	4	0	5	26	3	32	4	5	-2	91	96	41	5	-7	-4	26	26	26
4	-8	1	95	98	45	4	-3	-7	53	44	47	4	1	-7	51	38	37	4	5	-1	44	47	25	5	-7	-3	17	28	29
4	-8	2	83	82	35	4	-3	-6	15	6	63	4	1	-6	47	50	33	4	5	0	99	96	45	5	-7	-2	107	106	59
4	-8	3	-14	19	43	4	-3	-5	91	86	44	4	1	-5	181	170	99	4	5	1	31	30	27	5	-7	-1	80	80	35
4	-8	4	90	93	41	4	-3	-4	67	71	29	4	1	-4	25	23	17	4	5	2	-18	4	60	5	-7	0	-25	20	50
4	-8	5	60	57	25	4	-3	-3	55	55	20	4	1	-3	139	146	74	4	5	3	30	23	36	5	-7	1	95	94	45
4	-7	-5	-40	27	95	4	-3	-2	50	53	20	4	1	-2	97	96	59	4	6	-6	68	66	37	5	-7	2	-12	7	44
4	-7	-4	39	39	32	4	-3	-1	23	24	15	4	1	-1	22	15	13	4	6	-5	64	62	34	5	-7	3	12	4	43
4	-7	-3	6	35	47	4	-3	0	47	48	19	4	1	0	157	159	90	4	6	-4	89	93	39	5	-7	4	46	47	25
4	-7	-2	67	69	28	4	-3	1	140	133	87	4	1	1	75	73	26	4	6	-3	144	149	99	5	-7	5	4	20	49
4	-7	-1	68	70	29	4	-3	2	51	46	29	4	1	2	51	52	25	4	6	-2	86	86	37	5	-6	-6	16	3	57
4	-7	0	163	161	99	4	-3	3	197	121	52	4	1	3	37	37	27	4	6	-1	80	76	37	5	-6	-5	85	90	52
4	-7	1	99	98	49	4	-3	4	95	96	49	4	1	4	3	6	52	4	6	0	171	167	99	5	-6	-4	52	51	28
4	-7	2	38	40	22	4	-3	5	23	40	92	4	1	5	56	45	39	4	6	1	41	39	34	5	-6	-3	50	54	28
4	-7	3	98	101	43	4	-3	6	17	11	77	4	2	-7	74	66	41	4	6	2	44	40	39	5	-6	-2	237	233	99
4	-7	4	54	56	25	4	-2	-7	65	54	49	4	2	-6	98	88	45	4	7	-6	36	32	29	5	-6	-1	82	77	33
4	-7	5	-4	16	33	4	-2	-6	28	38	81	4	2	-5	160	147	99	4	7	-5	8	5	29	5	-6	0	93	87	49
4	-6	-6	-28	6	95	4	-2	-5	241	233	99	4	2	-4	145	145	59	4	7	-4	20	11	45	5	-6	1	211	207	99
4	-6	-5	98	98	57	4	-2	-4	151	147	98	4	2	-3	217	225	99	4	7	-3	56	60	28	5	-6	2	90	92	34

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	-6	3	47	44	27	5	-1	-5	104	102	50	5	3	0	126	126	71	6	-8	1	39	42	29	6	-3	-1	134	121	88
5	-6	4	71	74	31	5	-1	-4	16	26	37	5	3	1	48	46	28	6	-8	2	47	50	30	6	-3	0	196	185	99
5	-6	5	-12	5	40	5	-1	-3	54	54	21	5	3	2	62	62	38	6	-8	3	43	39	28	6	-3	1	43	42	27
5	-5	-6	-24	12	81	5	-1	-2	267	260	99	5	3	3	86	82	50	6	-8	4	-7	3	41	6	-3	2	17	12	23
5	-5	-5	78	79	45	5	-1	-1	8	7	20	5	4	-7	-15	4	58	6	-7	-5	53	60	37	6	-3	3	108	102	56
5	-5	-4	17	22	23	5	-1	0	227	215	99	5	4	-6	76	66	38	6	-7	-4	-15	20	58	6	-3	4	21	13	23
5	-5	-3	35	32	22	5	-1	1	142	143	87	5	4	-5	-6	23	52	6	-7	-3	85	93	41	6	-3	5	-29	17	70
5	-5	-2	178	167	99	5	-1	2	65	68	28	5	4	-4	15	17	28	6	-7	-2	82	81	40	6	-2	-7	-23	17	83
5	-5	-1	9	7	24	5	-1	3	170	175	99	5	4	-3	100	99	46	6	-7	-1	15	10	55	6	-2	-6	87	92	48
5	-5	0	214	221	99	5	-1	4	26	45	67	5	4	-2	53	53	27	6	-7	0	117	117	71	6	-2	-5	44	45	27
5	-5	1	174	171	99	5	-1	5	48	52	39	5	4	-1	28	29	23	6	-7	1	64	66	35	6	-2	-4	18	35	48
5	-5	2	47	41	26	5	0	-7	13	3	76	5	4	0	27	34	28	6	-7	2	42	40	30	6	-2	-3	317	319	99
5	-5	3	161	154	99	5	0	-6	72	70	40	5	4	1	-22	16	60	6	-7	3	54	60	36	6	-2	-2	94	95	42
5	-5	4	91	91	42	5	0	-5	58	59	29	5	4	2	21	6	61	6	-7	4	7	3	48	6	-2	-1	138	134	93
5	-5	5	38	39	21	5	0	-4	15	16	25	5	4	3	-10	3	68	6	-6	-5	58	69	36	6	-2	0	323	312	99
5	-4	-6	37	37	39	5	0	-3	127	132	76	5	5	-6	74	77	42	6	-6	-4	26	25	24	6	-2	1	89	91	40
5	-4	-5	51	57	33	5	0	-2	62	57	23	5	5	-5	73	76	36	6	-6	-3	130	134	76	6	-2	2	185	178	99
5	-4	-4	3	11	42	5	0	-1	8	5	30	5	5	-4	49	47	26	6	-6	-2	125	124	72	6	-2	3	117	113	65
5	-4	-3	31	32	21	5	0	0	44	46	20	5	5	-3	112	110	61	6	-6	-1	151	147	99	6	-2	4	24	38	61
5	-4	-2	117	109	74	5	0	1	57	58	25	5	5	-2	53	54	30	6	-6	0	171	164	99	6	-1	-7	-20	4	68
5	-4	-1	6	8	36	5	0	2	15	9	29	5	5	-1	91	89	43	6	-6	1	101	97	53	6	-1	-6	40	40	34
5	-4	0	80	72	32	5	0	3	71	73	34	5	5	0	66	60	37	6	-6	2	142	136	88	6	-1	-5	5	11	29
5	-4	1	115	105	64	5	0	4	17	12	57	5	5	1	-29	13	59	6	-6	3	119	106	69	6	-1	-4	39	40	23
5	-4	2	96	87	50	5	0	5	23	11	65	5	5	2	49	42	36	6	-6	4	50	50	29	6	-1	-3	61	58	27
5	-4	3	181	155	99	5	1	-7	19	26	53	5	6	-6	34	43	33	6	-6	5	31	29	20	6	-1	-2	-22	5	44
5	-4	4	34	42	22	5	1	-6	78	78	42	5	6	-5	21	16	51	6	-5	-6	-20	3	74	6	-1	-1	49	45	22
5	-4	5	-25	18	75	5	1	-5	132	132	94	5	6	-4	54	51	28	6	-5	-5	34	34	29	6	-1	0	148	143	99
5	-3	-7	25	30	65	5	1	-4	62	66	25	5	6	-3	93	97	43	6	-5	-4	4	4	46	6	-1	1	13	5	41
5	-3	-6	66	70	45	5	1	-3	258	253	99	5	6	-2	48	49	31	6	-5	-3	49	56	30	6	-1	2	91	93	44
5	-3	-5	101	105	52	5	1	-2	51	47	20	5	6	-1	70	67	41	6	-5	-2	94	93	45	6	-1	3	65	66	35
5	-3	-4	14	10	18	5	1	-1	52	54	22	5	6	0	102	93	53	6	-5	-1	-14	9	48	6	-1	4	17	19	52
5	-3	-3	248	257	99	5	1	0	235	243	99	5	6	1	-24	16	71	6	-5	0	162	154	99	6	0	-7	23	14	72
5	-3	-2	158	153	98	5	1	1	-17	7	40	5	7	-5	33	32	28	6	-5	1	53	57	36	6	0	-6	74	77	42
5	-3	-1	26	15	18	5	1	2	-20	7	47	5	7	-4	37	43	29	6	-5	2	95	89	48	6	0	-5	20	30	50
5	-3	0	196	186	99	5	1	3	67	66	35	5	7	-3	30	26	26	6	-5	3	117	106	69	6	0	-4	41	40	23
5	-3	1	98	101	46	5	1	4	-18	15	61	5	7	-2	44	44	34	6	-5	4	-2	25	60	6	0	-3	52	53	25
5	-3	2	30	27	23	5	2	-7	20	13	31	5	7	-1	50	45	35	6	-5	5	42	55	23	6	0	-2	17	6	39
5	-3	3	70	68	29	5	2	-6	100	99	48	6	-10	-2	49	56	35	6	-4	-6	21	38	78	6	0	-1	85	79	37
5	-3	4	-19	4	61	5	2	-5	61	66	30	6	-10	-1	42	53	36	6	-4	-5	27	30	27	6	0	0	-23	13	44
5	-3	5	19	28	63	5	2	-4	63	62	25	6	-10	0	52	59	36	6	-4	-4	21	17	47	6	0	1	72	71	32
5	-2	-7	38	16	39	5	2	-3	235	237	99	6	-10	1	77	82	42	6	-4	-3	71	70	32	6	0	2	18	29	53
5	-2	-6	50	50	39	5	2	-2	91	94	39	6	-10	2	-15	21	55	6	-4	-2	35	28	23	6	0	3	18	11	49
5	-2	-5	122	118	69	5	2	-1	138	136	89	6	-10	3	46	46	27	6	-4	-1	-3	21	49	6	0	4	50	46	32
5	-2	-4	70	72	26	5	2	0	301	301	99	6	-9	-3	27	27	29	6	-4	0	120	115	69	6	1	-7	53	51	40
5	-2	-3	216	218	99	5	2	1	-24	6	45	6	-9	-2	59	66	38	6	-4	1	51	44	33	6	1	-6	91	90	46
5	-2	-2	240	228	99	5	2	2	106	107	55	6	-9	-1	-25	12	57	6	-4	2	64	57	39	6	1	-5	55	56	27
5	-2	-1	96	94	43	5	2	3	127	120	84	6	-9	0	93	90	46	6	-4	3	74	65	45	6	1	-4	138	145	98
5	-2	0	351	330	99	5	2	4	-14	7	57	6	-9	1	49	50	31	6	-4	4	29	28	22	6	1	-3	215	205	99
5	-2	1	189	178	99	5	3	-7	-29	10	58	6	-9	2	26	23	26	6	-4	5	-11	7	88	6	1	-2	66	65	28
5	-2	2	99	96	46	5	3	-6	65	64	37	6	-9	3	85	83	39	6	-3	-7	23	23	86	6	1	-1	209	202	99
5	-2	3	98	96	45	5	3	-5	19	37	51	6	-8	-4	-9	13	51	6	-3	-6	99	104	53	6	1	0	93	92	44
5	-2	4	68	72	36	5	3	-4	28	24	17	6	-8	-3	34	38	31	6	-3	-5	68	75	34	6	1	1	50	49	27
5	-2	5	31	25	34	5	3	-3	119	118	58	6	-8	-2	33	38	29	6	-3	-4	49	61	28	6	1	2	98	96	52
5	-1	-7	19	15	43	5	3	-2	31	39	23	6	-8	-1	78	73	38	6	-3	-3	221	217	99	6	1	3	12	13	60
5	-1	-6	40	34	32	5	3	-1	-9	24	48	6	-8	0	39	40	30	6	-3	-2	100	98	54	6	2	-7	17	27	46
6	2	-6	40	42	33	7	-8	-2	4	32	62	7	-3	1	57	54	30	7	2	0	19	18	57	8	-5	0	-27	3	70
6	2	-5	41	39	25	7	-8	-1	-26	4	62	7	-3	2	72	68	34	7	2	1	69	67	37	8	-5	1	35	29	39
6	2	-4	98	101	46	7	-8	0	74	74	41	7	-3	3	40	41	26	7	2	2	69	77	45	8	-5	2	55	50	46
6	2	-3	156	154	99	7	-8	1	20	19	45	7	-3	4	19	20	49	7	3	-6	-8	4	55	8	-5	3	-8	14	75
6	2	-2	35	30	23	7	-8	2	-12	13	59	7	-2	-7	27	22	34	7	3	-5	18	20	55	8	-4	-6	19	34	61
6	2	-1	150	154	99	7	-8	3	45	40	32	7	-2	-6	49	50	34	7	3	-4	58	57	35	8	-4	-5	24	21	31
6	2	0	205	206	99	7	-7	-5	19	13	27	7	-2	-5	-10	12	51	7	3	-3	-17	18	61	8	-4	-4	97	102	50
6	2	1	38	39	29	7	-7	-4	31	36	31	7	-2	-4	36	38	31	7	3	-2	9	9	40	8	-4	-3	24	23	62
6	2	2	115	113	65	7	-7	-3	91	105	49	7	-2	-3	122	112	73	7	3	-1	21	23	57	8	-4	-2	59	56	38
6	2	3	70	66	43	7	-7	-2	51	54	34	7	-2	-2	53	47	29	7	3	0	11	10	57	8	-4	-1	108	112	56
6	3	-7	13	15	36	7	-7	-1	47	40	33	7	-2	-1	143	138	99	7	3	1	14	6	60	8	-4	0	17	4	63
6	3	-6	55	53	33	7	-7	0	93	95	50	7	-2	0	99	101	49	7	4	-6	45	47	31	8	-4	1	-13	5	65
6	3	-5	46	52	28	7	-7	1	68	69	43	7	-2	1	59	60	30	7	4	-5	30	25	31	8	-4	2	69	65	41
6	3	-4	33	35	27	7	-7	2	18	24	68	7	-2	2	111	114	61	7	4	-4	62	67	38	8	-4	3	12	11	50
6	3	-3	20	29	25	7	-7	3	43	46	37	7	-2	3	59	56	30	7	4	-3	27	23	28	8	-3	-6	-10	21	64
6	3	-2	37	41	27	7	-7	4	19	3	26	7	-2	4	41	45	29	7	4	-2	63	58	39	8	-3	-5	21	28	64
6	3	-1	58	53	30	7	-6	-5	19	28	55	7	-1	-7	-12	29	73	7	4	-1	38	46	37	8	-3	-4	137	141	92
6	3	0	42	38	28	7	-6	-4	19	13	52	7	-1	-6	42	48	34	7	4	0	-17	14	77	8	-3	-3	75	74	41
6	3	1	41	32	30	7	-6	-3	102	104	51	7	-1	-5	17	17	37	7	5	-5	30	32	31	8	-3	-2	81	78	44
6	3	2	54	53	36	7	-6	-2	24	13	59	7	-1	-4	50	50	30	7	5	-4	50	59	39	8	-3	-1	145	154	97
6	4	-6	58	58	36	7	-6	-1	103	96	56	7	-1	-3	85	85	39	7	5	-3	52	43	35	8	-3	0	73	69	39
6	4	-5	17	19	49	7	-6	0	139	137	91	7	-1	-2	20	16	49	7	5	-2	50	57	43	8	-3	1	100	99	53
6	4	-4	70	74	36	7	-6	1	30	33	35	7	-1	-1	52	44	27	7	5	-1	63	61	42	8	-3	2	83	84	40
6	4	-3	52	56	32	7	-6	2	99	90	57	7	-1	0	34	44	27	8	-9	-2	30	41	36	8	-3	3	28	27	24
6	4	-2	18	22	56	7	-6	3	77	72	52	7	-1	1	16	5	43	8	-9	-1	35	37	38	8	-2	-6	15	6	57
6	4	-1	51	46	33	7	-6	4	19	26	40	7	-1	2	82	84	38	8	-9	0	21	21	34	8	-2	-5	-21	14	56
6	4	0	-9	27	42	7	-5	-6	38	40	36	7	-1	3	-11	10	49	8	-9	1	-15	20	71	8	-2	-4	76	77	42
6	4	1	18	7	30	7	-5	-5	13	3	55	7	0	-7	39	42	37	8	-8	-3	10	26	72	8	-2	-3	-7	4	42
6	4	2	-21	15	70	7	-5	-4	26	30	30	7	0	-6	48	53	34	8	-8	-2	14	4	77	8	-2	-2	-33	27	66
6	5	-6	47	45	33	7	-5	-3	50	54	35	7	0	-5	31	37	28	8	-8	-1	48	47	40	8	-2	-1	122	122	77
6	5	-5	47	50	30	7	-5	-2	17	11	28	7	0	-4	140	144	84	8	-8	0	43	42	39	8	-2	0	12	13	38
6	5	-4	99	102	47	7	-5	-1	95	95	47	7	0	-3	17	18	57	8	-8	1	34	23	36	8	-2	1	81	82	39
6	5	-3	73	72	38	7	-5	0	47	52	36	7	0	-2	42	41	27	8	-8	2	29	23	37	8	-2	2	45	51	30
6	5	-2	40	35	31	7	-5	1	44	45	38	7	0	-1	124	127	72	8	-7	-4	-17	51	77	8	-2	3	6	18	49
6	5	-1	135	129	88	7	-5	2	133	120	96	7	0	0	-20	6	51	8	-7	-3	59	71	45	8	-1	-6	15	12	58
6	5	0	16	29	66	7	-5	3	34	36	48	7	0	1	11	6	34	8	-7	-2	64	60	40	8	-1	-5	16	32	48
6	5	1	24	31	74	7	-5	4	-31	3	94	7	0	2	38	37	29	8	-7	-1	90	96	52	8	-1	-4	15	8	30
6	6	-5	18	23	51	7	-4	-6	-13	16	74	7	0	3	-21	13	59	8	-7	0	54	57	45	8	-1	-3	-26	6	67
6	6	-4	50	52	34	7	-4	-5	-42	17	60	7	1	-7	50	42	34	8	-7	1	51	55	46	8	-1	-2	60	57	36
6	6	-3	-33	6	59	7	-4	-4	90	101	43	7	1	-6	42	47	33	8	-7	2	68	74	52	8	-1	-1	-19	5	56
6	6	-2	52	54	41	7	-4	-3	72	81	38	7	1	-5	46	43	30	8	-7	3	39	29	41	8	-1	0	32	37	31
6	6	-1	85	81	49	7	-4	-2	-29	21	59	7	1	-4	125	124	76	8	-6	-5	-28	4	69	8	-1	1	-11	21	59
7	-10	-1	33	36	33	7	-4	-1	75	71	38	7	1	-3	61	62	33	8	-6	-4	37	45	37	8	-1	2	-13	11	50
7	-10	0	53	58	38	7	-4	0	78	71	38	7	1	-2	84	78	38	8	-6	-3	41	45	38	8	0	-6	28	33	32
7	-10	1	-18	26	67	7	-4	1	-18	26	64	7	1	-1	210	209	99	8	-6	-2	29	35	36	8	0	-5	57	55	37
7	-10	2	41	42	31	7	-4	2	59	58	39	7	1	0	-30	8	49	8	-6	-1	68	77	45	8	0	-4	95	93	56
7	-9	-3	29	25	31	7	-4	3	-13	12	56	7	1	1	52	56	36	8	-6	0	34	34	38	8	0	-3	44	42	33
7	-9	-2	10	3	61	7	-4	4	-5	34	47	7	1	2	102	98	52	8	-6	1	92	88	55	8	0	-2	100	98	51
7	-9	-1	-15	21	64	7	-3	-6	57	60	37	7	1	3	12	9	56	8	-6	2	71	69	54	8	0	-1	44	45	33
7	-9	0	61	67	40	7	-3	-5	-20	23	55	7	2	-6	-12	11	53	8	-6	3	16	24	54	8	0	0	-2	14	53
7	-9	1	-4	3	64	7	-3	-4	122	133	76	7	2	-5	15	6	51	8	-5	-5	-35	18	68	8	0	1	62	51	36
7	-9	2	16	22	61	7	-3	-3	125	124	75	7	2	-4	93	91	45	8	-5	-4	17	24	73	8	0	2	16	13	27
7	-9	3	44	45	30	7	-3	-2	11	19	30	7	2	-3	25	25	28	8	-5	-3	18	11	43	8	1	-6	-12	17	59
7	-8	-4	-1	2	55	7	-3	-1	202	203	99	7	2	-2	39	34	28	8	-5	-2	21	26	34	8	1	-5	69	75	41
7	-8	-3	56	64	37	7	-3	0	111	117	56	7	2	-1	105	107	56	8	-5	-1	60	66	42	8	1	-4	93	94	51

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
8	1	-3	20	17	44	9	-3	-4	59	57	45	10	-3	-3	-6	18	85												
8	1	-2	106	106	54	9	-3	-3	13	13	56	10	-3	-2	53	59	46												
8	1	-1	123	119	79	9	-3	-2	94	91	54	10	-3	-1	-17	28	87												
8	1	0	42	40	31	9	-3	-1	56	59	41	10	-3	0	36	51	42												
8	1	1	84	84	46	9	-3	0	22	31	35	10	-2	-4	-23	3	83												
8	2	-6	-36	8	64	9	-3	1	63	68	39	10	-2	-3	-19	25	93												
8	2	-5	21	24	67	9	-3	2	18	38	61	10	-2	-2	-29	20	80												
8	2	-4	23	25	63	9	-2	-5	-35	20	85	10	-2	-1	19	18	78												
8	2	-3	22	10	56	9	-2	-4	46	43	38	10	-2	0	11	17	47												
8	2	-2	44	40	33	9	-2	-3	21	18	69	10	-1	-4	8	20	89												
8	2	-1	51	55	36	9	-2	-2	34	21	34	10	-1	-3	57	55	46												
8	2	0	27	15	29	9	-2	-1	29	24	34	10	-1	-2	-22	9	82												
8	2	1	38	39	33	9	-2	0	-23	16	61	10	-1	-1	-25	3	73												
8	3	-5	25	31	35	9	-2	1	47	55	34	10	0	-3	45	47	46												
8	3	-4	32	34	35	9	-1	-5	52	60	43	10	0	-2	58	60	44												
8	3	-3	-23	13	62	9	-1	-4	27	30	75																		
8	3	-2	14	29	65	9	-1	-3	-31	9	72																		
8	3	-1	22	18	67	9	-1	-2	56	59	40																		
8	3	0	18	10	62	9	-1	-1	20	17	61																		
8	4	-4	45	42	37	9	-1	0	17	3	58																		
8	4	-3	29	21	35	9	-1	1	37	32	29																		
8	4	-2	77	69	46	9	0	-5	64	68	44																		
9	-8	-2	-26	9	82	9	0	-4	9	16	54																		
9	-8	-1	51	54	43	9	0	-3	47	46	41																		
9	-8	0	-17	26	41	9	0	-2	119	118	71																		
9	-8	1	17	19	84	9	0	-1	19	5	63																		
9	-7	-3	13	9	42	9	0	0	32	33	33																		
9	-7	-2	43	46	42	9	0	1	49	55	36																		
9	-7	-1	52	61	46	9	1	-5	34	42	42																		
9	-7	0	38	37	41	9	1	-4	-31	24	79																		
9	-7	1	43	43	47	9	1	-3	-21	25	81																		
9	-6	-4	23	28	37	9	1	-2	66	70	47																		
9	-6	-3	16	6	71	9	1	-1	15	12	59																		
9	-6	-2	49	50	40	9	1	0	29	40	35																		
9	-6	-1	45	47	44	9	2	-4	6	4	67																		
9	-6	0	-21	25	94	9	2	-3	14	4	40																		
9	-6	1	51	67	51	9	2	-2	19	20	72																		
9	-6	2	28	35	47	9	2	-1	25	9	33																		
9	-5	-5	11	44	78	10	-7	-2	21	37	94																		
9	-5	-4	39	39	39	10	-7	-1	28	22	40																		
9	-5	-3	-37	8	78	10	-6	-3	23	3	76																		
9	-5	-2	58	55	42	10	-6	-2	19	33	51																		
9	-5	-1	-32	23	78	10	-6	-1	-9	4	79																		
9	-5	0	15	15	84	10	-6	0	-11	9	87																		
9	-5	1	51	55	44	10	-5	-4	33	12	39																		
9	-5	2	20	7	75	10	-5	-3	-28	18	85																		
9	-4	-5	54	61	41	10	-5	-2	57	53	45																		
9	-4	-4	46	53	42	10	-5	-1	18	7	81																		
9	-4	-3	28	18	36	10	-5	0	-39	17	95																		
9	-4	-2	83	78	47	10	-4	-4	-28	30	83																		
9	-4	-1	67	71	47	10	-4	-3	26	37	88																		
9	-4	0	28	32	78	10	-4	-2	67	77	52																		
9	-4	1	-27	33	85	10	-4	-1	-42	24	85																		
9	-4	2	4	27	63	10	-4	0	43	49	41																		
9	-3	-5	-7	25	79	10	-3	-4	-29	14	88																		

APPENDIX 3.VI

$[Ni(S_2CO\text{-}3\text{-}MeBu)_2]$

Table 3.VI.1: Crystallographic Parameters for [Ni($S_2COCH_2CH_2CH(CH_3)2)2$]

Formula	$C_{12}H_{22}NiO_2S_4$
Formula weight	385.24
Crystal morphology / colour	block / brown
Crystal dimensions (mm)	0.10 x 0.27 x 0.36
Crystal system	triclinic
Space group	$P\bar{1}$(#2)
a (Å)	6.585(3)
b (Å)	11.35(1)
c (Å)	6.315(2)
α (°)	102.42(5)
β (°)	94.96(3)
γ (°)	87.98(6)
V (Å^3)	459.1(6)
Z	1
$\rho_{calc.}$ (g cm^{-3})	1.393
F(000)	202
Temperature (°K)	293
μ (cm^{-1})	15.06
θ limits, cell (°)	17.0 – 18.5
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 8, -14 – 14, -8 – 8.
Range of transmission factors	0.908 – 1
Scan technique	ω:2θ
No. of data measured	2316
No. of unique data	2129
R_{amal}	0.081
No. of parameters	88
R (I≥0σ(I))	0.088
R_w (I≥0σ(I))	0.134
R (I≥3σ(I))	0.055
R_w (I≥3σ(I))	0.057
Maximum and minimum residual electron density (e Å^{-3})	0.62, -0.44

Table 3.VI.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2COCH_2CH_2CH(CH_3)_2)_2]$

Atom	*x*	*y*	*z*
Ni	0	0	0
S(1)	0.2153(2)	0.0228(2)	-0.2361(2)
S(2)	0.1865(3)	0.1481(2)	0.1971(3)
O(1)	0.4566(6)	0.2032(4)	-0.0393(6)
C(1)	0.3076(8)	0.1309(6)	-0.0329(9)
C(2)	0.563(1)	0.1899(7)	-0.241(1)
C(3)	0.709(1)	0.300(1)	-0.179(1)
C(4)	0.820(1)	0.3058(8)	-0.342(2)
C(5)	1.004(1)	0.3879(9)	-0.286(1)
C(6)	0.696(2)	0.349(1)	-0.524(2)

Table 3.VI.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2COCH_2CH_2CH(CH_3)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0969(7)	0.116(1)	0.0823(7)	-0.0198(7)	0.0110(5)	0.0219(7)
S(1)	0.122(1)	0.139(2)	0.092(1)	-0.032(1)	0.0259(9)	0.018(1)
S(2)	0.133(1)	0.159(2)	0.093(1)	-0.048(1)	0.0156(9)	0.011(1)
O(1)	0.120(3)	0.140(4)	0.129(3)	-0.042(3)	-0.003(2)	0.045(3)
C(1)	0.100(4)	0.123(6)	0.109(5)	-0.030(4)	-0.003(3)	0.039(4)
C(2)	0.122(5)	0.223(9)	0.121(5)	-0.030(5)	0.022(4)	0.073(6)
C(3)	0.170(7)	0.38(1)	0.154(7)	-0.167(8)	0.008(5)	0.096(8)
C(4)	0.177(8)	0.21(1)	0.212(10)	-0.096(7)	-0.059(7)	0.091(8)
C(5)	0.202(8)	0.22(1)	0.223(9)	-0.074(8)	0.002(7)	0.052(7)
C(6)	0.23(1)	0.39(2)	0.28(1)	-0.12(1)	-0.063(9)	0.19(1)

Table 3.VI.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in [Ni($S_2COCH_2CH_2CH(CH_3)_2)_2$]*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.6377	0.1140	-0.2717	14.1
H(2b)	0.4677	0.1960	-0.3644	14.1
H(3a)	0.6292	0.3740	-0.1437	21.1
H(3b)	0.7999	0.2917	-0.0531	21.1
H(4a)	0.8700	0.2246	-0.4005	18.3
H(5a)	1.0944	0.3624	-0.1734	20.2
H(5b)	1.0776	0.3832	-0.4145	20.2
H(5c)	0.9589	0.4705	-0.2337	20.2
H(6a)	0.6542	0.4324	-0.4747	26.7
H(6b)	0.7790	0.3432	-0.6472	26.7
H(6c)	0.5770	0.2995	-0.5706	26.7

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 3.VI.5: Bond distances (Å) for [Ni($S_2COCH_2CH_2CH(CH_3)_2)_2$]

Ni — S(1)	2.203(1)	O(1) — C(2)	1.479(6)
Ni — S(2)	2.205(2)	C(2) — C(3)	1.571(9)
S(1) — C(1)	1.663(6)	C(3) — C(4)	1.33(1)
S(2) — C(1)	1.688(6)	C(4) — C(5)	1.522(9)
O(1) — C(1)	1.309(5)	C(4) — C(6)	1.51(1)

Table 3.VI.6: Bond angles (deg.) for [Ni($S_2COCH_2CH_2CH(CH_3)_2)_2$]

S(1) — Ni — S(1)*	180(-)	S(1) — C(1) — O(1)	126.3(4)
S(1) — Ni — S(2)	79.44(6)	S(2) — C(1) — O(1)	119.2(5)
S(1) — Ni — S(2)*	100.56(6)	O(1) — C(2) — C(3)	101.3(6)
S(2) — Ni — S(2)*	180(-)	C(2) — C(3) — C(4)	111.2(8)
Ni — S(1) — C(1)	83.4(2)	C(3) — C(4) — C(5)	116.1(8)
Ni — S(2) — C(1)	82.7(2)	C(3) — C(4) — C(6)	112.0(9)
C(1) — O(1) — C(2)	119.7(5)	C(5) — C(4) — C(6)	105.2(8)
S(1) — C(1) — S(2)	114.4(3)		

* atom related by a centre of symmetry

Table 3.VI.7: Observed and calculated structure factors for $[Ni(S_2COCH_2CH_2CH(CH_3)_2)_2]$

h	k	l	Fo	Fc	sigF2
0	0	1	406	448	99
0	0	2	150	142	57
0	0	3	59	54	23
0	0	4	246	230	99
0	0	5	154	133	76
0	0	6	21	18	28
0	0	7	-13	3	22
0	0	8	6	6	7
0	1	-8	17	7	9
0	1	-7	5	8	22
0	1	-6	11	19	26
0	1	-5	99	83	43
0	1	-4	110	115	43
0	1	-3	45	46	18
0	1	-2	15	8	11
0	1	-1	280	298	99
0	1	1	677	675	99
0	1	2	55	55	17
0	1	3	108	111	40
0	1	4	275	256	99
0	1	5	127	122	61
0	1	6	17	3	25
0	1	7	-13	4	21
0	2	-8	7	11	10
0	2	-7	20	22	22
0	2	-6	13	16	24
0	2	-5	-13	9	24
0	2	-4	71	58	27
0	2	-3	36	44	18
0	2	-2	101	96	30
0	2	-1	374	374	99
0	2	1	42	43	14
0	2	2	33	21	14
0	2	3	143	148	60
0	2	4	194	187	99
0	2	5	75	68	39
0	2	6	-12	7	27
0	2	7	-9	1	18
0	3	-8	12	16	9
0	3	-7	8	25	23
0	3	-6	22	13	22
0	3	-5	-17	8	22
0	3	-4	80	80	31
0	3	-3	168	167	73
0	3	-2	129	126	45
0	3	-1	49	44	14
0	3	0	191	203	87
0	3	1	25	9	14
0	3	2	43	38	19
0	3	3	85	92	35
0	3	4	89	89	43
0	3	5	22	25	32
0	3	6	-9	1	27
0	3	7	-8	6	14
0	4	-8	11	18	8
0	4	-7	11	15	18
0	4	-6	-13	6	22
0	4	-5	51	51	27
0	4	-4	164	166	74
0	4	-3	236	240	99
0	4	-2	71	71	23
0	4	-1	35	21	15
0	4	0	102	98	36
0	4	1	248	241	99
0	4	2	116	122	47
0	4	3	47	40	28
0	4	4	29	30	30
0	4	5	12	19	29
0	4	6	-7	8	27
0	4	7	-14	7	13
0	5	-8	5	16	7
0	5	-7	5	10	15
0	5	-6	-13	12	20
0	5	-5	35	42	22
0	5	-4	214	208	99
0	5	-3	182	182	87
0	5	-2	20	6	16
0	5	-1	26	27	18
0	5	0	274	268	99
0	5	1	295	285	99
0	5	2	91	88	41
0	5	3	15	6	28
0	5	4	21	21	32
0	5	5	32	33	36
0	5	6	28	15	24
0	6	-8	7	10	4
0	6	-7	6	10	13
0	6	-6	17	3	18
0	6	-5	33	36	26
0	6	-4	124	129	56
0	6	-3	117	109	51
0	6	-2	29	35	23
0	6	-1	-18	12	23
0	6	0	263	250	99
0	6	1	209	223	99
0	6	2	34	32	37
0	6	3	41	26	38
0	6	4	18	27	38
0	6	5	41	39	41
0	6	6	25	13	22
0	7	-7	11	13	12
0	7	-6	16	14	22
0	7	-5	44	35	30
0	7	-4	59	62	38
0	7	-3	61	66	36
0	7	-2	-12	4	28
0	7	-1	49	42	35
0	7	0	153	147	82
0	7	1	108	111	61
0	7	2	23	2	39
0	7	3	13	7	18
0	7	4	23	29	46
0	7	5	-18	29	41
0	7	6	-3	6	15
0	8	-7	-9	13	14
0	8	-6	-13	17	27
0	8	-5	23	19	32
0	8	-4	47	43	41
0	8	-3	52	53	42
0	8	-2	57	54	40
0	8	-1	50	53	41
0	8	0	71	76	49
0	8	1	64	55	49
0	8	2	17	5	47
0	8	3	-23	6	53
0	8	4	1	24	53
0	8	5	11	16	30
0	9	-7	1	10	13
0	9	-6	-9	10	28
0	9	-5	17	8	33
0	9	-4	26	29	40
0	9	-3	59	55	49
0	9	-2	60	53	49
0	9	-1	36	42	49
0	9	0	37	38	51
0	-2	0	73	62	17
0	9	1	23	35	53
0	9	2	-23	21	58
0	9	3	33	13	56
0	9	4	28	13	46
0	9	5	-14	7	22
0	10	-7	-7	5	11
0	10	-6	-9	2	26
0	10	-5	14	1	37
0	10	-4	-18	17	46
0	10	-3	46	42	49
0	10	-2	24	27	47
0	10	-1	19	9	49
0	10	0	20	20	54
0	10	1	13	29	63
0	10	2	31	21	61
0	10	3	-17	9	57
0	10	4	-17	5	39
0	11	-6	21	0	20
0	11	-5	-24	1	38
0	11	-4	-11	11	48
0	11	-3	11	21	53
0	11	-2	16	10	49
0	11	-1	23	6	53
0	11	0	-21	7	58
0	11	1	3	21	67
0	11	2	-14	13	65
0	11	3	17	2	50
0	11	4	-17	1	24
0	12	-6	10	2	14
0	12	-5	8	2	30
0	12	-4	-9	9	43
0	12	-3	21	12	48
0	12	-2	24	3	49
0	12	-1	-21	3	55
0	12	0	-40	5	61
0	12	1	25	12	58
0	12	2	24	6	55
0	12	3	28	0	29
0	13	-5	3	4	19
0	13	-4	18	6	30
0	13	-3	5	9	39
0	13	-2	-29	4	46
0	13	-1	-34	1	48
0	13	0	28	5	49
0	13	1	-37	6	50
0	13	2	6	2	32
0	14	-4	-11	4	19
0	14	-3	-12	6	28
0	14	-2	27	5	30
0	14	-1	-12	3	34
0	14	0	10	3	31
1	-14	0	3	3	19
1	-14	1	21	1	21
1	-14	2	4	0	23
1	-14	3	14	2	19
1	-13	-2	9	2	13
1	-13	-1	-11	5	29
1	-13	0	18	6	37
1	-13	1	-1	2	37
1	-13	2	13	1	37
1	-13	3	-3	4	34
1	-13	4	-12	4	23
1	-13	5	12	2	13
1	-12	-3	-8	2	12
1	-12	-2	1	4	29
1	-12	-1	28	8	46
1	-12	0	-17	10	52
1	-12	1	6	6	50
1	-12	2	-25	5	47
1	-12	3	-17	9	44
1	-12	4	16	9	31
1	-12	5	-3	3	23
1	-11	-3	13	6	26
1	-11	-2	11	5	45
1	-11	-1	-10	10	56
1	-11	0	25	16	53
1	-11	1	-22	15	56
1	-11	2	-22	14	47
1	-11	3	19	16	44
1	-11	4	-9	14	40
1	-11	5	-16	7	31
1	-11	6	-5	3	17
1	-10	-4	-8	10	19
1	-10	-3	-18	9	40
1	-10	-2	-19	1	55
1	-10	-1	23	11	58
1	-10	0	9	29	64
1	-10	1	21	27	54
1	-10	2	28	17	43
1	-10	3	-11	17	44
1	-10	4	18	18	42
1	-10	5	-10	12	37
1	-10	6	-6	6	25
1	-9	-5	-11	7	13
1	-9	-4	-8	18	32
1	-9	-3	12	10	40
1	-9	-2	-11	6	50
1	-9	-1	19	19	54
1	-9	0	64	60	68
1	-9	1	55	46	52
1	-9	2	-12	8	39
1	-9	3	-13	15	40
1	-9	4	29	26	39
1	-9	5	16	20	40
1	-9	6	23	8	27
1	-9	7	8	5	14
1	-8	-5	16	12	23
1	-8	-4	-22	24	40
1	-8	-3	15	8	41
1	-8	-2	24	8	46
1	-8	-1	42	45	57
1	-8	0	120	112	83
1	-8	1	78	72	54
1	-8	2	-19	3	35
1	-8	3	13	12	34
1	-8	4	56	53	44
1	-8	5	32	34	40
1	-8	6	-24	8	33
1	-8	7	-11	3	19
1	-7	-6	10	4	12
1	-7	-5	11	13	28
1	-7	-4	17	23	41
1	-7	-3	17	11	42
1	-7	-2	18	9	40
1	-7	-1	83	77	61
1	-7	0	123	138	77
1	-7	1	84	87	47
1	-7	2	17	12	26
1	-7	3	22	28	31
1	-7	4	95	82	55
1	-7	5	54	53	45
1	-7	6	-19	8	35
1	-7	7	-15	1	18
1	-6	-6	19	5	16
1	-6	-5	-13	7	32
1	-6	-4	22	22	36
1	-6	-3	29	31	42
1	-6	-2	47	35	39
1	-6	-1	88	78	51
1	-6	0	130	114	66
1	-6	1	52	57	32
1	-6	2	21	16	23
1	-6	3	77	79	39
1	-6	4	71	79	46
1	-6	5	57	52	39
1	-6	6	-22	10	30
1	-6	7	3	3	19
1	-5	-6	13	1	22
1	-5	-5	17	1	30
1	-5	-4	48	44	42
1	-5	-3	87	89	53
1	-5	-2	64	57	40
1	-5	-1	23	5	28
1	-5	0	59	58	31
1	-5	1	75	70	32
1	-5	2	46	36	25
1	-5	3	62	56	31
1	-5	4	70	72	37
1	-5	5	11	21	28
1	-5	6	5	8	25
1	-5	7	-9	9	19
1	-4	-7	-7	10	12
1	-4	-6	14	7	23
1	-4	-5	-17	6	28
1	-4	-4	110	107	58
1	-4	-3	181	170	98
1	-4	-2	69	66	35
1	-4	-1	22	6	21
1	-4	0	53	47	25
1	-4	1	189	201	91
1	-4	2	146	146	61
1	-4	3	-10	9	17
1	-4	4	44	39	25
1	-4	5	-15	26	27
1	-4	6	18	9	24
1	-4	7	9	9	19
1	-4	8	3	8	6
1	-3	-7	-19	7	16
1	-3	-6	-4	11	24
1	-3	-5	31	29	29
1	-3	-4	179	178	94
1	-3	-3	231	232	99
1	-3	-2	14	9	20
1	-3	-1	54	57	23
1	-3	0	500	518	99
1	-3	1	502	482	99
1	-3	2	118	116	41
1	-3	3	36	38	18
1	-3	4	34	37	23
1	-3	5	88	80	41
1	-3	6	29	31	26
1	-3	7	17	6	16
1	-3	8	-8	4	6
1	-2	-7	-13	5	17
1	-2	-6	-6	3	25
1	-2	-5	61	49	32
1	-2	-4	182	183	92
1	-2	-3	196	202	98
1	-2	-2	15	10	16
1	-2	-1	105	115	35
1	-2	0	876	875	99
1	-2	1	900	930	99
1	-2	2	193	179	89
1	-2	3	68	69	24
1	-2	4	113	114	45
1	-2	5	143	134	68
1	-2	6	58	53	32
1	-2	7	-15	3	18
1	-2	8	-4	1	6
1	-1	-7	-10	12	21
1	-1	-6	18	15	24
1	-1	-5	43	41	28
1	-1	-4	114	109	45
1	-1	-3	98	99	34
1	-1	-2	23	14	14
1	-1	-1	146	160	52
1	-1	0	247	218	99
1	-1	1	688	650	99
1	-1	2	232	238	99
1	-1	3	25	21	14
1	-1	4	149	138	65
1	-1	5	149	149	71
1	-1	6	50	45	28
1	-1	7	-10	2	17
1	0	-8	-7	7	9
1	0	-7	19	28	22
1	0	-6	32	35	27
1	0	-5	6	8	21
1	0	-4	27	18	17
1	0	-3	85	90	28
1	0	-2	79	72	22
1	0	-1	232	225	99
1	0	1	26	13	8
1	0	2	57	64	16
1	0	3	75	73	25
1	0	4	133	134	56
1	0	5	113	109	51
1	0	6	14	22	23
1	0	7	-8	3	16
1	1	-8	10	13	10
1	1	-7	35	39	24
1	1	-6	36	36	24
1	1	-5	-8	3	21
1	1	-4	28	30	19
1	1	-3	168	168	71
1	1	-2	332	337	99
1	1	-1	37	44	10
1	1	0	196	175	86
1	1	1	36	29	10
1	1	2	57	58	18
1	1	3	48	52	20
1	1	4	84	83	34
1	1	5	52	48	29
1	1	6	13	9	23
1	1	7	15	2	15
1	2	-8	13	19	10
1	2	-7	43	41	25
1	2	-6	-6	8	22
1	2	-5	-16	16	21
1	2	-4	162	155	71
1	2	-3	415	394	99
1	2	-2	235	220	99
1	2	-1	74	87	19
1	2	0	111	107	32
1	2	1	321	317	99
1	2	2	256	257	99
1	2	3	94	91	35
1	2	4	35	24	22
1	2	5	-9	20	24
1	2	6	6	14	25
1	2	7	-7	8	14
1	3	-8	11	19	10
1	3	-7	29	35	22
1	3	-6	-14	4	21
1	3	-5	40	36	23
1	3	-4	188	180	91
1	3	-3	478	460	99
1	3	-2	233	234	99
1	3	-1	157	163	60
1	3	0	124	124	40
1	3	1	474	473	99
1	3	2	301	308	99
1	3	3	42	40	22
1	3	4	15	9	22
1	3	5	33	33	27
1	3	6	21	29	26
1	3	7	10	10	13
1	4	-8	9	12	8
1	4	-7	23	25	18
1	4	-6	6	13	21
1	4	-5	23	9	21
1	4	-4	125	122	51
1	4	-3	266	260	99
1	4	-2	115	117	41
1	4	-1	171	161	73
1	4	0	205	210	99
1	4	1	415	417	99
1	4	2	241	227	99
1	4	3	18	22	23
1	4	4	23	18	26
1	4	5	39	46	31
1	4	6	34	35	28
1	4	7	6	6	9
1	5	-8	-10	5	7
1	5	-7	14	20	17
1	5	-6	15	31	24
1	5	-5	44	47	25
1	5	-4	92	86	37
1	5	-3	148	149	63
1	5	-2	36	41	20
1	5	-1	22	32	17
1	5	0	130	134	54
1	5	1	291	283	99
1	5	2	91	92	42
1	5	3	19	32	28
1	5	4	-22	4	28
1	5	5	32	45	35
1	5	6	12	25	24
1	6	-8	7	3	5
1	6	-7	15	21	15
1	6	-6	43	44	27
1	6	-5	27	36	25
1	6	-4	57	52	31
1	6	-3	95	91	39
1	6	-2	146	151	64
1	6	-1	117	119	49
1	6	0	97	93	45
1	6	1	121	126	57
1	6	2	57	56	39
1	6	3	23	3	30
1	6	4	31	23	34
1	6	5	26	33	35
1	6	6	-10	13	18
1	7	-7	24	21	16
1	7	-6	32	35	27
1	7	-5	20	16	28
1	7	-4	21	13	27
1	7	-3	95	91	44
1	7	-2	156	148	78
1	7	-1	130	133	61
1	7	0	88	83	48
1	7	1	39	52	38
1	7	2	52	57	48
1	7	3	31	35	45
1	7	4	18	23	40
1	7	5	21	16	28
1	7	6	-10	6	11
1	8	-7	10	17	16
1	8	-6	16	16	26
1	8	-5	-15	6	31
1	8	-4	23	4	31
1	8	-3	81	82	47
1	8	-2	101	114	57
1	8	-1	34	37	37
1	8	0	20	9	39
1	8	1	58	48	49
1	8	2	61	59	59
1	8	3	29	35	54
1	8	4	16	11	41
1	-10	-2	-19	1	55
1	-10	-1	23	11	58
1	-10	0	9	29	64
1	-10	1	21	27	54
1	-10	2	28	17	43
1	-10	3	-11	17	44
1	-10	4	18	18	42
1	-10	5	-10	12	37
1	-10	6	-6	6	25
1	-9	-5	-11	7	13
1	-9	-4	-8	18	32
1	-9	-3	12	10	40
1	-9	-2	-11	6	50
1	-9	-1	19	19	54
1	-9	0	64	60	68
1	-9	1	55	46	52
1	-9	2	-12	8	39
1	-9	3	-13	15	40
1	-9	4	29	26	39
1	-9	5	16	20	40
1	-9	6	23	8	27
1	-9	7	8	5	14
1	-8	-5	16	12	23
1	-8	-4	-22	24	40
1	-8	-3	15	8	41
1	-8	-2	24	8	46
1	-8	-1	42	45	57
1	-8	0	120	112	83
1	-8	1	78	72	54
1	-8	2	-19	3	35
1	-8	3	13	12	34
1	-8	4	56	53	44
1	-8	5	32	34	40
1	-8	6	-24	8	33
1	-8	7	-11	3	19
1	-7	-6	10	4	12
1	-7	-5	11	13	28
1	-7	-4	17	23	41
1	-7	-3	17	11	42
1	-7	-2	18	9	40
1	-7	-1	83	77	61
1	-7	0	123	138	77
1	-7	1	84	87	47
1	-7	2	17	12	26
1	-7	3	22	28	31
1	-7	4	95	82	55
1	-7	5	54	53	45
1	-7	6	-19	8	35
1	-7	7	-15	1	18
1	-6	-6	19	5	16
1	-6	-5	-13	7	32
1	-6	-4	22	22	36
1	-6	-3	29	31	42
1	-6	-2	47	35	39
1	-6	-1	88	78	51
1	-6	0	130	114	66
1	-6	1	52	57	32
1	-6	2	21	16	23
1	-6	3	77	79	39
1	-6	4	71	79	46
1	-6	5	57	52	39
1	-6	6	-22	10	30
1	-6	7	3	3	19
1	-5	-6	13	1	22
1	-5	-5	17	1	30
1	-5	-4	48	44	42
1	-5	-3	87	89	53
1	-5	-2	64	57	40
1	-5	-1	23	5	28
1	-5	0	59	58	31
1	-5	1	75	70	32
1	-5	2	46	36	25
1	-5	3	62	56	31
1	-5	4	70	72	37
1	-5	5	11	21	28
1	-5	6	5	8	25
1	-5	7	-9	9	19
1	-4	-7	-7	10	12
1	-4	-6	14	7	23
1	-4	-5	-17	6	28
1	-4	-4	110	107	58
1	-4	-3	181	170	98
1	-4	-2	69	66	35
1	-4	-1	22	6	21
1	-4	0	53	47	25
1	-4	1	189	201	91
1	-4	2	146	146	61
1	-4	3	-10	9	17
1	-4	4	44	39	25
1	-4	5	-15	26	27
1	-4	6	18	9	24
1	-4	7	9	9	19
1	-4	8	3	8	6
1	-3	-7	-19	7	16
1	-3	-6	-4	11	24
1	-3	-5	31	29	29
1	-3	-4	179	178	94
1	-3	-3	231	232	99
1	-3	-2	14	9	20
1	-3	-1	54	57	23
1	-3	0	500	518	99
1	-3	1	502	482	99
1	-3	2	118	116	41
1	-3	3	36	38	18
1	-3	4	34	37	23
1	-3	5	88	80	41
1	-3	6	29	31	26
1	-3	7	17	6	16
1	-3	8	-8	4	6
1	-2	-7	-13	5	17

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	14	-3	10	3	25	2	-8	-3	13	17	36	2	-4	-5	-22	5	29	2	-1	5	37	35	21	2	3	-3	170	165	74
1	14	-2	11	6	28	2	-8	-2	18	19	41	2	-4	-4	76	61	44	2	-1	6	-11	17	19	2	3	-2	128	129	45
1	14	-1	-17	5	30	2	-8	-1	-28	16	49	2	-4	-3	138	139	71	2	-1	7	-13	4	12	2	3	-1	30	32	13
1	14	0	18	1	26	2	-8	0	27	32	49	2	-4	-2	102	98	46	2	0	-7	33	40	23	2	3	0	83	87	25
2	-14	1	-12	2	15	2	-8	1	42	39	45	2	-4	-1	24	21	24	2	0	-6	52	50	30	2	3	1	303	305	99
2	-14	2	6	2	16	2	-8	2	10	18	37	2	-4	0	107	117	45	2	0	-5	-14	20	22	2	3	2	235	235	99
2	-13	-1	-9	2	18	2	-8	3	10	16	37	2	-4	1	394	378	99	2	0	-4	6	7	19	2	3	3	32	28	20
2	-13	0	16	4	26	2	-8	4	24	22	36	2	-4	2	292	285	99	2	0	-3	312	294	99	2	3	4	23	25	22
2	-13	1	-13	5	32	2	-8	5	29	20	37	2	-4	3	13	20	20	2	0	-2	375	389	99	2	3	5	21	23	23
2	-13	2	-13	4	31	2	-8	6	16	10	24	2	-4	4	14	23	20	2	0	-1	194	190	87	2	3	6	20	35	23
2	-13	3	9	3	27	2	-8	7	-10	3	12	2	-4	5	54	60	29	2	0	0	104	103	31	2	3	7	9	12	8
2	-13	4	-13	3	18	2	-7	-6	11	5	9	2	-4	6	43	47	26	2	0	1	157	152	63	2	4	-8	13	1	6
2	-12	-2	-2	2	19	2	-7	-5	-17	2	24	2	-4	7	4	12	12	2	0	2	271	274	99	2	4	-7	-6	12	16
2	-12	-1	-26	2	35	2	-7	-4	17	8	28	2	-3	-7	17	8	13	2	0	3	142	147	56	2	4	-6	60	60	28
2	-12	0	-24	6	43	2	-7	-3	34	39	43	2	-3	-6	-17	16	28	2	0	4	35	33	19	2	4	-5	77	81	33
2	-12	1	13	9	46	2	-7	-2	57	47	46	2	-3	-5	-7	18	27	2	0	5	12	13	19	2	4	-4	59	56	24
2	-12	2	-9	6	43	2	-7	-1	33	18	38	2	-3	-4	46	44	33	2	0	6	13	13	19	2	4	-3	68	70	25
2	-12	3	19	4	35	2	-7	0	18	11	36	2	-3	-3	112	86	49	2	0	7	-9	9	11	2	4	-2	203	202	99
2	-12	4	8	5	29	2	-7	1	45	39	37	2	-3	-2	39	50	24	2	1	-8	7	9	8	2	4	-1	281	278	99
2	-12	5	-7	4	18	2	-7	2	41	35	36	2	-3	-1	43	27	21	2	1	-7	28	39	24	2	4	0	146	157	56
2	-11	-3	-5	6	17	2	-7	3	3	14	34	2	-3	0	120	119	46	2	1	-6	42	40	26	2	4	1	86	83	31
2	-11	-2	13	2	33	2	-7	4	20	23	36	2	-3	1	245	252	99	2	1	-5	23	37	24	2	4	2	117	123	46
2	-11	-1	-12	1	45	2	-7	5	10	16	29	2	-3	2	219	230	99	2	1	-4	10	6	17	2	4	3	32	37	25
2	-11	0	22	11	50	2	-7	6	-15	6	24	2	-3	3	44	45	20	2	1	-3	363	361	99	2	4	4	-13	11	24
2	-11	1	-20	18	54	2	-7	7	13	3	12	2	-3	4	33	25	19	2	1	-2	559	559	99	2	4	5	33	32	26
2	-11	2	-23	9	47	2	-6	-6	16	4	14	2	-3	5	68	77	30	2	1	-1	44	45	12	2	4	6	25	23	20
2	-11	3	16	4	38	2	-6	-5	-14	6	28	2	-3	6	42	51	23	2	1	0	155	159	58	2	5	-8	2	3	6
2	-11	4	14	6	36	2	-6	-4	18	22	33	2	-3	7	16	11	11	2	1	1	248	243	99	2	5	-7	19	18	15
2	-11	5	-9	7	28	2	-6	-3	87	84	59	2	-2	-7	9	16	16	2	1	2	403	405	99	2	5	-6	60	65	29
2	-11	6	15	4	13	2	-6	-2	83	80	55	2	-2	-6	35	39	28	2	1	3	185	180	88	2	5	-5	65	64	31
2	-10	-4	19	7	12	2	-6	-1	25	22	34	2	-2	-5	30	26	25	2	1	4	12	7	18	2	5	-4	-11	8	19
2	-10	-3	-22	9	29	2	-6	0	-16	23	34	2	-2	-4	-5	4	24	2	1	5	-8	8	20	2	5	-3	32	29	19
2	-10	-2	-16	2	40	2	-6	1	73	80	41	2	-2	-3	41	45	22	2	1	6	23	27	20	2	5	-2	198	200	98
2	-10	-1	16	3	45	2	-6	2	90	93	46	2	-2	-2	125	107	49	2	1	7	6	15	11	2	5	-1	261	257	99
2	-10	0	-30	22	53	2	-6	3	23	31	33	2	-2	-1	69	78	24	2	2	-8	7	7	8	2	5	0	239	231	99
2	-10	1	45	31	51	2	-6	4	18	10	27	2	-2	0	103	103	33	2	2	-7	27	25	21	2	5	1	68	67	30
2	-10	2	5	15	47	2	-6	5	20	17	25	2	-2	1	123	122	44	2	2	-6	32	37	23	2	5	2	46	54	25
2	-10	3	8	2	44	2	-6	6	10	10	22	2	-2	2	11	21	13	2	2	-5	13	11	21	2	5	3	50	68	31
2	-10	4	22	10	35	2	-6	7	-6	4	13	2	-2	3	42	46	17	2	2	-4	50	43	22	2	5	4	34	40	28
2	-10	5	19	13	33	2	-5	-6	-17	2	21	2	-2	4	46	46	21	2	2	-3	200	205	98	2	5	5	-10	23	28
2	-10	6	-11	6	21	2	-5	-5	14	5	30	2	-2	5	70	68	30	2	2	-2	335	333	99	2	5	6	20	11	15
2	-9	-5	4	3	9	2	-5	-4	45	47	37	2	-2	6	27	35	20	2	2	-1	55	56	15	2	6	-7	-13	20	17
2	-9	-4	6	8	23	2	-5	-3	127	137	73	2	-2	7	8	6	10	2	2	0	18	6	11	2	6	-6	45	49	27
2	-9	-3	25	11	32	2	-5	-2	113	103	60	2	-1	-7	31	29	21	2	2	1	277	286	99	2	6	-5	27	21	24
2	-9	-2	19	6	42	2	-5	-1	19	9	25	2	-1	-6	47	54	31	2	2	2	371	367	99	2	6	-4	43	45	27
2	-9	-1	14	10	49	2	-5	0	107	94	50	2	-1	-5	16	18	24	2	2	3	99	97	38	2	6	-3	40	36	23
2	-9	0	41	33	50	2	-5	1	261	248	99	2	-1	-4	17	14	19	2	2	4	20	33	21	2	6	-2	199	200	99
2	-9	1	39	41	51	2	-5	2	154	161	76	2	-1	-3	68	84	28	2	2	5	-2	9	20	2	6	-1	169	169	81
2	-9	2	35	20	38	2	-5	3	46	56	28	2	-1	-2	278	268	99	2	2	6	34	39	24	2	6	0	22	14	26
2	-9	3	-15	7	37	2	-5	4	18	9	23	2	-1	-1	186	194	82	2	2	7	10	17	10	2	6	1	35	27	30
2	-9	4	28	15	38	2	-5	5	33	34	28	2	-1	0	54	54	16	2	3	-8	8	2	7	2	6	2	73	80	40
2	-9	5	24	20	37	2	-5	6	30	26	23	2	-1	1	19	13	13	2	3	-7	17	12	18	2	6	3	63	77	39
2	-9	6	11	10	26	2	-5	7	-6	8	13	2	-1	2	90	93	29	2	3	-6	36	41	26	2	6	4	32	33	29
2	-8	-5	-16	2	17	2	-4	-7	11	8	8	2	-1	3	27	24	15	2	3	-5	60	66	26	2	6	5	-10	7	22
2	-8	-4	18	6	29	2	-4	-6	17	4	20	2	-1	4	50	56	22	2	3	-4	77	86	30	2	6	6	-13	4	12
2	7	-7	12	19	15	2	11	0	25	26	56	3	-9	-3	8	8	24	3	-5	0	31	25	25	3	-1	-4	36	36	23
2	7	-6	35	37	30	2	11	1	-33	10	61	3	-9	-2	21	18	37	3	-5	1	69	69	37	3	-1	-3	66	74	28
2	7	-5	-5	5	27	2	11	2	-13	8	54	3	-9	-1	24	14	42	3	-5	2	88	92	39	3	-1	-2	342	336	99
2	7	-4	30	34	28	2	11	3	9	7	38	3	-9	0	30	6	40	3	-5	3	53	56	29	3	-1	-1	272	274	99
2	7	-3	45	39	32	2	12	-5	13	8	26	3	-9	1	-22	10	40	3	-5	4	20	12	21	3	-1	0	23	31	14
2	7	-2	144	149	71	2	12	-4	-13	2	34	3	-9	2	11	15	39	3	-5	5	14	19	21	3	-1	1	2	7	15
2	7	-1	82	88	42	2	12	-3	13	4	42	3	-9	3	-19	9	39	3	-5	6	24	23	16	3	-1	2	194	190	95
2	7	0	69	67	39	2	12	-2	17	13	44	3	-9	4	-7	5	35	3	-5	7	11	11	7	3	-1	3	200	200	99
2	7	1	51	43	39	2	12	-1	21	20	50	3	-9	5	13	5	26	3	-4	-6	23	20	20	3	-1	4	38	43	19
2	7	2	79	77	56	2	12	0	6	9	50	3	-9	6	-7	3	14	3	-4	-5	37	28	33	3	-1	5	22	4	14
2	7	3	65	66	48	2	12	1	-3	0	53	3	-8	-5	-4	1	11	3	-4	-4	5	8	29	3	-1	6	-7	11	13
2	7	4	15	10	30	2	12	2	21	3	43	3	-8	-4	-8	1	21	3	-4	-3	-10	6	29	3	-1	7	12	12	6
2	7	5	-14	4	22	2	13	-5	-12	4	16	3	-8	-3	-10	19	32	3	-4	-2	65	53	34	3	0	-7	-7	11	16
2	8	-7	14	13	15	2	13	-4	12	0	25	3	-8	-2	33	36	43	3	-4	-1	76	73	37	3	0	-6	31	33	24
2	8	-6	34	31	25	2	13	-3	25	1	31	3	-8	-1	-7	23	45	3	-4	0	53	39	25	3	0	-5	31	35	25
2	8	-5	20	22	31	2	13	-2	8	7	34	3	-8	0	14	8	41	3	-4	1	52	49	25	3	0	-4	15	16	21
2	8	-4	-9	4	31	2	13	-1	7	11	41	3	-8	1	28	20	37	3	-4	2	31	32	22	3	0	-3	82	79	30
2	8	-3	57	53	41	2	13	0	-13	2	41	3	-8	2	15	33	41	3	-4	3	-9	28	22	3	0	-2	227	234	99
2	8	-2	109	100	61	2	13	1	-7	2	35	3	-8	3	8	22	38	3	-4	4	16	18	20	3	0	-1	161	161	65
2	8	-1	15	27	36	2	14	-3	-18	2	20	3	-8	4	17	7	32	3	-4	5	16	21	21	3	0	0	33	27	13
2	8	0	37	31	37	2	14	-2	24	5	22	3	-8	5	9	5	25	3	-4	6	17	19	15	3	0	1	37	38	18
2	8	1	19	3	42	2	14	-1	-10	5	24	3	-8	6	16	5	15	3	-4	7	10	8	7	3	0	2	250	235	99
2	8	2	48	52	59	2	14	0	-18	1	22	3	-7	-5	12	0	18	3	-3	-7	4	7	10	3	0	3	149	149	64
2	8	3	20	36	49	3	-13	0	-16	1	16	3	-7	-4	13	3	25	3	-3	-6	28	34	27	3	0	4	26	27	18
2	8	4	7	2	30	3	-13	1	-15	3	19	3	-7	-3	17	34	38	3	-3	-5	37	37	31	3	0	5	10	12	17
2	8	5	10	5	16	3	-13	2	20	3	18	3	-7	-2	60	57	48	3	-3	-4	11	4	26	3	0	6	22	16	12
2	9	-7	-4	6	12	3	-13	3	11	2	15	3	-7	-1	32	28	40	3	-3	-3	-16	9	26	3	0	7	13	17	6
2	9	-6	6	21	28	3	-12	-2	3	2	10	3	-7	0	7	9	37	3	-3	-2	102	115	45	3	1	-7	-8	1	17
2	9	-5	34	40	38	3	-12	-1	-7	1	19	3	-7	1	55	54	41	3	-3	-1	172	167	82	3	1	-6	31	24	24
2	9	-4	39	35	39	3	-12	0	17	2	24	3	-7	2	75	73	48	3	-3	0	74	77	28	3	1	-5	70	69	32
2	9	-3	32	39	41	3	-12	1	18	6	29	3	-7	3	42	41	36	3	-3	1	11	5	16	3	1	-4	69	81	28
2	9	-2	68	67	48	3	-12	2	-12	6	29	3	-7	4	-9	11	28	3	-3	2	62	57	25	3	1	-3	108	102	38
2	9	-1	59	44	44	3	-12	3	-7	3	26	3	-7	5	-6	9	24	3	-3	3	40	30	21	3	1	-2	120	128	42
2	9	0	7	6	42	3	-12	4	10	2	17	3	-7	6	8	11	17	3	-3	4	30	32	20	3	1	-1	148	149	56
2	9	1	39	27	52	3	-11	-3	-5	3	9	3	-7	7	-6	6	6	3	-3	5	-15	17	19	3	1	0	27	29	13
2	9	2	34	38	66	3	-11	-2	-4	4	22	3	-6	-6	-8	6	10	3	-3	6	10	11	14	3	1	1	88	93	32
2	9	3	-33	16	54	3	-11	-1	-14	3	30	3	-6	-5	-18	3	25	3	-3	7	-5	5	7	3	1	2	205	198	99
2	9	4	-20	3	30	3	-11	0	-20	4	39	3	-6	-4	19	8	29	3	-2	-7	3	14	13	3	1	3	105	107	40
2	10	-6	16	14	24	3	-11	1	20	9	38	3	-6	-3	48	40	41	3	-2	-6	49	45	30	3	1	4	-15	2	16
2	10	-5	21	28	35	3	-11	2	-10	8	36	3	-6	-2	50	62	41	3	-2	-5	36	30	28	3	1	5	-4	2	16
2	10	-4	41	32	42	3	-11	3	20	4	32	3	-6	-1	37	29	34	3	-2	-4	30	28	27	3	1	6	20	20	13
2	10	-3	28	23	42	3	-11	4	20	3	25	3	-6	0	7	11	32	3	-2	-3	71	55	33	3	1	7	8	15	5
2	10	-2	25	35	45	3	-11	5	-7	4	17	3	-6	1	72	74	42	3	-2	-2	268	251	99	3	2	-7	4	5	15
2	10	-1	45	50	49	3	-10	-4	3	1	7	3	-6	2	129	118	67	3	-2	-1	252	244	99	3	2	-6	34	34	23
2	10	0	38	35	54	3	-10	-3	13	4	18	3	-6	3	55	55	34	3	-2	0	42	47	16	3	2	-5	101	99	43
2	10	1	-21	23	58	3	-10	-2	25	8	27	3	-6	4	-8	13	25	3	-2	1	9	12	16	3	2	-4	99	93	38
2	10	2	20	20	65	3	-10	-1	26	6	37	3	-6	5	12	15	23	3	-2	2	117	121	45	3	2	-3	33	38	17
2	10	3	-25	9	48	3	-10	0	-8	6	40	3	-6	6	16	19	18	3	-2	3	131	130	53	3	2	-2	108	103	36
2	10	4	-21	2	23	3	-10	1	-14	10	42	3	-6	7	8	10	6	3	-2	4	44	41	22	3	2	-1	240	235	99
2	11	-6	-8	10	21	3	-10	2	15	9	39	3	-5	-6	9	9	16	3	-2	5	19	11	15	3	2	0	285	283	99
2	11	-5	24	16	32	3	-10	3	-12	5	37	3	-5	-5	-5	13	27	3	-2	6	1	7	13	3	2	1	90	99	34
2	11	-4	-8	7	40	3	-10	4	-23	4	31	3	-5	-4	-26	12	31	3	-2	7	8	6	6	3	2	2	79	74	29
2	11	-3	-10	6	44	3	-10	5	8	4	24	3	-5	-3	41	29	37	3	-1	-7	22	17	16	3	2	3	78	77	31
2	11	-2	18	21	48	3	-10	6	5	3	11	3	-5	-2	48	48	39	3	-1	-6	42	44	28	3	2	4	22	23	20
2	11	-1	-8	34	54	3	-9	-4	12	0	14	3	-5	-1	24	30	23	3	-1	-5	32	21	24	3	2	5	16	18	18

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	2	6	17	20	14	3	6	5	6	8	17	3	11	0	18	19	45	4	-8	1	-14	10	36	4	-4	6	-11	4	10
3	3	-7	-12	3	16	3	7	-7	13	3	12	3	11	1	17	4	46	4	-8	2	30	24	34	4	-3	-6	18	17	19
3	3	-6	48	52	24	3	7	-6	11	12	21	3	11	2	23	4	46	4	-8	3	25	23	31	4	-3	-5	31	29	29
3	3	-5	106	110	44	3	7	-5	59	59	34	3	11	3	12	5	22	4	-8	4	6	10	24	4	-3	-4	12	7	25
3	3	-4	54	44	23	3	7	-4	96	91	46	3	12	-5	13	10	19	4	-8	5	-4	5	16	4	-3	-3	16	4	25
3	3	-3	42	46	19	3	7	-3	62	65	34	3	12	-4	18	9	31	4	-8	6	-7	5	7	4	-3	-2	81	82	36
3	3	-2	94	97	32	3	7	-2	54	64	33	3	12	-3	25	5	34	4	-7	-5	10	6	11	4	-3	-1	154	154	68
3	3	-1	257	249	99	3	7	-1	125	110	58	3	12	-2	-26	9	40	4	-7	-4	7	6	20	4	-3	0	81	74	31
3	3	0	295	293	99	3	7	0	42	40	32	3	12	-1	-14	15	39	4	-7	-3	10	5	25	4	-3	1	11	4	17
3	3	1	153	153	68	3	7	1	23	25	38	3	12	0	-7	10	40	4	-7	-2	15	14	32	4	-3	2	33	36	20
3	3	2	41	37	22	3	7	2	43	52	35	3	12	1	-11	1	41	4	-7	-1	18	19	33	4	-3	3	79	86	35
3	3	3	45	49	23	3	7	3	46	39	33	3	12	2	-27	0	32	4	-7	0	-13	12	33	4	-3	4	45	50	24
3	3	4	54	56	27	3	7	4	-17	7	24	3	13	-4	8	8	21	4	-7	1	23	12	32	4	-3	5	12	7	15
3	3	5	-16	27	22	3	7	5	4	4	14	3	13	-3	9	6	25	4	-7	2	9	21	32	4	-3	6	11	2	9
3	3	6	15	13	12	3	8	-7	-11	0	11	3	13	-2	26	6	28	4	-7	3	11	22	26	4	-2	-7	7	3	7
3	4	-7	-10	3	13	3	8	-6	6	6	22	3	13	-1	9	7	27	4	-7	4	20	11	24	4	-2	-6	-7	12	21
3	4	-6	53	54	27	3	8	-5	37	39	32	3	13	0	11	5	26	4	-7	5	4	5	16	4	-2	-5	31	28	28
3	4	-5	80	81	34	3	8	-4	79	72	44	3	13	1	-15	2	22	4	-7	6	-10	6	9	4	-2	-4	22	25	29
3	4	-4	18	15	21	3	8	-3	53	58	42	3	14	-2	7	2	14	4	-6	-5	10	13	18	4	-2	-3	35	21	21
3	4	-3	54	61	23	3	8	-2	30	36	34	4	-12	-1	8	2	9	4	-6	-4	19	11	26	4	-2	-2	75	80	28
3	4	-2	103	103	36	3	8	-1	45	63	40	4	-12	0	-11	1	14	4	-6	-3	-15	2	31	4	-2	-1	122	130	46
3	4	-1	303	303	99	3	8	0	92	87	58	4	-12	1	-17	1	16	4	-6	-2	3	11	31	4	-2	0	58	58	22
3	4	0	65	66	27	3	8	1	52	50	52	4	-12	2	5	2	15	4	-6	-1	43	31	34	4	-2	1	18	8	17
3	4	1	26	22	23	3	8	2	20	34	45	4	-12	3	7	2	12	4	-6	0	33	26	36	4	-2	2	69	64	29
3	4	2	40	46	24	3	8	3	-16	22	33	4	-11	-2	10	3	10	4	-6	1	19	14	28	4	-2	3	82	84	34
3	4	3	88	85	40	3	8	4	-6	7	22	4	-11	-1	1	5	18	4	-6	2	13	14	25	4	-2	4	40	47	22
3	4	4	56	57	31	3	8	5	-4	3	9	4	-11	0	-8	3	23	4	-6	3	-16	13	23	4	-2	5	13	4	13
3	4	5	14	17	20	3	9	-7	3	2	9	4	-11	1	16	2	24	4	-6	4	-13	10	23	4	-2	6	-6	2	8
3	4	6	-8	3	11	3	9	-6	-9	8	22	4	-11	2	-7	3	25	4	-6	5	-11	6	18	4	-1	-7	9	1	10
3	5	-7	-9	10	14	3	9	-5	30	36	37	4	-11	3	6	3	19	4	-6	6	12	5	10	4	-1	-6	-17	3	20
3	5	-6	52	49	26	3	9	-4	23	28	37	4	-11	4	-7	2	14	4	-5	-6	14	9	10	4	-1	-5	46	35	28
3	5	-5	53	48	27	3	9	-3	11	2	37	4	-10	-3	-9	2	10	4	-5	-5	28	22	24	4	-1	-4	55	65	29
3	5	-4	38	38	22	3	9	-2	18	10	38	4	-10	-2	15	7	20	4	-5	-4	7	13	28	4	-1	-3	59	55	25
3	5	-3	37	38	22	3	9	-1	53	49	44	4	-10	-1	9	9	28	4	-5	-3	-9	3	27	4	-1	-2	57	57	22
3	5	-2	144	147	59	3	9	0	61	66	52	4	-10	0	-10	5	29	4	-5	-2	17	23	29	4	-1	-1	99	97	34
3	5	-1	195	200	96	3	9	1	37	35	53	4	-10	1	19	4	30	4	-5	-1	57	65	37	4	-1	0	76	76	26
3	5	0	40	39	23	3	9	2	-5	9	51	4	-10	2	12	7	29	4	-5	0	61	56	35	4	-1	1	42	40	20
3	5	1	128	128	59	3	9	3	-16	10	33	4	-10	3	12	7	26	4	-5	1	16	16	23	4	-1	2	67	63	28
3	5	2	20	4	23	3	9	4	17	10	17	4	-10	4	-3	4	20	4	-5	2	24	15	22	4	-1	3	88	83	35
3	5	3	97	96	48	3	10	-6	-11	8	20	4	-10	5	-13	2	11	4	-5	3	20	18	22	4	-1	4	25	28	19
3	5	4	44	44	31	3	10	-5	21	26	33	4	-9	-4	-9	1	8	4	-5	4	23	15	21	4	-1	5	-8	4	14
3	5	5	11	1	19	3	10	-4	27	15	38	4	-9	-3	-12	4	16	4	-5	5	7	8	16	4	-1	6	4	6	8
3	5	6	-10	2	9	3	10	-3	35	20	39	4	-9	-2	-16	13	28	4	-5	6	-9	4	10	4	0	-7	-5	5	12
3	6	-7	-3	9	14	3	10	-2	22	7	40	4	-9	-1	4	15	34	4	-4	-6	7	15	16	4	0	-6	-4	1	20
3	6	-6	32	35	22	3	10	-1	37	40	53	4	-9	0	-24	7	35	4	-4	-5	28	28	27	4	0	-5	52	54	29
3	6	-5	65	62	32	3	10	0	17	37	52	4	-9	1	11	7	35	4	-4	-4	18	8	26	4	0	-4	103	95	41
3	6	-4	23	18	24	3	10	1	-6	7	52	4	-9	2	13	16	35	4	-4	-3	5	7	27	4	0	-3	45	54	21
3	6	-3	22	6	20	3	10	2	-38	4	57	4	-9	3	-16	15	32	4	-4	-2	64	57	36	4	0	-2	21	24	15
3	6	-2	142	133	61	3	10	3	19	6	33	4	-9	4	5	7	24	4	-4	-1	120	120	54	4	0	-1	86	91	28
3	6	-1	128	129	54	3	11	-6	-9	7	14	4	-9	5	-6	3	13	4	-4	0	69	77	32	4	0	0	177	172	80
3	6	0	-16	4	21	3	11	-5	23	15	28	4	-8	-4	-13	2	14	4	-4	1	-16	13	20	4	0	1	132	129	53
3	6	1	36	37	33	3	11	-4	-15	10	38	4	-8	-3	-11	6	23	4	-4	2	18	23	21	4	0	2	50	46	24
3	6	2	31	24	29	3	11	-3	-15	5	42	4	-8	-2	10	16	32	4	-4	3	49	54	27	4	0	3	41	46	23
3	6	3	55	62	38	3	11	-2	21	2	43	4	-8	-1	20	18	34	4	-4	4	34	31	22	4	0	4	30	33	19
3	6	4	17	22	27	3	11	-1	6	26	48	4	-8	0	20	9	32	4	-4	5	5	9	16	4	0	5	17	14	14
4	0	6	-7	11	8	4	4	5	-12	5	15	4	9	-1	17	19	38	5	-8	-1	-12	6	29	5	-3	-3	34	33	24
4	1	-7	10	9	11	4	5	-7	12	11	10	4	9	0	48	46	48	5	-8	0	26	9	28	5	-3	-2	29	21	20
4	1	-6	20	9	18	4	5	-6	-7	3	17	4	9	1	-7	12	42	5	-8	1	7	6	29	5	-3	-1	29	29	19
4	1	-5	78	78	33	4	5	-5	28	29	23	4	9	2	21	11	28	5	-8	2	-16	3	24	5	-3	0	44	45	22
4	1	-4	89	91	35	4	5	-4	104	108	44	4	9	3	-19	1	20	5	-8	3	19	4	17	5	-3	1	33	36	21
4	1	-3	6	7	15	4	5	-3	141	132	61	4	10	-6	-7	5	12	5	-8	4	-10	3	15	5	-3	2	11	20	20
4	1	-2	9	16	15	4	5	-2	50	54	24	4	10	-5	-5	11	24	5	-8	5	8	2	7	5	-3	3	32	26	20
4	1	-1	126	129	46	4	5	-1	86	85	36	4	10	-4	22	19	33	5	-7	-4	-6	8	14	5	-3	4	17	20	17
4	1	0	208	205	99	4	5	0	95	90	42	4	10	-3	10	14	37	5	-7	-3	6	3	19	5	-3	5	10	8	11
4	1	1	140	136	58	4	5	1	53	46	31	4	10	-2	-29	12	45	5	-7	-2	7	2	25	5	-3	6	-3	3	4
4	1	2	64	61	27	4	5	2	45	45	31	4	10	-1	19	23	43	5	-7	-1	-5	13	30	5	-2	-6	11	4	12
4	1	3	5	17	20	4	5	3	54	47	35	4	10	0	21	26	50	5	-7	0	14	19	32	5	-2	-5	-17	10	21
4	1	4	36	39	22	4	5	4	26	21	25	4	10	1	-16	8	39	5	-7	1	11	11	26	5	-2	-4	49	44	26
4	1	5	20	26	16	4	5	5	-11	1	14	4	10	2	-22	4	37	5	-7	2	-11	5	24	5	-2	-3	44	48	22
4	1	6	-8	11	8	4	6	-7	12	7	9	4	10	3	10	3	14	5	-7	3	-5	5	19	5	-2	-2	12	16	16
4	2	-7	-11	7	12	4	6	-6	-8	8	18	4	11	-5	14	4	19	5	-7	4	8	5	15	5	-2	-1	14	19	16
4	2	-6	17	18	18	4	6	-5	22	16	21	4	11	-4	17	15	30	5	-7	5	-11	3	9	5	-2	0	60	58	24
4	2	-5	83	81	33	4	6	-4	78	80	38	4	11	-3	16	19	38	5	-6	-5	13	8	9	5	-2	1	77	70	31
4	2	-4	54	62	24	4	6	-3	103	104	45	4	11	-2	24	12	39	5	-6	-4	9	10	18	5	-2	2	41	40	22
4	2	-3	51	50	20	4	6	-2	70	70	32	4	11	-1	30	12	39	5	-6	-3	-19	2	25	5	-2	3	-8	19	19
4	2	-2	43	38	17	4	6	-1	19	30	23	4	11	0	14	11	36	5	-6	-2	-17	5	28	5	-2	4	17	17	16
4	2	-1	178	180	80	4	6	0	96	93	47	4	11	1	-8	7	32	5	-6	-1	34	27	33	5	-2	5	14	11	10
4	2	0	187	182	88	4	6	1	86	88	48	4	11	2	9	4	30	5	-6	0	35	34	29	5	-2	6	-4	5	4
4	2	1	19	15	19	4	6	2	47	48	39	4	12	-4	-19	11	24	5	-6	1	-7	16	24	5	-1	-6	11	6	14
4	2	2	17	16	22	4	6	3	37	30	32	4	12	-3	-4	16	31	5	-6	2	-14	6	22	5	-1	-5	-2	20	21
4	2	3	53	49	25	4	6	4	15	14	23	4	12	-2	12	6	33	5	-6	3	-18	12	21	5	-1	-4	58	59	28
4	2	4	45	49	25	4	6	5	14	5	11	4	12	-1	-18	2	31	5	-6	4	27	12	15	5	-1	-3	43	38	23
4	2	5	21	25	15	4	7	-7	-10	1	8	4	12	0	15	6	24	5	-6	5	-15	5	11	5	-1	-2	14	13	16
4	2	6	8	5	7	4	7	-6	-6	4	19	4	12	1	8	7	22	5	-5	-5	7	10	15	5	-1	-1	18	19	13
4	3	-7	-14	3	11	4	7	-5	33	33	26	4	13	-1	11	9	16	5	-5	-4	21	12	22	5	-1	0	88	88	32
4	3	-6	18	25	18	4	7	-4	72	64	37	4	13	-2	11	3	18	5	-5	-3	5	4	24	5	-1	1	75	78	31
4	3	-5	71	68	31	4	7	-3	14	17	26	4	13	-1	-13	1	17	5	-5	-2	-15	9	28	5	-1	2	39	43	25
4	3	-4	40	33	21	4	7	-2	4	21	26	5	-11	-1	-6	3	7	5	-5	-1	39	39	29	5	-1	3	24	13	18
4	3	-3	57	55	24	4	7	-1	25	27	27	5	-11	0	13	3	11	5	-5	0	53	44	28	5	-1	4	20	15	15
4	3	-2	31	32	18	4	7	0	80	82	43	5	-11	1	0	2	13	5	-5	1	22	16	21	5	-1	5	17	15	10
4	3	-1	166	166	73	4	7	1	76	77	49	5	-11	2	1	2	11	5	-5	2	-16	6	21	5	-1	6	4	8	3
4	3	0	147	151	61	4	7	2	23	23	35	5	-11	3	6	3	8	5	-5	3	3	19	19	5	0	-6	12	2	13
4	3	1	46	43	23	4	7	3	24	5	29	5	-10	-2	5	2	9	5	-5	4	18	20	17	5	0	-5	28	29	19
4	3	2	71	76	35	4	7	4	-6	11	20	5	-10	-1	5	4	16	5	-5	5	10	9	19	5	0	-4	64	63	26
4	3	3	42	42	26	4	8	-6	9	3	17	5	-10	0	-18	4	19	5	-5	6	-6	1	4	5	0	-3	20	19	17
4	3	4	65	58	30	4	8	-5	21	32	28	5	-10	1	6	2	19	5	-4	-5	-15	9	19	5	0	-2	34	39	17
4	3	5	-7	14	16	4	8	-4	60	55	35	5	-10	2	-23	3	19	5	-4	-4	17	17	26	5	0	-1	24	23	14
4	3	6	-15	2	7	4	8	-3	21	4	29	5	-10	3	3	4	14	5	-4	-3	31	13	25	5	0	0	109	110	41
4	4	-7	16	11	10	4	8	-2	54	51	37	5	-10	4	-1	3	8	5	-4	-2	24	16	22	5	0	1	69	69	28
4	4	-6	20	17	17	4	8	-1	25	13	30	5	-9	-3	-10	2	9	5	-4	-1	39	39	23	5	0	2	18	11	19
4	4	-5	56	57	26	4	8	0	65	66	41	5	-9	-2	12	2	15	5	-4	0	50	45	25	5	0	3	-16	8	19
4	4	-4	75	71	31	4	8	1	38	38	43	5	-9	-1	-3	5	22	5	-4	1	17	17	20	5	0	4	28	22	17
4	4	-3	20	11	19	4	8	2	7	3	34	5	-9	0	15	5	26	5	-4	2	-19	11	21	5	0	5	11	17	11
4	4	-2	59	48	21	4	8	3	-9	4	26	5	-9	1	8	3	24	5	-4	3	26	23	29	5	0	6	2	6	3
4	4	-1	169	160	77	4	8	4	6	9	15	5	-9	2	7	3	22	5	-4	4	20	23	28	5	1	-6	-16	6	14
4	4	0	96	95	39	4	9	-6	-10	2	16	5	-9	3	-9	4	17	5	-4	5	3	9	10	5	1	-5	28	31	19
4	4	1	15	11	23	4	9	-5	-11	19	27	5	-9	4	4	4	12	5	-4	6	-5	2	4	5	1	-4	61	56	25
4	4	2	17	11	23	4	9	-4	24	32	36	5	-8	-4	6	5	7	5	-3	-6	-10	1	11	5	1	-3	-1	13	17
4	4	3	35	35	28	4	9	-3	9	8	36	5	-8	-3	7	3	15	5	-3	-5	-12	7	22	5	1	-2	19	19	15
4	4	4	37	39	27	4	9	-2	23	9	34	5	-8	-2	-11	2	22	5	-3	-4	28	28	28	5	1	-1	51	50	19

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	1	0	111	108	42	5	5	4	-6	5	17	5	11	0	-12	1	27	6	-4	4	15	6	9	6	1	1	39	38	19
5	1	1	48	49	24	5	5	5	-8	8	6	5	11	1	-8	9	18	6	-4	5	-1	5	4	6	1	2	28	28	20
5	1	2	32	32	22	5	6	-6	5	10	12	5	12	-3	-5	14	19	6	-3	-5	-3	0	11	6	1	3	10	21	18
5	1	3	-18	12	21	5	6	-5	11	8	19	5	12	-2	-23	6	22	6	-3	-4	12	16	17	6	1	4	8	13	11
5	1	4	29	28	18	5	6	-4	59	63	28	5	12	-1	-15	0	20	6	-3	-3	29	25	19	6	1	5	7	6	4
5	1	5	21	17	10	5	6	-3	58	60	29	6	-10	0	9	2	7	6	-3	-2	-7	8	16	6	2	-6	8	9	6
5	2	-7	9	14	5	5	6	-2	40	32	24	6	-10	1	9	2	8	6	-3	-1	-8	2	15	6	2	-5	5	7	11
5	2	-6	13	10	12	5	6	-1	43	45	30	6	-9	-2	-5	1	5	6	-3	0	23	18	15	6	2	-4	-5	3	13
5	2	-5	13	19	17	5	6	0	39	38	31	6	-9	-1	-12	2	11	6	-3	1	33	29	18	6	2	-3	48	47	20
5	2	-4	51	56	24	5	6	1	63	61	41	6	-9	0	15	4	13	6	-3	2	8	19	18	6	2	-2	66	65	23
5	2	-3	66	56	25	5	6	2	21	18	30	6	-9	1	-6	3	13	6	-3	3	18	8	13	6	2	-1	38	35	16
5	2	-2	21	23	16	5	6	3	-6	6	25	6	-9	2	-9	2	11	6	-3	4	-5	5	9	6	2	0	14	14	15
5	2	-1	67	67	24	5	6	4	8	1	15	6	-9	3	9	1	6	6	-3	5	10	5	4	6	2	1	30	32	20
5	2	0	103	101	38	5	7	-6	-12	3	12	6	-8	-2	-9	1	11	6	-2	-5	9	3	11	6	2	2	44	42	24
5	2	1	41	38	23	5	7	-5	6	6	18	6	-8	-1	10	3	16	6	-2	-4	18	21	16	6	2	3	16	23	19
5	2	2	-5	3	21	5	7	-4	42	35	28	6	-8	0	13	7	19	6	-2	-3	27	27	17	6	2	4	10	12	11
5	2	3	-13	4	21	5	7	-3	31	37	29	6	-8	1	6	6	16	6	-2	-2	15	2	13	6	3	-6	-7	3	6
5	2	4	26	23	18	5	7	-2	-8	7	24	6	-8	2	-5	3	13	6	-2	-1	14	7	14	6	3	-5	7	8	11
5	2	5	11	13	10	5	7	-1	8	4	27	6	-8	3	10	2	10	6	-2	0	13	24	15	6	3	-4	20	16	13
5	3	-7	6	18	6	5	7	0	49	40	40	6	-7	-3	-10	4	12	6	-2	1	40	38	19	6	3	-3	61	54	24
5	3	-6	-13	5	14	5	7	1	39	38	39	6	-7	-2	13	2	17	6	-2	2	19	11	15	6	3	-2	38	30	17
5	3	-5	18	3	15	5	7	2	-11	2	30	6	-7	-1	10	5	22	6	-2	3	7	1	13	6	3	-1	10	15	16
5	3	-4	45	49	22	5	7	3	-18	9	23	6	-7	0	9	10	21	6	-2	4	8	5	10	6	3	0	6	3	16
5	3	-3	118	118	47	5	7	4	7	4	11	6	-7	1	-7	9	20	6	-2	5	7	7	4	6	3	1	41	37	23
5	3	-2	97	92	37	5	8	-6	17	15	11	6	-7	2	-8	4	15	6	-1	-6	-6	4	6	6	3	2	46	42	26
5	3	-1	44	45	20	5	8	-5	13	9	19	6	-7	3	8	3	11	6	-1	-5	-14	6	12	6	3	3	15	15	17
5	3	0	60	61	25	5	8	-4	13	16	27	6	-7	4	12	4	6	6	-1	-4	23	22	15	6	3	4	8	2	11
5	3	1	70	64	32	5	8	-3	38	24	30	6	-6	-4	-5	5	9	6	-1	-3	29	29	16	6	4	-6	4	2	6
5	3	2	44	36	27	5	8	-2	30	19	29	6	-6	-3	10	7	16	6	-1	-2	-14	7	14	6	4	-5	11	7	10
5	3	3	34	35	25	5	8	-1	24	25	30	6	-6	-2	7	5	21	6	-1	-1	-10	4	14	6	4	-4	21	24	15
5	3	4	10	21	20	5	8	0	32	32	39	6	-6	-1	-5	7	20	6	-1	0	37	32	16	6	4	-3	54	60	23
5	3	5	-6	8	9	5	8	1	25	24	39	6	-6	0	19	12	18	6	-1	1	35	38	19	6	4	-2	22	24	19
5	4	-7	9	16	6	5	8	2	-22	2	30	6	-6	1	6	11	19	6	-1	2	-10	9	16	6	4	-1	25	33	20
5	4	-6	3	2	12	5	8	3	-19	2	20	6	-6	2	-10	6	16	6	-1	3	-8	8	16	6	4	0	13	11	17
5	4	-5	9	10	16	5	9	-5	-15	2	19	6	-6	3	-11	5	14	6	-1	4	11	4	11	6	4	1	39	39	25
5	4	-4	50	40	24	5	9	-4	-10	10	26	6	-6	4	9	6	8	6	-1	5	7	8	5	6	4	2	27	28	25
5	4	-3	92	95	36	5	9	-3	31	30	32	6	-5	-4	-18	6	14	6	0	-6	12	10	6	6	4	3	-4	4	17
5	4	-2	89	92	35	5	9	-2	38	27	32	6	-5	-3	-13	12	21	6	0	-5	17	6	11	6	4	4	-16	3	10
5	4	-1	29	30	20	5	9	-1	17	17	33	6	-5	-2	13	10	19	6	0	-4	20	16	14	6	5	-6	12	12	6
5	4	0	37	40	23	5	9	0	10	13	32	6	-5	-1	13	7	18	6	0	-3	40	38	18	6	5	-5	-12	3	11
5	4	1	73	77	35	5	9	1	3	11	39	6	-5	0	16	12	18	6	0	-2	37	33	16	6	5	-4	22	13	16
5	4	2	63	57	35	5	9	2	-2	8	25	6	-5	1	10	15	17	6	0	-1	14	23	13	6	5	-3	34	37	21
5	4	3	26	29	25	5	9	3	9	5	13	6	-5	2	8	10	16	6	0	0	33	39	18	6	5	-2	24	30	20
5	4	4	19	16	17	5	10	-5	7	4	15	6	-5	3	-8	7	14	6	0	1	39	36	20	6	5	-1	-15	2	20
5	4	5	14	7	7	5	10	-4	-7	4	26	6	-5	4	7	6	9	6	0	2	21	16	16	6	5	0	29	12	21
5	5	-6	-6	8	12	5	10	-3	24	27	32	6	-5	5	4	4	4	6	0	3	-4	3	15	6	5	1	30	33	25
5	5	-5	13	5	17	5	10	-2	36	26	34	6	-4	-5	14	0	8	6	0	4	6	6	12	6	5	2	19	15	23
5	5	-4	60	58	27	5	10	-1	-14	3	32	6	-4	-4	12	9	16	6	0	5	2	8	4	6	5	3	-19	5	17
5	5	-3	71	61	32	5	10	0	15	2	26	6	-4	-3	20	19	19	6	1	-6	7	12	6	6	5	4	3	1	7
5	5	-2	-8	13	22	5	10	1	11	8	24	6	-4	-2	8	13	19	6	1	-5	7	1	11	6	6	-5	18	16	12
5	5	-1	17	16	23	5	10	2	14	9	17	6	-4	-1	13	5	16	6	1	-4	-10	6	13	6	6	-4	17	7	15
5	5	0	45	46	28	5	11	-4	21	7	18	6	-4	0	-9	12	18	6	1	-3	41	47	18	6	6	-3	25	16	20
5	5	1	82	79	40	5	11	-3	-12	19	29	6	-4	1	23	21	16	6	1	-2	71	68	25	6	6	-2	29	23	23
5	5	2	50	47	34	5	11	-2	22	15	30	6	-4	2	18	18	19	6	1	-1	41	41	18	6	6	-1	29	25	24
5	5	3	5	6	24	5	11	-1	-24	1	29	6	-4	3	-7	9	13	6	1	0	19	25	16	6	6	0	31	26	25

6	6	1	25	24	24	7	-4	2	-5	7	9	7	2	2	14	16	12	8	-2	1	-5	3	4
6	6	2	13	13	23	7	-4	3	4	2	6	7	2	3	-8	7	9	8	-2	2	8	4	3
6	6	3	13	1	14	7	-3	-4	-8	4	7	7	3	-5	8	9	5	8	-1	-3	2	2	3
6	7	-5	14	9	11	7	-3	-3	-6	10	10	7	3	-4	-5	4	8	8	-1	-2	5	8	4
6	7	-4	-15	2	17	7	-3	-2	8	10	10	7	3	-3	18	15	10	8	-1	-1	-4	8	5
6	7	-3	11	20	20	7	-3	-1	-10	4	11	7	3	-2	16	24	12	8	-1	0	4	2	5
6	7	-2	45	35	27	7	-3	0	-12	5	11	7	3	-1	10	12	12	8	-1	1	7	1	4
6	7	-1	18	24	26	7	-3	1	-14	11	12	7	3	0	-1	3	13	8	-1	2	-5	4	3
6	7	0	-16	13	28	7	-3	2	-5	9	9	7	3	1	-7	11	14	8	0	-3	-7	3	3
6	7	1	-8	10	24	7	-3	3	-9	2	7	7	3	2	9	15	14	8	0	-2	8	10	4
6	7	2	-5	9	19	7	-3	4	2	0	3	7	3	3	-8	3	8	8	0	-1	4	8	5
6	7	3	12	8	11	7	-2	-4	8	3	6	7	4	-5	12	17	5	8	0	0	-9	0	5
6	8	-5	3	1	9	7	-2	-3	9	10	9	7	4	-4	-10	8	8	8	0	1	2	0	5
6	8	-4	16	9	16	7	-2	-2	19	17	10	7	4	-3	10	5	10	8	0	2	7	4	3
6	8	-3	25	16	20	7	-2	-1	10	13	11	7	4	-2	-6	15	13	8	1	-3	-4	4	3
6	8	-2	45	42	27	7	-2	0	15	11	10	7	4	-1	23	20	14	8	1	-2	12	9	4
6	8	-1	22	21	28	7	-2	1	15	13	11	7	4	0	17	17	13	8	1	-1	6	10	5
6	8	0	17	2	25	7	-2	2	14	11	10	7	4	1	18	14	13	8	1	0	9	4	6
6	8	1	-21	2	26	7	-2	3	6	5	7	7	4	2	8	11	12	8	1	1	8	2	5
6	8	2	9	9	16	7	-2	4	-7	2	3	7	4	3	10	4	7	8	1	2	-3	5	3
6	9	-4	-6	2	14	7	-1	-4	5	0	7	7	5	-5	10	15	4	8	2	-3	-2	3	3
6	9	-3	-15	14	21	7	-1	-3	-8	9	9	7	5	-4	12	4	7	8	2	-2	5	5	4
6	9	-2	27	25	26	7	-1	-2	28	25	11	7	5	-3	-4	3	10	8	2	-1	10	11	5
6	9	-1	15	13	24	7	-1	-1	23	24	13	7	5	-2	24	20	13	8	2	0	7	10	6
6	9	0	16	4	23	7	-1	0	3	13	11	7	5	-1	21	26	17	8	2	1	9	6	5
6	9	1	-20	3	22	7	-1	1	9	12	11	7	5	0	13	14	16	8	3	-3	-1	1	3
6	10	-3	12	18	18	7	-1	2	11	14	10	7	5	1	10	7	14	8	3	-2	9	4	4
6	10	-2	21	16	21	7	-1	3	-10	10	8	7	5	2	5	5	11	8	3	-1	11	13	6
6	10	-1	10	2	19	7	-1	4	6	6	4	7	6	-4	11	6	7	8	3	0	11	12	6
6	10	0	14	0	15	7	0	-5	-4	2	4	7	6	-3	9	3	10	8	3	1	5	6	5
7	-8	0	9	2	6	7	0	-4	-11	3	8	7	6	-2	25	25	15	8	4	-3	-6	3	3
7	-8	1	5	3	5	7	0	-3	7	10	10	7	6	-1	28	32	18	8	4	-2	1	5	5
7	-7	-1	14	2	8	7	0	-2	29	27	12	7	6	0	10	9	15	8	4	-1	7	16	6
7	-7	0	7	2	8	7	0	-1	20	23	11	7	6	1	-9	2	13	8	4	0	13	13	6
7	-7	1	-14	3	8	7	0	0	12	9	11	7	6	2	-12	4	9	8	4	1	1	2	4
7	-7	2	7	3	5	7	0	1	14	8	11	7	7	-4	7	1	7	8	5	-2	8	6	5
7	-6	-2	-12	5	9	7	0	2	20	16	12	7	7	-3	9	2	11	8	5	-1	10	14	6
7	-6	-1	15	3	10	7	0	3	15	13	8	7	7	-2	18	18	15	8	5	0	10	10	5
7	-6	0	12	2	9	7	0	4	-4	7	4	7	7	-1	20	21	17						
7	-6	1	3	4	10	7	1	-5	-6	0	4	7	7	0	14	6	13						
7	-6	2	-4	5	8	7	1	-4	9	2	7	7	7	1	-6	2	11						
7	-6	3	8	3	4	7	1	-3	17	16	10	7	8	-3	16	13	9						
7	-5	-3	-12	6	8	7	1	-2	29	27	12	7	8	-2	17	19	13						
7	-5	-2	-9	6	11	7	1	-1	9	9	11	7	8	-1	-13	9	14						
7	-5	-1	-12	2	11	7	1	0	16	4	10	7	8	0	12	0	11						
7	-5	0	-7	2	10	7	1	1	12	7	12	8	-4	-1	7	5	4						
7	-5	1	5	6	9	7	1	2	11	17	13	8	-4	0	-4	4	4						
7	-5	2	6	6	9	7	1	3	13	12	8	8	-4	1	-5	3	3						
7	-5	3	-6	3	5	7	2	-5	-3	1	5	8	-3	-2	1	5	3						
7	-4	-4	9	3	5	7	2	-4	13	1	7	8	-3	-1	10	8	4						
7	-4	-3	15	8	8	7	2	-3	19	21	10	8	-3	0	9	6	4						
7	-4	-2	-4	7	11	7	2	-2	25	28	12	8	-3	1	-4	4	3						
7	-4	-1	8	1	10	7	2	-1	16	3	10	8	-2	-2	-1	6	4						
7	-4	0	-9	2	10	7	2	0	-6	12	13	8	-2	-1	3	9	5						
7	-4	1	3	9	10	7	2	1	-11	8	13	8	-2	0	8	5	4						

APPENDIX 3.VII

$[Ni(S_2CO\text{-}3,3\text{-}Me_2Bu)_2]$

Table 3.VII.1: Crystallographic Parameters for $[Ni(S_2COCH_2CH_2C(CH_3)_3)_2]$

Formula	$C_{14}H_{26}NiO_2S_4$
Formula weight	413.30
Crystal morphology / colour	plate / brown
Crystal dimensions (mm)	0.05 x 0.15 x 0.24
Crystal system	triclinic
Space group	$P\bar{1}$ (#2)
a (Å)	6.653(2)
b (Å)	12.173(4)
c (Å)	6.156(1)
α (°)	98.52(2)
β (°)	94.55(1)
γ (°)	91.17(3)
V (Å^3)	491.2(2)
Z	1
$\rho_{calc.}$ (g cm^{-3})	1.397
$F(000)$	218
Temperature (°K)	293
μ (cm^{-1})	14.13
θ limits, cell (°)	21.8 – 24.2
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 8, -15 – 15, -7 – 7
Range of transmission factors	0.960 – 1
Scan technique	ω:2θ
No. of data measured	2458
No. of unique data	2267
R_{amal}	0.029
No. of parameters	97
R ($I \geq 0\sigma(I)$)	0.065
R_w ($I \geq 0\sigma(I)$)	0.067
R ($I \geq 3\sigma(I)$)	0.038
R_w ($I \geq 3\sigma(I)$)	0.029
Maximum and minimum residual electron density (e Å^{-3})	0.58, -0.54

Table 3.VII.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2COCH_2CH_2C(CH_3)_3)_2]$

Atom	*x*	*y*	*z*
Ni	0	0	0
S(1)	0.2210(1)	0.00814(7)	-0.2458(1)
S(2)	0.1947(1)	0.14273(7)	0.1655(1)
O(1)	0.4745(3)	0.1809(2)	-0.0916(3)
C(1)	0.3201(4)	0.1174(3)	-0.0654(5)
C(2)	0.5819(5)	0.1497(3)	-0.2923(5)
C(3)	0.7776(4)	0.2182(3)	-0.2661(5)
C(4)	0.7730(4)	0.3354(3)	-0.3257(5)
C(5)	0.9889(5)	0.3841(3)	-0.2795(6)
C(6)	0.7074(5)	0.3330(3)	-0.5691(6)
C(7)	0.6338(5)	0.4089(3)	-0.1863(6)

Table 3.VII.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2COCH_2CH_2C(CH_3)_3)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0259(3)	0.0357(4)	0.0284(4)	-0.0051(3)	0.0067(3)	0.0017(3)
S(1)	0.0365(5)	0.0411(5)	0.0337(5)	-0.0101(4)	0.0128(4)	-0.0047(4)
S(2)	0.0326(5)	0.0442(5)	0.0277(5)	-0.0086(4)	0.0073(4)	-0.0031(4)
O(1)	0.032(1)	0.039(1)	0.032(1)	-0.009(1)	0.009(1)	0.002(1)
C(1)	0.025(2)	0.038(2)	0.027(2)	0.003(1)	0.000(1)	0.010(1)
C(2)	0.039(2)	0.036(2)	0.030(2)	-0.003(2)	0.013(1)	0.004(1)
C(3)	0.026(2)	0.043(2)	0.034(2)	-0.001(1)	0.005(1)	0.005(2)
C(4)	0.032(2)	0.035(2)	0.030(2)	-0.007(1)	0.007(1)	0.004(1)
C(5)	0.051(2)	0.061(3)	0.068(3)	-0.026(2)	0.007(2)	0.010(2)
C(6)	0.073(3)	0.055(2)	0.036(2)	-0.015(2)	-0.002(2)	0.015(2)
C(7)	0.064(3)	0.039(2)	0.057(2)	0.001(2)	0.013(2)	0.006(2)

Table 3.VII.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Ni(S_2COCH_2CH_2C(CH_3)_3)_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.6101	0.0729	-0.3088	3.3
H(2b)	0.5013	0.1647	-0.4182	3.3
H(3a)	0.8281	0.2245	-0.1159	3.2
H(3b)	0.8691	0.1779	-0.3562	3.2
H(5a)	1.0328	0.3853	-0.1252	5.7
H(5b)	1.0778	0.3382	-0.3699	5.7
H(5c)	0.9932	0.4590	-0.3149	5.7
H(6a)	0.7117	0.4080	-0.6044	5.1
H(6b)	0.7977	0.2875	-0.6574	5.1
H(6c)	0.5709	0.3019	-0.6004	5.1
H(7a)	0.6777	0.4117	-0.0313	5.0
H(7b)	0.6387	0.4835	-0.2243	5.0
H(7c)	0.4967	0.3786	-0.2142	5.0

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 3.VII.5: Bond distances (Å) for $[Ni(S_2COCH_2CH_2C(CH_3)_3)_2]$

Ni — S(1)	2.2026(8)	C(3) — C(4)	1.525(4)
Ni — S(2)	2.2155(8)	C(4) — C(5)	1.532(4)
S(2) — C(1)	1.697(3)	C(4) — C(6)	1.523(4)
S(1) — C(1)	1.687(3)	C(4) — C(7)	1.525(4)
O(1) — C(1)	1.308(3)	C(2) — C(3)	1.516(4)
O(1) — C(2)	1.481(3)		

Table 3.VII.6: Bond angles (deg.) for $[Ni(S_2COCH_2CH_2C(CH_3)_3)_2]$

S(1) — Ni — S(1)*	180(-)	S(1) — C(1) — O(1)	126.5(2)
S(1) — Ni — S(2)	79.46(3)	O(1) — C(2) — C(3)	107.9(2)
S(1) — Ni — S(2)*	100.54(3)	C(2) — C(3) — C(4)	118.5(3)
S(2) — Ni — S(2)*	180(-)	C(3) — C(4) — C(5)	106.7(3)
Ni — S(2) — C(1)	83.4(1)	C(3) — C(4) — C(6)	111.0(3)
Ni — S(1) — C(1)	84.0(1)	C(3) — C(4) — C(7)	111.7(2)
C(1) — O(1) — C(2)	117.0(2)	C(5) — C(4) — C(6)	108.8(3)
S(1) — C(1) — S(2)	113.1(2)	C(5) — C(4) — C(7)	109.0(3)
S(2) — C(1) — O(1)	120.4(2)	C(6) — C(4) — C(7)	109.6(3)

* atom related by a centre of symmetry

Table 3.VII.7: Observed and calculated structure factors for $[Ni(S_2COCH_2CH_2C(CH_3)_3)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	1	450	439	99	0	4	-3	306	318	99	0	8	-6	63	52	98	0	12	0	120	130	99	1	-12	4	85	81	99
0	0	2	304	290	99	0	4	-2	114	117	65	0	8	-5	30	19	84	0	12	1	112	106	99	1	-12	5	64	62	99
0	0	3	93	90	67	0	4	-1	187	185	89	0	8	-4	165	165	99	0	12	2	92	82	99	1	-11	-4	135	140	99
0	0	4	194	193	99	0	4	0	79	80	61	0	8	-3	77	77	82	0	12	3	81	83	99	1	-11	-3	148	158	99
0	0	5	87	87	89	0	4	1	27	28	58	0	8	-2	28	13	68	0	12	4	66	35	99	1	-11	-2	-41	26	99
0	0	6	40	41	89	0	4	2	101	104	75	0	8	-1	197	195	99	0	13	-5	60	67	99	1	-11	-1	71	79	99
0	0	7	75	88	99	0	4	3	169	164	99	0	8	0	299	294	99	0	13	-4	99	97	99	1	-11	0	123	116	99
0	1	-7	95	101	99	0	4	4	251	253	99	0	8	1	156	154	99	0	13	-3	-16	44	99	1	-11	1	135	136	99
0	1	-6	34	47	91	0	4	5	-41	26	99	0	8	2	96	93	99	0	13	-2	77	84	99	1	-11	2	106	102	99
0	1	-5	-22	8	76	0	4	6	57	47	98	0	8	3	43	11	89	0	13	-1	18	24	99	1	-11	3	76	79	99
0	1	-4	42	33	61	0	4	7	39	44	99	0	8	4	172	170	99	0	13	0	116	113	99	1	-11	4	78	71	99
0	1	-3	143	147	78	0	5	-7	30	25	88	0	8	5	157	164	99	0	13	1	119	124	99	1	-11	5	45	34	99
0	1	-2	78	75	50	0	5	-6	30	25	86	0	8	6	45	32	99	0	13	2	32	17	99	1	-11	6	-36	16	99
0	1	-1	196	192	69	0	5	-5	122	117	99	0	9	-7	58	57	99	0	13	3	-33	3	99	1	-10	-5	51	54	99
0	1	1	764	787	99	0	5	-4	461	457	99	0	9	-6	9	4	99	0	14	-4	54	72	99	1	-10	-4	140	136	99
0	1	2	16	18	51	0	5	-3	167	164	97	0	9	-5	-32	10	92	0	14	-3	61	42	99	1	-10	-3	140	139	99
0	1	3	31	35	59	0	5	-2	193	196	99	0	9	-4	72	72	99	0	14	-2	42	10	99	1	-10	-2	-25	15	89
0	1	4	459	456	99	0	5	-1	175	170	91	0	9	-3	179	186	99	0	14	-1	35	31	99	1	-10	-1	35	38	86
0	1	5	201	201	99	0	5	0	478	481	99	0	9	-2	190	183	99	0	14	0	108	102	99	1	-10	0	122	109	99
0	1	6	-42	8	91	0	5	1	335	342	99	0	9	-1	111	118	99	0	14	1	79	69	99	1	-10	1	227	228	99
0	1	7	11	9	96	0	5	2	72	80	77	0	9	0	195	199	99	0	14	2	59	42	99	1	-10	2	94	90	99
0	2	-7	114	104	99	0	5	3	83	76	90	0	9	1	43	28	81	0	15	-3	73	69	99	1	-10	3	12	21	86
0	2	-6	-7	33	83	0	5	4	49	51	95	0	9	2	83	88	99	0	15	-2	36	36	99	1	-10	4	68	87	99
0	2	-5	28	22	71	0	5	5	50	23	87	0	9	3	60	55	99	0	15	-1	13	24	99	1	-10	5	-19	31	99
0	2	-4	132	134	85	0	5	6	-7	21	99	0	9	4	216	212	99	0	15	0	106	101	99	1	-10	6	19	31	99
0	2	-3	-23	11	47	0	5	7	57	55	99	0	9	5	134	134	99	0	15	1	69	52	99	1	-9	-5	53	42	99
0	2	-2	193	197	89	0	6	-7	58	70	99	0	10	-6	26	51	99	1	-15	-1	43	32	99	1	-9	-4	117	117	99
0	2	-1	446	463	99	0	6	-6	62	57	92	0	10	-5	26	15	96	1	-15	0	68	57	99	1	-9	-3	49	45	99
0	2	0	219	214	84	0	6	-5	104	111	99	0	10	-4	104	101	99	1	-15	1	63	48	99	1	-9	-2	20	38	97
0	2	1	89	86	57	0	6	-4	201	207	99	0	10	-3	173	174	99	1	-15	2	-35	12	99	1	-9	-1	76	76	99
0	2	2	124	115	72	0	6	-3	176	177	99	0	10	-2	92	89	98	1	-15	3	40	22	99	1	-9	0	315	296	99
0	2	3	277	280	99	0	6	-2	77	82	67	0	10	-1	95	85	97	1	-14	-2	19	50	99	1	-9	1	269	262	99
0	2	4	441	442	99	0	6	-1	86	86	65	0	10	0	106	113	99	1	-14	-1	79	74	99	1	-9	2	12	33	86
0	2	5	318	313	99	0	6	0	534	542	99	0	10	1	113	119	99	1	-14	0	103	101	99	1	-9	3	37	25	82
0	2	6	-32	6	92	0	6	1	391	397	99	0	10	2	-30	15	97	1	-14	1	11	26	99	1	-9	4	36	20	88
0	2	7	43	52	99	0	6	2	103	99	87	0	10	3	41	37	99	1	-14	2	45	26	99	1	-9	5	122	122	99
0	3	-7	45	38	98	0	6	3	35	22	82	0	10	4	169	168	99	1	-14	3	14	12	99	1	-9	6	51	67	99
0	3	-6	35	38	84	0	6	4	62	49	99	0	10	5	81	79	99	1	-14	4	24	40	99	1	-9	7	57	41	99
0	3	-5	82	83	86	0	6	5	44	35	99	0	11	-6	45	31	98	1	-13	-3	90	78	99	1	-8	-6	40	44	99
0	3	-4	256	253	99	0	6	6	-13	19	99	0	11	-5	26	19	98	1	-13	-2	73	45	99	1	-8	-5	33	7	89
0	3	-3	338	342	99	0	7	-7	74	70	99	0	11	-4	140	131	99	1	-13	-1	55	59	99	1	-8	-4	35	31	93
0	3	-2	127	132	66	0	7	-6	96	92	99	0	11	-3	132	122	99	1	-13	0	54	64	99	1	-8	-3	91	90	99
0	3	-1	214	211	94	0	7	-5	140	145	99	0	11	-2	35	36	90	1	-13	1	71	63	99	1	-8	-2	31	9	82
0	3	0	195	190	86	0	7	-4	81	76	83	0	11	-1	35	7	91	1	-13	2	38	17	98	1	-8	-1	-6	37	79
0	3	1	19	14	53	0	7	-3	-13	20	68	0	11	0	47	44	93	1	-13	3	-19	29	99	1	-8	0	378	373	99
0	3	2	42	35	58	0	7	-2	-18	13	61	0	11	1	141	132	99	1	-13	4	80	81	99	1	-8	1	285	282	99
0	3	3	260	260	99	0	7	-1	219	221	99	0	11	2	126	118	99	1	-13	5	41	28	99	1	-8	2	31	6	69
0	3	4	352	352	99	0	7	0	398	405	99	0	11	3	93	82	99	1	-12	-4	99	106	99	1	-8	3	31	38	84
0	3	5	173	172	99	0	7	1	292	286	99	0	11	4	44	68	99	1	-12	-3	121	118	99	1	-8	4	119	124	99
0	3	6	-24	17	93	0	7	2	29	35	78	0	12	-6	26	8	99	1	-12	-2	-18	32	99	1	-8	5	134	131	99
0	3	7	-17	12	94	0	7	3	49	41	90	0	12	-5	72	60	99	1	-12	-1	38	20	98	1	-8	6	69	58	99
0	4	-7	16	15	93	0	7	4	150	153	99	0	12	-4	96	94	99	1	-12	0	71	57	99	1	-8	7	57	47	99
0	4	-6	79	76	91	0	7	5	115	113	99	0	12	-3	47	34	96	1	-12	1	63	64	99	1	-7	-6	39	46	99
0	4	-5	167	169	99	0	7	6	59	54	99	0	12	-2	58	50	99	1	-12	2	44	55	99	1	-7	-5	34	32	96
0	4	-4	323	336	99	0	8	-7	67	78	99	0	12	-1	46	17	91	1	-12	3	81	94	99	1	-7	-4	31	18	83
1	-7	-3	112	106	99	1	-3	-7	36	52	99	1	0	3	182	177	99	1	4	-4	178	177	99	1	8	-6	35	7	92
1	-7	-2	136	134	99	1	-3	-6	25	11	94	1	0	4	216	221	99	1	4	-3	294	294	99	1	8	-5	72	64	94
1	-7	-1	119	123	94	1	-3	-5	35	12	81	1	0	5	354	353	99	1	4	-2	72	74	56	1	8	-4	26	7	83
1	-7	0	136	135	91	1	-3	-4	332	348	99	1	0	6	156	147	99	1	4	-1	315	308	99	1	8	-3	219	218	99
1	-7	1	264	270	99	1	-3	-3	371	372	99	1	0	7	39	30	99	1	4	0	305	304	99	1	8	-2	254	251	99
1	-7	2	-18	6	62	1	-3	-2	13	18	54	1	1	-7	147	152	99	1	4	1	615	621	99	1	8	-1	181	184	99
1	-7	3	64	68	83	1	-3	-1	107	109	67	1	1	-6	-43	10	91	1	4	2	419	415	99	1	8	0	61	67	76
1	-7	4	247	249	99	1	-3	0	613	593	99	1	1	-5	43	29	78	1	4	3	25	23	73	1	8	1	149	146	99
1	-7	5	224	233	99	1	-3	1	784	816	99	1	1	-4	156	156	99	1	4	4	-22	31	92	1	8	2	100	105	99
1	-7	6	42	49	99	1	-3	2	239	249	99	1	1	-3	469	477	99	1	4	5	58	46	99	1	8	3	32	25	95
1	-7	7	53	36	99	1	-3	3	67	61	55	1	1	-2	317	314	99	1	4	6	56	62	99	1	8	4	129	126	99
1	-6	-6	45	7	96	1	-3	4	37	35	60	1	1	-1	92	91	43	1	4	7	51	53	99	1	8	5	144	142	99
1	-6	-5	38	38	96	1	-3	5	49	45	76	1	1	0	319	319	99	1	5	-7	92	96	99	1	8	6	47	44	99
1	-6	-4	170	170	99	1	-3	6	-25	7	82	1	1	1	22	27	47	1	5	-6	120	129	99	1	9	-7	69	61	99
1	-6	-3	219	209	99	1	-3	7	49	39	87	1	1	2	66	58	59	1	5	-5	139	124	99	1	9	-6	16	6	99
1	-6	-2	134	134	99	1	-2	-7	100	97	99	1	1	3	30	25	65	1	5	-4	133	125	99	1	9	-5	79	74	99
1	-6	-1	73	78	73	1	-2	-6	128	138	99	1	1	4	272	269	99	1	5	-3	161	166	98	1	9	-4	124	117	99
1	-6	0	42	10	55	1	-2	-5	31	45	88	1	1	5	273	269	99	1	5	-2	35	8	47	1	9	-3	202	194	99
1	-6	1	51	52	62	1	-2	-4	11	15	70	1	1	6	87	80	99	1	5	-1	93	88	60	1	9	-2	115	118	99
1	-6	2	106	97	78	1	-2	-3	200	194	99	1	1	7	-40	13	99	1	5	0	275	281	99	1	9	-1	30	21	76
1	-6	3	119	127	90	1	-2	-2	119	117	68	1	2	-8	101	101	99	1	5	1	480	494	99	1	9	0	-11	12	74
1	-6	4	116	123	99	1	-2	-1	217	214	99	1	2	-7	89	97	99	1	5	2	183	174	99	1	9	1	147	146	99
1	-6	5	228	237	99	1	-2	0	844	877	99	1	2	-6	56	62	98	1	5	3	80	80	89	1	9	2	197	204	99
1	-6	6	81	71	99	1	-2	1	986	1006	99	1	2	-5	56	61	85	1	5	4	70	70	99	1	9	3	138	140	99
1	-6	7	52	48	99	1	-2	2	242	247	99	1	2	-4	293	290	99	1	5	5	135	133	99	1	9	4	26	48	99
1	-5	-7	66	73	99	1	-2	3	110	111	69	1	2	-3	636	642	99	1	5	6	101	95	99	1	9	5	76	71	99
1	-5	-6	37	38	99	1	-2	4	121	129	88	1	2	-2	283	276	99	1	6	-7	116	120	99	1	10	-6	24	36	99
1	-5	-5	-21	6	88	1	-2	5	190	195	99	1	2	-1	47	35	40	1	6	-6	152	148	99	1	10	-5	31	19	97
1	-5	-4	258	258	99	1	-2	6	65	62	97	1	2	0	189	182	77	1	6	-5	12	14	81	1	10	-4	105	94	99
1	-5	-3	456	460	99	1	-2	7	45	30	84	1	2	1	209	200	99	1	6	-4	108	103	98	1	10	-3	195	190	99
1	-5	-2	211	204	99	1	-1	-7	110	120	99	1	2	2	229	230	99	1	6	-3	163	158	99	1	10	-2	36	37	86
1	-5	-1	95	81	66	1	-1	-6	120	123	99	1	2	3	64	69	73	1	6	-2	126	126	79	1	10	-1	128	137	99
1	-5	0	94	89	66	1	-1	-5	99	89	99	1	2	4	184	175	99	1	6	-1	107	98	73	1	10	0	40	50	86
1	-5	1	72	61	62	1	-1	-4	-6	19	69	1	2	5	97	91	99	1	6	0	296	295	99	1	10	1	155	147	99
1	-5	2	58	61	62	1	-1	-3	13	15	53	1	2	6	-14	5	99	1	6	1	395	397	99	1	10	2	147	140	99
1	-5	3	185	192	99	1	-1	-2	50	46	50	1	2	7	30	18	99	1	6	2	50	43	77	1	10	3	99	100	99
1	-5	4	174	190	99	1	-1	-1	242	238	99	1	3	-8	46	10	99	1	6	3	136	133	99	1	10	4	81	65	99
1	-5	5	69	71	89	1	-1	0	98	90	38	1	3	-7	79	80	99	1	6	4	47	34	96	1	10	5	36	25	99
1	-5	6	-27	9	87	1	-1	1	830	827	99	1	3	-6	38	52	87	1	6	5	265	256	99	1	11	-6	68	87	99
1	-5	7	-37	18	95	1	-1	2	437	417	99	1	3	-5	42	44	83	1	6	6	129	129	99	1	11	-5	84	79	99
1	-4	-7	-11	20	99	1	-1	3	185	179	99	1	3	-4	302	295	99	1	7	-7	108	105	99	1	11	-4	102	93	99
1	-4	-6	65	43	93	1	-1	4	175	172	99	1	3	-3	466	462	99	1	7	-6	41	44	99	1	11	-3	154	160	99
1	-4	-5	75	79	96	1	-1	5	310	322	99	1	3	-2	196	193	94	1	7	-5	34	34	93	1	11	-2	28	7	81
1	-4	-4	337	339	99	1	-1	6	182	172	99	1	3	-1	179	173	80	1	7	-4	-16	22	77	1	11	-1	123	125	99
1	-4	-3	442	446	99	1	-1	7	-37	6	97	1	3	0	265	262	99	1	7	-3	248	247	99	1	11	0	-15	15	95
1	-4	-2	110	107	74	1	0	-7	193	195	99	1	3	1	554	566	99	1	7	-2	352	353	99	1	11	1	249	249	99
1	-4	-1	37	36	57	1	0	-6	90	84	99	1	3	2	255	253	99	1	7	-1	119	124	78	1	11	2	122	118	99
1	-4	0	238	235	99	1	0	-5	77	77	69	1	3	3	111	108	84	1	7	0	162	161	99	1	11	3	56	57	99
1	-4	1	458	456	99	1	0	-4	125	122	94	1	3	4	34	23	84	1	7	1	159	155	99	1	11	4	38	39	99
1	-4	2	135	138	77	1	0	-3	133	142	75	1	3	5	62	78	99	1	7	2	60	56	89	1	12	-6	101	97	99
1	-4	3	30	23	53	1	0	-2	198	202	93	1	3	6	-14	7	99	1	7	3	65	42	90	1	12	-5	35	47	99
1	-4	4	128	136	91	1	0	-1	336	332	99	1	3	7	32	13	99	1	7	4	96	91	99	1	12	-4	73	66	99
1	-4	5	30	19	73	1	0	0	165	164	53	1	4	-7	48	49	99	1	7	5	200	197	99	1	12	-3	95	94	99
1	-4	6	-7	7	84	1	0	1	21	20	43	1	4	-6	96	96	99	1	7	6	105	97	99	1	12	-2	36	37	99
1	-4	7	39	33	91	1	0	2	60	60	57	1	4	-5	133	138	99	1	8	-7	75	75	99	1	12	-1	45	40	94

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	12	0	50	27	98	2	-11	-4	-12	33	99	2	-7	0	-22	6	67	2	-3	-4	37	36	78	2	0	6	60	59	99
1	12	1	143	148	99	2	-11	-3	58	57	99	2	-7	1	72	90	81	2	-3	-3	75	74	76	2	0	7	24	8	99
1	12	2	75	86	99	2	-11	-2	24	40	99	2	-7	2	79	92	83	2	-3	-2	46	50	57	2	1	-7	44	39	99
1	12	3	71	60	99	2	-11	-1	6	7	91	2	-7	3	57	53	83	2	-3	-1	281	283	99	2	1	-6	106	107	99
1	12	4	43	54	99	2	-11	0	84	76	99	2	-7	4	123	120	99	2	-3	0	174	181	87	2	1	-5	26	13	79
1	13	-5	44	46	99	2	-11	1	172	164	99	2	-7	5	50	52	95	2	-3	1	323	328	99	2	1	-4	56	64	71
1	13	-4	48	5	99	2	-11	2	133	125	99	2	-7	6	-20	9	99	2	-3	2	299	296	99	2	1	-3	359	358	99
1	13	-3	42	59	99	2	-11	3	24	22	95	2	-7	7	16	24	99	2	-3	3	63	46	65	2	1	-2	611	608	99
1	13	-2	111	110	99	2	-11	4	29	26	97	2	-6	-6	24	30	99	2	-3	4	36	26	73	2	1	-1	44	40	46
1	13	-1	60	75	99	2	-11	5	54	68	99	2	-6	-5	-4	21	96	2	-3	5	159	158	99	2	1	0	197	197	90
1	13	0	118	111	99	2	-11	6	59	54	99	2	-6	-4	73	63	96	2	-3	6	223	223	99	2	1	1	260	252	99
1	13	1	104	101	99	2	-10	-5	38	40	99	2	-6	-3	339	337	99	2	-3	7	68	73	99	2	1	2	473	459	99
1	13	2	50	25	99	2	-10	-4	-29	27	99	2	-6	-2	377	372	99	2	-2	-7	195	193	99	2	1	3	318	324	99
1	13	3	53	58	99	2	-10	-3	25	37	99	2	-6	-1	105	102	84	2	-2	-6	220	215	99	2	1	4	21	7	81
1	14	-4	-36	4	99	2	-10	-2	59	50	94	2	-6	0	71	65	66	2	-2	-5	46	40	85	2	1	5	50	28	93
1	14	-3	43	55	99	2	-10	-1	26	17	84	2	-6	1	265	265	99	2	-2	-4	36	17	75	2	1	6	-16	13	99
1	14	-2	105	101	99	2	-10	0	105	110	99	2	-6	2	279	284	99	2	-2	-3	231	222	99	2	1	7	-18	6	99
1	14	-1	96	88	99	2	-10	1	218	219	99	2	-6	3	48	57	77	2	-2	-2	218	229	99	2	2	-7	-1	11	99
1	14	0	28	32	99	2	-10	2	138	136	99	2	-6	4	65	58	88	2	-2	-1	36	36	51	2	2	-6	129	110	99
1	14	1	60	77	99	2	-10	3	44	42	86	2	-6	5	37	48	98	2	-2	0	113	118	62	2	2	-5	209	210	99
1	14	2	55	54	99	2	-10	4	50	7	85	2	-6	6	25	5	93	2	-2	1	177	175	85	2	2	-4	124	123	97
1	15	-3	59	50	99	2	-10	5	76	86	99	2	-6	7	-32	22	99	2	-2	2	-26	19	51	2	2	-3	225	226	99
1	15	-2	58	59	99	2	-10	6	74	92	99	2	-5	-7	44	4	99	2	-2	3	72	65	71	2	2	-2	216	214	99
1	15	-1	62	52	99	2	-9	-5	-28	14	99	2	-5	-6	67	76	99	2	-2	4	58	45	76	2	2	-1	135	129	67
1	15	0	31	28	99	2	-9	-4	44	36	99	2	-5	-5	37	21	94	2	-2	5	220	222	99	2	2	0	87	85	55
1	15	1	-33	24	99	2	-9	-3	50	36	94	2	-5	-4	100	102	99	2	-2	6	197	202	99	2	2	1	405	404	99
2	-15	0	24	28	99	2	-9	-2	137	142	99	2	-5	-3	242	236	99	2	-2	7	63	58	99	2	2	2	551	555	99
2	-15	1	47	61	99	2	-9	-1	133	134	99	2	-5	-2	198	194	99	2	-1	-7	163	156	99	2	2	3	189	194	99
2	-15	2	24	28	99	2	-9	0	25	16	82	2	-5	-1	60	58	67	2	-1	-6	164	171	99	2	2	4	38	14	80
2	-14	-2	87	82	99	2	-9	1	71	84	93	2	-5	0	90	84	72	2	-1	-5	16	12	82	2	2	5	15	8	97
2	-14	-1	-14	7	99	2	-9	2	102	111	99	2	-5	1	486	500	99	2	-1	-4	134	136	99	2	2	6	69	62	99
2	-14	0	15	10	99	2	-9	3	18	6	87	2	-5	2	484	487	99	2	-1	-3	351	338	99	2	2	7	77	67	99
2	-14	1	-28	30	99	2	-9	4	55	30	84	2	-5	3	154	157	99	2	-1	-2	678	684	99	2	3	-7	44	52	99
2	-14	2	57	60	99	2	-9	5	112	113	99	2	-5	4	86	94	93	2	-1	-1	276	270	99	2	3	-6	174	172	99
2	-14	3	67	63	99	2	-9	6	101	113	99	2	-5	5	52	49	80	2	-1	0	53	58	47	2	3	-5	188	184	99
2	-14	4	33	30	99	2	-8	-6	93	90	99	2	-5	6	46	52	91	2	-1	1	65	71	49	2	3	-4	138	130	99
2	-13	-3	116	112	99	2	-8	-5	34	38	99	2	-5	7	14	9	95	2	-1	2	43	60	57	2	3	-3	202	195	99
2	-13	-2	64	78	99	2	-8	-4	33	34	99	2	-4	-7	31	33	99	2	-1	3	16	24	61	2	3	-2	193	189	99
2	-13	-1	-29	30	99	2	-8	-3	150	151	99	2	-4	-6	127	135	99	2	-1	4	126	125	99	2	3	-1	-15	9	46
2	-13	0	-32	13	99	2	-8	-2	175	172	99	2	-4	-5	137	140	99	2	-1	5	196	193	99	2	3	0	150	145	77
2	-13	1	56	69	99	2	-8	-1	153	143	99	2	-4	-4	34	38	81	2	-1	6	139	135	99	2	3	1	505	506	99
2	-13	2	53	69	99	2	-8	0	102	91	91	2	-4	-3	54	59	76	2	-1	7	16	31	99	2	3	2	448	457	99
2	-13	3	45	48	99	2	-8	1	26	14	73	2	-4	-2	221	217	99	2	0	-7	71	81	99	2	3	3	49	36	71
2	-13	4	50	56	99	2	-8	2	26	11	78	2	-4	-1	44	45	57	2	0	-6	80	74	99	2	3	4	49	52	89
2	-13	5	14	28	99	2	-8	3	80	82	92	2	-4	0	50	57	59	2	0	-5	59	49	84	2	3	5	59	60	99
2	-12	-4	18	59	99	2	-8	4	37	50	92	2	-4	1	427	431	99	2	0	-4	19	17	67	2	3	6	128	132	99
2	-12	-3	107	108	99	2	-8	5	110	118	99	2	-4	2	564	556	99	2	0	-3	445	447	99	2	3	7	43	66	99
2	-12	-2	73	63	99	2	-8	6	79	93	99	2	-4	3	128	133	90	2	0	-2	569	562	99	2	4	-7	83	75	99
2	-12	-1	30	38	99	2	-8	7	30	13	99	2	-4	4	27	30	70	2	0	-1	255	250	99	2	4	-6	236	233	99
2	-12	0	38	24	98	2	-7	-6	42	41	99	2	-4	5	75	73	90	2	0	0	190	193	85	2	4	-5	131	126	99
2	-12	1	157	154	99	2	-7	-5	66	51	99	2	-4	6	126	126	99	2	0	1	204	202	97	2	4	-4	42	21	70
2	-12	2	137	139	99	2	-7	-4	45	38	92	2	-4	7	59	66	99	2	0	2	316	300	99	2	4	-3	36	29	61
2	-12	3	28	17	93	2	-7	-3	368	372	99	2	-3	-7	119	120	99	2	0	3	96	102	76	2	4	-2	332	331	99
2	-12	4	44	21	98	2	-7	-2	346	340	99	2	-3	-6	181	174	99	2	0	4	78	79	91	2	4	-1	346	344	99
2	-12	5	-30	30	99	2	-7	-1	-9	24	74	2	-3	-5	151	145	99	2	0	5	70	70	99	2	4	0	123	138	75
2	4	1	242	250	99	2	8	0	162	168	99	2	13	0	18	17	99	3	-9	-5	36	45	99	3	-5	-2	11	10	71
2	4	2	267	273	99	2	8	1	71	71	85	2	13	1	-39	5	99	3	-9	-4	43	56	99	3	-5	-1	163	160	99
2	4	3	-23	8	82	2	8	2	238	240	99	2	13	2	70	55	99	3	-9	-3	96	94	99	3	-5	0	76	84	74
2	4	4	144	141	99	2	8	3	163	161	99	2	14	-4	43	38	99	3	-9	-2	303	297	99	3	-5	1	121	127	86
2	4	5	146	144	99	2	8	4	70	71	99	2	14	-3	48	46	99	3	-9	-1	157	155	99	3	-5	2	166	170	99
2	4	6	207	213	99	2	8	5	45	20	99	2	14	-2	138	129	99	3	-9	0	24	8	81	3	-5	3	96	99	90
2	5	-7	93	93	99	2	9	-7	31	8	99	2	14	-1	25	24	99	3	-9	1	57	36	84	3	-5	4	27	41	79
2	5	-6	125	122	99	2	9	-6	114	113	99	2	14	0	13	43	99	3	-9	2	100	101	99	3	-5	5	65	55	99
2	5	-5	61	55	92	2	9	-5	179	180	99	2	14	1	4	5	99	3	-9	3	39	30	91	3	-5	6	134	126	99
2	5	-4	108	100	95	2	9	-4	86	90	99	2	15	-2	70	75	99	3	-9	4	42	44	99	3	-5	7	84	93	99
2	5	-3	82	82	73	2	9	-3	117	116	99	2	15	-1	41	39	99	3	-9	5	25	44	97	3	-4	-7	44	42	99
2	5	-2	349	336	99	2	9	-2	201	205	99	2	15	0	88	70	99	3	-9	6	-29	22	99	3	-4	-6	234	233	99
2	5	-1	358	353	99	2	9	-1	64	65	87	3	-14	-1	-13	28	99	3	-8	-5	32	28	99	3	-4	-5	161	165	99
2	5	0	279	274	99	2	9	0	169	174	99	3	-14	0	40	31	99	3	-8	-4	34	5	92	3	-4	-4	16	23	88
2	5	1	109	106	80	2	9	1	121	114	99	3	-14	1	29	39	99	3	-8	-3	89	79	99	3	-4	-3	-18	10	77
2	5	2	171	168	99	2	9	2	272	268	99	3	-14	2	95	96	99	3	-8	-2	281	281	99	3	-4	-2	223	220	99
2	5	3	45	44	86	2	9	3	44	51	99	3	-14	3	60	41	99	3	-8	-1	251	253	99	3	-4	-1	198	205	99
2	5	4	-29	8	98	2	9	4	48	60	99	3	-13	-2	-32	19	99	3	-8	0	67	66	86	3	-4	0	130	136	83
2	5	5	85	86	99	2	9	5	25	12	99	3	-13	-1	46	21	99	3	-8	1	32	5	77	3	-4	1	75	75	66
2	5	6	173	169	99	2	10	-6	95	85	99	3	-13	0	16	4	99	3	-8	2	213	223	99	3	-4	2	72	79	71
2	6	-7	121	117	99	2	10	-5	112	117	99	3	-13	1	39	33	96	3	-8	3	183	184	99	3	-4	3	42	42	72
2	6	-6	114	100	99	2	10	-4	134	133	99	3	-13	2	106	99	99	3	-8	4	48	38	93	3	-4	4	45	45	93
2	6	-5	51	64	96	2	10	-3	56	57	95	3	-13	3	71	82	99	3	-8	5	13	6	98	3	-4	5	97	91	99
2	6	-4	136	131	99	2	10	-2	114	113	99	3	-13	4	33	19	99	3	-8	6	-11	17	99	3	-4	6	146	154	99
2	6	-3	118	118	95	2	10	-1	130	130	99	3	-12	-3	-41	23	99	3	-7	-6	5	32	99	3	-4	7	98	100	99
2	6	-2	350	349	99	2	10	0	46	45	90	3	-12	-2	-20	25	99	3	-7	-5	85	77	99	3	-3	-7	59	49	99
2	6	-1	346	349	99	2	10	1	85	86	99	3	-12	-1	52	41	99	3	-7	-4	61	64	99	3	-3	-6	153	152	99
2	6	0	48	52	62	2	10	2	195	190	99	3	-12	0	34	46	99	3	-7	-3	46	40	90	3	-3	-5	143	150	99
2	6	1	81	79	75	2	10	3	78	71	99	3	-12	1	56	61	99	3	-7	-2	123	127	99	3	-3	-4	127	128	99
2	6	2	147	148	99	2	10	4	132	127	99	3	-12	2	88	77	99	3	-7	-1	114	122	99	3	-3	-3	29	15	68
2	6	3	109	114	99	2	11	-6	61	72	99	3	-12	3	42	31	99	3	-7	0	51	42	80	3	-3	-2	497	495	99
2	6	4	116	118	99	2	11	-5	70	74	99	3	-12	4	-44	4	99	3	-7	1	88	92	91	3	-3	-1	502	507	99
2	6	5	114	110	99	2	11	-4	34	23	94	3	-12	5	-22	6	99	3	-7	2	275	279	99	3	-3	0	139	153	83
2	6	6	86	82	99	2	11	-3	37	29	95	3	-11	-4	-7	9	99	3	-7	3	273	278	99	3	-3	1	100	102	67
2	7	-7	95	87	99	2	11	-2	130	131	99	3	-11	-3	33	4	96	3	-7	4	32	20	88	3	-3	2	52	47	60
2	7	-6	103	107	99	2	11	-1	157	145	99	3	-11	-2	43	48	99	3	-7	5	-6	11	92	3	-3	3	75	71	78
2	7	-5	42	46	94	2	11	0	152	157	99	3	-11	-1	110	104	99	3	-7	6	39	35	99	3	-3	4	79	70	94
2	7	-4	-31	6	84	2	11	1	102	108	99	3	-11	0	44	36	96	3	-6	-6	73	65	99	3	-3	5	55	50	89
2	7	-3	162	153	99	2	11	2	78	89	99	3	-11	1	42	30	93	3	-6	-5	167	162	99	3	-3	6	101	90	99
2	7	-2	249	253	99	2	11	3	-57	13	99	3	-11	2	52	50	98	3	-6	-4	74	84	99	3	-3	7	67	76	99
2	7	-1	70	70	73	2	11	4	34	32	99	3	-11	3	42	30	90	3	-6	-3	31	14	82	3	-2	-7	33	40	99
2	7	0	47	46	70	2	12	-5	-9	16	97	3	-11	4	0	8	97	3	-6	-2	38	46	84	3	-2	-6	82	82	99
2	7	1	50	43	75	2	12	-4	26	36	99	3	-11	5	23	19	99	3	-6	-1	-18	17	74	3	-2	-5	78	74	99
2	7	2	195	199	99	2	12	-3	-17	5	99	3	-10	-5	16	28	99	3	-6	0	-13	15	70	3	-2	-4	33	24	81
2	7	3	221	220	99	2	12	-2	96	95	99	3	-10	-4	25	41	99	3	-6	1	136	137	96	3	-2	-3	29	42	71
2	7	4	83	78	99	2	12	-1	163	162	99	3	-10	-3	53	56	99	3	-6	2	322	314	99	3	-2	-2	378	373	99
2	7	5	92	82	99	2	12	0	74	72	99	3	-10	-2	168	168	99	3	-6	3	230	231	99	3	-2	-1	547	552	99
2	7	6	57	50	99	2	12	1	92	85	99	3	-10	-1	129	135	99	3	-6	4	62	61	95	3	-2	0	88	94	93
2	8	-7	44	48	99	2	12	2	92	91	99	3	-10	0	93	85	99	3	-6	5	18	28	95	3	-2	1	7	14	52
2	8	-6	91	98	99	2	12	3	-4	21	99	3	-10	1	-36	6	86	3	-6	6	70	62	99	3	-2	2	137	132	86
2	8	-5	86	81	99	2	13	-5	26	36	99	3	-10	2	50	25	86	3	-6	7	100	96	99	3	-2	3	179	177	99
2	8	-4	-11	19	86	2	13	-4	52	41	99	3	-10	3	33	32	92	3	-5	-6	177	180	99	3	-2	4	114	120	99
2	8	-3	254	251	99	2	13	-3	54	43	99	3	-10	4	44	37	93	3	-5	-5	164	174	99	3	-2	5	43	49	96
2	8	-2	282	276	99	2	13	-2	120	122	99	3	-10	5	65	58	99	3	-5	-4	68	64	97	3	-2	6	46	35	95
2	8	-1	131	127	99	2	13	-1	80	80	99	3	-10	6	36	37	99	3	-5	-3	22	18	78	3	-2	7	25	4	99

h	k	l	Fo	Fc	sigF2
3	-1	-7	-26	10	99
3	-1	-6	47	54	99
3	-1	-5	50	66	99
3	-1	-4	85	84	87
3	-1	-3	140	146	98
3	-1	-2	412	411	99
3	-1	-1	271	273	99
3	-1	0	80	93	59
3	-1	1	55	63	60
3	-1	2	315	315	99
3	-1	3	424	417	99
3	-1	4	100	91	99
3	-1	5	-34	8	97
3	-1	6	-31	5	99
3	-1	7	-25	6	99
3	0	-7	16	30	99
3	0	-6	61	59	99
3	0	-5	234	231	99
3	0	-4	155	154	99
3	0	-3	138	138	94
3	0	-2	249	244	99
3	0	-1	169	171	88
3	0	0	10	16	50
3	0	1	42	26	49
3	0	2	372	369	99
3	0	3	329	328	99
3	0	4	124	124	99
3	0	5	15	37	98
3	0	6	-23	16	99
3	0	7	69	61	99
3	1	-7	84	59	99
3	1	-6	111	104	99
3	1	-5	266	265	99
3	1	-4	242	237	99
3	1	-3	108	100	82
3	1	-2	116	120	74
3	1	-1	263	254	99
3	1	0	108	109	65
3	1	1	148	153	87
3	1	2	424	424	99
3	1	3	239	236	99
3	1	4	21	38	85
3	1	5	55	51	92
3	1	6	80	96	99
3	1	7	91	94	99
3	2	-7	41	22	99
3	2	-6	167	162	99
3	2	-5	220	219	99
3	2	-4	108	113	99
3	2	-3	40	46	69
3	2	-2	107	115	75
3	2	-1	435	427	99
3	2	0	445	436	99
3	2	1	22	31	59
3	2	2	166	161	99
3	2	3	252	257	99
3	2	4	51	59	89
3	2	5	46	44	99
3	2	6	125	122	99
3	3	-7	41	37	99
3	3	-6	162	151	99
3	3	-5	187	188	99
3	3	-4	70	75	90
3	3	-3	90	87	81
3	3	-2	124	128	82
3	3	-1	303	307	99
3	3	0	492	481	99
3	3	1	250	243	99
3	3	2	66	71	77
3	3	3	56	58	85
3	3	4	92	94	99
3	3	5	8	24	99
3	3	6	93	89	99
3	4	-7	67	82	99
3	4	-6	158	159	99
3	4	-5	80	84	99
3	4	-4	114	117	99
3	4	-3	93	97	82
3	4	-2	276	274	99
3	4	-1	436	439	99
3	4	0	55	60	61
3	4	1	38	52	68
3	4	2	109	116	94
3	4	3	136	132	99
3	4	4	129	130	99
3	4	5	115	109	99
3	4	6	81	77	99
3	5	-7	77	57	99
3	5	-6	141	146	99
3	5	-5	107	105	99
3	5	-4	20	21	83
3	5	-3	16	19	73
3	5	-2	283	285	99
3	5	-1	287	294	99
3	5	0	25	41	64
3	5	1	147	145	99
3	5	2	64	55	83
3	5	3	256	259	99
3	5	4	125	137	99
3	5	5	80	90	99
3	5	6	42	60	99
3	6	-7	19	7	99
3	6	-6	39	35	99
3	6	-5	203	205	99
3	6	-4	117	108	99
3	6	-3	123	126	99
3	6	-2	322	317	99
3	6	-1	179	179	99
3	6	0	159	156	99
3	6	1	151	148	99
3	6	2	165	163	99
3	6	3	217	229	99
3	6	4	126	124	99
3	6	5	-20	8	99
3	6	6	14	13	99
3	7	-7	45	32	99
3	7	-6	-31	10	99
3	7	-5	181	182	99
3	7	-4	249	246	99
3	7	-3	105	104	99
3	7	-2	158	152	99
3	7	-1	317	326	99
3	7	0	30	35	73
3	7	1	115	113	99
3	7	2	183	170	99
3	7	3	244	235	99
3	7	4	18	26	99
3	7	5	75	71	99
3	8	-7	23	33	99
3	8	-6	73	48	99
3	8	-5	120	125	99
3	8	-4	217	204	99
3	8	-3	98	102	99
3	8	-2	30	30	79
3	8	-1	124	123	99
3	8	0	231	237	99
3	8	1	102	102	99
3	8	2	109	111	99
3	8	3	174	176	99
3	8	4	-23	21	99
3	8	5	83	91	99
3	9	-6	76	74	99
3	9	-5	141	145	99
3	9	-4	-7	7	95
3	9	-3	-19	14	90
3	9	-2	107	104	99
3	9	-1	139	141	99
3	9	0	172	181	99
3	9	1	167	162	99
3	9	2	143	137	99
3	9	3	80	67	99
3	9	4	21	19	99
3	10	-6	93	99	99
3	10	-5	114	109	99
3	10	-4	-21	12	99
3	10	-3	120	121	99
3	10	-2	38	15	86
3	10	-1	252	254	99
3	10	0	146	153	99
3	10	1	65	67	99
3	10	2	79	74	99
3	10	3	77	70	99
3	10	4	45	34	99
3	11	-5	62	62	99
3	11	-4	-23	13	99
3	11	-3	51	42	99
3	11	-2	89	90	99
3	11	-1	141	145	99
3	11	0	86	89	99
3	11	1	55	28	97
3	11	2	23	4	99
3	11	3	105	108	99
3	12	-5	102	91	99
3	12	-4	-28	7	99
3	12	-3	9	14	99
3	12	-2	133	128	99
3	12	-1	161	161	99
3	12	0	-40	13	97
3	12	1	101	89	99
3	12	2	14	4	99
3	12	3	70	85	99
3	13	-4	96	92	99
3	13	-3	57	53	99
3	13	-2	-6	49	99
3	13	-1	113	115	99
3	13	0	-15	4	99
3	13	1	75	54	99
3	13	2	44	31	99
3	14	-3	18	48	99
3	14	-2	64	60	99
3	14	-1	33	48	99
3	14	0	45	23	99
3	14	1	15	10	99
4	-14	0	38	29	99
4	-14	1	52	25	99
4	-13	-2	-9	6	99
4	-13	-1	45	56	99
4	-13	0	29	48	99
4	-13	1	32	38	99
4	-13	2	43	21	99
4	-13	3	12	3	99
4	-12	-3	-3	13	99
4	-12	-2	82	81	99
4	-12	-1	121	119	99
4	-12	0	76	72	99
4	-12	1	28	8	99
4	-12	2	33	5	91
4	-12	3	34	23	98
4	-12	4	-26	6	99
4	-11	-3	-22	16	99
4	-11	-2	88	88	99
4	-11	-1	191	195	99
4	-11	0	107	97	99
4	-11	1	30	11	99
4	-11	2	-21	26	99
4	-11	3	62	46	99
4	-11	4	26	42	99
4	-10	-4	34	53	99
4	-10	-3	26	22	99
4	-10	-2	60	53	99
4	-10	-1	161	169	99
4	-10	0	81	80	99
4	-10	1	-2	23	95
4	-10	2	69	53	95
4	-10	3	148	147	99
4	-10	4	85	83	99
4	-10	5	-18	8	99
4	-9	-5	12	31	99
4	-9	-4	52	64	99
4	-9	-3	31	48	99
4	-9	-2	51	36	99
4	-9	-1	65	62	99
4	-9	0	83	80	99
4	-9	1	35	9	87
4	-9	2	61	56	95
4	-9	3	189	184	99
4	-9	4	103	119	99
4	-9	5	51	21	99
4	-8	-5	110	123	99
4	-8	-4	111	119	99
4	-8	-3	64	49	99
4	-8	-2	32	7	89
4	-8	-1	44	12	90
4	-8	0	43	24	90
4	-8	1	47	61	99
4	-8	2	127	118	99
4	-8	3	136	125	99
4	-8	4	88	103	99
4	-8	5	10	11	99
4	-8	6	25	15	99
4	-7	-5	157	168	99
4	-7	-4	132	133	99
4	-7	-3	46	11	88
4	-7	-2	-36	7	92
4	-7	-1	100	98	99
4	-7	0	66	60	91
4	-7	1	46	43	88
4	-7	2	94	83	97
4	-7	3	90	87	99
4	-7	4	40	33	91
4	-7	5	4	18	99
4	-7	6	58	52	99
4	-6	-6	82	83	99
4	-6	-5	201	207	99
4	-6	-4	111	112	99
4	-6	-3	86	76	99
4	-6	-2	41	17	81
4	-6	-1	209	209	99
4	-6	0	255	249	99
4	-6	1	60	69	93
4	-6	2	21	11	84
4	-6	3	52	44	92
4	-6	4	41	7	80
4	-6	5	34	12	92
4	-6	6	41	62	99
4	-5	-6	41	38	99
4	-5	-5	137	144	99
4	-5	-4	81	65	99
4	-5	-3	69	62	94
4	-5	-2	72	82	99
4	-5	-1	317	315	99
4	-5	0	297	293	99
4	-5	1	56	65	83
4	-5	2	49	21	69
4	-5	3	29	18	81
4	-5	4	89	89	99
4	-5	5	14	26	99
4	-5	6	41	19	99
4	-4	-6	41	46	99
4	-4	-5	67	61	99
4	-4	-4	45	50	90
4	-4	-3	-14	23	92
4	-4	-2	116	111	98
4	-4	-1	409	407	99
4	-4	0	250	246	99
4	-4	1	21	6	71
4	-4	2	-28	6	74
4	-4	3	114	112	99
4	-4	4	132	127	99
4	-4	5	93	84	99
4	-4	6	7	24	99
4	-3	-6	-22	4	99
4	-3	-5	56	62	99
4	-3	-4	134	134	99
4	-3	-3	90	92	98
4	-3	-2	142	149	99
4	-3	-1	235	238	99
4	-3	0	164	165	99
4	-3	1	69	64	73
4	-3	2	23	36	73
4	-3	3	286	277	99
4	-3	4	174	164	99
4	-3	5	57	39	99
4	-3	6	29	4	96
4	-2	-7	53	22	99
4	-2	-6	59	48	99
4	-2	-5	131	135	99
4	-2	-4	196	200	99
4	-2	-3	167	169	99
4	-2	-2	163	165	99
4	-2	-1	187	184	99
4	-2	0	82	88	76
4	-2	1	44	46	66
4	-2	2	95	95	86
4	-2	3	261	255	99
4	-2	4	236	233	99
4	-2	5	-43	5	99
4	-2	6	-16	35	99
4	-1	-7	82	71	99
4	-1	-6	-30	34	99
4	-1	-5	183	174	99
4	-1	-4	317	321	99
4	-1	-3	130	134	99
4	-1	-2	19	32	69
4	-1	-1	187	189	99
4	-1	0	185	187	99
4	-1	1	101	105	81
4	-1	2	140	139	99
4	-1	3	233	225	99
4	-1	4	99	108	99
4	-1	5	45	29	99
4	-1	6	-33	3	99
4	0	-7	60	50	99
4	0	-6	-35	29	99
4	0	-5	181	171	99
4	0	-4	228	223	99
4	0	-3	73	70	78
4	0	-2	36	35	68
4	0	-1	68	68	67
4	0	0	398	398	99
4	0	1	244	246	99
4	0	2	79	75	81
4	0	3	177	173	99
4	0	4	81	87	99
4	0	5	-5	23	99
4	0	6	-24	5	99
4	1	-7	-8	9	99
4	1	-6	84	85	99
4	1	-5	246	249	99
4	1	-4	63	62	93
4	1	-3	150	147	99
4	1	-2	-12	16	67
4	1	-1	214	221	99
4	1	0	333	332	99
4	1	1	309	310	99
4	1	2	125	123	99
4	1	3	29	31	85
4	1	4	109	104	99
4	1	5	78	82	99
4	1	6	22	41	99
4	2	-7	79	69	99
4	2	-6	77	92	99
4	2	-5	166	178	99
4	2	-4	122	116	99
4	2	-3	169	171	99
4	2	-2	67	60	72
4	2	-1	408	404	99
4	2	0	244	244	99
4	2	1	-36	25	72
4	2	2	30	42	79
4	2	3	100	109	99
4	2	4	68	77	99
4	2	5	95	101	99
4	2	6	97	97	99
4	3	-7	87	95	99
4	3	-6	64	68	99
4	3	-5	116	118	99
4	3	-4	139	137	99
4	3	-3	15	8	76
4	3	-2	88	80	77
4	3	-1	304	309	99
4	3	0	312	313	99
4	3	1	142	140	99
4	3	2	177	175	99
4	3	3	159	174	99
4	3	4	195	198	99
4	3	5	89	92	99
4	3	6	24	41	99
4	4	-7	58	51	99
4	4	-6	60	49	99
4	4	-5	139	122	99
4	4	-4	235	235	99
4	4	-3	180	177	99
4	4	-2	152	150	99
4	4	-1	265	270	99
4	4	0	138	143	99
4	4	1	101	105	97
4	4	2	64	63	88
4	4	3	110	114	99
4	4	4	203	215	99
4	4	5	39	46	99
4	4	6	-44	25	99
4	5	-7	28	6	99
4	5	-6	61	59	99
4	5	-5	25	20	99
4	5	-4	292	291	99
4	5	-3	292	287	99
4	5	-2	95	99	93
4	5	-1	217	217	99
4	5	0	180	174	99
4	5	1	-41	11	79
4	5	2	-22	7	82
4	5	3	202	194	99
4	5	4	144	151	99
4	5	5	-17	20	99
4	6	-7	50	59	99
4	6	-6	39	4	99
4	6	-5	100	96	99
4	6	-4	192	181	99
4	6	-3	153	164	99
4	6	-2	69	76	94
4	6	-1	36	27	77
4	6	0	249	248	99
4	6	1	211	217	99
4	6	2	91	89	99
4	6	3	149	138	99
4	6	4	81	88	99
4	6	5	-31	25	99
4	7	-6	46	18	99
4	7	-5	206	193	99
4	7	-4	146	144	99
4	7	-3	48	36	92
4	7	-2	46	43	86
4	7	-1	110	102	99
4	7	0	196	188	99
4	7	1	197	201	99
4	7	2	189	184	99
4	7	3	88	86	99
4	7	4	66	60	99
4	7	5	-53	9	99
4	8	-6	47	53	99
4	8	-5	130	125	99
4	8	-4	138	141	99
4	8	-3	80	80	99
4	8	-2	160	159	99
4	8	-1	162	164	99
4	8	0	264	261	99
4	8	1	117	118	99
4	8	2	4	16	97
4	8	3	63	70	99
4	8	4	77	76	99
4	9	-6	57	58	99
4	9	-5	94	99	99
4	9	-4	100	95	99
4	9	-3	31	25	98
4	9	-2	43	23	89
4	9	-1	101	93	99
4	9	0	206	219	99
4	9	1	55	63	99
4	9	2	76	78	99
4	9	3	19	23	99
4	9	4	97	93	99
4	10	-5	27	54	99
4	10	-4	87	78	99
4	10	-3	46	44	99
4	10	-2	51	64	99
4	10	-1	168	173	99
4	10	0	122	132	99
4	10	1	46	43	99
4	10	2	64	73	99
4	10	3	-15	19	99
4	11	-5	-13	6	99
4	11	-4	89	100	99
4	11	-3	97	104	99
4	11	-2	59	42	99
4	11	-1	131	128	99
4	11	0	92	104	99
4	11	1	24	13	99
4	11	2	58	47	99
4	11	3	39	56	99
4	12	-4	105	98	99
4	12	-3	89	91	99
4	12	-2	51	54	99
4	12	-1	12	29	99
4	12	0	84	71	99
4	12	1	26	22	99
4	12	2	35	13	99
4	13	-3	52	55	99
4	13	-2	9	23	99
4	13	-1	27	10	99
4	13	0	89	81	99
4	13	1	69	61	99
5	-13	0	92	100	99
5	-13	1	38	38	99
5	-12	-2	-15	7	99
5	-12	-1	-17	36	99
5	-12	0	84	72	99
5	-12	1	35	44	99
5	-12	2	52	7	99
5	-12	3	-17	41	99
5	-11	-3	55	55	99
5	-11	-2	44	45	99
5	-11	-1	18	8	99
5	-11	0	35	24	99
5	-11	1	-20	18	99
5	-11	2	-27	14	99
5	-11	3	70	67	99
5	-10	-3	60	57	99
5	-10	-2	40	8	99
5	-10	-1	-28	4	99
5	-10	0	31	11	99
5	-10	1	-16	28	99
5	-10	2	41	42	99
5	-10	3	50	39	99
5	-10	4	72	67	99
5	-9	-4	144	154	99
5	-9	-3	86	81	99
5	-9	-2	-18	28	99
5	-9	-1	36	15	99
5	-9	0	68	56	99
5	-9	1	39	46	99
5	-9	2	54	39	99
5	-9	3	57	46	99
5	-9	4	-13	19	99
5	-9	5	30	10	99
5	-8	-4	114	130	99
5	-8	-3	16	45	99
5	-8	-2	35	39	99
5	-8	-1	-43	35	99
5	-8	0	191	186	99
5	-8	1	133	124	99
5	-8	2	27	6	96
5	-8	3	-33	4	99
5	-8	4	20	15	99
5	-8	5	23	13	99
5	-7	-5	47	61	99
5	-7	-4	53	55	99
5	-7	-3	27	25	99
5	-7	-2	59	24	94
5	-7	-1	91	65	99

h	k	l	Fo	Fc	sigF2
5	-7	0	196	200	99
5	-7	1	172	162	99
5	-7	2	18	32	99
5	-7	3	48	40	99
5	-7	4	-16	28	99
5	-7	5	40	40	99
5	-6	-5	-31	9	99
5	-6	-4	40	60	99
5	-6	-3	-28	36	99
5	-6	-2	29	16	98
5	-6	-1	178	179	99
5	-6	0	211	212	99
5	-6	1	61	74	99
5	-6	2	-30	16	93
5	-6	3	46	45	98
5	-6	4	76	69	99
5	-6	5	58	66	99
5	-5	-5	-34	4	99
5	-5	-4	81	89	99
5	-5	-3	112	117	99
5	-5	-2	69	65	92
5	-5	-1	92	97	99
5	-5	0	212	208	99
5	-5	1	69	67	92
5	-5	2	60	61	92
5	-5	3	88	78	99
5	-5	4	158	156	99
5	-5	5	82	76	99
5	-4	-6	64	66	99
5	-4	-5	-32	15	99
5	-4	-4	136	142	99
5	-4	-3	217	221	99
5	-4	-2	135	133	99
5	-4	-1	73	60	90
5	-4	0	78	77	94
5	-4	1	75	68	93
5	-4	2	31	33	94
5	-4	3	73	68	96
5	-4	4	196	187	99
5	-4	5	78	83	99
5	-4	6	-25	28	99
5	-3	-6	50	56	99
5	-3	-5	-33	6	99
5	-3	-4	210	205	99
5	-3	-3	224	223	99
5	-3	-2	25	36	88
5	-3	-1	28	39	87
5	-3	0	118	124	99
5	-3	1	145	139	99
5	-3	2	95	86	99
5	-3	3	107	104	99
5	-3	4	111	106	99
5	-3	5	59	63	99
5	-3	6	-49	3	99
5	-2	-6	-3	33	99
5	-2	-5	67	75	99
5	-2	-4	197	194	99
5	-2	-3	155	157	99
5	-2	-2	-29	6	85
5	-2	-1	105	100	95
5	-2	0	160	155	99
5	-2	1	267	271	99
5	-2	2	158	155	99
5	-2	3	90	78	99
5	-2	4	53	50	99
5	-2	5	27	38	99
5	-2	6	35	8	99
5	-1	-6	19	13	99
5	-1	-5	149	147	99
5	-1	-4	176	184	99
5	-1	-3	-35	15	91
5	-1	-2	105	106	99
5	-1	-1	77	74	87
5	-1	0	201	200	99
5	-1	1	218	215	99
5	-1	2	154	154	99
5	-1	3	32	19	89
5	-1	4	51	41	99
5	-1	5	58	56	99
5	-1	6	46	50	99
5	0	-6	79	82	99
5	0	-5	79	78	99
5	0	-4	230	225	99
5	0	-3	57	55	91
5	0	-2	209	215	99
5	0	-1	73	74	86
5	0	0	340	344	99
5	0	1	183	179	99
5	0	2	41	54	91
5	0	3	-13	19	91
5	0	4	73	60	99
5	0	5	71	75	99
5	0	6	63	82	99
5	1	-6	87	93	99
5	1	-5	8	18	99
5	1	-4	115	111	99
5	1	-3	199	199	99
5	1	-2	95	98	96
5	1	-1	43	48	82
5	1	0	285	282	99
5	1	1	141	137	99
5	1	2	152	153	99
5	1	3	53	51	94
5	1	4	146	142	99
5	1	5	124	125	99
5	2	-6	-2	8	99
5	2	-5	34	10	99
5	2	-4	106	109	99
5	2	-3	238	244	99
5	2	-2	218	207	99
5	2	-1	191	193	99
5	2	0	195	191	99
5	2	1	100	93	98
5	2	2	67	55	88
5	2	3	69	69	99
5	2	4	146	146	99
5	2	5	131	129	99
5	3	-6	60	41	99
5	3	-5	77	84	99
5	3	-4	138	139	99
5	3	-3	320	324	99
5	3	-2	211	205	99
5	3	-1	95	101	98
5	3	0	122	130	99
5	3	1	138	143	99
5	3	2	48	45	90
5	3	3	82	83	99
5	3	4	114	112	99
5	3	5	81	65	99
5	4	-6	67	65	99
5	4	-5	24	18	99
5	4	-4	145	139	99
5	4	-3	183	181	99
5	4	-2	140	137	99
5	4	-1	-19	6	85
5	4	0	124	123	99
5	4	1	199	200	99
5	4	2	151	151	99
5	4	3	129	125	93
5	4	4	99	102	99
5	4	5	29	40	99
5	5	-6	56	65	99
5	5	-5	60	77	99
5	5	-4	234	240	99
5	5	-3	116	116	99
5	5	-2	121	124	99
5	5	-1	62	62	92
5	5	0	125	136	99
5	5	1	245	235	99
5	5	2	189	189	99
5	5	3	81	74	99
5	5	4	80	78	99
5	5	5	-55	36	99
5	6	-6	72	68	99
5	6	-5	58	38	99
5	6	-4	184	182	99
5	6	-3	135	137	99
5	6	-2	113	122	99
5	6	-1	76	79	99
5	6	0	154	157	99
5	6	1	234	235	99
5	6	2	67	65	99
5	6	3	30	13	99
5	6	4	49	44	99
5	7	-6	100	92	99
5	7	-5	81	78	99
5	7	-4	98	97	99
5	7	-3	58	67	99
5	7	-2	41	7	88
5	7	-1	-8	7	91
5	7	0	195	195	99
5	7	1	178	174	99
5	7	2	-34	21	99
5	7	3	48	66	99
5	7	4	37	27	99
5	8	-5	45	6	99
5	8	-4	43	62	99
5	8	-3	120	121	99
5	8	-2	60	63	99
5	8	-1	97	102	99
5	8	0	155	166	99
5	8	1	98	92	99
5	8	2	45	37	99
5	8	3	72	69	99
5	8	4	53	61	99
5	9	-5	51	55	99
5	9	-4	31	32	99
5	9	-3	147	142	99
5	9	-2	107	105	99
5	9	-1	90	99	99
5	9	0	117	118	99
5	9	1	68	73	99
5	9	2	38	38	99
5	9	3	-28	4	99
5	10	-5	35	21	99
5	10	-4	76	74	99
5	10	-3	146	149	99
5	10	-2	93	97	99
5	10	-1	12	20	99
5	10	0	59	62	99
5	10	1	81	87	99
5	10	2	44	22	99
5	11	-4	90	89	99
5	11	-3	157	150	99
5	11	-2	60	59	99
5	11	-1	49	45	99
5	11	0	-11	6	99
5	11	1	103	97	99
5	11	2	81	85	99
5	12	-3	91	95	99
5	12	-2	23	4	99
5	12	-1	-18	19	99
5	12	0	-43	23	99
6	-11	-1	34	22	99
6	-11	0	-19	18	99
6	-11	1	66	46	99
6	-11	2	37	31	99
6	-10	-2	17	32	99
6	-10	-1	-6	19	99
6	-10	0	31	48	99
6	-10	1	101	93	99
6	-10	2	-11	45	99
6	-10	3	13	4	99
6	-9	-3	21	39	99
6	-9	-2	6	4	99
6	-9	-1	-6	20	99
6	-9	0	81	81	99
6	-9	1	134	118	99
6	-9	2	63	68	99
6	-9	3	21	14	99
6	-8	-4	8	19	99
6	-8	-3	64	64	99
6	-8	-2	26	22	99
6	-8	-1	-28	34	99
6	-8	0	111	111	99
6	-8	1	108	101	99
6	-8	2	35	21	99
6	-8	3	-24	15	99
6	-8	4	48	29	99
6	-7	-4	28	14	99
6	-7	-3	74	84	99
6	-7	-2	102	110	99
6	-7	-1	44	33	99
6	-7	0	85	86	99
6	-7	1	111	108	99
6	-7	2	43	5	94
6	-7	3	-28	18	99
6	-7	4	73	72	99
6	-6	-4	27	19	99
6	-6	-3	129	131	99
6	-6	-2	149	152	99
6	-6	-1	60	63	99
6	-6	0	-6	5	99
6	-6	1	52	62	99
6	-6	2	80	82	99
6	-6	3	23	12	99
6	-6	4	64	56	99
6	-5	-5	55	58	99
6	-5	-4	47	47	99
6	-5	-3	169	163	99
6	-5	-2	121	121	99
6	-5	-1	25	35	99
6	-5	0	32	11	95
6	-5	1	58	56	99
6	-5	2	91	91	99
6	-5	3	93	94	99
6	-5	4	55	46	99
6	-5	5	68	47	99
6	-4	-5	-39	10	99
6	-4	-4	91	100	99
6	-4	-3	144	142	99
6	-4	-2	56	56	99
6	-4	-1	88	76	99
6	-4	0	-4	16	88
6	-4	1	139	142	99
6	-4	2	135	134	99
6	-4	3	75	78	99
6	-4	4	46	37	99
6	-4	5	49	21	99
6	-3	-5	34	34	99
6	-3	-4	130	136	99
6	-3	-3	149	145	99
6	-3	-2	38	32	97
6	-3	-1	86	71	97
6	-3	0	44	43	91
6	-3	1	155	155	99
6	-3	2	144	139	99
6	-3	3	49	33	99
6	-3	4	-34	24	99
6	-3	5	-20	23	99
6	-2	-5	48	50	99
6	-2	-4	81	76	99
6	-2	-3	163	164	99
6	-2	-2	-35	8	93
6	-2	-1	89	76	92
6	-2	0	121	122	99
6	-2	1	224	223	99
6	-2	2	-29	40	99
6	-2	3	61	48	99
6	-2	4	-51	5	99
6	-2	5	69	60	99
6	-1	-6	129	137	99
6	-1	-5	52	67	99
6	-1	-4	18	8	97
6	-1	-3	126	125	99
6	-1	-2	213	215	99
6	-1	-1	35	43	92
6	-1	0	88	83	99
6	-1	1	180	190	99
6	-1	2	75	56	96
6	-1	3	93	96	99
6	-1	4	14	18	99
6	-1	5	96	88	99
6	0	-6	70	62	99
6	0	-5	25	12	99
6	0	-4	-4	20	99
6	0	-3	106	112	99
6	0	-2	231	234	99
6	0	-1	246	234	99
6	0	0	118	118	99
6	0	1	94	88	99
6	0	2	76	63	95
6	0	3	23	39	99
6	0	4	46	24	99
6	0	5	94	88	99
6	1	-6	-14	18	99
6	1	-5	86	94	99
6	1	-4	-23	5	99
6	1	-3	190	186	99
6	1	-2	214	212	99
6	1	-1	131	123	99
6	1	0	81	83	99
6	1	1	118	119	99
6	1	2	81	88	99
6	1	3	70	77	99
6	1	4	57	57	99
6	1	5	46	67	99
6	2	-6	11	15	99
6	2	-5	72	68	99
6	2	-4	53	40	99
6	2	-3	200	190	99
6	2	-2	193	188	99
6	2	-1	35	9	85
6	2	0	15	8	85
6	2	1	107	110	99
6	2	2	159	162	99
6	2	3	135	130	99
6	2	4	94	93	99
6	3	-6	55	40	99
6	3	-5	-49	9	99
6	3	-4	102	107	99
6	3	-3	212	215	99
6	3	-2	33	44	99
6	3	-1	97	105	99
6	3	0	64	41	89
6	3	1	156	157	99
6	3	2	191	202	99
6	3	3	75	75	99
6	3	4	53	54	99
6	4	-6	110	123	99
6	4	-5	65	55	99
6	4	-4	85	90	99
6	4	-3	191	188	99
6	4	-2	81	63	99
6	4	-1	101	107	99
6	4	0	25	34	97
6	4	1	175	173	99
6	4	2	156	165	99
6	4	3	47	45	99
6	4	4	25	28	99
6	5	-5	98	100	99
6	5	-4	32	47	99
6	5	-3	61	77	99
6	5	-2	90	93	99
6	5	-1	18	7	93
6	5	0	105	96	99
6	5	1	153	162	99
6	5	2	67	74	99
6	5	3	35	35	99
6	5	4	48	29	99
6	6	-5	16	31	99
6	6	-4	-32	8	99
6	6	-3	86	87	99
6	6	-2	126	109	99
6	6	-1	74	81	99
6	6	0	97	107	99
6	6	1	158	158	99
6	6	2	67	62	99
6	6	3	90	81	99
6	7	-5	42	33	99
6	7	-4	56	58	99
6	7	-3	77	89	99
6	7	-2	179	178	99
6	7	-1	108	117	99
6	7	0	44	57	99
6	7	1	78	87	99
6	7	2	53	43	99
6	7	3	44	4	99
6	8	-5	-33	12	99
6	8	-4	40	19	99
6	8	-3	103	105	99
6	8	-2	188	189	99
6	8	-1	65	44	99
6	8	0	10	5	98
6	8	1	49	58	99
6	8	2	69	68	99
6	9	-4	68	42	99
6	9	-3	140	145	99
6	9	-2	151	150	99
6	9	-1	-14	30	99
6	9	0	71	81	99
6	9	1	19	21	99
6	9	2	130	131	99
6	10	-3	127	133	99
6	10	-2	78	67	99
6	10	-1	-34	6	99
6	10	0	33	6	99
6	10	1	44	47	99
6	11	-2	66	64	99
6	11	-1	66	53	99
7	-9	-1	68	67	99
7	-9	0	25	19	99
7	-9	1	-14	37	99
7	-8	-2	76	74	99
7	-8	-1	98	95	99
7	-8	0	16	24	99
7	-8	1	-15	4	99
7	-8	2	44	47	99
7	-7	-3	76	77	99
7	-7	-2	98	94	99
7	-7	-1	48	40	99
7	-7	0	-26	8	99
7	-7	1	29	5	99
7	-7	2	32	30	99
7	-7	3	76	76	99
7	-6	-3	91	82	99
7	-6	-2	100	98	99
7	-6	-1	36	15	99
7	-6	0	21	36	99
7	-6	1	15	42	99
7	-6	2	81	70	99
7	-6	3	44	51	99
7	-5	-4	45	49	99
7	-5	-3	116	103	99
7	-5	-2	83	77	99
7	-5	-1	13	26	99
7	-5	0	56	57	99
7	-5	1	50	57	99
7	-5	2	118	119	99
7	-5	3	48	37	99
7	-4	-4	51	28	99
7	-4	-3	58	55	99
7	-4	-2	113	108	99
7	-4	-1	55	34	99
7	-4	0	-45	7	99
7	-4	1	86	81	99
7	-4	2	99	96	99
7	-4	3	36	22	99
7	-4	4	49	40	99
7	-3	-4	-40	28	99
7	-3	-3	-27	12	99
7	-3	-2	99	112	99
7	-3	-1	131	131	99
7	-3	0	73	75	99
7	-3	1	92	83	99
7	-3	2	100	90	99
7	-3	3	-33	4	99
7	-3	4	41	40	99
7	-2	-4	37	28	99
7	-2	-3	28	19	99
7	-2	-2	113	115	99
7	-2	-1	187	193	99
7	-2	0	118	123	99
7	-2	1	60	56	99
7	-2	2	63	67	99
7	-2	3	33	28	99
7	-2	4	38	9	99
7	-1	-5	-28	28	99
7	-1	-4	87	83	99
7	-1	-3	44	42	99
7	-1	-2	155	161	99
7	-1	-1	141	138	99
7	-1	0	86	74	99
7	-1	1	60	59	99
7	-1	2	51	56	99
7	-1	3	76	77	99
7	-1	4	38	51	99
7	0	-5	27	5	99
7	0	-4	49	48	99
7	0	-3	79	76	99
7	0	-2	191	196	99
7	0	-1	59	62	99
7	0	0	40	51	99
7	0	1	-11	12	99
7	0	2	103	112	99
7	0	3	112	113	99
7	0	4	70	77	99
7	1	-5	32	54	99
7	1	-4	14	21	99
7	1	-3	106	105	99
7	1	-2	150	148	99
7	1	-1	25	43	99
7	1	0	97	100	99
7	1	1	39	17	98
7	1	2	137	139	99
7	1	3	117	114	99
7	2	-5	122	115	99
7	2	-4	83	83	99
7	2	-3	91	98	99
7	2	-2	105	105	99
7	2	-1	32	11	99
7	2	0	54	49	98
7	2	1	32	39	99
7	2	2	120	117	99
7	2	3	111	100	99
7	3	-5	131	129	99
7	3	-4	44	54	99
7	3	-3	48	38	99
7	3	-2	104	109	99
7	3	-1	56	48	99
7	3	0	47	31	99
7	3	1	109	99	99
7	3	2	111	107	99
7	3	3	-26	18	99
7	4	-4	17	9	99
7	4	-3	11	24	99
7	4	-2	84	84	99
7	4	-1	140	143	99
7	4	0	35	70	99
7	4	1	77	93	99
7	4	2	124	119	99
7	4	3	-22	10	99
7	5	-4	33	44	99
7	5	-3	-10	26	99
7	5	-2	110	115	99
7	5	-1	178	169	99
7	5	0	84	79	99
7	5	1	32	29	99
7	5	2	42	54	99
7	6	-4	47	35	99
7	6	-3	-22	6	99
7	6	-2	162	164	99
7	6	-1	144	150	99
7	6	0	42	32	99
7	6	1	29	17	99
7	6	2	36	34	99
7	6	3	30	34	99
7	7	-2	136	138	99
7	7	-1	119	124	99
7	7	0	38	19	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
7	7	1	54	50	99	8	3	-2	50	9	99																		
7	8	-3	96	114	99	8	3	-1	104	103	99																		
7	8	-2	130	132	99	8	3	0	143	145	99																		
7	8	-1	38	42	99	8	3	1	47	53	99																		
7	8	0	-20	13	99	8	4	-3	31	23	99																		
7	8	1	-31	13	99	8	4	-2	76	75	99																		
7	9	-1	34	23	99	8	4	-1	136	138	99																		
8	-6	-1	20	57	99	8	4	0	86	90	99																		
8	-6	0	30	36	99	8	4	1	52	10	99																		
8	-5	-2	29	17	99	8	5	-2	61	83	99																		
8	-5	-1	84	79	99	8	5	-1	132	143	99																		
8	-5	0	86	94	99	8	5	0	57	63	99																		
8	-5	1	78	62	99																								
8	-4	-2	55	26	99																								
8	-4	-1	85	101	99																								
8	-4	0	100	100	99																								
8	-4	1	55	62	99																								
8	-4	2	62	51	99																								
8	-3	-3	-25	50	99																								
8	-3	-2	70	64	99																								
8	-3	-1	119	120	99																								
8	-3	0	86	74	99																								
8	-3	1	-40	22	99																								
8	-3	2	32	20	99																								
8	-2	-3	19	21	99																								
8	-2	-2	74	79	99																								
8	-2	-1	116	107	99																								
8	-2	0	16	17	99																								
8	-2	1	8	33	99																								
8	-2	2	31	23	99																								
8	-1	-3	62	51	99																								
8	-1	-2	82	78	99																								
8	-1	-1	95	97	99																								
8	-1	0	19	12	99																								
8	-1	1	50	67	99																								
8	-1	2	19	26	99																								
8	0	-3	57	68	99																								
8	0	-2	37	67	99																								
8	0	-1	57	51	99																								
8	0	0	-7	14	99																								
8	0	1	-22	4	99																								
8	0	2	57	31	99																								
8	1	-3	-22	19	99																								
8	1	-2	60	51	99																								
8	1	-1	75	67	99																								
8	1	0	53	31	99																								
8	1	1	51	45	99																								
8	1	2	92	89	99																								
8	2	-3	12	40	99																								
8	2	-2	53	26	99																								
8	2	-1	124	126	99																								
8	2	0	117	113	99																								
8	2	1	25	36	99																								
8	2	2	59	67	99																								
8	3	-3	43	34	99																								

APPENDIX 3.VIII

$[Ni(S_2COHex)_2]$

Table 3.VIII.1: Crystallographic Parameters for $[Ni(S_2COCH_2CH_2CH_2CH_2CH_2CH_3)_2]$

Formula	$C_{14}H_{26}NiO_2S_4$
Formula weight	413.30
Crystal morphology / colour	block / brown
Crystal dimensions (mm)	0.05 x 0.19 x 0.35
Crystal system	triclinic
Space group	$P\bar{1}$ (#2)
a (Å)	7.566(2)
b (Å)	10.713(4)
c (Å)	6.779(2)
α (°)	97.73(3)
β (°)	111.22(2)
γ (°)	103.19(2)
V (Å^3)	484.2(3)
Z	1
$\rho_{calc.}$ (g cm^{-3})	1.417
$F(000)$	218
Temperature (°K)	200
μ (cm^{-1})	14.21
θ limits, cell (°)	27.1 – 27.5
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 9, -13 – 12, -8 – 7
Range of transmission factors	0.906 – 1
Scan technique	ω:2θ
No. of data measured	2416
No. of unique data	2245
R_{amal}	0.078
No. of parameters	97
R (I≥0σ(I))	0.091
R_w (I≥0σ(I))	0.121
R (I≥3σ(I))	0.049
R_w (I≥3σ(I))	0.058
Maximum and minimum residual electron density (e Å^{-3})	0.75, -0.95

Table 3.VIII.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2COCH_2CH_2CH_2CH_2CH_2CH_3)_2]$

Atom	*x*	*y*	*z*
Ni	0	0	0
S(1)	-0.2605(1)	-0.1730(1)	-0.1946(1)
S(2)	-0.1706(1)	-0.00024(9)	0.2057(1)
O(1)	-0.4945(4)	-0.2108(2)	0.0085(4)
C(1)	-0.3308(5)	-0.1361(3)	0.0112(5)
C(2)	-0.5514(5)	-0.1766(4)	0.1887(5)
C(3)	-0.7437(5)	-0.2789(4)	0.1393(6)
C(4)	-0.8252(5)	-0.2558(3)	0.3105(6)
C(5)	-1.0173(5)	-0.3610(4)	0.2589(6)
C(6)	-1.1080(5)	-0.3433(4)	0.4220(6)
C(7)	-1.3020(6)	-0.4489(4)	0.3627(7)

Table 3.VIII.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2CO(CH_2CH_2CH_2CH_2CH_2CH_3)2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0325(3)	0.0350(4)	0.0324(3)	0.0102(3)	0.0112(3)	0.0113(3)
S(1)	0.0416(5)	0.0452(6)	0.0368(5)	0.0055(4)	0.0165(4)	0.0026(4)
S(2)	0.0388(5)	0.0379(6)	0.0362(5)	0.0066(4)	0.0148(4)	0.0063(4)
O(1)	0.038(1)	0.041(2)	0.041(1)	0.006(1)	0.018(1)	0.006(1)
C(1)	0.036(2)	0.035(2)	0.035(2)	0.016(2)	0.012(1)	0.014(2)
C(2)	0.039(2)	0.042(2)	0.037(2)	0.014(2)	0.016(2)	0.012(2)
C(3)	0.039(2)	0.037(2)	0.045(2)	0.011(2)	0.018(2)	0.011(2)
C(4)	0.039(2)	0.033(2)	0.042(2)	0.012(2)	0.016(2)	0.011(2)
C(5)	0.037(2)	0.036(2)	0.041(2)	0.012(2)	0.014(2)	0.012(2)
C(6)	0.044(2)	0.038(2)	0.052(2)	0.012(2)	0.023(2)	0.015(2)
C(7)	0.051(2)	0.047(3)	0.075(3)	0.008(2)	0.034(2)	0.012(2)

Table 3.VIII.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Ni(S_2CO(CH_2CH_2CH_2CH_2CH_2CH_3)_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	-0.5692	-0.0895	0.1979	3.6457
H(2b)	-0.4502	-0.1783	0.3252	3.6457
H(3a)	-0.7220	-0.3649	0.1309	3.8186
H(3b)	-0.8409	-0.2773	-0.0002	3.8186
H(4a)	-0.8492	-0.1705	0.3176	3.5674
H(4b)	-0.7278	-0.2563	0.4505	3.5674
H(5a)	-0.9914	-0.4457	0.2526	3.6383
H(5b)	-1.1128	-0.3606	0.1176	3.6383
H(6a)	-1.1321	-0.2581	0.4308	4.1090
H(6b)	-1.0144	-0.3457	0.5631	4.1090
H(7a)	-1.3975	-0.4474	0.2222	5.3755
H(7b)	-1.3532	-0.4322	0.4726	5.3755
H(7c)	-1.2798	-0.5348	0.3554	5.3755

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 3.VIII.5: Bond distances (Å) for [Ni($S_2COCH_2CH_2CH_2CH_2CH_2CH_3$)2]

Ni — S(1)	2.204(1)	C(2) — C(3)	1.500(5)
Ni — S(2)	2.2168(8)	C(3) — C(4)	1.516(4)
S(1) — C(1)	1.694(3)	C(4) — C(5)	1.511(5)
S(2) — C(1)	1.688(4)	C(5) — C(6)	1.511(5)
O(1) — C(1)	1.304(4)	C(6) — C(7)	1.513(5)
O(1) — C(2)	1.464(4)		

Table 3.VIII.6: Bond angles (deg.) for [Ni($S_2COCH_2CH_2CH_2CH_2CH_2CH_3$)2]

S(1) — Ni — S(1)*	180(-)	S(1) — C(1) — O(1)	120.0(3)
S(1) — Ni — S(2)*	100.48(4)	S(2) — C(1) — O(1)	126.6(2)
S(1) — Ni — S(2)	79.52(4)	O(1) — C(2) — C(3)	106.3(3)
S(2) — Ni — S(2)*	180(-)	C(2) — C(3) — C(4)	112.9(3)
Ni — S(1) — C(1)	83.6(1)	C(3) — C(4) — C(5)	111.9(3)
Ni — S(2) — C(1)	83.4(1)	C(4) — C(5) — C(6)	114.7(3)
C(1) — O(1) — C(2)	118.8(3)	C(5) — C(6) — C(7)	113.2(3)
S(1) — C(1) — S(2)	113.4(2)		

* atom related by a centre of symmetry

Table 3.VIII.7: Observed and calculated structure factors for $[Ni(S_2COCH_2CH_2CH_2CH_2CH_3)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	1	574	556	99	0	4	-7	-28	8	53	0	7	3	56	36	50	0	12	2	59	47	93	1	-8	-4	240	220	99
0	0	2	121	124	64	0	4	-6	90	96	44	0	7	4	102	91	83	0	13	-4	18	40	95	1	-8	-3	100	88	64
0	0	3	28	25	15	0	4	-5	130	135	79	0	7	5	121	99	99	0	13	-3	20	14	99	1	-8	-2	116	116	76
0	0	4	265	277	99	0	4	-4	251	253	99	0	8	-7	43	47	38	0	13	-2	23	36	99	1	-8	-1	18	10	65
0	0	5	358	361	99	0	4	-3	174	176	99	0	8	-6	67	77	46	0	13	-1	75	80	98	1	-8	0	238	240	99
0	0	6	157	160	99	0	4	-2	36	34	15	0	8	-5	100	103	55	0	13	0	50	48	91	1	-8	1	313	318	99
0	0	7	-21	13	69	0	4	-1	102	114	59	0	8	-4	101	103	55	1	-13	-1	27	11	99	1	-8	2	123	117	79
0	1	-8	35	31	26	0	4	0	297	332	99	0	8	-3	96	101	54	1	-13	0	69	53	99	1	-8	3	46	41	38
0	1	-7	13	9	51	0	4	1	318	341	99	0	8	-2	54	57	37	1	-13	1	118	116	99	1	-8	4	21	15	72
0	1	-6	186	201	99	0	4	2	167	171	99	0	8	-1	162	180	99	1	-13	2	-3	36	99	1	-8	5	183	178	99
0	1	-5	252	261	99	0	4	3	52	50	34	0	8	0	140	151	99	1	-13	3	62	66	99	1	-8	6	157	153	99
0	1	-4	154	157	99	0	4	4	11	8	37	0	8	1	-36	47	99	1	-13	4	32	7	99	1	-8	7	29	27	99
0	1	-3	101	101	47	0	4	5	101	85	70	0	8	2	30	51	99	1	-12	-2	-23	14	99	1	-7	-6	43	33	45
0	1	-2	173	159	99	0	4	6	108	85	82	0	8	3	97	89	81	1	-12	-1	30	50	99	1	-7	-5	117	110	78
0	1	-1	405	375	99	0	4	7	44	22	60	0	8	4	133	112	99	1	-12	0	88	90	97	1	-7	-4	109	105	67
0	1	1	782	825	99	0	5	-8	10	15	38	0	8	5	20	16	78	1	-12	1	-47	31	99	1	-7	-3	80	83	52
0	1	2	86	85	39	0	5	-7	44	51	32	0	9	-7	-26	28	86	1	-12	2	77	75	93	1	-7	-2	15	7	55
0	1	3	83	85	38	0	5	-6	90	91	45	0	9	-6	38	34	38	1	-12	3	18	53	99	1	-7	-1	104	108	62
0	1	4	363	341	99	0	5	-5	328	334	99	0	9	-5	78	89	52	1	-12	4	21	25	99	1	-7	0	324	332	99
0	1	5	278	273	99	0	5	-4	271	274	99	0	9	-4	110	113	67	1	-12	5	73	66	88	1	-7	1	300	301	99
0	1	6	64	63	40	0	5	-3	51	49	21	0	9	-3	145	157	99	1	-11	-3	82	72	86	1	-7	2	61	60	35
0	1	7	19	27	75	0	5	-2	61	63	23	0	9	-2	125	144	86	1	-11	-2	81	70	79	1	-7	3	32	25	30
0	2	-8	24	29	25	0	5	-1	175	192	99	0	9	-1	-24	8	90	1	-11	-1	59	50	67	1	-7	4	86	85	49
0	2	-7	-7	15	48	0	5	0	459	504	99	0	9	0	116	115	80	1	-11	0	80	73	75	1	-7	5	171	165	99
0	2	-6	42	48	28	0	5	1	364	387	99	0	9	1	115	117	85	1	-11	1	88	88	84	1	-7	6	169	175	99
0	2	-5	132	136	80	0	5	2	18	7	53	0	9	2	77	77	77	1	-11	2	-16	21	99	1	-7	7	41	35	48
0	2	-4	33	37	19	0	5	3	43	38	37	0	9	3	88	70	79	1	-11	3	103	99	87	1	-6	-6	16	29	82
0	2	-3	58	56	20	0	5	4	157	133	99	0	9	4	69	60	83	1	-11	4	97	95	89	1	-6	-5	73	65	48
0	2	-2	90	84	45	0	5	5	171	147	99	0	10	-6	-28	22	80	1	-11	5	56	58	71	1	-6	-4	65	57	40
0	2	-1	434	421	99	0	5	6	118	91	92	0	10	-5	89	93	62	1	-11	6	51	49	74	1	-6	-3	-19	9	56
0	2	0	13	17	10	0	6	-8	-20	10	57	0	10	-4	120	125	77	1	-10	-4	37	35	99	1	-6	-2	67	72	34
0	2	1	198	210	99	0	6	-7	-13	4	64	0	10	-3	16	8	75	1	-10	-3	122	109	94	1	-6	-1	124	133	73
0	2	2	38	40	18	0	6	-6	86	94	47	0	10	-2	41	32	46	1	-10	-2	55	47	59	1	-6	0	244	249	99
0	2	3	137	137	99	0	6	-5	239	252	99	0	10	-1	117	119	85	1	-10	-1	23	13	94	1	-6	1	150	155	99
0	2	4	248	222	99	0	6	-4	183	187	99	0	10	0	76	79	70	1	-10	0	30	51	99	1	-6	2	71	69	32
0	2	5	128	111	84	0	6	-3	55	53	26	0	10	1	134	128	99	1	-10	1	157	153	99	1	-6	3	42	40	27
0	2	6	-11	5	70	0	6	-2	-8	33	42	0	10	2	45	40	68	1	-10	2	142	137	99	1	-6	4	128	127	85
0	2	7	32	14	44	0	6	-1	246	281	99	0	10	3	15	13	99	1	-10	3	21	11	55	1	-6	5	122	115	76
0	3	-8	46	54	32	0	6	0	412	450	99	0	11	-6	27	26	98	1	-10	4	-30	43	99	1	-6	6	28	30	38
0	3	-7	60	64	31	0	6	1	176	184	99	0	11	-5	88	105	71	1	-10	5	55	67	67	1	-6	7	50	48	46
0	3	-6	53	49	27	0	6	2	71	70	44	0	11	-4	71	76	57	1	-10	6	75	79	70	1	-5	-7	36	36	42
0	3	-5	14	26	46	0	6	3	98	94	64	0	11	-3	30	27	99	1	-9	-5	78	74	76	1	-5	-6	-30	4	67
0	3	-4	153	155	99	0	6	4	160	139	99	0	11	-2	114	123	85	1	-9	-4	145	133	99	1	-5	-5	14	10	42
0	3	-3	119	116	71	0	6	5	258	217	99	0	11	-1	56	68	72	1	-9	-3	50	52	58	1	-5	-4	84	79	43
0	3	-2	156	148	95	0	6	6	56	46	75	0	11	0	190	190	99	1	-9	-2	26	22	97	1	-5	-3	132	131	82
0	3	-1	36	39	13	0	7	-7	34	29	33	0	11	1	69	60	84	1	-9	-1	47	57	51	1	-5	-2	98	94	52
0	3	0	137	151	82	0	7	-6	120	126	74	0	11	2	32	24	99	1	-9	0	126	125	92	1	-5	-1	51	44	23
0	3	1	50	53	21	0	7	-5	148	153	99	0	11	3	56	45	86	1	-9	1	233	237	99	1	-5	0	70	67	28
0	3	2	75	83	31	0	7	-4	76	77	39	0	12	-5	77	85	76	1	-9	2	174	166	99	1	-5	1	154	154	99
0	3	3	71	65	36	0	7	-3	45	52	29	0	12	-4	38	51	60	1	-9	3	-28	6	99	1	-5	2	106	109	54
0	3	4	78	71	47	0	7	-2	65	67	33	0	12	-3	29	32	99	1	-9	4	-18	24	99	1	-5	3	105	105	59
0	3	5	69	48	49	0	7	-1	251	274	99	0	12	-2	27	24	95	1	-9	5	89	89	66	1	-5	4	63	59	33
0	3	6	-27	9	99	0	7	0	239	259	99	0	12	-1	9	16	99	1	-9	6	106	103	78	1	-5	5	74	76	40
0	3	7	-51	23	99	0	7	1	75	74	46	0	12	0	97	110	99	1	-9	7	70	65	61	1	-5	6	31	18	33
0	4	-8	20	26	39	0	7	2	75	73	54	0	12	1	6	51	99	1	-8	-5	91	81	69	1	-5	7	19	16	75
1	-4	-7	25	23	63	1	-1	2	333	338	99	1	3	-7	-10	17	49	1	6	3	95	93	67	1	11	-2	45	47	65
1	-4	-6	41	44	35	1	-1	3	14	14	30	1	3	-6	63	60	30	1	6	4	104	100	79	1	11	-1	80	82	84
1	-4	-5	37	37	30	1	-1	4	117	124	68	1	3	-5	226	213	99	1	6	5	95	85	91	1	11	0	122	114	99
1	-4	-4	227	225	99	1	-1	5	237	238	99	1	3	-4	595	542	99	1	7	-8	66	82	44	1	11	1	61	51	78
1	-4	-3	263	286	99	1	-1	6	134	137	99	1	3	-3	323	295	99	1	7	-7	45	46	36	1	11	2	21	10	99
1	-4	-2	69	77	26	1	-1	7	5	12	39	1	3	-2	109	97	62	1	7	-6	-29	13	65	1	12	-5	16	22	85
1	-4	-1	81	83	38	1	0	-8	32	39	27	1	3	-1	46	50	18	1	7	-5	49	46	32	1	12	-4	70	75	66
1	-4	0	43	46	19	1	0	-7	64	72	34	1	3	0	394	437	99	1	7	-4	191	180	99	1	12	-3	69	74	66
1	-4	1	193	202	99	1	0	-6	11	28	43	1	3	1	522	579	99	1	7	-3	206	200	99	1	12	-2	57	63	85
1	-4	2	335	331	99	1	0	-5	14	8	21	1	3	2	267	280	99	1	7	-2	181	204	99	1	12	-1	59	60	82
1	-4	3	41	44	20	1	0	-4	113	116	74	1	3	3	81	87	43	1	7	-1	162	172	99	1	12	0	66	66	90
1	-4	4	5	8	51	1	0	-3	41	42	15	1	3	4	2	26	72	1	7	0	-17	7	75	1	12	1	57	56	93
1	-4	5	68	66	16	1	0	-2	228	205	99	1	3	5	208	181	99	1	7	1	157	167	99	1	13	-3	78	73	80
1	-4	6	138	138	99	1	0	-1	90	81	36	1	3	6	161	138	99	1	7	2	155	161	99	1	13	-2	39	26	99
1	-4	7	50	50	42	1	0	0	292	300	99	1	4	-8	36	38	28	1	7	3	77	73	62	1	13	-1	-24	6	99
1	-3	-7	5	4	58	1	0	1	77	82	28	1	4	-7	20	35	54	1	7	4	33	41	99	2	-13	-1	53	45	89
1	-3	-6	22	19	29	1	0	2	147	144	94	1	4	-6	47	44	27	1	7	5	-5	46	99	2	-13	0	22	24	89
1	-3	-5	175	171	99	1	0	3	120	117	66	1	4	-5	201	205	99	1	8	-7	-9	12	66	2	-13	1	-26	52	99
1	-3	-4	403	404	99	1	0	4	136	130	85	1	4	-4	335	314	99	1	8	-6	41	44	37	2	-13	2	64	70	99
1	-3	-3	331	344	99	1	0	5	125	123	87	1	4	-3	138	124	91	1	8	-5	63	63	43	2	-13	3	42	19	99
1	-3	-2	26	18	14	1	0	6	45	40	37	1	4	-2	138	128	87	1	8	-4	189	185	99	2	-13	4	38	53	96
1	-3	-1	51	55	17	1	0	7	9	4	44	1	4	-1	75	81	32	1	8	-3	173	174	99	2	-12	-3	22	42	99
1	-3	0	990	989	99	1	1	-8	63	70	34	1	4	0	398	441	99	1	8	-2	76	75	45	2	-12	-2	84	74	94
1	-3	1	674	678	99	1	1	-7	72	76	35	1	4	1	408	454	99	1	8	-1	26	13	70	2	-12	-1	26	8	99
1	-3	2	289	289	99	1	1	-6	76	77	33	1	4	2	65	62	34	1	8	0	185	188	99	2	-12	0	22	5	99
1	-3	3	37	34	19	1	1	-5	70	68	30	1	4	3	94	97	53	1	8	1	154	153	99	2	-12	1	59	63	92
1	-3	4	-26	25	49	1	1	-4	84	82	36	1	4	4	37	32	39	1	8	2	134	130	96	2	-12	2	115	124	99
1	-3	5	171	182	99	1	1	-3	336	317	99	1	4	5	182	151	99	1	8	3	-42	4	99	2	-12	3	88	79	94
1	-3	6	207	212	99	1	1	-2	139	122	78	1	4	6	187	161	99	1	8	4	50	35	60	2	-12	4	-21	11	99
1	-3	7	111	115	66	1	1	-1	130	127	64	1	5	-8	36	38	31	1	9	-7	-15	24	81	2	-12	5	45	25	82
1	-2	-7	32	35	28	1	1	0	13	12	8	1	5	-7	13	28	57	1	9	-6	21	12	74	2	-11	-4	124	102	99
1	-2	-6	64	62	33	1	1	1	208	224	99	1	5	-6	74	75	38	1	9	-5	92	86	57	2	-11	-3	138	126	99
1	-2	-5	266	272	99	1	1	2	163	174	99	1	5	-5	188	183	99	1	9	-4	188	182	99	2	-11	-2	30	5	64
1	-2	-4	421	421	99	1	1	3	80	84	35	1	5	-4	180	174	99	1	9	-3	55	62	44	2	-11	-1	21	40	99
1	-2	-3	194	197	99	1	1	4	46	36	30	1	5	-3	68	64	28	1	9	-2	80	88	56	2	-11	0	29	8	99
1	-2	-2	55	49	18	1	1	5	26	33	73	1	5	-2	79	72	35	1	9	-1	149	156	99	2	-11	1	145	134	99
1	-2	-1	12	14	20	1	1	6	53	51	51	1	5	-1	153	173	99	1	9	0	121	124	86	2	-11	2	159	158	99
1	-2	0	624	625	99	1	1	7	8	26	99	1	5	0	295	335	99	1	9	1	229	232	99	2	-11	3	79	77	77
1	-2	1	1405	1415	99	1	2	-8	99	103	56	1	5	1	189	199	99	1	9	2	42	33	61	2	-11	4	-37	10	99
1	-2	2	299	289	99	1	2	-7	-17	5	47	1	5	2	39	30	30	1	9	3	64	64	77	2	-11	5	-51	14	99
1	-2	3	106	101	65	1	2	-6	22	22	21	1	5	3	39	26	37	1	9	4	-24	39	99	2	-10	-4	99	86	83
1	-2	4	92	93	44	1	2	-5	220	220	99	1	5	4	103	90	69	1	10	-6	14	24	94	2	-10	-3	188	170	99
1	-2	5	247	255	99	1	2	-4	337	321	99	1	5	5	89	82	76	1	10	-5	115	113	78	2	-10	-2	47	42	56
1	-2	6	219	225	99	1	2	-3	382	352	99	1	5	6	59	49	69	1	10	-4	123	127	85	2	-10	-1	20	74	99
1	-2	7	55	64	43	1	2	-2	155	134	94	1	6	-8	59	60	37	1	10	-3	38	46	44	2	-10	0	64	64	63
1	-1	-8	25	17	24	1	2	-1	153	151	90	1	6	-7	72	72	39	1	10	-2	44	50	53	2	-10	1	199	194	99
1	-1	-7	38	42	27	1	2	0	203	226	99	1	6	-6	70	69	38	1	10	-1	33	22	56	2	-10	2	180	175	99
1	-1	-6	45	38	26	1	2	1	476	516	99	1	6	-5	101	96	54	1	10	0	72	68	71	2	-10	3	24	29	99
1	-1	-5	242	244	99	1	2	2	327	344	99	1	6	-4	148	138	99	1	10	1	118	111	93	2	-10	4	-27	16	99
1	-1	-4	225	224	99	1	2	3	81	81	39	1	6	-3	218	194	99	1	10	2	-41	19	99	2	-10	5	26	37	77
1	-1	-3	103	96	57	1	2	4	16	14	32	1	6	-2	219	227	99	1	10	3	59	52	80	2	-10	6	111	116	93
1	-1	-2	138	133	76	1	2	5	47	36	42	1	6	-1	43	47	28	1	11	-6	27	9	99	2	-9	-5	58	45	55
1	-1	-1	321	311	99	1	2	6	117	100	82	1	6	0	161	171	99	1	11	-5	85	86	67	2	-9	-4	94	88	75

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	-1	0	331	344	99	1	2	7	90	70	68	1	6	1	136	142	97	1	11	-4	82	92	68	2	-9	-3	55	44	54
1	-1	1	204	204	99	1	3	-8	60	67	35	1	6	2	75	77	48	1	11	-3	42	54	55	2	-9	-2	53	53	50
2	-9	-1	25	26	45	2	-5	-2	214	219	99	2	-2	6	59	56	40	2	2	-2	30	18	14	2	6	-6	38	35	31
2	-9	0	130	123	95	2	-5	-1	78	78	32	2	-2	7	26	19	73	2	2	-1	113	113	61	2	6	-5	62	59	34
2	-9	1	200	197	99	2	-5	0	67	64	28	2	-1	-8	82	88	41	2	2	0	229	242	99	2	6	-4	177	161	99
2	-9	2	142	133	99	2	-5	1	706	693	99	2	-1	-7	109	111	65	2	2	1	404	429	99	2	6	-3	296	275	99
2	-9	3	30	21	96	2	-5	2	488	478	99	2	-1	-6	58	58	27	2	2	2	283	293	99	2	6	-2	126	147	81
2	-9	4	17	7	93	2	-5	3	116	117	74	2	-1	-5	79	74	35	2	2	3	-21	17	53	2	6	-1	201	213	99
2	-9	5	56	62	65	2	-5	4	11	11	58	2	-1	-4	23	21	15	2	2	4	53	52	39	2	6	0	40	42	32
2	-9	6	78	72	73	2	-5	5	35	37	37	2	-1	-3	184	186	99	2	2	5	26	22	91	2	6	1	239	249	99
2	-8	-6	29	30	51	2	-5	6	146	152	99	2	-1	-2	476	444	99	2	2	6	137	115	99	2	6	2	183	192	99
2	-8	-5	-43	14	99	2	-5	7	118	126	82	2	-1	-1	41	36	14	2	3	-8	50	58	30	2	6	3	77	76	62
2	-8	-4	46	34	46	2	-4	-7	14	5	62	2	-1	0	-4	10	20	2	3	-7	60	60	31	2	6	4	52	46	60
2	-8	-3	61	50	43	2	-4	-6	42	37	29	2	-1	1	109	107	64	2	3	-6	82	78	37	2	6	5	35	31	61
2	-8	-2	42	42	39	2	-4	-5	134	125	88	2	-1	2	311	312	99	2	3	-5	135	124	98	2	7	-8	79	81	47
2	-8	-1	48	50	41	2	-4	-4	319	316	99	2	-1	3	167	175	99	2	3	-4	217	204	99	2	7	-7	35	27	29
2	-8	0	36	44	39	2	-4	-3	348	350	99	2	-1	4	26	34	28	2	3	-3	183	178	99	2	7	-6	59	56	36
2	-8	1	133	127	99	2	-4	-2	55	56	23	2	-1	5	19	6	44	2	3	-2	164	153	99	2	7	-5	17	22	43
2	-8	2	88	81	53	2	-4	-1	-17	21	37	2	-1	6	32	26	38	2	3	-1	123	110	75	2	7	-4	196	180	99
2	-8	3	64	59	45	2	-4	0	174	172	99	2	-1	7	56	54	48	2	3	0	209	221	99	2	7	-3	259	235	99
2	-8	4	49	46	46	2	-4	1	459	463	99	2	0	-8	114	128	72	2	3	1	263	281	99	2	7	-2	-11	10	66
2	-8	5	64	66	58	2	-4	2	626	609	99	2	0	-7	122	122	76	2	3	2	114	118	71	2	7	-1	121	132	75
2	-8	6	-38	38	99	2	-4	3	111	105	65	2	0	-6	53	56	26	2	3	3	45	40	31	2	7	0	100	106	59
2	-7	-6	25	19	70	2	-4	4	54	50	32	2	0	-5	12	25	34	2	3	4	43	41	41	2	7	1	168	175	99
2	-7	-5	27	28	85	2	-4	5	106	108	61	2	0	-4	486	469	99	2	3	5	110	101	79	2	7	2	209	206	99
2	-7	-4	21	10	68	2	-4	6	166	176	99	2	0	-3	520	497	99	2	3	6	49	48	60	2	7	3	-37	15	99
2	-7	-3	142	134	99	2	-4	7	103	109	69	2	0	-2	314	285	99	2	4	-8	63	71	37	2	7	4	83	74	73
2	-7	-2	161	158	99	2	-3	-8	-19	26	61	2	0	-1	13	14	23	2	4	-7	121	116	77	2	8	-7	43	45	39
2	-7	-1	114	111	67	2	-3	-7	-19	24	48	2	0	0	84	86	33	2	4	-6	110	105	68	2	8	-6	46	49	38
2	-7	0	84	83	45	2	-3	-6	28	27	24	2	0	1	360	364	99	2	4	-5	67	64	32	2	8	-5	81	78	50
2	-7	1	42	33	31	2	-3	-5	51	52	28	2	0	2	495	496	99	2	4	-4	128	116	91	2	8	-4	187	177	99
2	-7	2	174	164	99	2	-3	-4	198	201	99	2	0	3	250	240	99	2	4	-3	220	212	99	2	8	-3	144	142	99
2	-7	3	114	108	72	2	-3	-3	128	128	84	2	0	4	16	11	34	2	4	-2	394	374	99	2	8	-2	34	43	40
2	-7	4	57	56	44	2	-3	-2	78	78	34	2	0	5	25	22	68	2	4	-1	386	401	99	2	8	-1	40	22	37
2	-7	5	21	24	62	2	-3	-1	27	30	15	2	0	6	77	67	59	2	4	0	25	26	20	2	8	0	98	97	61
2	-7	6	38	51	54	2	-3	0	274	273	99	2	0	7	87	83	67	2	4	1	121	130	73	2	8	1	100	111	73
2	-7	7	38	24	51	2	-3	1	223	227	99	2	1	-8	122	129	78	2	4	2	150	157	99	2	8	2	82	80	63
2	-6	-7	74	69	55	2	-3	2	47	49	21	2	1	-7	43	39	25	2	4	3	113	112	73	2	8	3	23	6	99
2	-6	-6	15	8	68	2	-3	3	140	142	99	2	1	-6	50	53	26	2	4	4	105	99	70	2	8	4	32	28	99
2	-6	-5	48	41	38	2	-3	4	51	47	29	2	1	-5	-21	17	35	2	4	5	83	74	70	2	9	-7	96	99	61
2	-6	-4	121	117	85	2	-3	5	103	110	58	2	1	-4	378	355	99	2	4	6	66	55	69	2	9	-6	101	98	61
2	-6	-3	295	299	99	2	-3	6	115	123	72	2	1	-3	823	752	99	2	5	-8	95	96	49	2	9	-5	-1	29	83
2	-6	-2	227	233	99	2	-3	7	48	55	48	2	1	-2	175	167	99	2	5	-7	136	134	90	2	9	-4	123	114	84
2	-6	-1	5	10	47	2	-2	-8	31	27	24	2	1	-1	217	206	99	2	5	-6	17	27	54	2	9	-3	107	116	65
2	-6	0	152	145	99	2	-2	-7	76	77	37	2	1	0	81	85	33	2	5	-5	32	21	23	2	9	-2	83	88	59
2	-6	1	152	151	99	2	-2	-6	107	108	64	2	1	1	515	537	99	2	5	-4	107	96	62	2	9	-1	101	101	71
2	-6	2	240	246	99	2	-2	-5	56	58	25	2	1	2	439	451	99	2	5	-3	335	321	99	2	9	0	111	118	80
2	-6	3	208	200	99	2	-2	-4	63	60	23	2	1	3	112	109	72	2	5	-2	226	225	99	2	9	1	117	117	88
2	-6	4	18	6	31	2	-2	-3	136	145	84	2	1	4	107	109	64	2	5	-1	165	177	99	2	9	2	30	48	96
2	-6	5	-26	12	72	2	-2	-2	105	108	57	2	1	5	-31	17	97	2	5	0	158	165	99	2	9	3	15	21	99
2	-6	6	82	80	57	2	-2	-1	247	232	99	2	1	6	191	172	99	2	5	1	42	44	31	2	10	-6	83	87	65
2	-6	7	98	105	73	2	-2	0	35	37	13	2	2	-8	81	84	40	2	5	2	195	212	99	2	10	-5	78	68	55
2	-5	-7	51	48	42	2	-2	1	127	123	73	2	2	-7	28	24	22	2	5	3	161	157	99	2	10	-4	20	26	66
2	-5	-6	27	21	32	2	-2	2	18	10	15	2	2	-6	31	34	22	2	5	4	18	31	97	2	10	-3	104	118	71
2	-5	-5	44	35	31	2	-2	3	43	35	22	2	2	-5	131	128	94	2	5	5	-43	9	99	2	10	-2	112	117	82
2	-5	-4	281	277	99	2	-2	4	108	109	58	2	2	-4	286	269	99	2	6	-8	79	82	44	2	10	-1	68	74	69
2	-5	-3	397	405	99	2	-2	5	74	72	42	2	2	-3	277	263	99	2	6	-7	68	67	39	2	10	0	57	50	66
2	10	1	37	62	99	3	-9	1	23	37	75	3	-5	2	90	96	46	3	-1	-2	685	612	99	3	3	-7	172	170	99
2	10	2	71	66	80	3	-9	2	29	23	99	3	-5	3	21	8	62	3	-1	-1	13	18	17	3	3	-6	158	149	99
2	11	-6	16	22	92	3	-9	3	138	138	99	3	-5	4	76	78	50	3	-1	0	126	124	76	3	3	-5	48	41	22
2	11	-5	-52	7	99	3	-9	4	72	68	66	3	-5	5	52	50	45	3	-1	1	189	191	99	3	3	-4	39	36	18
2	11	-4	73	71	61	3	-9	5	-59	18	99	3	-5	6	58	65	55	3	-1	2	415	411	99	3	3	-3	190	184	99
2	11	-3	87	102	80	3	-9	6	-22	16	99	3	-4	-7	58	63	35	3	-1	3	252	249	99	3	3	-2	440	427	99
2	11	-2	89	90	83	3	-8	-6	58	48	54	3	-4	-6	109	111	59	3	-1	4	25	8	69	3	3	-1	116	121	61
2	11	-1	27	4	99	3	-8	-5	20	27	62	3	-4	-5	107	106	58	3	-1	5	68	70	54	3	3	0	33	38	21
2	11	0	17	17	99	3	-8	-4	26	5	73	3	-4	-4	96	101	48	3	-1	6	35	44	99	3	3	1	123	131	76
2	11	1	-8	35	99	3	-8	-3	187	177	99	3	-4	-3	69	68	28	3	0	-8	89	89	46	3	3	2	110	105	64
2	12	-4	35	62	99	3	-8	-2	270	268	99	3	-4	-2	215	214	99	3	0	-7	74	70	31	3	3	3	202	197	99
2	12	-3	92	94	84	3	-8	-1	126	122	84	3	-4	-1	166	161	99	3	0	-6	19	29	39	3	3	4	101	97	68
2	12	-2	-28	38	99	3	-8	0	42	41	38	3	-4	0	111	108	57	3	0	-5	15	14	15	3	3	5	-25	12	99
2	12	-1	-16	38	99	3	-8	1	152	150	99	3	-4	1	-13	10	35	3	0	-4	213	208	99	3	4	-8	90	91	44
3	-13	-2	96	88	99	3	-8	2	195	197	99	3	-4	2	96	93	50	3	0	-3	248	239	99	3	4	-7	109	102	59
3	-13	-1	34	20	99	3	-8	3	159	158	99	3	-4	3	62	67	37	3	0	-2	170	153	99	3	4	-6	11	27	47
3	-13	0	33	25	85	3	-8	4	97	90	68	3	-4	4	33	33	34	3	0	-1	114	102	64	3	4	-5	101	95	58
3	-13	1	-72	27	99	3	-8	5	-30	8	99	3	-4	5	46	49	44	3	0	0	-5	11	19	3	4	-4	16	21	41
3	-13	2	97	99	99	3	-8	6	-29	27	99	3	-4	6	-31	24	94	3	0	1	257	261	99	3	4	-3	306	300	99
3	-13	3	69	78	99	3	-7	-6	17	14	74	3	-3	-8	41	41	27	3	0	2	273	283	99	3	4	-2	273	277	99
3	-12	-3	63	58	88	3	-7	-5	-34	12	75	3	-3	-7	148	151	99	3	0	3	144	143	99	3	4	-1	21	33	21
3	-12	-2	108	100	99	3	-7	-4	107	100	61	3	-3	-6	114	119	67	3	0	4	20	15	36	3	4	0	268	287	99
3	-12	-1	-47	20	99	3	-7	-3	299	297	99	3	-3	-5	18	5	17	3	0	5	-10	8	80	3	4	1	-19	12	51
3	-12	0	-39	24	99	3	-7	-2	276	276	99	3	-3	-4	108	108	58	3	0	6	49	41	62	3	4	2	287	285	99
3	-12	1	59	66	90	3	-7	-1	92	85	46	3	-3	-3	121	118	77	3	1	-8	20	25	42	3	4	3	146	155	99
3	-12	2	118	112	99	3	-7	0	57	46	35	3	-3	-2	312	310	99	3	1	-7	84	83	36	3	4	4	-15	7	96
3	-12	3	80	76	96	3	-7	1	137	122	96	3	-3	-1	349	346	99	3	1	-6	114	115	64	3	4	5	67	58	65
3	-12	4	39	5	99	3	-7	2	468	457	99	3	-3	0	33	22	16	3	1	-5	149	141	99	3	5	-8	106	107	60
3	-11	-4	40	36	70	3	-7	3	272	260	99	3	-3	1	5	9	37	3	1	-4	135	130	86	3	5	-7	107	102	65
3	-11	-3	-45	50	99	3	-7	4	25	16	81	3	-3	2	189	183	99	3	1	-3	200	189	99	3	5	-6	82	80	41
3	-11	-2	-41	14	99	3	-7	5	-35	4	96	3	-3	3	278	279	99	3	1	-2	258	236	99	3	5	-5	55	58	31
3	-11	-1	41	39	66	3	-7	6	20	59	99	3	-3	4	111	113	71	3	1	-1	336	315	99	3	5	-4	114	110	65
3	-11	0	23	33	78	3	-6	-7	45	44	47	3	-3	5	-24	8	73	3	1	0	14	10	30	3	5	-3	266	261	99
3	-11	1	80	76	81	3	-6	-6	27	25	37	3	-3	6	9	7	65	3	1	1	166	172	99	3	5	-2	222	227	99
3	-11	2	103	91	91	3	-6	-5	-14	16	55	3	-2	-8	100	104	53	3	1	2	176	180	99	3	5	-1	78	77	37
3	-11	3	57	54	81	3	-6	-4	172	160	99	3	-2	-7	162	164	99	3	1	3	79	81	44	3	5	0	97	103	54
3	-11	4	-13	17	99	3	-6	-3	257	252	99	3	-2	-6	84	88	38	3	1	4	72	69	47	3	5	1	20	8	30
3	-11	5	-42	15	99	3	-6	-2	215	212	99	3	-2	-5	103	108	55	3	1	5	67	68	58	3	5	2	176	180	99
3	-10	-5	-24	21	99	3	-6	-1	-27	7	51	3	-2	-4	36	30	17	3	1	6	79	74	69	3	5	3	140	136	99
3	-10	-4	12	8	76	3	-6	0	53	42	28	3	-2	-3	691	674	99	3	2	-8	23	22	22	3	5	4	40	41	56
3	-10	-3	33	24	53	3	-6	1	170	176	99	3	-2	-2	563	536	99	3	2	-7	141	142	99	3	6	-8	65	67	38
3	-10	-2	61	62	64	3	-6	2	254	240	99	3	-2	-1	156	151	99	3	2	-6	184	181	99	3	6	-7	118	112	78
3	-10	-1	65	61	60	3	-6	3	287	274	99	3	-2	0	83	80	37	3	2	-5	106	97	55	3	6	-6	95	86	47
3	-10	0	43	26	51	3	-6	4	43	41	41	3	-2	1	63	60	26	3	2	-4	34	30	17	3	6	-5	15	16	29
3	-10	1	15	6	76	3	-6	5	-37	5	93	3	-2	2	373	368	99	3	2	-3	173	163	99	3	6	-4	146	146	99
3	-10	2	68	65	66	3	-6	6	87	82	66	3	-2	3	330	332	99	3	2	-2	317	298	99	3	6	-3	221	215	99
3	-10	3	50	58	69	3	-5	-7	19	25	42	3	-2	4	90	92	52	3	2	-1	488	463	99	3	6	-2	130	133	84
3	-10	4	37	44	70	3	-5	-6	55	54	39	3	-2	5	40	37	40	3	2	0	376	380	99	3	6	-1	61	66	37
3	-10	5	23	28	99	3	-5	-5	20	11	27	3	-2	6	26	42	95	3	2	1	40	43	23	3	6	0	48	52	36
3	-9	-5	17	9	99	3	-5	-4	8	12	52	3	-1	-8	121	120	73	3	2	2	101	103	56	3	6	1	145	149	99
3	-9	-4	36	29	46	3	-5	-3	126	130	78	3	-1	-7	131	133	81	3	2	3	180	171	99	3	6	2	103	105	65
3	-9	-3	55	53	51	3	-5	-2	64	68	29	3	-1	-6	-6	15	34	3	2	4	106	107	59	3	6	3	50	44	51
3	-9	-2	169	160	99	3	-5	-1	89	88	43	3	-1	-5	53	53	22	3	2	5	69	62	56	3	6	4	-31	3	99
3	-9	-1	122	119	82	3	-5	0	52	55	26	3	-1	-4	62	65	23	3	2	6	50	40	57	3	7	-3	59	45	34
3	-9	0	65	59	55	3	-5	1	160	158	99	3	-1	-3	415	393	99	3	3	-8	67	64	32	3	7	-7	75	73	45

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	7	-6	170	162	99	4	-12	2	28	12	99	4	-7	4	-27	7	99	4	-3	1	14	11	42	4	1	-2	288	272	99
3	7	-5	172	159	99	4	-12	3	43	44	99	4	-7	5	-17	48	99	4	-3	2	205	190	99	4	1	-1	399	383	99
3	7	-4	29	31	29	4	-11	-4	34	22	64	4	-7	6	11	30	99	4	-3	3	261	253	99	4	1	0	20	9	19
3	7	-3	134	127	96	4	-11	-3	32	4	99	4	-6	-7	22	28	53	4	-3	4	107	108	71	4	1	1	72	73	36
3	7	-2	150	156	99	4	-11	-2	90	84	81	4	-6	-6	107	104	64	4	-3	5	19	14	86	4	1	2	139	133	97
3	7	-1	129	140	96	4	-11	-1	137	133	99	4	-6	-5	111	107	67	4	-3	6	30	21	96	4	1	3	137	134	99
3	7	0	132	133	88	4	-11	0	77	59	75	4	-6	-4	86	87	47	4	-2	-8	32	27	20	4	1	4	130	132	90
3	7	1	111	112	71	4	-11	1	25	25	97	4	-6	-3	100	99	56	4	-2	-7	71	76	31	4	1	5	22	30	97
3	7	2	94	95	68	4	-11	2	-40	11	99	4	-6	-2	10	9	29	4	-2	-6	61	61	27	4	2	-8	27	34	22
3	7	3	55	52	57	4	-11	3	-23	40	99	4	-6	-1	232	229	99	4	-2	-5	70	73	28	4	2	-7	149	147	99
3	8	-7	106	98	60	4	-11	4	88	86	92	4	-6	0	132	132	91	4	-2	-4	74	75	30	4	2	-6	89	81	42
3	8	-6	80	75	50	4	-10	-5	-4	19	99	4	-6	1	40	31	33	4	-2	-3	210	207	99	4	2	-5	55	52	23
3	8	-5	77	77	49	4	-10	-4	21	18	99	4	-6	2	-39	6	79	4	-2	-2	190	185	99	4	2	-4	103	99	53
3	8	-4	67	65	42	4	-10	-3	60	53	61	4	-6	3	103	94	64	4	-2	-1	120	118	76	4	2	-3	82	79	36
3	8	-3	49	47	40	4	-10	-2	183	173	99	4	-6	4	78	77	62	4	-2	0	18	8	34	4	2	-2	391	381	99
3	8	-2	164	177	99	4	-10	-1	185	173	99	4	-6	5	38	34	49	4	-2	1	89	90	45	4	2	-1	188	185	99
3	8	-1	130	144	94	4	-10	0	53	43	60	4	-6	6	35	13	55	4	-2	2	196	194	99	4	2	0	78	74	35
3	8	0	20	47	99	4	-10	1	33	23	58	4	-5	-7	90	89	47	4	-2	3	155	148	99	4	2	1	225	236	99
3	8	1	30	20	47	4	-10	2	141	144	99	4	-5	-6	181	179	99	4	-2	4	74	72	54	4	2	2	52	51	37
3	8	2	68	62	61	4	-10	3	150	157	99	4	-5	-5	68	71	38	4	-2	5	28	17	81	4	2	3	254	253	99
3	8	3	85	77	74	4	-10	4	74	75	87	4	-5	-4	55	55	29	4	-2	6	27	33	56	4	2	4	88	85	65
3	9	-7	83	85	55	4	-10	5	38	33	99	4	-5	-3	170	168	99	4	-1	-8	-21	17	41	4	2	5	47	31	55
3	9	-6	50	48	42	4	-9	-5	28	9	87	4	-5	-2	251	245	99	4	-1	-7	15	31	44	4	3	-8	65	65	30
3	9	-5	80	77	52	4	-9	-4	19	20	52	4	-5	-1	326	312	99	4	-1	-6	136	141	94	4	3	-7	149	146	99
3	9	-4	28	12	37	4	-9	-3	126	124	86	4	-5	0	167	165	99	4	-1	-5	171	172	99	4	3	-6	111	107	63
3	9	-3	116	127	77	4	-9	-2	228	222	99	4	-5	1	51	43	30	4	-1	-4	162	150	99	4	3	-5	117	116	65
3	9	-2	144	150	99	4	-9	-1	154	142	99	4	-5	2	44	43	37	4	-1	-3	91	88	42	4	3	-4	13	7	35
3	9	-1	67	70	53	4	-9	0	-35	23	99	4	-5	3	176	173	99	4	-1	-2	176	162	99	4	3	-3	217	214	99
3	9	0	24	44	99	4	-9	1	27	6	91	4	-5	4	178	174	99	4	-1	-1	289	275	99	4	3	-2	262	264	99
3	9	1	34	25	52	4	-9	2	98	102	78	4	-5	5	46	45	52	4	-1	0	314	304	99	4	3	-1	158	164	99
3	9	2	62	58	68	4	-9	3	267	267	99	4	-5	6	30	4	99	4	-1	1	79	75	35	4	3	0	68	70	33
3	10	-6	21	9	46	4	-9	4	121	122	99	4	-4	-8	41	40	25	4	-1	2	86	87	46	4	3	1	10	14	37
3	10	-5	47	48	48	4	-9	5	-49	4	99	4	-4	-7	139	149	90	4	-1	3	119	115	75	4	3	2	56	57	41
3	10	-4	18	22	87	4	-8	-6	-31	29	97	4	-4	-6	141	145	99	4	-1	4	76	75	54	4	3	3	134	130	97
3	10	-3	104	112	77	4	-8	-5	-26	21	89	4	-4	-5	31	22	20	4	-1	5	63	68	62	4	3	4	68	66	55
3	10	-2	97	108	78	4	-8	-4	-23	5	75	4	-4	-4	96	107	47	4	0	-8	-19	3	31	4	4	-8	54	57	28
3	10	-1	-15	8	99	4	-8	-3	144	137	99	4	-4	-3	105	107	56	4	0	-7	63	70	28	4	4	-7	74	73	35
3	10	0	57	62	68	4	-8	-2	154	144	99	4	-4	-2	565	562	99	4	0	-6	218	217	99	4	4	-6	162	156	99
3	10	1	-33	4	99	4	-8	-1	111	104	67	4	-4	-1	379	369	99	4	0	-5	195	195	99	4	4	-5	184	177	99
3	11	-5	-35	7	99	4	-8	0	-34	10	82	4	-4	0	34	36	23	4	0	-4	33	27	15	4	4	-4	21	20	23
3	11	-4	57	42	52	4	-8	1	59	60	53	4	-4	1	57	52	32	4	0	-3	-14	10	28	4	4	-3	173	172	99
3	11	-3	102	102	87	4	-8	2	106	98	72	4	-4	2	129	126	89	4	0	-2	255	237	99	4	4	-2	211	207	99
3	11	-2	61	67	69	4	-8	3	94	88	72	4	-4	3	274	264	99	4	0	-1	348	342	99	4	4	-1	130	131	81
3	11	-1	35	35	99	4	-8	4	126	121	93	4	-4	4	163	165	99	4	0	0	318	318	99	4	4	0	112	114	63
3	11	0	-38	14	99	4	-8	5	25	29	93	4	-4	5	18	10	52	4	0	1	192	190	99	4	4	1	111	111	68
4	-13	-2	47	26	86	4	-7	-6	47	41	42	4	-4	6	-10	20	95	4	0	2	-10	33	62	4	4	2	140	142	99
4	-13	-1	26	11	91	4	-7	-5	93	88	55	4	-3	-8	75	75	35	4	0	3	95	96	58	4	4	3	69	70	54
4	-13	0	50	30	86	4	-7	-4	9	24	41	4	-3	-7	120	125	72	4	0	4	151	147	99	4	4	4	53	30	47
4	-13	1	-40	20	99	4	-7	-3	54	53	38	4	-3	-6	97	98	54	4	0	5	73	67	61	4	5	-8	18	8	46
4	-13	2	45	35	92	4	-7	-2	88	83	49	4	-3	-5	42	44	22	4	1	-8	-22	11	43	4	5	-7	63	66	34
4	-12	-3	-53	13	99	4	-7	-1	68	71	43	4	-3	-4	11	7	29	4	1	-7	129	127	95	4	5	-6	123	122	77
4	-12	-2	-12	34	99	4	-7	0	90	91	54	4	-3	-3	154	151	99	4	1	-6	209	209	99	4	5	-5	231	227	99
4	-12	-1	58	65	86	4	-7	1	42	48	40	4	-3	-2	318	317	99	4	1	-5	86	85	38	4	5	-4	211	199	99
4	-12	0	53	45	82	4	-7	2	78	77	54	4	-3	-1	259	256	99	4	1	-4	122	120	80	4	5	-3	-26	6	47
4	-12	1	-56	7	99	4	-7	3	25	33	92	4	-3	0	33	30	20	4	1	-3	20	19	15	4	5	-2	142	139	99
4	5	-1	203	206	99	5	-13	0	73	81	99	5	-7	0	191	183	99	5	-3	1	220	216	99	5	1	1	-21	7	60
4	5	0	166	168	99	5	-13	1	35	23	99	5	-7	1	60	45	46	5	-3	2	35	29	34	5	1	2	62	59	42
4	5	1	112	109	72	5	-12	-3	33	6	99	5	-7	2	31	27	46	5	-3	3	-25	29	88	5	1	3	72	63	51
4	5	2	75	74	53	5	-12	-2	73	69	89	5	-7	3	62	63	66	5	-3	4	82	83	64	5	1	4	73	71	60
4	5	3	76	74	57	5	-12	-1	130	122	99	5	-7	4	118	118	93	5	-3	5	59	64	64	5	2	-8	48	46	22
4	5	4	68	61	63	5	-12	0	100	86	99	5	-7	5	78	82	83	5	-2	-8	35	35	20	5	2	-7	57	55	24
4	6	-8	20	12	26	5	-12	1	-52	12	99	5	-6	-7	69	69	38	5	-2	-7	12	13	25	5	2	-6	81	78	34
4	6	-7	65	62	36	5	-12	2	35	4	99	5	-6	-6	149	149	99	5	-2	-6	131	136	90	5	2	-5	227	222	99
4	6	-6	157	158	99	5	-12	3	99	107	99	5	-6	-5	90	84	47	5	-2	-5	236	240	99	5	2	-4	299	285	99
4	6	-5	65	60	35	5	-11	-4	-24	10	99	5	-6	-4	12	17	59	5	-2	-4	125	121	82	5	2	-3	31	29	20
4	6	-4	-11	19	52	5	-11	-3	-34	40	99	5	-6	-3	52	47	32	5	-2	-3	51	48	22	5	2	-2	135	134	98
4	6	-3	50	57	33	5	-11	-2	110	97	91	5	-6	-2	151	146	99	5	-2	-2	9	14	32	5	2	-1	184	176	99
4	6	-2	114	108	70	5	-11	-1	134	124	99	5	-6	-1	382	358	99	5	-2	-1	274	268	99	5	2	0	147	144	99
4	6	-1	219	217	99	5	-11	0	77	62	77	5	-6	0	182	176	99	5	-2	0	271	276	99	5	2	1	148	141	99
4	6	0	120	117	77	5	-11	1	11	13	99	5	-6	1	-10	18	76	5	-2	1	137	138	91	5	2	2	110	110	66
4	6	1	13	6	67	5	-11	2	23	17	99	5	-6	2	-19	6	78	5	-2	2	70	75	45	5	2	3	96	97	66
4	6	2	18	4	49	5	-11	3	34	59	99	5	-6	3	117	124	87	5	-2	3	18	6	54	5	2	4	51	45	52
4	6	3	73	68	60	5	-10	-5	-12	29	99	5	-6	4	153	152	99	5	-2	4	83	85	65	5	3	-8	13	9	34
4	7	-7	97	92	52	5	-10	-4	23	8	65	5	-6	5	67	64	68	5	-2	5	92	93	76	5	3	-7	22	13	18
4	7	-6	115	112	69	5	-10	-3	11	10	99	5	-5	-7	82	82	40	5	-1	-8	64	60	26	5	3	-6	112	110	63
4	7	-5	-18	14	55	5	-10	-2	88	78	73	5	-5	-6	87	94	42	5	-1	-7	26	28	17	5	3	-5	173	168	99
4	7	-4	138	137	99	5	-10	-1	68	69	66	5	-5	-5	62	63	29	5	-1	-6	184	179	99	5	3	-4	253	237	99
4	7	-3	24	5	59	5	-10	0	59	56	67	5	-5	-4	-7	22	45	5	-1	-5	174	171	99	5	3	-3	178	172	99
4	7	-2	173	180	99	5	-10	1	15	23	99	5	-5	-3	62	64	30	5	-1	-4	19	13	16	5	3	-2	17	21	41
4	7	-1	162	163	99	5	-10	2	40	46	73	5	-5	-2	170	163	99	5	-1	-3	145	135	99	5	3	-1	167	156	99
4	7	0	17	13	65	5	-10	3	47	39	74	5	-5	-1	198	195	99	5	-1	-2	109	107	57	5	3	0	219	222	99
4	7	1	73	75	55	5	-10	4	21	25	99	5	-5	0	108	100	60	5	-1	-1	294	288	99	5	3	1	136	135	99
4	7	2	15	4	91	5	-9	-5	62	58	58	5	-5	1	-32	7	71	5	-1	0	227	225	99	5	3	2	51	52	44
4	8	-7	93	92	54	5	-9	-4	97	94	69	5	-5	2	65	58	47	5	-1	1	91	88	46	5	3	3	38	40	49
4	8	-6	81	80	48	5	-9	-3	28	39	97	5	-5	3	138	132	99	5	-1	2	79	80	48	5	3	4	68	62	59
4	8	-5	-10	21	73	5	-9	-2	75	67	57	5	-5	4	131	130	95	5	-1	3	133	131	93	5	4	-8	42	41	24
4	8	-4	54	49	41	5	-9	-1	70	66	60	5	-5	5	56	47	59	5	-1	4	122	116	85	5	4	-7	-17	4	37
4	8	-3	41	38	43	5	-9	0	83	76	69	5	-4	-8	19	6	37	5	-1	5	69	61	61	5	4	-6	118	114	70
4	8	-2	146	152	99	5	-9	1	68	65	66	5	-4	-7	-26	10	40	5	0	-8	17	14	16	5	4	-5	191	187	99
4	8	-1	69	78	51	5	-9	2	-46	18	99	5	-4	-6	57	63	27	5	0	-7	82	84	37	5	4	-4	19	17	22
4	8	0	-11	29	89	5	-9	3	32	37	99	5	-4	-5	69	79	30	5	0	-6	172	168	99	5	4	-3	54	61	29
4	8	1	61	53	53	5	-9	4	-43	20	99	5	-4	-4	106	113	58	5	0	-5	26	18	16	5	4	-2	64	64	34
4	8	2	-43	31	99	5	-8	-6	76	63	55	5	-4	-3	90	93	42	5	0	-4	107	98	55	5	4	-1	181	169	99
4	9	-6	56	55	45	5	-8	-5	124	111	81	5	-4	-2	125	132	73	5	0	-3	25	27	19	5	4	0	193	193	99
4	9	-5	-27	16	89	5	-8	-4	69	61	48	5	-4	-1	128	130	77	5	0	-2	170	161	99	5	4	1	48	46	38
4	9	-4	24	23	80	5	-8	-3	57	59	47	5	-4	0	120	117	74	5	0	-1	312	315	99	5	4	2	49	39	42
4	9	-3	74	83	59	5	-8	-2	45	36	43	5	-4	1	59	60	38	5	0	0	77	81	36	5	4	3	21	9	65
4	9	-2	128	128	93	5	-8	-1	69	66	54	5	-4	2	80	77	53	5	0	1	90	90	47	5	5	-8	22	30	48
4	9	-1	51	56	52	5	-8	0	187	175	99	5	-4	3	114	116	80	5	0	2	132	127	98	5	5	-7	37	36	25
4	9	0	39	40	54	5	-8	1	72	63	58	5	-4	4	71	73	63	5	0	3	81	77	55	5	5	-6	150	150	99
4	9	1	30	11	98	5	-8	2	25	6	99	5	-4	5	-14	46	99	5	0	4	159	160	99	5	5	-5	101	100	56
4	10	-5	49	50	48	5	-8	3	-22	13	99	5	-3	-8	23	32	20	5	1	-8	41	41	20	5	5	-4	36	45	31
4	10	-4	41	39	53	5	-8	4	76	79	76	5	-3	-7	33	28	19	5	1	-7	88	89	39	5	5	-3	149	144	99
4	10	-3	30	49	99	5	-8	5	59	51	77	5	-3	-6	55	62	25	5	1	-6	154	152	99	5	5	-2	58	51	35
4	10	-2	24	45	99	5	-7	-6	128	117	88	5	-3	-5	183	197	99	5	1	-5	129	123	87	5	5	-1	189	195	99
4	10	-1	77	79	69	5	-7	-5	157	146	99	5	-3	-4	167	171	99	5	1	-4	103	98	55	5	5	0	117	117	77
4	10	0	-21	42	99	5	-7	-4	-23	6	67	5	-3	-3	76	72	33	5	1	-3	78	74	32	5	5	1	40	41	40
4	11	-4	29	18	54	5	-7	-3	61	61	40	5	-3	-2	45	49	22	5	1	-2	247	239	99	5	5	2	61	65	54
4	11	-3	24	3	54	5	-7	-2	205	189	99	5	-3	-1	162	161	99	5	1	-1	200	196	99	5	5	3	35	32	51
5	-13	-1	68	79	99	5	-7	-1	263	245	99	5	-3	0	248	249	99	5	1	0	101	108	56	5	6	-7	70	68	35

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	6	-6	125	120	80	6	-9	-2	-28	28	95	6	-4	-4	185	192	99	6	0	-1	78	76	37	6	5	-4	81	80	41
5	6	-5	77	72	40	6	-9	-1	186	171	99	6	-4	-3	30	17	18	6	0	0	153	151	99	6	5	-3	76	71	40
5	6	-4	40	35	30	6	-9	0	179	169	99	6	-4	-2	57	61	31	6	0	1	143	142	99	6	5	-2	79	75	44
5	6	-3	18	9	54	6	-9	1	81	74	85	6	-4	-1	61	60	33	6	0	2	113	113	74	6	5	-1	68	73	43
5	6	-2	124	113	79	6	-9	2	18	5	99	6	-4	0	215	218	99	6	0	3	64	68	55	6	5	0	93	93	57
5	6	-1	150	153	99	6	-9	3	-26	5	99	6	-4	1	137	140	99	6	0	4	60	55	53	6	5	1	56	54	47
5	6	0	17	30	69	6	-8	-6	86	75	57	6	-4	2	36	26	40	6	1	-8	34	40	19	6	6	-7	-12	14	51
5	6	1	10	38	91	6	-8	-5	119	109	77	6	-4	3	37	36	51	6	1	-7	25	27	18	6	6	-6	15	5	24
5	6	2	28	17	96	6	-8	-4	47	34	42	6	-4	4	33	24	99	6	1	-6	16	14	17	6	6	-5	77	75	42
5	7	-7	56	57	35	6	-8	-3	25	10	38	6	-3	-8	31	32	18	6	1	-5	168	162	99	6	6	-4	124	114	82
5	7	-6	73	71	42	6	-8	-2	-24	10	78	6	-3	-7	36	42	20	6	1	-4	183	170	99	6	6	-3	83	80	48
5	7	-5	66	62	39	6	-8	-1	128	117	88	6	-3	-6	70	74	28	6	1	-3	163	148	99	6	6	-2	14	11	46
5	7	-4	47	41	33	6	-8	0	213	204	99	6	-3	-5	162	158	99	6	1	-2	88	86	44	6	6	-1	14	15	35
5	7	-3	66	61	42	6	-8	1	72	70	68	6	-3	-4	85	85	39	6	1	-1	19	6	22	6	6	0	37	37	39
5	7	-2	95	96	58	6	-8	2	10	6	99	6	-3	-3	59	58	25	6	1	0	167	160	99	6	6	1	97	92	68
5	7	-1	121	120	84	6	-8	3	-9	26	99	6	-3	-2	72	74	32	6	1	1	172	177	99	6	7	-6	16	5	29
5	7	0	27	48	95	6	-8	4	77	83	88	6	-3	-1	147	148	99	6	1	2	60	69	51	6	7	-5	114	106	67
5	7	1	34	21	47	6	-7	-6	77	65	43	6	-3	0	207	210	99	6	1	3	18	9	83	6	7	-4	118	119	75
5	8	-6	49	51	38	6	-7	-5	62	59	41	6	-3	1	85	85	50	6	2	-8	12	4	33	6	7	-3	39	32	36
5	8	-5	83	78	55	6	-7	-4	40	52	41	6	-3	2	105	102	64	6	2	-7	68	62	27	6	7	-2	37	29	37
5	8	-4	76	75	47	6	-7	-3	16	21	72	6	-3	3	24	38	88	6	2	-6	45	44	22	6	7	-1	25	4	75
5	8	-3	38	38	42	6	-7	-2	86	78	53	6	-3	4	101	101	80	6	2	-5	157	156	99	6	7	0	74	70	57
5	8	-2	25	35	82	6	-7	-1	108	105	71	6	-2	-8	8	14	18	6	2	-4	163	152	99	6	8	-5	88	80	56
5	8	-1	-24	35	99	6	-7	0	99	96	72	6	-2	-7	17	21	31	6	2	-3	103	99	58	6	8	-4	100	99	63
5	8	0	87	88	66	6	-7	1	53	55	61	6	-2	-6	106	115	55	6	2	-2	93	93	48	6	8	-3	-3	9	79
5	9	-6	64	61	51	6	-7	2	-38	19	99	6	-2	-5	144	147	99	6	2	-1	105	104	57	6	8	-2	28	27	77
5	9	-5	106	98	69	6	-7	3	52	62	69	6	-2	-4	39	43	20	6	2	0	173	175	99	6	8	-1	42	51	52
5	9	-4	62	56	46	6	-7	4	78	72	79	6	-2	-3	70	68	28	6	2	1	117	117	78	7	-11	-3	36	38	99
5	9	-3	-19	6	95	6	-6	-7	-18	6	45	6	-2	-2	55	54	25	6	2	2	23	15	77	7	-11	-2	-40	19	99
5	9	-2	22	11	89	6	-6	-6	6	11	39	6	-2	-1	166	167	99	6	2	3	28	33	48	7	-11	-1	-33	4	99
5	9	-1	43	48	56	6	-6	-5	62	68	32	6	-2	0	193	194	99	6	3	-8	30	29	20	7	-11	0	113	120	99
5	10	-4	-24	21	99	6	-6	-4	96	102	52	6	-2	1	18	27	67	6	3	-7	-22	15	41	7	-11	1	96	91	99
5	10	-3	26	25	99	6	-6	-3	103	106	57	6	-2	2	50	43	40	6	3	-6	88	87	43	7	-10	-4	70	63	64
6	-12	-2	-33	20	99	6	-6	-2	57	59	40	6	-2	3	40	36	44	6	3	-5	172	175	99	7	-10	-3	37	18	54
6	-12	-1	55	34	81	6	-6	-1	76	71	50	6	-2	4	56	62	64	6	3	-4	50	52	28	7	-10	-2	28	12	55
6	-12	0	42	37	99	6	-6	0	106	96	67	6	-1	-8	44	45	19	6	3	-3	76	76	36	7	-10	-1	20	28	99
6	-12	1	43	35	89	6	-6	1	123	117	83	6	-1	-7	62	64	24	6	3	-2	85	84	41	7	-10	0	70	67	87
6	-11	-4	71	56	76	6	-6	2	33	49	99	6	-1	-6	80	82	36	6	3	-1	108	104	62	7	-10	1	113	98	99
6	-11	-3	69	66	76	6	-6	3	46	35	54	6	-1	-5	145	143	99	6	3	0	157	165	99	7	-10	2	34	32	82
6	-11	-2	-25	35	99	6	-6	4	40	59	76	6	-1	-4	165	164	99	6	3	1	52	50	40	7	-9	-5	54	40	51
6	-11	-1	49	44	71	6	-5	-7	-13	9	36	6	-1	-3	-22	15	42	6	3	2	54	51	43	7	-9	-4	27	41	99
6	-11	0	3	58	99	6	-5	-6	13	16	36	6	-1	-2	112	105	62	6	4	-8	32	27	21	7	-9	-3	60	52	58
6	-11	1	54	57	85	6	-5	-5	91	106	45	6	-1	-1	184	180	99	6	4	-7	19	34	49	7	-9	-2	47	36	55
6	-11	2	18	28	99	6	-5	-4	177	193	99	6	-1	0	130	125	85	6	4	-6	106	100	62	7	-9	-1	69	56	67
6	-10	-4	92	81	76	6	-5	-3	98	105	51	6	-1	1	88	89	51	6	4	-5	117	115	72	7	-9	0	61	53	73
6	-10	-3	25	13	99	6	-5	-2	18	5	48	6	-1	2	49	47	41	6	4	-4	60	56	31	7	-9	1	67	53	77
6	-10	-2	21	40	99	6	-5	-1	36	40	29	6	-1	3	76	71	56	6	4	-3	20	10	23	7	-9	2	40	39	77
6	-10	-1	-42	22	99	6	-5	0	149	149	99	6	-1	4	29	44	85	6	4	-2	58	48	31	7	-8	-5	-29	10	77
6	-10	0	72	68	81	6	-5	1	185	179	99	6	0	-8	70	77	29	6	4	-1	143	136	99	7	-8	-4	80	76	57
6	-10	1	107	96	99	6	-5	2	135	130	94	6	0	-7	29	27	16	6	4	0	114	115	68	7	-8	-3	105	96	71
6	-10	2	-36	18	99	6	-5	3	21	7	99	6	0	-6	39	40	19	6	4	1	15	6	53	7	-8	-2	75	65	58
6	-10	3	-53	6	99	6	-5	4	34	14	99	6	0	-5	97	97	51	6	4	2	38	19	41	7	-8	-1	30	19	53
6	-9	-5	120	104	82	6	-4	-7	48	52	23	6	0	-4	289	264	99	6	5	-7	8	22	34	7	-8	0	35	45	62
6	-9	-4	97	85	73	6	-4	-6	44	47	21	6	0	-3	316	296	99	6	5	-6	59	57	31	7	-8	1	71	76	77
6	-9	-3	40	26	44	6	-4	-5	157	172	99	6	0	-2	27	24	21	6	5	-5	73	72	37	7	-8	2	86	89	92
7	-8	3	46	27	74	7	-2	-6	7	11	18	7	3	-6	10	12	21	8	-7	1	85	81	85	8	-1	1	68	79	50
7	-7	-6	-7	3	47	7	-2	-5	33	37	18	7	3	-5	19	41	24	8	-6	-6	18	33	39	8	0	-7	73	76	27
7	-7	-5	13	16	25	7	-2	-4	117	119	67	7	3	-4	83	80	38	8	-6	-5	42	47	24	8	0	-6	13	18	18
7	-7	-4	108	120	66	7	-2	-3	234	233	99	7	3	-3	105	103	57	8	-6	-4	72	80	37	8	0	-5	51	54	24
7	-7	-3	133	131	99	7	-2	-2	199	205	99	7	3	-2	80	77	42	8	-6	-3	86	93	46	8	0	-4	70	72	32
7	-7	-2	23	32	42	7	-2	-1	-13	6	45	7	3	-1	49	52	35	8	-6	-2	-13	6	61	8	0	-3	71	70	33
7	-7	-1	12	22	99	7	-2	0	44	45	33	7	3	0	38	39	35	8	-6	-1	15	18	73	8	0	-2	59	62	33
7	-7	0	55	43	56	7	-2	1	122	126	81	7	3	1	73	73	51	8	-6	0	71	74	55	8	0	-1	21	52	69
7	-7	1	112	106	91	7	-2	2	111	110	73	7	4	-7	45	40	24	8	-6	1	73	66	61	8	0	0	51	58	38
7	-7	2	92	95	91	7	-2	3	67	62	55	7	4	-6	19	15	21	8	-6	2	55	54	65	8	0	1	58	63	44
7	-7	3	55	59	80	7	-1	-8	86	90	41	7	4	-5	14	12	22	8	-5	-6	47	50	20	8	1	-7	93	95	48
7	-6	-6	39	39	23	7	-1	-7	20	3	14	7	4	-4	112	109	69	8	-5	-5	33	32	18	8	1	-6	79	74	34
7	-6	-5	70	69	33	7	-1	-6	45	47	21	7	4	-3	131	126	86	8	-5	-4	36	37	23	8	1	-5	-22	10	39
7	-6	-4	129	146	85	7	-1	-5	14	18	33	7	4	-2	54	52	36	8	-5	-3	117	123	76	8	1	-4	20	31	44
7	-6	-3	97	103	50	7	-1	-4	189	184	99	7	4	-1	18	20	62	8	-5	-2	161	169	99	8	1	-3	96	92	50
7	-6	-2	35	38	33	7	-1	-3	123	119	74	7	4	0	-18	12	75	8	-5	-1	26	38	72	8	1	-2	107	105	58
7	-6	-1	35	28	35	7	-1	-2	36	34	24	7	4	1	36	44	46	8	-5	0	21	31	77	8	1	-1	54	51	35
7	-6	0	81	77	57	7	-1	-1	27	33	26	7	5	-6	36	40	29	8	-5	1	62	66	51	8	1	0	23	18	31
7	-6	1	149	130	99	7	-1	0	41	37	32	7	5	-5	-26	19	56	8	-5	2	51	65	59	8	1	1	20	21	41
7	-6	2	41	38	62	7	-1	1	137	134	99	7	5	-4	149	144	99	8	-4	-6	28	26	15	8	2	-7	59	62	24
7	-6	3	32	13	99	7	-1	2	93	101	62	7	5	-3	109	104	65	8	-4	-5	32	32	17	8	2	-6	10	5	17
7	-5	-7	27	31	17	7	-1	3	14	20	85	7	5	-2	-27	7	67	8	-4	-4	43	49	24	8	2	-5	36	35	22
7	-5	-6	-11	4	37	7	0	-8	29	32	16	7	5	-1	26	29	73	8	-4	-3	117	118	74	8	2	-4	47	40	26
7	-5	-5	85	96	37	7	0	-7	33	33	17	7	5	0	33	30	38	8	-4	-2	148	154	99	8	2	-3	138	127	88
7	-5	-4	84	85	39	7	0	-6	47	47	20	7	6	-6	-23	13	59	8	-4	-1	107	110	60	8	2	-2	99	99	51
7	-5	-3	27	14	23	7	0	-5	105	98	54	7	6	-5	75	77	43	8	-4	0	14	15	62	8	2	-1	-17	14	59
7	-5	-2	24	41	60	7	0	-4	157	152	99	7	6	-4	81	84	46	8	-4	1	27	40	47	8	2	0	26	25	33
7	-5	-1	22	6	57	7	0	-3	76	74	34	7	6	-3	79	70	44	8	-4	2	91	91	66	8	3	-6	28	26	19
7	-5	0	129	130	89	7	0	-2	131	126	79	7	6	-2	17	26	74	8	-3	-7	52	60	20	8	3	-5	17	25	21
7	-5	1	107	114	72	7	0	-1	53	58	31	7	6	-1	23	6	65	8	-3	-6	36	37	17	8	3	-4	51	51	28
7	-5	2	38	18	45	7	0	0	122	126	74	7	7	-4	89	86	51	8	-3	-5	31	31	19	8	3	-3	148	142	99
7	-5	3	67	64	64	7	0	1	127	130	86	7	7	-3	-21	14	73	8	-3	-4	53	55	26	8	3	-2	63	62	37
7	-4	-7	-4	12	23	7	0	2	40	45	41	8	-10	-3	71	67	75	8	-3	-3	146	150	99	8	3	-1	28	27	30
7	-4	-6	47	48	21	7	1	-8	29	30	16	8	-10	-2	69	64	82	8	-3	-2	47	43	30	8	4	-6	1	15	32
7	-4	-5	98	110	53	7	1	-7	28	29	17	8	-10	-1	-21	25	99	8	-3	-1	-25	26	63	8	4	-5	53	51	29
7	-4	-4	106	116	61	7	1	-6	28	28	18	8	-10	0	-30	4	99	8	-3	0	18	26	74	8	4	-4	104	104	57
7	-4	-3	35	39	24	7	1	-5	120	117	68	8	-9	-4	48	37	48	8	-3	1	51	56	43	8	4	-3	57	61	33
7	-4	-2	21	12	48	7	1	-4	152	147	99	8	-9	-3	95	91	75	8	-3	2	78	86	65	8	4	-2	41	33	29
7	-4	-1	88	88	46	7	1	-3	29	12	21	8	-9	-2	82	61	70	8	-2	-7	6	3	27	8	4	-1	11	19	65
7	-4	0	116	118	73	7	1	-2	55	55	30	8	-9	-1	32	5	99	8	-2	-6	18	35	36	8	5	-5	23	34	55
7	-4	1	101	103	63	7	1	-1	-35	13	57	8	-9	0	-20	10	99	8	-2	-5	5	7	31	8	5	-4	115	107	76
7	-4	2	14	20	62	7	1	0	108	111	61	8	-9	1	21	38	99	8	-2	-4	117	116	67	8	5	-3	62	68	39
7	-4	3	-40	4	99	7	1	1	93	98	56	8	-8	-5	19	11	55	8	-2	-3	109	106	59	9	-8	-3	50	53	42
7	-3	-7	53	61	23	7	1	2	-14	8	52	8	-8	-4	67	65	43	8	-2	-2	15	12	48	9	-8	-2	79	77	57
7	-3	-6	51	58	22	7	2	-7	-4	7	31	8	-8	-3	94	85	68	8	-2	-1	92	95	49	9	-8	-1	-16	16	98
7	-3	-5	54	56	23	7	2	-6	57	58	25	8	-8	-2	39	35	54	8	-2	0	13	9	44	9	-7	-4	20	12	25
7	-3	-4	128	135	93	7	2	-5	104	100	57	8	-8	-1	16	34	94	8	-2	1	94	98	58	9	-7	-3	28	34	35
7	-3	-3	180	187	99	7	2	-4	92	89	45	8	-8	0	0	7	99	8	-1	-7	34	34	16	9	-7	-2	91	99	59
7	-3	-2	38	45	28	7	2	-3	57	54	28	8	-8	1	58	61	85	8	-1	-6	-24	6	30	9	-7	-1	115	120	77
7	-3	-1	76	75	39	7	2	-2	33	34	25	8	-7	-5	7	28	33	8	-1	-5	61	60	25	9	-6	-5	-18	5	43
7	-3	0	105	110	59	7	2	-1	76	74	40	8	-7	-4	78	82	42	8	-1	-4	102	103	57	9	-6	-4	29	23	22
7	-3	1	80	86	52	7	2	0	102	105	59	8	-7	-3	40	33	33	8	-1	-3	94	93	47	9	-6	-3	44	56	34
7	-3	2	80	76	56	7	2	1	69	71	46	8	-7	-2	-27	11	71	8	-1	-2	-26	5	51	9	-6	-2	77	82	46
7	-3	3	59	53	54	7	2	2	27	8	73	8	-7	-1	-42	4	92	8	-1	-1	16	10	54	9	-6	-1	66	74	49
7	-2	-7	57	63	22	7	3	-7	85	82	39	8	-7	0	32	29	99	8	-1	0	21	29	65	9	-6	0	53	50	49

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	-5	-5	40	41	20																								
9	-5	-4	-20	3	41																								
9	-5	-3	61	64	35																								
9	-5	-2	86	88	49																								
9	-5	-1	21	9	64																								
9	-5	0	32	29	40																								
9	-4	-5	15	13	35																								
9	-4	-4	14	26	22																								
9	-4	-3	87	91	42																								
9	-4	-2	50	54	34																								
9	-4	-1	-4	8	71																								
9	-4	0	43	45	40																								
9	-3	-6	7	17	30																								
9	-3	-5	14	18	24																								
9	-3	-4	56	59	27																								
9	-3	-3	69	67	34																								
9	-3	-2	50	53	31																								
9	-3	-1	-20	14	60																								
9	-3	0	33	18	31																								
9	-2	-6	87	90	41																								
9	-2	-5	15	25	33																								
9	-2	-4	15	30	42																								
9	-2	-3	40	47	26																								
9	-2	-2	61	63	33																								
9	-2	-1	59	59	37																								
9	-2	0	-3	39	72																								
9	-1	-6	77	82	33																								
9	-1	-5	39	37	19																								
9	-1	-4	20	18	19																								
9	-1	-3	38	38	25																								
9	-1	-2	92	91	46																								
9	-1	-1	75	78	40																								
9	0	-6	38	40	18																								
9	0	-5	28	26	18																								
9	0	-4	28	27	20																								
9	0	-3	68	66	33																								
9	0	-2	104	110	62																								
9	0	-1	46	52	36																								
9	1	-5	13	22	41																								
9	1	-4	14	12	29																								
9	1	-3	65	67	35																								
9	1	-2	101	101	57																								
9	2	-5	-18	3	37																								
9	2	-4	75	74	36																								
9	2	-3	96	97	52																								

APPENDIX 3.IX

$[Ni(S_2COCy)_2]$

Table 3.IX.1: Crystallographic Parameters for [Ni($S_2COCH(CH_2)5)2$]

Formula	$C_{14}H_{22}NiO_2S_4$
Formula weight	409.27
Crystal morphology / colour	block / brown
Crystal dimensions (mm)	0.08 x 0.19 x 0.24
Crystal system	triclinic
Space group	$P\bar{1}$ (#2)
a (Å)	9.89(1)
b (Å)	10.102(7)
c (Å)	9.850(7)
α (°)	110.83(5)
β (°)	107.19(7)
γ (°)	87.28(9)
V (Å^3)	876(1)
Z	2
$\rho_{calc.}$ (g cm^{-3})	1.550
$F(000)$	428
Temperature (°K)	200
μ (cm^{-1})	15.69
θ limits, cell (°)	26.6 – 27.5
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 12, -13 – 13, -12 – 11
Range of transmission factors	0.938 – 1
Scan technique	ω:2θ
No. of data measured	4259
No. of unique data	4025
R_{amal}	0.036
No. of parameters	190
R (I≥0σ(I))	0.058
R_w (I≥0σ(I))	0.096
R (I≥3σ(I))	0.035
R_w (I≥3σ(I))	0.045
Maximum and minimum residual electron density (e Å^{-3})	0.56, -0.68

Table 3.IX.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2COCH(CH_2)5)2]$

Atom	*x*	*y*	*z*
Ni	0.14562(4)	0.53707(4)	0.18615(4)
S(1)	0.14166(8)	0.55710(7)	0.41576(8)
S(2)	0.12374(8)	0.76902(7)	0.28682(7)
S(3)	0.17611(8)	0.52098(7)	-0.03263(7)
S(4)	0.20004(8)	0.31290(7)	0.10125(8)
O(1)	0.1422(2)	0.8365(2)	0.5733(2)
O(2)	0.2631(2)	0.2591(2)	-0.1513(2)
C(1)	0.1369(3)	0.7332(3)	0.4450(3)
C(2)	0.1826(3)	0.8079(3)	0.7173(3)
C(3)	0.3429(3)	0.8203(3)	0.7781(3)
C(4)	0.3907(3)	0.8060(3)	0.9340(3)
C(5)	0.3229(3)	0.9123(3)	1.0442(3)
C(6)	0.1627(3)	0.9021(3)	0.9792(3)
C(7)	0.1154(3)	0.9171(3)	0.8234(3)
C(8)	0.2197(3)	0.3530(3)	-0.0447(3)
C(9)	0.2808(3)	0.2967(3)	-0.2784(3)
C(10)	0.2530(3)	0.1598(3)	-0.4146(3)
C(11)	0.2762(4)	0.1879(4)	-0.5484(3)
C(12)	0.4240(4)	0.2557(4)	-0.5074(4)
C(13)	0.4534(3)	0.3900(4)	-0.3661(4)
C(14)	0.4285(3)	0.3618(3)	-0.2332(3)

Table 3.IX.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2CO(CH(CH_2)5)2)2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0273(2)	0.0270(2)	0.0284(2)	0.0002(1)	0.0079(1)	0.0082(1)
S(1)	0.0432(4)	0.0291(3)	0.0320(3)	0.0023(3)	0.0113(3)	0.0104(3)
S(2)	0.0396(4)	0.0298(3)	0.0307(3)	0.0024(3)	0.0079(3)	0.0112(3)
S(3)	0.0323(4)	0.0276(3)	0.0348(3)	0.0022(3)	0.0123(3)	0.0122(3)
S(4)	0.0390(4)	0.0300(3)	0.0350(3)	0.0050(3)	0.0144(3)	0.0139(3)
O(1)	0.043(1)	0.030(1)	0.0296(9)	0.0053(9)	0.0075(9)	0.0083(8)
O(2)	0.034(1)	0.033(1)	0.0333(9)	0.0071(8)	0.0154(8)	0.0129(8)
C(1)	0.022(1)	0.031(1)	0.036(1)	0.002(1)	0.006(1)	0.012(1)
C(2)	0.026(1)	0.033(1)	0.028(1)	0.001(1)	0.007(1)	0.010(1)
C(3)	0.024(1)	0.044(2)	0.042(1)	0.005(1)	0.014(1)	0.018(1)
C(4)	0.021(1)	0.047(2)	0.045(2)	0.005(1)	0.010(1)	0.023(1)
C(5)	0.029(2)	0.043(2)	0.035(1)	0.002(1)	0.004(1)	0.017(1)
C(6)	0.029(2)	0.044(2)	0.030(1)	0.007(1)	0.013(1)	0.012(1)
C(7)	0.024(1)	0.039(2)	0.034(1)	0.009(1)	0.005(1)	0.010(1)
C(8)	0.020(1)	0.029(1)	0.033(1)	0.000(1)	0.006(1)	0.010(1)
C(9)	0.024(1)	0.031(1)	0.031(1)	0.004(1)	0.008(1)	0.013(1)
C(10)	0.037(2)	0.036(2)	0.038(1)	-0.001(1)	0.012(1)	0.008(1)
C(11)	0.048(2)	0.052(2)	0.034(1)	-0.003(2)	0.014(1)	0.009(1)
C(12)	0.040(2)	0.077(3)	0.048(2)	0.005(2)	0.022(2)	0.025(2)
C(13)	0.024(2)	0.063(2)	0.051(2)	-0.006(1)	0.008(1)	0.027(2)
C(14)	0.024(1)	0.045(2)	0.040(1)	-0.001(1)	0.003(1)	0.016(1)

Table 3.IX.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Ni(S_2COCH(CH_2)_5)_2]$*

Atom	*x*	*y*	*z*	*B*eq
H(2a)	0.1469	0.7133	0.6985	2.7805
H(3a)	0.3811	0.7458	0.7083	3.3095
H(3b)	0.3778	0.9121	0.7871	3.3095
H(4a)	0.3638	0.7107	0.9229	3.3594
H(4b)	0.4929	0.8225	0.9747	3.3594
H(5a)	0.3477	0.8935	1.1383	3.4270
H(5b)	0.3588	1.0074	1.0649	3.4270
H(6a)	0.1244	0.9770	1.0486	3.2542
H(6b)	0.1261	0.8106	0.9692	3.2542
H(7a)	0.1446	1.0114	0.8337	3.2604
H(7b)	0.0130	0.9026	0.7825	3.2604
H(9a)	0.2119	0.3637	-0.3001	2.7158
H(10a)	0.1559	0.1233	-0.4416	3.5981
H(10b)	0.3174	0.0906	-0.3898	3.5981
H(11a)	0.2064	0.2513	-0.5777	4.3390
H(11b)	0.2647	0.0987	-0.6332	4.3390
H(12a)	0.4935	0.1884	-0.4885	4.9448
H(12b)	0.4318	0.2796	-0.5920	4.9448
H(13a)	0.3911	0.4613	-0.3887	4.2266
H(13b)	0.5513	0.4246	-0.3379	4.2266
H(14a)	0.4402	0.4507	-0.1478	3.5164
H(14b)	0.4967	0.2973	-0.2038	3.5164

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 3.IX.5: Bond distances (Å) for [Ni($S_2COCH(CH_2)_5)_2$]

Ni — S(1)	2.2099(7)	C(2) — C(3)	1.514(4)
Ni — S(2)	2.2241(8)	C(2) — C(7)	1.507(4)
Ni — S(3)	2.2116(7)	C(3) — C(4)	1.525(4)
Ni — S(4)	2.2182(8)	C(4) — C(5)	1.522(4)
S(1) — C(1)	1.699(3)	C(5) — C(6)	1.516(4)
S(2) — C(1)	1.689(3)	C(6) — C(7)	1.527(4)
S(3) — C(8)	1.702(3)	C(9) — C(10)	1.512(4)
S(4) — C(8)	1.690(3)	C(9) — C(14)	1.505(4)
O(1) — C(1)	1.310(3)	C(10) — C(11)	1.524(4)
O(1) — C(2)	1.484(3)	C(11) — C(12)	1.523(5)
O(2) — C(8)	1.306(3)	C(12) — C(13)	1.522(5)
O(2) — C(9)	1.488(3)	C(13) — C(14)	1.522(4)

Table 3.IX.6: Bond angles (deg.) for [Ni($S_2COCH(CH_2)_5)_2$]

S(1) — Ni — S(2)	79.22(3)	C(3) — C(2) — C(7)	112.2(2)
S(1) — Ni — S(3)	173.48(3)	C(2) — C(3) — C(4)	110.3(2)
S(1) — Ni — S(4)	99.98(3)	C(3) — C(4) — C(5)	111.4(2)
S(2) — Ni — S(3)	100.79(3)	C(4) — C(5) — C(6)	111.5(2)
S(2) — Ni — S(4)	171.92(3)	C(5) — C(6) — C(7)	112.1(2)
S(3) — Ni — S(4)	79.08(3)	C(2) — C(7) — C(6)	109.5(2)
Ni — S(1) — C(1)	83.78(9)	S(3) — C(8) — S(4)	112.5(1)
Ni — S(2) — C(1)	83.56(9)	S(3) — C(8) — O(2)	127.1(2)
Ni — S(3) — C(8)	84.09(9)	S(4) — C(8) — O(2)	120.4(2)
Ni — S(4) — C(8)	84.16(9)	O(2) — C(9) — C(10)	106.1(2)
C(1) — O(1) — C(2)	119.7(2)	O(2) — C(9) — C(14)	109.0(2)
C(8) — O(2) — C(9)	119.7(2)	C(10) — C(9) — C(14)	112.4(2)
S(1) — C(1) — S(2)	113.1(2)	C(9) — C(10) — C(11)	109.4(2)
S(1) — C(1) — O(1)	126.6(2)	C(10) — C(11) — C(12)	111.4(3)
S(2) — C(1) — O(1)	120.3(2)	C(11) — C(12) — C(13)	111.5(3)
O(1) — C(2) — C(3)	107.9(2)	C(12) — C(13) — C(14)	111.4(3)
O(1) — C(2) — C(7)	106.5(2)	C(9) — C(14) — C(13)	110.1(2)

Table 3.IX.7: Observed and calculated structure factors for $[Ni(S_2COCH(CH_2)_5)_2]$

h	k	l	Fo	Fc	sigF2
0	0	2	10	9	5
0	0	3	23	22	22
0	0	4	13	12	9
0	0	5	36	35	50
0	0	6	8	7	5
0	0	7	20	20	23
0	0	8	29	29	40
0	0	9	13	14	10
0	0	10	12	12	9
0	0	11	6	7	6
0	1	-9	6	8	6
0	1	-8	7	9	6
0	1	-7	4	5	4
0	1	-6	7	8	4
0	1	-5	25	29	28
0	1	-4	20	22	19
0	1	-3	54	54	99
0	1	-2	49	46	83
0	1	1	14	13	9
0	1	2	19	17	16
0	1	3	12	11	8
0	1	5	39	40	61
0	1	6	11	10	7
0	1	7	13	13	10
0	1	8	35	35	55
0	1	9	4	3	5
0	1	10	13	13	10
0	2	-11	5	8	5
0	2	-9	10	12	7
0	2	-8	9	10	6
0	2	-6	48	50	86
0	2	-5	90	90	99
0	2	-4	57	56	99
0	2	-3	20	19	18
0	2	-2	5	5	3
0	2	-1	112	116	99
0	2	0	24	24	22
0	2	1	18	18	15
0	2	2	24	24	24
0	2	4	35	35	48
0	2	5	59	58	99
0	2	6	10	9	7
0	2	7	25	25	32
0	2	8	21	21	22
0	3	-11	4	4	4
0	3	-9	26	30	34
0	3	-8	38	42	60
0	3	-7	9	10	7
0	3	-6	40	40	64
0	3	-5	55	54	99
0	3	-4	10	10	5
0	3	-3	30	28	35
0	3	-2	7	6	3
0	3	-1	5	5	3
0	3	0	75	75	99
0	3	1	29	30	34
0	3	3	33	33	43
0	3	4	43	44	72
0	3	5	41	42	67
0	3	6	9	9	6
0	3	7	13	13	9
0	3	8	11	11	8
0	4	-11	12	13	9
0	4	-9	42	45	74
0	4	-8	15	16	13
0	4	-7	6	7	5
0	4	-6	22	21	26
0	4	-5	43	41	70
0	4	-4	24	24	26
0	4	-3	9	9	5
0	4	-1	53	53	99
0	4	0	47	49	82
0	4	1	22	23	23
0	4	2	30	31	37
0	4	3	20	19	21
0	4	4	37	37	56
0	4	5	20	19	23
0	4	6	12	11	8
0	4	7	12	12	9
0	4	8	8	8	7
0	4	9	9	9	8
0	5	-12	8	10	7
0	5	-11	5	5	6
0	5	-10	4	6	6
0	5	-9	25	28	35
0	5	-8	8	9	7
0	5	-4	51	52	97
0	5	-3	12	13	8
0	5	-2	22	21	23
0	5	-1	109	109	99
0	5	0	27	27	33
0	5	1	9	10	6
0	5	2	8	7	5
0	5	3	11	11	7
0	5	4	27	28	37
0	5	5	13	12	10
0	5	6	18	18	19
0	5	7	9	8	7
0	5	8	6	6	6
0	6	-11	9	8	8
0	6	-10	9	9	8
0	6	-9	11	11	9
0	6	-6	4	3	4
0	6	-5	8	8	6
0	6	-4	60	60	99
0	6	-3	7	7	5
0	6	-2	16	16	14
0	6	-1	45	45	79
0	6	0	7	7	5
0	6	2	10	10	7
0	6	4	39	40	63
0	6	5	10	10	8
0	6	6	11	11	9
0	7	-10	13	14	12
0	7	-9	27	27	40
0	7	-7	9	8	7
0	7	-6	36	37	58
0	7	-5	29	30	41
0	7	-4	20	20	20
0	7	-2	6	6	5
0	7	-1	22	24	27
0	7	1	19	20	19
0	7	2	7	7	6
0	7	3	26	26	35
0	7	4	44	45	80
0	7	5	7	7	7
0	7	7	10	9	9
0	8	-10	22	23	26
0	8	-9	28	28	44
0	8	-8	9	9	8
0	8	-7	8	8	7
0	8	-6	20	21	22
0	8	-5	10	10	8
0	8	-1	26	26	35
0	8	0	18	18	18
0	8	1	17	18	18
0	8	2	5	5	6
0	8	3	21	21	23
0	8	4	22	23	25
0	8	6	8	8	8
0	9	-10	25	25	33
0	9	-9	11	11	11
0	9	-5	10	10	9
0	9	-4	15	14	13
0	9	-2	30	31	47
0	9	-1	28	28	41
0	9	0	16	16	13
0	9	1	27	28	42
0	9	3	5	6	7
0	9	4	13	12	11
0	9	5	5	4	7
0	10	-10	9	10	11
0	10	-8	5	5	7
0	10	-7	10	10	9
0	10	-5	38	37	68
0	10	-4	13	13	12
0	10	-3	15	15	13
0	10	-2	23	23	29
0	10	-1	14	14	12
0	10	0	11	11	10
0	10	1	7	8	8
0	10	2	8	7	8
0	10	3	8	8	8
1	-4	-5	14	13	11
1	-4	-4	4	4	4
1	-4	-3	13	14	11
1	-4	-2	63	64	99
1	-4	-1	18	18	17
1	-4	0	113	117	99
1	-4	1	38	38	56
1	-4	2	7	6	4
1	-4	4	8	8	5
1	-4	5	9	10	6
1	-4	7	10	9	7
1	-4	8	14	14	12
1	-4	9	8	8	7
1	-4	10	20	20	21
1	-4	11	8	9	8
1	-3	-10	5	5	6
1	-3	-9	5	5	6
1	-3	-8	10	9	8
1	-3	-7	20	20	20
1	-3	-6	11	11	8
1	-3	-5	42	40	69
1	-3	-4	9	9	5
1	-3	-3	71	71	99
1	-3	-2	12	12	7
1	-3	-1	44	43	71
1	-3	0	97	100	99
1	-3	2	18	18	16
1	-3	3	7	6	4
1	-3	5	67	66	99
1	-3	6	22	22	26
1	-3	7	10	11	8
1	-3	8	24	25	32
1	-3	9	10	11	8
1	-3	10	21	21	23
1	-2	-9	12	11	9
1	-2	-8	19	19	19
1	-2	-7	11	11	8
1	-2	-6	33	31	48
1	-2	-5	41	40	66
1	-2	-4	29	28	36
1	-2	-3	72	70	99
1	-2	-2	24	22	24
1	-2	-1	8	8	4
1	-2	0	5	3	2
1	-2	1	69	67	99
1	-2	2	6	6	3
1	-2	3	24	23	25
1	-2	4	18	18	17
1	-2	5	82	82	99
1	-2	6	10	10	7
1	-2	7	6	6	5
1	-2	8	14	14	11
1	-2	10	9	9	7
1	-2	11	5	3	5
1	-1	-10	6	6	6
1	-1	-9	33	31	51
1	-1	-8	36	34	57
1	-1	-6	13	13	9
1	-1	-5	12	11	8
1	-1	-4	39	36	58
1	-1	-3	15	14	13
1	-1	-2	4	3	3
1	-1	-1	54	55	99
1	-1	1	34	31	43
1	-1	2	27	26	29
1	-1	3	3	3	3
1	-1	4	92	91	99
1	-1	5	65	64	99
1	-1	7	16	16	16
1	-1	8	19	18	18
1	-1	9	8	8	7
1	-1	10	8	9	8
1	-1	11	4	4	6
1	0	-11	12	11	10
1	0	-9	35	34	57
1	0	-8	39	37	64
1	0	-7	21	19	26
1	0	-6	16	14	14
1	0	-5	7	6	4
1	0	-4	40	36	59
1	0	-2	6	6	3
1	0	1	3	2	2
1	0	2	17	16	13
1	0	3	17	16	15
1	0	4	31	31	39
1	0	5	33	34	47
1	0	6	17	16	15
1	0	7	24	24	30
1	0	8	7	7	6
1	0	9	17	18	18
1	0	10	20	20	22
1	1	-10	8	8	7
1	1	-9	27	31	39
1	1	-7	6	6	5
1	1	-6	4	5	4
1	1	-5	6	7	4
1	1	-4	99	101	99
1	1	-3	51	51	91
1	1	2	33	33	40
1	1	0	28	29	30
1	1	1	27	26	28
1	1	2	31	30	37
1	1	3	29	27	34
1	1	4	31	31	41
1	1	5	15	15	13
1	1	6	7	6	5
1	1	7	13	13	10
1	1	9	30	30	44
1	1	10	12	11	9
1	2	-11	10	12	8
1	2	-9	22	29	28
1	2	-8	15	18	13
1	2	-6	28	29	35
1	2	-5	13	13	8
1	2	-4	67	67	99
1	2	-3	19	19	17
1	2	-2	18	18	15
1	2	-1	108	110	99
1	2	0	74	74	99
1	2	1	24	25	25
1	2	2	4	3	3
1	2	3	6	6	4
1	2	4	72	72	99
1	2	5	24	24	29
1	2	6	13	12	10
1	2	7	23	24	29
1	2	8	12	12	9
1	2	9	17	16	17
1	2	10	5	5	6
1	3	-10	11	12	8
1	3	-9	26	28	36
1	3	-7	23	23	28
1	3	-5	42	42	66
1	3	-4	42	43	67
1	3	-3	4	4	3
1	3	-2	33	32	41
1	3	-1	38	38	53
1	3	0	14	13	11
1	3	1	38	39	55
1	3	2	32	32	42
1	3	3	49	48	91
1	3	4	65	65	99
1	3	5	15	15	14
1	3	6	12	12	8
1	3	9	9	9	8
1	4	-10	27	28	39
1	4	-9	33	35	52
1	4	-8	5	5	5
1	4	-7	4	6	5
1	4	-6	21	21	25
1	4	-5	12	10	8
1	4	-4	33	33	45
1	4	-3	6	6	4
1	4	-1	55	53	99
1	4	0	46	46	77
1	4	1	69	71	99
1	4	2	7	7	4
1	4	3	23	23	27
1	4	4	40	41	66
1	4	6	8	7	6
1	4	7	7	6	7
1	4	9	19	19	21
1	5	-12	9	10	8
1	5	-10	21	22	23
1	5	-9	19	20	19
1	5	-8	6	5	5
1	5	-7	28	30	38
1	5	-6	6	6	5
1	5	-5	15	16	13
1	5	-4	47	48	84
1	5	-2	19	20	20
1	5	-1	56	56	99
1	5	0	42	43	68
1	5	1	34	35	48
1	5	2	4	3	4
1	5	3	8	8	6
1	5	4	19	19	19
1	5	6	9	8	8
1	5	7	5	4	6
1	5	8	16	16	15
1	6	-10	9	10	8
1	6	-9	6	6	6
1	6	-7	4	6	5
1	6	-6	6	6	6
1	6	-5	95	96	99
1	6	-4	57	57	99
1	6	-3	6	6	5
1	6	-2	30	30	40
1	6	-1	8	9	6
1	6	0	25	25	30
1	6	2	20	20	24
1	6	3	13	14	10
1	6	4	22	23	30
1	6	6	10	9	8
1	7	-12	8	10	9
1	7	-10	9	9	8
1	7	-8	16	15	14
1	7	-7	14	14	12
1	7	-5	70	71	99
1	7	-4	19	19	18
1	7	-3	5	5	5
1	7	-1	13	13	10
1	7	0	21	22	27
1	7	1	5	5	5
1	7	3	30	31	45
1	7	4	19	18	20
1	7	5	16	16	16
1	8	-10	31	31	52
1	8	-8	15	15	13
1	8	-6	21	21	23
1	8	-5	29	28	42
1	8	-3	21	21	22
1	8	-2	6	6	6
1	8	0	41	42	71
1	8	1	15	15	14
1	8	2	18	19	17
1	8	3	31	31	48
1	8	5	10	9	9
1	9	-11	14	14	13
1	-8	7	7	8	8
1	-8	8	9	10	8
1	-8	9	30	31	49
1	-8	11	8	8	9
1	-7	-7	7	7	7
1	-7	-5	20	19	21
1	-7	-4	26	27	37
1	-7	-3	16	17	15
1	-7	-2	28	29	41
1	-7	0	18	19	18
1	-7	1	26	26	33
1	-7	3	6	7	5
1	-7	4	12	12	9
1	-7	5	23	24	31
1	-7	6	62	64	99
1	-7	7	9	10	8
1	-7	8	15	15	13
1	-7	9	24	23	29
1	-6	-8	19	19	21
1	-6	-7	14	13	11
1	-6	-5	19	19	20
1	-6	-4	20	19	20
1	-6	-3	14	15	12
1	-6	-2	43	42	73
1	-6	-1	8	8	5
1	-6	0	22	23	25
1	-6	1	32	31	43
1	-6	2	7	7	5
1	-6	3	14	14	11
1	-6	4	27	28	36
1	-6	5	69	69	99
1	-6	6	43	42	76
1	-6	9	11	11	9
1	-6	11	7	6	7
1	-5	-8	30	29	45
1	-5	-7	12	13	10
1	-5	-6	7	6	5
1	-5	-5	15	15	12
1	-5	-4	13	12	10
1	-5	-2	27	26	34
1	-5	-1	5	5	4
1	-5	0	79	82	99
1	-5	1	57	57	99
1	-5	2	25	24	28
1	-5	3	20	21	22
1	-5	4	15	15	13
1	-5	5	47	47	84
1	-5	7	5	5	5
1	-5	9	8	8	8
1	-5	10	8	8	8
1	-5	11	10	11	9
1	-4	-9	9	9	8
1	-4	-8	16	16	14
1	-4	-7	6	6	5
1	-4	-6	13	12	11
1	9	-10	27	28	45
1	9	-9	6	6	8
1	9	-5	17	16	16
1	9	-3	5	4	6
1	9	-2	18	18	20
1	9	-1	18	18	18
1	9	0	34	35	56
1	9	3	13	13	11
1	10	-11	9	10	10
1	10	-8	6	6	7
1	10	-6	6	6	8
1	10	-5	31	30	51
1	10	-3	21	19	24
1	10	-2	12	12	11
1	10	-1	24	24	30
1	10	0	24	24	29
1	10	2	12	12	11
1	11	-6	30	29	51
1	11	-5	29	26	48
1	11	-4	10	10	11
1	11	-2	6	6	8
1	11	-1	8	9	9
1	11	0	7	8	9
1	11	1	10	10	11
1	11	2	8	7	9
1	12	-8	7	7	10
1	12	-6	29	27	42
1	12	-5	9	8	12
1	12	-4	7	6	10
1	12	-3	14	13	15
1	12	-1	13	12	13
1	13	-6	10	9	12
1	13	-4	13	12	14
2	-12	1	20	19	23
2	-12	3	17	16	17
2	-12	4	6	6	10
2	-12	6	19	19	22
2	-11	-2	7	7	8
2	-11	1	15	15	15
2	-11	3	12	12	12
2	-11	5	16	14	15
2	-11	6	33	34	60
2	-11	7	5	5	9
2	-11	8	5	5	8
2	-10	-3	8	8	9
2	-10	-2	10	9	9
2	-10	0	13	12	11
2	-10	1	18	19	19
2	-10	3	22	22	27
2	-10	4	18	18	18
2	-10	5	31	31	52
2	-10	6	25	25	32
2	-10	7	5	5	8
2	-10	8	7	6	8
2	-9	-3	7	7	7

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	-9	-1	5	5	7	2	-5	-4	23	24	29	2	-2	-1	11	10	6	2	1	-9	14	13	11	2	3	7	5	4	6
2	-9	0	31	31	49	2	-5	-3	22	23	27	2	-2	0	36	38	49	2	1	-8	4	4	5	2	3	8	7	7	7
2	-9	1	29	29	45	2	-5	0	44	45	74	2	-2	1	7	7	3	2	1	-7	32	30	45	2	3	9	7	5	6
2	-9	2	15	15	13	2	-5	1	38	36	57	2	-2	2	13	11	8	2	1	-6	6	6	4	2	4	-11	7	8	7
2	-9	3	12	12	10	2	-5	2	39	40	62	2	-2	3	7	7	4	2	1	-5	22	23	24	2	4	-10	23	25	31
2	-9	4	4	2	6	2	-5	3	21	23	27	2	-2	4	58	57	99	2	1	-4	91	90	99	2	4	-8	41	44	70
2	-9	5	18	18	17	2	-5	4	48	48	89	2	-2	5	26	26	32	2	1	-3	22	22	22	2	4	-7	9	9	6
2	-9	6	7	7	8	2	-5	5	47	49	86	2	-2	6	24	24	30	2	1	-2	24	24	23	2	4	-6	16	15	13
2	-9	7	5	6	8	2	-5	6	27	27	38	2	-2	7	18	18	18	2	1	-1	99	101	99	2	4	-5	19	20	21
2	-9	8	10	9	9	2	-5	7	21	20	22	2	-2	8	6	5	6	2	1	0	88	87	99	2	4	-4	5	4	4
2	-9	9	10	9	10	2	-5	8	5	4	6	2	-2	9	19	17	20	2	1	1	47	47	78	2	4	-1	27	25	30
2	-9	10	9	9	10	2	-5	10	18	19	20	2	-2	10	6	5	6	2	1	2	3	3	3	2	4	0	82	85	99
2	-8	-3	24	25	28	2	-5	11	8	7	8	2	-2	11	6	6	7	2	1	3	7	7	4	2	4	1	40	41	62
2	-8	-2	23	24	26	2	-4	-9	23	23	31	2	-1	-10	7	7	6	2	1	4	28	28	36	2	4	2	21	22	24
2	-8	0	43	44	79	2	-4	-8	13	13	10	2	-1	-9	30	30	43	2	1	6	9	10	7	2	4	3	30	30	41
2	-8	1	17	17	15	2	-4	-7	7	7	6	2	-1	-8	14	14	11	2	1	7	18	19	18	2	4	4	16	16	15
2	-8	2	14	15	11	2	-4	-6	20	19	23	2	-1	-7	44	42	75	2	1	8	21	20	23	2	4	5	23	22	29
2	-8	3	10	11	8	2	-4	-4	31	31	42	2	-1	-6	15	15	12	2	1	9	30	29	46	2	4	6	5	5	6
2	-8	5	16	16	15	2	-4	-3	4	4	3	2	-1	-5	13	14	11	2	2	-11	5	3	5	2	4	7	22	22	24
2	-8	6	12	12	10	2	-4	-2	26	25	30	2	-1	-4	57	55	99	2	2	-9	10	10	7	2	5	-12	6	6	7
2	-8	8	6	5	7	2	-4	-1	26	26	29	2	-1	-3	13	12	8	2	2	-8	4	2	5	2	5	-11	10	11	8
2	-8	9	6	6	8	2	-4	0	51	52	95	2	-1	-2	13	14	10	2	2	-7	17	16	15	2	5	-10	21	21	22
2	-8	10	28	27	37	2	-4	1	55	54	99	2	-1	-1	23	23	21	2	2	-6	7	7	5	2	5	-9	9	9	7
2	-7	-5	17	16	15	2	-4	2	5	5	3	2	-1	0	55	55	99	2	2	-5	90	90	99	2	5	-8	8	9	6
2	-7	-4	8	9	7	2	-4	3	11	11	8	2	-1	1	145	154	99	2	2	-4	92	94	99	2	5	-7	9	9	6
2	-7	-3	44	44	81	2	-4	4	19	18	20	2	-1	2	37	35	51	2	2	-3	20	20	19	2	5	-6	18	18	17
2	-7	-2	22	22	28	2	-4	5	24	24	30	2	-1	4	85	83	99	2	2	-2	8	8	4	2	5	-5	22	23	25
2	-7	-1	9	9	7	2	-4	7	11	11	8	2	-1	5	21	21	25	2	2	-1	3	1	2	2	5	-3	15	15	12
2	-7	0	23	23	29	2	-4	8	18	17	18	2	-1	6	13	13	10	2	2	0	12	11	7	2	5	-1	55	54	99
2	-7	2	8	8	6	2	-4	9	22	23	26	2	-1	7	7	7	6	2	2	1	13	13	9	2	5	0	93	95	99
2	-7	3	9	9	7	2	-4	10	24	23	30	2	-1	8	19	19	20	2	2	3	6	6	4	2	5	1	16	16	14
2	-7	4	7	7	6	2	-3	-9	17	17	17	2	-1	9	13	13	11	2	2	4	32	32	44	2	5	2	7	7	5
2	-7	5	44	44	80	2	-3	-6	10	9	6	2	-1	10	8	8	8	2	2	5	15	15	12	2	5	3	7	8	6
2	-7	6	6	6	7	2	-3	-5	6	6	5	2	-1	11	8	8	8	2	2	6	25	26	35	2	5	4	4	4	5
2	-7	7	6	7	7	2	-3	-4	64	64	99	2	0	-10	16	16	14	2	2	7	15	15	12	2	5	5	8	7	7
2	-7	8	12	13	10	2	-3	-3	46	45	79	2	0	-9	31	31	45	2	2	8	18	17	19	2	5	8	15	14	13
2	-7	10	16	16	15	2	-3	-2	18	18	17	2	0	-8	6	6	5	2	2	9	18	17	17	2	6	-12	5	4	6
2	-6	-8	20	20	21	2	-3	-1	64	66	99	2	0	-7	24	24	30	2	3	-12	9	12	8	2	6	-10	6	6	6
2	-6	-6	17	18	15	2	-3	0	17	17	15	2	0	-5	20	18	21	2	3	-10	15	16	12	2	6	-9	10	10	8
2	-6	-5	20	20	21	2	-3	1	24	24	26	2	0	-4	37	37	52	2	3	-9	9	9	7	2	6	-7	5	4	5
2	-6	-4	19	19	19	2	-3	2	11	11	6	2	0	-3	22	21	21	2	3	-8	28	28	37	2	6	-6	9	9	6
2	-6	-3	38	38	62	2	-3	5	33	32	46	2	0	-2	16	16	12	2	3	-7	22	23	27	2	6	-5	57	57	99
2	-6	-2	13	13	10	2	-3	6	16	15	15	2	0	-1	51	53	92	2	3	-6	5	3	4	2	6	-4	20	20	23
2	-6	-1	11	10	7	2	-3	7	23	23	30	2	0	0	107	107	99	2	3	-5	120	123	99	2	6	-3	28	27	36
2	-6	0	18	18	17	2	-3	9	31	31	48	2	0	1	122	128	99	2	3	-4	19	20	18	2	6	-2	31	29	42
2	-6	2	22	20	25	2	-3	10	19	19	21	2	0	2	28	28	31	2	3	-3	10	10	6	2	6	-1	29	30	39
2	-6	4	19	20	18	2	-2	-11	6	6	6	2	0	3	22	22	23	2	3	-2	5	4	3	2	6	0	52	52	99
2	-6	5	66	68	99	2	-2	-10	6	6	6	2	0	4	39	41	60	2	3	-1	22	21	22	2	6	1	5	6	5
2	-6	6	10	9	8	2	-2	-9	15	15	13	2	0	5	7	7	5	2	3	0	52	52	99	2	6	2	39	42	65
2	-6	8	6	5	6	2	-2	-7	16	15	14	2	0	6	13	12	10	2	3	1	23	24	25	2	6	3	9	9	7
2	-6	9	6	5	7	2	-2	-6	7	6	5	2	0	8	12	11	9	2	3	2	11	11	7	2	6	4	10	9	8
2	-6	10	8	7	8	2	-2	-5	13	12	9	2	0	9	26	27	38	2	3	3	46	45	80	2	6	5	18	17	17
2	-5	-9	18	17	17	2	-2	-4	88	88	99	2	0	10	9	9	8	2	3	4	26	26	34	2	6	6	12	11	10
2	-5	-8	28	28	41	2	-2	-3	41	39	63	2	1	-12	17	16	16	2	3	5	38	38	62	2	6	7	5	4	7
2	-5	-6	7	7	6	2	-2	-2	46	44	76	2	1	-10	14	14	12	2	3	6	16	16	14	2	7	-11	6	6	7
2	7	-9	17	17	15	2	12	-9	19	18	20	3	-7	3	9	8	7	3	-4	10	7	7	8	3	-1	10	5	2	6
2	7	-8	14	15	12	2	12	-7	8	7	10	3	-7	5	27	27	39	3	-4	11	10	10	10	3	0	-11	6	6	6
2	7	-7	6	6	6	2	12	-6	15	14	16	3	-7	6	30	32	48	3	-3	-9	8	8	6	3	0	-10	22	21	28
2	7	-6	43	44	77	2	12	-4	10	10	12	3	-7	7	26	26	40	3	-3	-8	6	7	5	3	0	-8	53	51	99
2	7	-5	43	44	75	2	12	-1	15	15	16	3	-7	8	8	7	8	3	-3	-7	28	29	38	3	0	-7	4	3	5
2	7	-4	10	10	7	3	-12	0	9	10	11	3	-7	9	20	20	21	3	-3	-5	32	32	45	3	0	-6	9	10	6
2	7	-3	4	4	5	3	-12	1	7	8	10	3	-7	10	11	12	12	3	-3	-4	55	55	99	3	0	-5	33	31	44
2	7	-1	9	10	7	3	-12	2	10	10	12	3	-6	-7	15	14	12	3	-3	-3	14	13	11	3	0	-4	9	9	5
2	7	0	15	16	13	3	-12	3	9	7	11	3	-6	-6	14	14	11	3	-3	-2	27	28	31	3	0	-3	9	8	5
2	7	1	10	11	8	3	-12	5	8	9	11	3	-6	-5	5	4	5	3	-3	-1	31	31	38	3	0	-2	22	22	22
2	7	2	11	11	9	3	-12	6	9	9	12	3	-6	-4	40	42	69	3	-3	0	56	57	99	3	0	-1	12	12	7
2	7	3	12	12	10	3	-11	4	8	7	10	3	-6	-3	24	24	31	3	-3	1	50	50	93	3	0	0	140	142	99
2	7	4	17	17	17	3	-11	5	21	21	25	3	-6	-2	19	19	18	3	-3	2	5	4	4	3	0	1	37	38	51
2	7	5	22	22	25	3	-11	6	9	9	12	3	-6	-1	20	22	24	3	-3	3	15	15	12	3	0	2	7	7	4
2	8	-10	6	5	7	3	-11	7	7	7	10	3	-6	0	8	8	6	3	-3	4	24	23	30	3	0	3	23	22	26
2	8	-9	31	32	49	3	-10	-4	7	7	8	3	-6	1	24	25	31	3	-3	5	14	14	11	3	0	4	8	8	6
2	8	-8	21	23	24	3	-10	-3	22	22	26	3	-6	2	22	22	26	3	-3	6	17	17	17	3	0	5	26	26	34
2	8	-6	48	48	93	3	-10	-1	13	14	13	3	-6	4	35	37	56	3	-3	7	10	10	8	3	0	7	24	24	33
2	8	-5	25	24	35	3	-10	0	10	10	9	3	-6	5	31	30	46	3	-3	8	15	16	13	3	0	9	10	11	10
2	8	-3	15	15	13	3	-10	2	12	12	12	3	-6	6	27	27	39	3	-3	9	31	32	51	3	0	10	8	8	9
2	8	-1	26	27	36	3	-10	4	8	9	9	3	-6	7	9	10	8	3	-2	-10	7	8	6	3	1	-12	9	9	7
2	8	0	19	20	21	3	-10	5	35	34	63	3	-6	9	16	16	15	3	-2	-9	7	8	6	3	1	-11	6	6	5
2	8	1	11	10	9	3	-10	7	5	6	9	3	-6	10	13	12	12	3	-2	-8	16	16	16	3	1	-10	7	7	6
2	8	2	21	22	24	3	-9	-4	6	6	7	3	-5	-9	23	24	26	3	-2	-7	21	19	26	3	1	-9	8	8	7
2	8	3	14	14	12	3	-9	-3	8	8	8	3	-5	-7	21	21	22	3	-2	-6	10	10	7	3	1	-8	43	41	74
2	8	4	17	16	17	3	-9	-1	10	9	8	3	-5	-5	6	5	5	3	-2	-5	55	55	99	3	1	-7	5	4	5
2	8	5	14	13	13	3	-9	0	18	18	17	3	-5	-4	36	36	55	3	-2	-4	47	47	82	3	1	-6	13	13	9
2	9	-11	7	6	8	3	-9	1	14	14	13	3	-5	-2	44	45	77	3	-2	-3	52	50	99	3	1	-5	36	34	51
2	9	-9	27	28	43	3	-9	2	36	36	62	3	-5	-1	3	4	4	3	-2	-2	5	5	3	3	1	-4	16	15	15
2	9	-7	5	4	6	3	-9	3	6	5	7	3	-5	1	70	69	99	3	-2	-1	5	5	3	3	1	-3	51	50	93
2	9	-6	7	7	7	3	-9	5	19	19	20	3	-5	2	39	38	62	3	-2	0	48	47	84	3	1	-2	32	33	40
2	9	-5	5	6	7	3	-9	6	10	10	10	3	-5	3	5	4	4	3	-2	1	26	25	28	3	1	-1	42	41	64
2	9	-4	7	7	7	3	-9	7	9	10	10	3	-5	4	43	44	74	3	-2	2	3	1	3	3	1	0	157	162	99
2	9	-1	39	40	68	3	-8	-6	8	8	7	3	-5	7	10	11	9	3	-2	3	11	11	7	3	1	1	44	43	72
2	9	0	26	27	39	3	-8	-5	5	4	6	3	-5	8	7	7	7	3	-2	4	29	30	38	3	1	2	23	22	25
2	9	1	13	13	11	3	-8	-4	21	21	23	3	-5	9	6	6	7	3	-2	5	55	57	99	3	1	4	14	13	10
2	9	2	6	6	8	3	-8	-3	18	18	19	3	-5	10	7	7	9	3	-2	6	46	48	86	3	1	5	22	22	28
2	9	3	11	11	10	3	-8	-1	23	24	32	3	-4	-10	10	10	7	3	-2	7	5	5	6	3	1	7	13	13	11
2	9	4	12	12	11	3	-8	0	18	18	19	3	-4	-9	13	12	10	3	-2	8	9	9	8	3	1	8	17	18	17
2	10	-11	11	11	12	3	-8	1	24	24	34	3	-4	-8	5	5	5	3	-2	9	16	16	14	3	1	9	9	9	9
2	10	-9	6	7	9	3	-8	2	24	24	33	3	-4	-7	7	7	6	3	-1	-10	8	6	6	3	2	-11	5	4	5
2	10	-8	7	8	9	3	-8	3	11	11	9	3	-4	-6	10	10	7	3	-1	-9	8	8	6	3	2	-9	9	8	7
2	10	-6	8	7	9	3	-8	4	5	5	6	3	-4	-4	36	36	55	3	-1	-8	20	19	24	3	2	-8	10	10	7
2	10	-4	17	16	17	3	-8	5	11	11	10	3	-4	-3	5	4	4	3	-1	-7	52	51	99	3	2	-7	8	7	5
2	10	-3	10	11	10	3	-8	6	12	12	10	3	-4	-2	34	35	49	3	-1	-5	40	39	64	3	2	-6	24	24	29
2	10	-2	10	11	10	3	-8	8	7	7	8	3	-4	-1	43	45	71	3	-1	-4	47	45	83	3	2	-5	47	48	64
2	10	-1	33	33	57	3	-8	9	13	13	12	3	-4	0	23	24	26	3	-1	-2	15	15	12	3	2	-4	19	19	19
2	10	0	13	13	12	3	-8	10	25	25	33	3	-4	1	115	115	99	3	-1	-1	15	15	12	3	2	-3	37	38	52
2	11	-9	7	9	10	3	-7	-7	4	4	6	3	-4	2	18	17	19	3	-1	0	15	15	13	3	2	-2	31	31	38
2	11	-6	22	20	28	3	-7	-4	32	34	51	3	-4	3	4	4	4	3	-1	1	48	48	83	3	2	-1	80	79	99
2	11	-5	8	8	11	3	-7	-3	32	32	48	3	-4	4	22	23	27	3	-1	3	28	29	35	3	2	0	30	31	36
2	11	-4	24	23	31	3	-7	-2	24	24	33	3	-4	5	16	16	14	3	-1	4	26	26	32	3	2	1	16	16	15
2	11	-3	7	6	9	3	-7	-1	6	7	6	3	-4	6	11	11	9	3	-1	5	45	45	80	3	2	2	24	24	27
2	11	-1	16	16	15	3	-7	0	15	15	13	3	-4	7	6	6	7	3	-1	6	29	28	41	3	2	3	12	12	8
2	11	1	12	11	12	3	-7	1	21	21	27	3	-4	9	22	22	27	3	-1	9	11	10	9	3	2	4	9	9	7

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	2	5	38	37	61	3	5	4	16	17	15	3	10	-8	8	9	9	4	-8	6	12	12	11	4	-4	0	78	81	99
3	2	6	18	18	16	3	5	5	17	17	16	3	10	-7	5	5	7	4	-8	8	6	7	9	4	-4	1	29	30	38
3	2	7	14	14	12	3	5	6	17	17	16	3	10	-6	11	11	10	4	-8	9	13	13	13	4	-4	2	5	4	5
3	2	8	28	27	42	3	6	-10	4	5	6	3	10	-5	19	18	19	4	-7	-7	5	5	6	4	-4	3	16	16	15
3	2	9	5	4	7	3	6	-9	20	21	21	3	10	-4	24	24	31	4	-7	-5	7	7	7	4	-4	4	6	6	6
3	3	-11	12	11	10	3	6	-8	7	7	6	3	10	-2	22	22	28	4	-7	-4	29	29	44	4	-4	7	14	14	12
3	3	-10	5	5	6	3	6	-4	67	69	99	3	10	-1	18	19	20	4	-7	-2	33	34	51	4	-4	8	5	4	7
3	3	-9	28	27	40	3	6	-3	22	24	27	3	10	0	13	13	13	4	-7	-1	15	15	13	4	-4	9	14	14	13
3	3	-8	34	33	51	3	6	-1	45	47	80	3	10	2	7	7	9	4	-7	0	23	22	31	4	-4	10	6	7	9
3	3	-7	6	6	5	3	6	0	23	25	30	3	11	-5	41	41	80	4	-7	1	35	34	56	4	-3	-10	9	9	7
3	3	-6	32	33	44	3	6	3	7	8	7	3	11	-4	17	16	17	4	-7	2	9	9	7	4	-3	-8	18	18	17
3	3	-5	52	51	99	3	6	4	20	20	23	3	11	-3	6	7	9	4	-7	3	18	19	19	4	-3	-5	20	20	24
3	3	-4	12	13	8	3	6	5	13	13	12	3	11	-2	8	8	10	4	-7	6	29	30	46	4	-3	-3	52	53	99
3	3	-3	7	7	4	3	6	6	5	4	7	3	11	-1	9	8	10	4	-7	7	13	13	11	4	-3	-2	25	25	29
3	3	-2	4	4	3	3	6	7	7	6	8	3	11	0	8	8	10	4	-7	9	20	20	23	4	-3	-1	11	11	9
3	3	-1	7	8	4	3	7	-12	9	8	8	3	11	1	6	4	8	4	-6	-8	9	9	7	4	-3	0	72	73	99
3	3	0	27	28	31	3	7	-9	20	20	22	3	12	-8	11	11	11	4	-6	-7	18	17	19	4	-3	1	26	34	52
3	3	1	4	5	4	3	7	-7	4	5	6	3	12	-7	12	11	13	4	-6	-5	24	24	34	4	-3	2	17	17	15
3	3	2	4	4	4	3	7	-6	33	34	51	3	12	-6	10	9	12	4	-6	-4	33	33	50	4	-3	3	14	15	11
3	3	3	19	19	22	3	7	-5	17	16	16	3	12	-5	30	28	45	4	-6	-3	19	18	19	4	-3	5	25	25	34
3	3	4	29	30	41	3	7	-4	49	48	94	3	12	-3	13	11	13	4	-6	-2	9	8	6	4	-3	6	9	8	7
3	3	5	44	45	80	3	7	-3	5	4	5	4	-12	1	10	10	12	4	-6	0	9	10	7	4	-3	8	11	11	10
3	3	6	11	11	9	3	7	-2	9	7	7	4	-12	2	13	13	14	4	-6	1	31	30	45	4	-3	9	6	7	9
3	3	8	11	11	10	3	7	-1	26	26	35	4	-12	4	17	16	18	4	-6	2	4	3	5	4	-3	10	17	17	17
3	4	-10	6	6	6	3	7	0	16	15	14	4	-11	1	10	10	10	4	-6	3	6	6	6	4	-2	-10	9	8	7
3	4	-9	38	38	62	3	7	2	8	8	7	4	-11	2	6	4	9	4	-6	4	25	25	35	4	-2	-9	9	9	7
3	4	-8	42	42	73	3	7	3	6	5	7	4	-11	3	10	9	11	4	-6	5	35	34	56	4	-2	-8	22	21	23
3	4	-6	18	18	17	3	7	4	37	37	65	4	-11	5	21	21	24	4	-6	6	35	35	57	4	-2	-6	15	15	14
3	4	-5	26	27	32	3	7	5	8	8	9	4	-11	6	13	12	14	4	-6	7	6	5	7	4	-2	-5	43	42	74
3	4	-4	6	5	4	3	7	6	8	9	9	4	-11	7	14	14	16	4	-6	9	12	11	12	4	-2	-4	8	9	6
3	4	-3	7	6	4	3	8	-12	9	8	9	4	-10	-4	13	13	11	4	-5	-9	8	8	7	4	-2	-3	79	80	99
3	4	-2	12	10	8	3	8	-10	18	17	17	4	-10	-3	7	8	9	4	-5	-8	26	26	36	4	-2	-2	29	28	35
3	4	-1	7	8	4	3	8	-9	35	37	60	4	-10	-1	18	19	18	4	-5	-7	20	21	22	4	-2	0	27	27	32
3	4	0	49	50	91	3	8	-7	7	7	7	4	-10	1	17	16	16	4	-5	-5	12	12	8	4	-2	1	43	40	71
3	4	1	16	16	14	3	8	-6	20	21	22	4	-10	2	14	15	13	4	-5	-4	17	16	16	4	-2	2	10	10	6
3	4	2	23	23	29	3	8	-5	16	16	15	4	-10	4	16	15	16	4	-5	-3	16	17	16	4	-2	3	8	8	5
3	4	3	19	20	19	3	8	-4	14	13	11	4	-10	5	12	12	13	4	-5	-2	18	20	17	4	-2	4	14	13	11
3	4	4	24	25	34	3	8	-3	10	10	8	4	-10	6	19	19	21	4	-5	-1	5	5	4	4	-2	5	58	57	99
3	4	5	23	23	31	3	8	-2	18	18	19	4	-10	7	12	12	13	4	-5	0	33	32	47	4	-2	6	28	28	41
3	4	7	7	7	7	3	8	-1	22	22	24	4	-9	-4	6	7	8	4	-5	1	39	40	64	4	-2	8	14	14	13
3	4	8	10	9	9	3	8	1	7	8	8	4	-9	-2	8	8	8	4	-5	2	15	15	12	4	-2	9	8	7	9
3	5	-12	12	13	10	3	8	3	19	19	20	4	-9	1	40	41	73	4	-5	3	13	13	9	4	-2	10	10	10	11
3	5	-11	14	14	11	3	8	4	29	28	47	4	-9	2	22	21	27	4	-5	4	19	18	19	4	-1	-9	21	20	22
3	5	-9	34	36	53	3	9	-10	29	29	47	4	-9	3	11	11	10	4	-5	5	51	52	99	4	-1	-8	28	28	41
3	5	-8	8	8	6	3	9	-9	25	25	32	4	-9	4	17	18	17	4	-5	6	36	35	59	4	-1	-7	18	16	17
3	5	-7	11	10	8	3	9	-6	7	8	8	4	-9	6	9	9	10	4	-5	7	12	11	10	4	-1	-6	17	18	16
3	5	-5	14	14	12	3	9	-4	9	8	8	4	-8	-4	18	19	18	4	-5	8	11	11	10	4	-1	-5	34	34	49
3	5	-4	30	30	41	3	9	-2	10	10	9	4	-8	-3	5	6	6	4	-5	9	7	7	8	4	-1	-4	24	24	28
3	5	-3	26	27	33	3	9	-1	24	25	29	4	-8	-2	8	8	7	4	-4	-10	13	13	9	4	-1	-2	6	5	4
3	5	-2	19	19	22	3	9	0	15	16	13	4	-8	-1	22	23	25	4	-4	-8	32	31	48	4	-1	-1	12	12	9
3	5	-1	67	69	99	3	9	1	22	23	27	4	-8	0	6	6	7	4	-4	-7	10	10	8	4	-1	0	21	22	22
3	5	0	40	40	64	3	9	3	9	10	10	4	-8	1	45	47	86	4	-4	-6	8	8	6	4	-1	1	36	34	51
3	5	1	7	7	6	3	9	4	8	7	9	4	-8	2	10	9	9	4	-4	-5	6	5	5	4	-1	2	34	33	49
3	5	2	11	11	8	3	10	-10	16	16	16	4	-8	3	8	8	8	4	-4	-4	10	10	7	4	-1	3	28	29	38
3	5	3	18	18	18	3	10	-9	8	8	9	4	-8	5	7	7	8	4	-4	-3	5	4	4	4	-1	4	22	22	28
4	-1	5	47	47	88	4	2	7	7	7	8	4	6	-7	15	16	12	4	10	0	23	24	31	5	-7	9	6	5	9
4	-1	6	6	4	6	4	3	-12	14	13	12	4	6	-6	17	17	17	4	10	2	6	5	9	5	-6	-8	13	13	11
4	-1	7	14	13	12	4	3	-11	9	9	8	4	6	-5	41	42	72	4	11	-7	6	4	8	5	-6	-7	4	2	5
4	-1	8	16	16	16	4	3	-10	6	6	6	4	6	-4	47	46	87	4	11	-6	11	11	12	5	-6	-6	10	11	9
4	0	-11	6	5	6	4	3	-9	32	30	48	4	6	-2	27	27	37	4	11	-5	24	23	32	5	-6	-5	17	17	16
4	0	-9	36	36	58	4	3	-8	18	17	17	4	6	-1	23	24	30	4	11	-3	11	11	12	5	-6	-3	42	43	74
4	0	-8	50	47	98	4	3	-7	12	11	8	4	6	0	31	33	48	4	11	-2	8	8	10	5	-6	-2	5	4	5
4	0	-7	8	8	6	4	3	-6	34	34	50	4	6	1	11	10	8	4	11	-1	9	8	10	5	-6	-1	28	27	39
4	0	-6	15	14	14	4	3	-5	25	25	31	4	6	2	15	15	13	4	11	0	15	15	16	5	-6	0	5	4	6
4	0	-5	5	6	4	4	3	-4	70	72	99	4	6	3	11	11	10	4	12	-6	18	18	19	5	-6	1	10	9	8
4	0	-4	24	22	27	4	3	-3	21	21	22	4	6	4	9	9	9	4	12	-5	22	21	27	5	-6	4	5	5	7
4	0	-3	21	21	23	4	3	-2	18	18	19	4	6	6	6	8	10	4	12	-2	7	8	10	5	-6	5	45	45	88
4	0	-1	18	17	17	4	3	-1	32	30	43	4	7	-9	6	5	6	5	-11	1	15	15	15	5	-6	6	13	13	12
4	0	0	84	83	99	4	3	0	40	39	63	4	7	-8	6	6	7	5	-11	3	17	16	17	5	-5	-9	20	19	20
4	0	1	17	17	14	4	3	2	27	26	36	4	7	-7	8	8	8	5	-11	4	7	6	10	5	-5	-8	29	29	44
4	0	2	36	36	54	4	3	3	11	11	9	4	7	-5	72	72	99	5	-11	6	21	20	25	5	-5	-6	10	11	9
4	0	3	9	9	6	4	3	4	44	44	81	4	7	-4	45	45	83	5	-10	-3	10	10	10	5	-5	-5	5	6	6
4	0	4	41	41	69	4	3	5	20	20	22	4	7	-1	14	15	11	5	-10	0	6	7	9	5	-5	-4	14	13	11
4	0	5	44	45	81	4	3	6	20	19	23	4	7	0	13	14	11	5	-10	1	13	14	13	5	-5	-3	25	26	35
4	0	6	15	14	12	4	3	7	4	3	6	4	7	1	9	10	8	5	-10	3	6	4	9	5	-5	-2	10	10	7
4	0	7	17	17	17	4	4	-10	16	15	15	4	7	2	19	20	22	5	-10	4	6	5	9	5	-5	-1	7	8	6
4	0	8	8	9	9	4	4	-9	34	32	53	4	7	3	7	7	8	5	-10	5	20	20	23	5	-5	0	29	29	40
4	1	-12	16	16	15	4	4	-8	9	9	8	4	7	4	18	18	18	5	-10	6	24	23	34	5	-5	1	8	7	7
4	1	-11	7	6	6	4	4	-7	18	18	17	4	8	-12	6	6	8	5	-10	7	8	6	10	5	-5	2	36	36	58
4	1	-9	27	26	36	4	4	-6	15	15	13	4	8	-10	18	19	18	5	-9	-4	9	9	9	5	-5	3	16	16	14
4	1	-8	13	12	10	4	4	-5	15	16	13	4	8	-9	8	8	8	5	-9	-3	7	8	8	5	-5	4	18	18	17
4	1	-7	21	20	26	4	4	-4	28	29	37	4	8	-8	22	23	26	5	-9	-2	5	4	7	5	-5	5	33	34	53
4	1	-6	28	27	38	4	4	-3	4	4	4	4	8	-7	16	16	13	5	-9	0	15	15	13	5	-5	6	20	20	23
4	1	-5	19	18	21	4	4	-2	20	20	23	4	8	-6	19	20	19	5	-9	1	21	21	27	5	-5	7	11	10	10
4	1	-4	39	39	60	4	4	-1	27	27	35	4	8	-5	44	44	82	5	-9	2	7	7	9	5	-5	9	9	9	10
4	1	-3	45	45	77	4	4	0	13	13	10	4	8	-4	13	14	11	5	-9	3	18	18	19	5	-4	-9	14	14	11
4	1	-2	10	10	5	4	4	1	57	57	99	4	8	-3	10	10	9	5	-9	4	18	18	19	5	-4	-8	25	25	30
4	1	-1	25	26	27	4	4	2	18	20	18	4	8	-2	11	11	10	5	-9	5	12	12	12	5	-4	-7	7	7	6
4	1	0	38	38	57	4	4	3	21	20	22	4	8	-1	5	6	6	5	-9	6	13	13	13	5	-4	-6	23	23	31
4	1	1	18	18	15	4	4	4	39	38	67	4	8	0	18	18	17	5	-9	7	9	9	11	5	-4	-5	8	7	6
4	1	3	19	19	18	4	4	5	6	7	8	4	8	1	17	17	18	5	-9	8	8	8	11	5	-4	-4	22	22	28
4	1	4	6	6	6	4	4	7	6	7	8	4	8	2	18	18	19	5	-8	-5	8	8	8	5	-4	-3	16	17	15
4	1	5	19	19	20	4	5	-12	16	15	15	4	8	4	13	13	13	5	-8	-3	11	12	10	5	-4	-2	12	12	9
4	1	6	16	16	15	4	5	-10	25	25	36	4	9	-11	5	4	8	5	-8	-2	10	10	9	5	-4	-1	6	7	5
4	1	7	10	10	9	4	5	-9	42	41	73	4	9	-10	26	25	34	5	-8	-1	17	18	17	5	-4	0	52	52	99
4	1	9	17	17	17	4	5	-7	12	12	9	4	9	-8	12	13	11	5	-8	0	27	27	41	5	-4	1	35	35	54
4	2	-12	11	11	10	4	5	-6	4	6	5	4	9	-5	17	16	17	5	-8	1	28	27	42	5	-4	2	43	42	74
4	2	-9	30	30	44	4	5	-5	4	4	5	4	9	-3	16	16	15	5	-8	2	14	14	12	5	-4	3	17	17	15
4	2	-6	16	16	15	4	5	-4	33	34	48	4	9	-2	8	9	9	5	-8	3	5	5	7	5	-4	4	16	16	15
4	2	-5	17	17	15	4	5	-1	39	40	62	4	9	-1	5	4	7	5	-8	6	14	14	13	5	-4	5	26	26	38
4	2	-4	103	105	99	4	5	0	30	31	43	4	9	0	29	30	47	5	-7	-5	9	10	8	5	-4	6	11	11	10
4	2	-3	40	40	63	4	5	1	58	58	99	4	9	1	13	15	13	5	-7	-3	36	36	61	5	-4	7	13	13	13
4	2	-1	55	54	99	4	5	2	13	13	10	4	9	3	17	17	17	5	-7	-2	21	21	23	5	-4	8	7	8	9
4	2	0	50	50	94	4	5	4	20	20	22	4	10	-11	13	13	13	5	-7	-1	7	7	7	5	-4	9	6	5	9
4	2	1	6	6	4	4	5	6	15	14	13	4	10	-10	16	16	15	5	-7	0	29	29	22	5	-3	-9	13	13	10
4	2	2	11	11	8	4	5	7	5	1	7	4	10	-8	5	7	8	5	-7	1	11	11	9	5	-3	-8	9	8	7
4	2	3	19	18	18	4	6	-12	11	11	10	4	10	-7	9	10	10	5	-7	4	9	9	8	5	-3	-7	10	10	8
4	2	4	29	29	41	4	6	-10	11	11	10	4	10	-5	15	15	14	5	-7	5	17	18	18	5	-3	-6	19	19	20
4	2	5	24	25	35	4	6	-9	12	13	10	4	10	-2	12	12	12	5	-7	6	10	9	10	5	-3	-5	7	7	6
4	2	6	4	3	6	4	6	-8	7	8	7	4	10	-1	10	10	11	5	-7	8	11	11	12	5	-3	-4	38	37	60

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	-3	-3	40	40	65	5	0	0	6	5	5	5	3	5	16	15	14	5	7	-2	15	15	14	6	-9	-3	10	11	10
5	-3	-2	14	14	10	5	0	1	80	80	99	5	3	6	19	20	20	5	7	-1	5	4	6	6	-9	-1	13	13	12
5	-3	-1	41	40	67	5	0	2	31	30	44	5	4	-10	22	23	26	5	7	0	26	26	40	6	-9	0	13	12	13
5	-3	0	37	36	56	5	0	4	29	29	42	5	4	-9	13	14	11	5	7	1	9	9	9	6	-9	2	20	20	24
5	-3	1	20	20	24	5	0	5	17	17	16	5	4	-8	43	44	76	5	7	2	14	13	13	6	-9	4	8	6	10
5	-3	2	8	8	6	5	0	7	6	6	8	5	4	-7	29	28	40	5	7	3	10	9	10	6	-9	5	17	16	18
5	-3	3	4	3	5	5	0	8	14	13	13	5	4	-6	5	0	6	5	7	4	9	10	11	6	-9	6	7	7	10
5	-3	5	44	44	83	5	0	9	8	8	10	5	4	-5	49	49	94	5	7	5	16	16	16	6	-9	7	6	6	11
5	-3	6	9	9	9	5	1	-12	20	19	23	5	4	-4	24	23	30	5	8	-12	6	4	7	6	-8	-4	6	6	7
5	-3	7	8	8	9	5	1	-11	8	7	8	5	4	-3	9	10	7	5	8	-11	7	7	8	6	-8	-3	15	15	13
5	-3	8	10	9	10	5	1	-10	14	13	11	5	4	-2	10	11	7	5	8	-9	22	22	26	6	-8	-2	11	11	10
5	-3	9	21	21	25	5	1	-9	26	24	38	5	4	-1	30	31	42	5	8	-8	19	19	22	6	-8	-1	13	12	12
5	-2	-10	5	3	5	5	1	-8	16	15	14	5	4	0	38	39	62	5	8	-7	8	7	8	6	-8	0	27	28	45
5	-2	-9	14	14	11	5	1	-7	14	13	11	5	4	1	20	20	21	5	8	-6	28	29	44	6	-8	1	12	12	12
5	-2	-8	8	7	6	5	1	-5	13	13	10	5	4	2	7	7	7	5	8	-5	27	27	34	6	-8	2	32	31	56
5	-2	-7	9	9	7	5	1	-4	48	47	89	5	4	3	25	26	38	5	8	-2	7	7	8	6	-8	3	10	10	11
5	-2	-6	22	20	28	5	1	-2	7	5	5	5	4	4	19	19	20	5	8	-1	5	6	8	6	-8	5	10	11	12
5	-2	-5	5	5	6	5	1	-1	71	68	99	5	4	5	16	16	15	5	8	0	19	19	19	6	-8	6	12	11	12
5	-2	-4	56	56	99	5	1	0	98	96	99	5	4	7	10	10	10	5	8	1	15	15	15	6	-7	-4	19	19	21
5	-2	-3	39	41	61	5	1	1	76	77	99	5	5	-11	11	10	10	5	8	3	8	8	10	6	-7	-3	30	31	49
5	-2	-2	6	6	5	5	1	2	21	20	21	5	5	-10	23	23	27	5	8	4	15	15	15	6	-7	-2	6	6	7
5	-2	-1	18	18	15	5	1	3	5	4	5	5	5	-8	20	21	22	5	9	-9	30	32	50	6	-7	-1	11	11	10
5	-2	0	10	10	7	5	1	4	11	11	9	5	5	-7	5	6	6	5	9	-8	14	13	13	6	-7	0	14	13	12
5	-2	1	6	6	5	5	1	6	7	7	8	5	5	-6	13	13	10	5	9	-6	12	12	11	6	-7	1	17	16	17
5	-2	2	6	6	6	5	1	7	9	9	9	5	5	-4	16	16	16	5	9	-5	22	22	27	6	-7	2	14	14	13
5	-2	3	15	15	13	5	2	-12	17	16	16	5	5	-3	7	8	6	5	9	-4	6	7	9	6	-7	3	15	15	14
5	-2	5	11	11	10	5	2	-9	20	18	21	5	5	-2	6	5	5	5	9	-1	21	20	26	6	-7	4	22	22	28
5	-2	6	20	19	22	5	2	-8	11	12	9	5	5	0	51	50	99	5	9	0	19	19	21	6	-7	5	18	17	19
5	-2	7	23	22	27	5	2	-7	11	11	8	5	5	1	30	30	47	5	9	1	6	7	9	6	-7	7	12	12	13
5	-2	9	10	10	11	5	2	-5	37	37	57	5	5	3	15	15	13	5	9	2	8	9	11	6	-7	8	8	7	11
5	-1	-11	6	6	6	5	2	-4	71	72	99	5	5	4	12	11	11	5	10	-9	16	15	15	6	-6	-8	8	8	8
5	-1	-9	22	21	25	5	2	-3	5	5	5	5	5	5	11	11	11	5	10	-8	5	6	8	6	-6	-7	8	8	8
5	-1	-8	15	13	13	5	2	-2	30	30	40	5	5	6	6	5	9	5	10	-7	6	6	9	6	-6	-6	6	7	7
5	-1	-7	36	33	57	5	2	-1	27	27	34	5	6	-10	9	9	9	5	10	-5	12	12	12	6	-6	-4	35	35	59
5	-1	-6	25	24	33	5	2	0	15	15	13	5	6	-9	11	12	9	5	10	-4	15	15	15	6	-6	-3	28	28	41
5	-1	-5	6	6	5	5	2	1	19	19	19	5	6	-8	10	10	8	5	10	-3	9	9	10	6	-6	-2	12	13	11
5	-1	-4	72	72	99	5	2	3	16	16	14	5	6	-7	8	8	7	5	10	-2	5	4	8	6	-6	0	12	11	10
5	-1	-3	26	26	32	5	2	4	29	28	43	5	6	-6	9	9	7	5	10	-1	27	28	39	6	-6	1	16	15	14
5	-1	-2	25	26	31	5	2	5	5	2	6	5	6	-5	29	30	43	5	10	0	20	20	23	6	-6	2	6	5	7
5	-1	-1	13	13	9	5	2	6	13	13	11	5	6	-4	4	3	5	5	11	-7	8	7	11	6	-6	4	9	9	9
5	-1	0	62	59	99	5	2	8	10	10	10	5	6	-3	19	19	20	5	11	-6	13	13	14	6	-6	5	26	26	35
5	-1	1	45	44	79	5	3	-11	5	4	6	5	6	-2	19	18	20	5	11	-4	25	24	35	6	-6	6	25	24	33
5	-1	2	17	16	16	5	3	-9	8	7	7	5	6	-1	27	27	40	5	11	-1	15	15	16	6	-6	7	17	17	17
5	-1	4	60	59	99	5	3	-8	16	15	14	5	6	0	50	50	99	5	12	-6	16	15	17	6	-6	8	6	6	10
5	-1	5	21	20	24	5	3	-7	18	18	19	5	6	1	17	17	16	5	12	-5	9	8	12	6	-5	-8	8	8	8
5	-1	6	26	25	41	5	3	-6	8	8	6	5	6	2	16	16	14	5	12	-4	16	15	18	6	-5	-7	17	17	16
5	0	-10	16	14	14	5	3	-5	80	80	99	5	6	3	6	5	7	6	-11	2	6	3	9	6	-5	-6	18	16	18
5	0	-9	35	33	58	5	3	-4	44	45	78	5	6	4	6	6	9	6	-11	3	6	4	10	6	-5	-4	35	34	57
5	0	-7	25	23	35	5	3	-3	13	13	10	5	6	5	9	9	11	6	-10	-3	17	18	17	6	-5	-3	15	15	13
5	0	-6	10	10	7	5	3	-1	24	22	30	5	7	-11	10	9	9	6	-10	-1	15	15	15	6	-5	-2	37	37	62
5	0	-5	4	5	5	5	3	0	11	11	7	5	7	-8	12	12	10	6	-10	0	6	6	9	6	-5	-1	21	21	23
5	0	-4	38	38	59	5	3	1	9	9	7	5	7	-7	4	3	6	6	-10	2	6	7	10	6	-5	0	7	6	7
5	0	-3	18	18	17	5	3	2	13	12	10	5	7	-5	43	42	79	6	-10	3	10	9	12	6	-5	1	37	37	63
5	0	-2	23	24	27	5	3	3	5	5	6	5	7	-4	11	11	10	6	-10	5	22	22	27	6	-5	2	25	27	37
5	0	-1	19	18	21	5	3	4	21	21	24	5	7	-3	10	10	9	6	-10	6	10	8	12	6	-5	3	11	12	10

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	-5	4	32	32	53	6	-1	4	29	28	46	6	3	-5	40	40	68	6	7	-9	14	13	12	7	-8	2	17	17	18
6	-5	5	8	7	9	6	-1	5	18	17	19	6	3	-4	5	4	6	6	7	-8	5	5	7	7	-7	-4	16	16	15
6	-5	6	21	21	24	6	-1	6	24	24	30	6	3	-3	28	28	40	6	7	-7	5	3	6	7	-7	-3	7	7	8
6	-4	-9	21	20	23	6	-1	7	10	10	11	6	3	-2	16	15	14	6	7	-6	21	21	25	7	-7	-2	23	24	30
6	-4	-8	4	1	6	6	0	-10	13	12	11	6	3	-1	5	3	5	6	7	-5	10	10	9	7	-7	-1	18	17	18
6	-4	-7	20	20	22	6	0	-9	12	12	11	6	3	0	44	43	79	6	7	-4	55	54	99	7	-7	1	25	25	32
6	-4	-4	21	20	22	6	0	-8	38	36	65	6	3	1	28	28	42	6	7	-3	16	16	15	7	-7	3	7	6	10
6	-4	-3	10	9	8	6	0	-7	26	25	40	6	3	3	14	14	12	6	7	-1	14	13	13	7	-7	6	10	10	12
6	-4	-2	10	9	8	6	0	-6	8	9	8	6	3	4	14	14	12	6	7	0	11	11	12	7	-6	-7	12	13	12
6	-4	-1	6	6	6	6	0	-5	10	10	8	6	3	5	33	33	60	6	7	1	9	9	10	7	-6	-5	13	13	11
6	-4	0	8	7	7	6	0	-4	22	22	28	6	3	6	6	8	11	6	7	3	6	5	9	7	-6	-4	27	28	43
6	-4	1	61	61	99	6	0	-3	13	13	9	6	4	-11	7	5	8	6	7	4	15	14	15	7	-6	-2	18	17	18
6	-4	2	21	20	23	6	0	-2	12	13	9	6	4	-10	7	7	7	6	8	-10	6	5	7	7	-6	-1	13	12	11
6	-4	4	19	18	20	6	0	0	42	41	73	6	4	-9	19	18	21	6	8	-9	28	29	46	7	-6	1	21	20	25
6	-4	5	9	8	9	6	0	1	45	43	83	6	4	-8	35	35	57	6	8	-8	7	8	9	7	-6	2	17	17	16
6	-4	7	7	4	9	6	0	3	8	8	7	6	4	-6	8	8	7	6	8	-7	7	6	8	7	-6	3	15	14	14
6	-4	9	6	7	10	6	0	5	29	30	48	6	4	-5	30	30	44	6	8	-6	24	24	29	7	-6	4	13	13	14
6	-3	-10	11	10	8	6	0	6	9	9	10	6	4	-2	8	8	7	6	8	-5	11	11	11	7	-6	6	19	18	21
6	-3	-9	18	17	17	6	0	7	18	17	19	6	4	-1	20	20	22	6	8	-4	32	31	55	7	-6	7	12	11	13
6	-3	-6	4	3	6	6	1	-12	5	5	7	6	4	0	22	23	26	6	8	-2	12	12	12	7	-5	-8	15	16	14
6	-3	-5	9	8	7	6	1	-11	7	7	8	6	4	2	27	26	41	6	8	-1	16	16	15	7	-5	-7	22	23	26
6	-3	-4	39	38	66	6	1	-10	13	12	11	6	4	3	11	10	10	6	8	0	6	7	9	7	-5	-5	8	8	8
6	-3	-3	18	18	18	6	1	-9	5	4	7	6	4	4	10	10	11	6	9	-11	6	7	9	7	-5	-4	24	24	29
6	-3	-2	33	34	49	6	1	-8	47	44	92	6	4	5	24	25	33	6	9	-10	19	19	21	7	-5	-3	15	17	14
6	-3	-1	45	44	82	6	1	-6	17	16	17	6	5	-11	12	11	11	6	9	-9	28	28	46	7	-5	-1	5	5	7
6	-3	0	24	23	32	6	1	-5	16	15	15	6	5	-9	36	35	61	6	9	-5	9	8	10	7	-5	0	6	5	7
6	-3	1	59	59	99	6	1	-4	15	16	13	6	5	-8	28	27	41	6	9	-3	9	8	10	7	-5	1	27	27	43
6	-3	2	17	17	16	6	1	-3	16	16	14	6	5	-7	11	11	9	6	9	-2	13	13	13	7	-5	4	12	11	12
6	-3	3	14	13	11	6	1	-2	10	10	7	6	5	-6	8	8	7	6	9	-1	15	14	15	7	-5	5	20	19	23
6	-3	5	10	10	10	6	1	-1	19	18	19	6	5	-5	36	35	59	6	9	1	16	16	17	7	-5	6	24	23	33
6	-3	7	6	5	9	6	1	0	52	53	99	6	5	-4	5	5	6	6	10	-10	20	20	23	7	-5	7	8	10	12
6	-3	8	7	6	10	6	1	1	38	39	64	6	5	-2	5	5	6	6	10	-9	16	17	17	7	-5	8	11	9	12
6	-3	9	13	13	14	6	1	2	9	9	8	6	5	-1	34	35	56	6	10	-6	7	7	9	7	-4	-8	26	26	39
6	-2	-10	9	9	8	6	1	3	9	10	9	6	5	0	40	40	71	6	10	-4	10	8	11	7	-4	-7	15	15	14
6	-2	-8	9	8	8	6	1	4	22	22	27	6	5	1	20	20	24	6	10	-2	9	9	11	7	-4	-6	10	11	9
6	-2	-5	33	31	51	6	1	5	12	11	11	6	5	2	7	7	9	6	10	-1	16	15	17	7	-4	-5	5	5	5
6	-2	-4	57	56	99	6	1	6	10	9	10	6	5	3	6	5	9	6	10	0	6	6	11	7	-4	-4	11	10	9
6	-2	-3	11	10	8	6	1	7	12	12	13	6	5	4	10	11	11	6	11	-9	8	7	9	7	-4	-3	8	9	8
6	-2	-2	11	10	8	6	2	-10	5	4	6	6	5	5	9	8	11	6	11	-7	7	7	10	7	-4	-2	7	7	8
6	-2	-1	13	13	10	6	2	-9	11	11	9	6	6	-12	10	11	10	6	11	-6	6	7	11	7	-4	-1	14	14	12
6	-2	0	26	25	36	6	2	-8	15	14	14	6	6	-11	10	9	9	6	11	-5	17	16	18	7	-4	0	34	33	57
6	-2	1	28	28	40	6	2	-6	8	7	7	6	6	-9	21	22	25	6	11	-4	21	21	26	7	-4	1	28	29	46
6	-2	2	12	13	10	6	2	-5	34	34	53	6	6	-8	11	11	10	6	11	-2	8	7	11	7	-4	2	7	5	9
6	-2	3	15	14	12	6	2	-3	43	44	74	6	6	-7	23	23	27	7	-10	1	10	10	12	7	-4	3	22	22	27
6	-2	4	23	23	28	6	2	-2	17	18	17	6	6	-5	17	16	16	7	-10	2	8	8	12	7	-4	4	8	6	5
6	-2	5	7	6	8	6	2	-1	19	19	20	6	6	-4	36	36	60	7	-10	3	7	7	10	7	-4	5	10	10	11
6	-2	6	27	26	43	6	2	0	56	55	99	6	6	-3	35	35	58	7	-9	-2	6	6	9	7	-4	6	19	19	20
6	-1	-9	7	7	7	6	2	1	27	26	39	6	6	-2	13	12	11	7	-9	1	18	17	19	7	-4	7	17	17	15
6	-1	-8	17	16	16	6	2	2	33	34	53	6	6	-1	29	30	48	7	-9	2	21	20	25	7	-4	8	7	6	11
6	-1	-7	36	33	59	6	2	5	12	12	12	6	6	0	26	27	35	7	-9	4	19	19	20	7	-3	-10	5	7	7
6	-1	-5	31	31	47	6	2	6	15	14	15	6	6	1	11	11	11	7	-9	5	7	7	11	7	-3	-6	18	19	19
6	-1	-4	39	40	64	6	3	-11	16	16	17	6	6	3	13	13	13	7	-9	6	9	9	12	7	-3	-5	18	17	17
6	-1	-3	20	21	21	6	3	-9	16	16	15	6	6	5	8	7	11	7	-8	-5	5	5	8	7	-3	-4	12	12	10
6	-1	-2	4	4	5	6	3	-8	16	15	15	6	7	-11	6	6	8	7	-8	-4	9	9	10	7	-3	-3	5	5	7
6	-1	1	12	12	9	6	3	-6	19	19	20	6	7	-10	5	4	7	7	-8	1	34	34	61	7	-3	-2	5	4	5

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
7	-3	0	45	44	85	7	1	-8	30	27	48	7	5	-9	35	35	60	8	-8	0	15	14	16	8	-3	2	19	18	21
7	-3	1	30	30	48	7	1	-7	26	25	38	7	5	-7	11	12	10	8	-8	1	24	23	34	8	-3	5	16	16	18
7	-3	2	16	16	16	7	1	-6	22	23	26	7	5	-4	15	16	14	8	-8	2	9	9	12	8	-3	6	10	9	13
7	-3	4	10	10	11	7	1	-5	7	7	7	7	5	-3	7	7	8	8	-8	3	8	8	12	8	-3	7	6	3	10
7	-3	5	7	7	9	7	1	-4	15	15	13	7	5	-2	18	18	18	8	-8	4	7	5	11	8	-2	-9	8	7	10
7	-3	6	9	8	11	7	1	-3	38	36	64	7	5	-1	26	27	35	8	-7	-5	6	6	8	8	-2	-7	19	19	19
7	-3	7	8	8	12	7	1	-2	19	17	20	7	5	1	37	36	67	8	-7	-3	19	20	22	8	-2	-6	6	5	7
7	-3	8	10	10	13	7	1	-1	27	26	39	7	5	2	10	11	12	8	-7	-2	15	15	16	8	-2	-4	29	30	46
7	-2	-9	4	2	7	7	1	0	32	32	52	7	5	4	19	19	21	8	-7	0	15	14	15	8	-2	-3	46	47	93
7	-2	-8	18	17	18	7	1	1	25	25	31	7	5	5	6	6	10	8	-7	1	19	18	20	8	-2	-2	11	11	10
7	-2	-7	11	12	10	7	1	2	24	23	29	7	6	-12	16	16	15	8	-7	4	9	10	13	8	-2	-1	17	17	18
7	-2	-5	25	25	36	7	1	5	13	13	14	7	6	-10	13	12	12	8	-7	6	16	16	19	8	-2	0	16	16	15
7	-2	-3	57	57	99	7	1	6	13	13	15	7	6	-9	18	18	18	8	-6	-7	6	5	8	8	-2	1	14	14	13
7	-2	-2	28	28	42	7	1	7	6	6	10	7	6	-7	7	7	8	8	-6	-5	13	14	12	8	-2	3	10	10	11
7	-2	-1	6	5	7	7	2	-12	15	13	14	7	6	-6	6	6	7	8	-6	-4	7	6	9	8	-2	5	20	19	22
7	-2	0	15	15	14	7	2	-11	6	5	7	7	6	-4	26	26	34	8	-6	-3	33	34	60	8	-1	-10	7	6	8
7	-2	1	38	36	67	7	2	-10	5	5	7	7	6	-1	12	13	12	8	-6	-1	12	12	12	8	-1	-9	8	8	9
7	-2	2	6	6	8	7	2	-9	13	13	12	7	6	0	22	22	25	8	-6	1	10	9	12	8	-1	-8	16	14	14
7	-2	3	9	9	10	7	2	-8	12	11	10	7	6	1	22	21	25	8	-6	2	8	8	10	8	-1	-7	13	12	12
7	-2	4	18	17	18	7	2	-7	17	16	17	7	6	3	12	13	14	8	-6	3	7	7	11	8	-1	-6	23	23	29
7	-2	5	22	22	26	7	2	-6	16	16	14	7	6	4	9	9	12	8	-6	4	11	10	13	8	-1	-5	5	5	7
7	-2	6	17	16	18	7	2	-5	26	25	37	7	7	-10	5	4	8	8	-6	5	21	20	25	8	-1	-4	37	39	66
7	-2	7	7	7	11	7	2	-4	52	50	99	7	7	-9	9	9	9	8	-6	6	10	10	14	8	-1	-3	8	9	9
7	-2	8	10	9	12	7	2	-3	30	29	45	7	7	-7	8	7	8	8	-5	-8	17	18	17	8	-1	0	8	8	9
7	-1	-11	8	6	8	7	2	-2	16	15	14	7	7	-6	17	17	18	8	-5	-7	7	7	9	8	-1	3	8	9	11
7	-1	-9	6	6	8	7	2	-1	42	42	77	7	7	-5	28	28	46	8	-5	-6	10	9	9	8	-1	4	9	9	12
7	-1	-8	25	23	31	7	2	0	27	26	41	7	7	-4	29	29	48	8	-5	-5	11	11	11	8	-1	5	12	12	14
7	-1	-6	11	11	10	7	2	1	9	9	9	7	7	-2	16	16	15	8	-5	-3	24	25	31	8	-1	6	17	17	19
7	-1	-5	36	35	60	7	2	5	17	17	18	7	7	-1	19	19	19	8	-5	-2	18	18	19	8	0	-9	22	23	28
7	-1	-3	32	31	49	7	3	-9	20	19	20	7	7	0	14	13	14	8	-5	-1	29	29	48	8	0	-8	24	24	32
7	-1	-2	26	25	37	7	3	-8	21	22	25	7	7	2	14	15	15	8	-5	1	9	8	10	8	0	-7	29	28	48
7	-1	-1	32	30	49	7	3	-6	27	27	40	7	8	-9	10	10	11	8	-5	2	22	22	25	8	0	-6	14	14	13
7	-1	0	26	26	38	7	3	-4	71	69	99	7	8	-8	12	12	12	8	-5	3	14	14	15	8	0	-5	6	6	8
7	-1	1	24	23	29	7	3	-3	30	29	47	7	8	-7	5	5	8	8	-5	5	31	29	47	8	0	-4	42	43	79
7	-1	3	15	15	14	7	3	-2	13	12	11	7	8	-5	34	34	62	8	-4	-8	29	29	49	8	0	-3	26	26	40
7	-1	4	7	7	9	7	3	0	20	20	22	7	8	-4	28	27	48	8	-4	-5	7	7	9	8	0	-2	21	22	25
7	-1	5	34	33	62	7	3	3	19	19	20	7	8	-3	19	19	19	8	-4	-4	8	7	9	8	0	0	15	14	13
7	-1	6	10	10	12	7	3	4	13	13	13	7	8	-2	11	11	13	8	-4	-3	6	6	8	8	0	1	27	28	36
7	0	-9	24	24	31	7	3	5	19	19	20	7	8	1	9	9	12	8	-4	-2	17	17	16	8	0	2	14	14	14
7	0	-8	35	34	59	7	4	-9	34	32	56	7	8	2	10	9	12	8	-4	-1	13	12	12	8	0	3	8	8	10
7	0	-7	8	8	8	7	4	-8	10	10	9	7	9	-10	15	15	15	8	-4	0	29	28	48	8	0	4	20	19	23
7	0	-6	9	9	9	7	4	-7	12	13	11	7	9	-8	16	17	16	8	-4	2	28	28	48	8	0	5	12	13	16
7	0	-5	17	18	17	7	4	-6	34	34	55	7	9	-7	12	13	13	8	-4	3	15	14	16	8	1	-11	5	6	9
7	0	-4	7	7	7	7	4	-5	25	25	38	7	9	-5	20	19	23	8	-4	5	14	13	16	8	1	-10	8	7	9
7	0	-3	11	10	9	7	4	-4	31	31	48	7	9	-4	13	14	15	8	-4	6	8	7	12	8	1	-9	28	26	48
7	0	-1	24	23	33	7	4	-3	17	17	17	7	9	-3	9	9	11	8	-4	7	9	9	12	8	1	-8	10	11	11
7	0	0	55	54	99	7	4	-2	7	7	8	7	9	0	12	13	15	8	-3	-9	9	9	10	8	1	-7	10	10	10
7	0	1	17	17	17	7	4	-1	13	14	12	7	10	-6	9	10	12	8	-3	-8	16	16	15	8	1	-4	15	15	13
7	0	2	31	31	50	7	4	0	12	12	11	7	10	-5	11	10	13	8	-3	-6	18	18	18	8	1	-3	14	14	12
7	0	3	26	25	33	7	4	1	11	11	11	7	10	-4	8	8	12	8	-3	-5	6	6	8	8	1	-2	17	16	16
7	0	4	16	15	15	7	4	2	8	8	10	7	11	-5	14	14	17	8	-3	-4	17	18	16	8	1	-1	20	20	23
7	0	5	28	28	41	7	4	4	23	22	31	8	-9	1	13	14	15	8	-3	-3	33	35	56	8	1	0	11	11	11
7	0	7	11	12	13	7	4	5	9	9	12	8	-9	3	6	4	11	8	-3	-1	21	22	26	8	1	1	42	42	82
7	1	-11	14	13	13	7	5	-12	11	9	10	8	-8	-4	7	7	9	8	-3	0	39	38	73	8	1	2	18	18	18
7	1	-9	26	24	32	7	5	-10	13	12	12	8	-8	-2	7	7	10	8	-3	1	28	29	39	8	1	3	12	12	13
8	1	4	13	13	14	8	6	-5	13	13	12	9	-5	-3	18	18	19	9	0	-4	19	19	21	9	5	-10	8	6	9
8	1	6	6	6	11	8	6	-4	14	14	14	9	-5	-1	10	11	13	9	0	-3	13	13	13	9	5	-9	18	18	18
8	2	-9	22	20	27	8	6	-3	17	17	16	9	-5	0	8	8	11	9	0	-2	12	12	12	9	5	-8	17	17	17
8	2	-8	10	9	10	8	6	-2	22	22	28	9	-5	1	12	13	15	9	0	-1	10	11	11	9	5	-5	15	15	15
8	2	-5	15	15	14	8	6	0	29	29	44	9	-5	2	6	6	11	9	0	1	24	23	32	9	5	-2	7	7	11
8	2	-4	32	31	54	8	6	1	15	14	16	9	-5	3	12	12	14	9	0	3	10	10	13	9	5	0	21	21	27
8	2	-2	16	16	14	8	6	2	6	4	11	9	-5	4	10	10	14	9	0	4	7	8	13	9	5	1	8	8	12
8	2	-1	20	20	25	8	6	3	6	4	11	9	-5	5	9	9	14	9	0	5	8	9	14	9	5	2	12	12	15
8	2	0	22	21	28	8	7	-11	10	9	10	9	-4	-7	15	15	15	9	1	-10	9	9	11	9	6	-11	11	11	12
8	2	1	29	29	49	8	7	-8	10	10	11	9	-4	-6	12	13	13	9	1	-9	7	7	10	9	6	-9	27	26	36
8	2	2	23	23	30	8	7	-5	26	26	36	9	-4	-5	10	11	11	9	1	-8	28	28	39	9	6	-8	19	19	22
8	2	3	16	17	17	8	7	-3	14	15	15	9	-4	-4	12	12	13	9	1	-7	21	21	24	9	6	-7	12	12	13
8	2	4	11	11	13	8	7	0	21	21	24	9	-4	-3	8	9	11	9	1	-6	19	19	21	9	6	-6	12	12	13
8	2	5	6	5	10	8	7	1	13	13	15	9	-4	-2	12	11	12	9	1	-5	10	10	11	9	6	-5	11	12	13
8	3	-10	6	6	9	8	7	2	9	11	14	9	-4	-1	9	9	11	9	1	-4	17	18	17	9	6	-4	10	10	12
8	3	-9	9	8	9	8	8	-10	8	8	10	9	-4	1	26	25	37	9	1	-3	15	15	15	9	6	-3	8	7	10
8	3	-8	8	8	9	8	8	-9	8	8	10	9	-4	2	13	12	15	9	1	-1	14	14	14	9	6	-2	10	10	13
8	3	-5	25	25	31	8	8	-8	15	14	14	9	-4	4	12	12	14	9	1	0	30	30	54	9	6	-1	13	14	16
8	3	-4	47	48	96	8	8	-7	9	9	10	9	-4	6	8	7	12	9	1	1	26	25	37	9	6	0	22	21	28
8	3	-3	11	11	10	8	8	-6	12	13	13	9	-3	-9	16	16	16	9	1	5	10	12	15	9	6	1	12	12	15
8	3	-2	8	8	9	8	8	-5	27	26	37	9	-3	-7	9	9	11	9	2	-10	9	8	10	9	6	2	7	2	11
8	3	1	11	11	12	8	8	-4	7	8	11	9	-3	-4	13	14	15	9	2	-8	8	7	9	9	7	-8	10	11	13
8	3	2	13	13	13	8	8	0	14	13	16	9	-3	-3	18	19	18	9	2	-7	7	7	10	9	7	-7	12	13	13
8	3	4	12	12	14	8	8	1	9	9	13	9	-3	-2	6	7	10	9	2	-6	25	25	34	9	7	-6	6	5	10
8	4	-11	8	8	9	8	9	-9	21	21	25	9	-3	-1	9	11	11	9	2	-5	18	17	19	9	7	-5	7	6	11
8	4	-10	5	5	8	8	9	-8	17	17	17	9	-3	0	11	12	13	9	2	-4	23	24	31	9	7	-4	25	25	32
8	4	-9	5	5	8	8	9	-7	9	10	11	9	-3	1	29	28	51	9	2	-3	17	16	17	9	7	-3	17	17	19
8	4	-8	24	24	29	8	9	-5	13	13	16	9	-3	2	26	27	38	9	2	-2	16	17	16	9	7	-1	12	11	15
8	4	-7	18	17	18	8	9	-2	11	11	13	9	-3	3	8	8	11	9	2	0	28	28	39	9	8	-9	11	11	13
8	4	-5	21	20	26	8	10	-8	9	9	12	9	-3	5	13	13	17	9	2	1	19	19	21	9	8	-8	7	6	10
8	4	-4	31	29	50	8	10	-6	5	1	10	9	-2	-9	11	10	12	9	2	2	9	9	12	9	8	-6	11	11	13
8	4	-3	11	12	11	8	10	-5	14	13	15	9	-2	-7	6	6	9	9	2	4	10	10	13	9	8	-4	28	27	42
8	4	-2	13	13	12	9	-8	-3	7	6	10	9	-2	-5	6	5	9	9	3	-11	8	8	10	9	8	-3	13	13	16
8	4	-1	15	16	15	9	-8	-2	9	8	12	9	-2	-4	28	30	40	9	3	-9	8	8	9	9	8	-2	11	13	16
8	4	0	6	5	9	9	-8	0	10	11	15	9	-2	-2	15	15	14	9	3	-8	19	18	20	9	9	-7	6	6	10
8	4	1	17	17	17	9	-8	2	20	19	23	9	-2	-1	14	14	14	9	3	-7	8	8	9	9	9	-5	6	6	12
8	4	3	10	10	12	9	-7	-3	22	22	27	9	-2	1	20	19	24	9	3	-5	32	32	56	9	9	-4	7	8	13
8	4	4	13	15	16	9	-7	-2	9	10	12	9	-2	2	16	16	17	9	3	-4	10	11	12	10	-7	-2	8	9	14
8	5	-10	18	17	19	9	-7	-1	12	12	15	9	-2	3	19	19	21	9	3	-3	22	23	30	10	-7	1	17	16	21
8	5	-9	13	13	13	9	-7	0	17	17	19	9	-2	6	8	9	14	9	3	-2	12	13	13	10	-6	-5	7	7	10
8	5	-8	24	24	30	9	-7	1	8	7	11	9	-1	-10	9	9	11	9	3	0	21	22	26	10	-6	-4	16	17	17
8	5	-7	13	14	13	9	-7	2	15	15	17	9	-1	-8	10	9	11	9	3	1	18	19	20	10	-6	-2	13	13	15
8	5	-6	10	10	10	9	-7	4	11	11	14	9	-1	-7	11	9	11	9	3	2	14	14	15	10	-6	-1	9	8	13
8	5	-5	15	15	14	9	-6	-4	11	12	13	9	-1	-5	22	21	25	9	4	-11	10	9	11	10	-6	2	9	9	14
8	5	-4	24	25	31	9	-6	-3	27	27	37	9	-1	-4	38	39	70	9	4	-8	29	29	41	10	-5	-4	22	22	27
8	5	-3	9	9	10	9	-6	-1	10	8	12	9	-1	-2	14	13	14	9	4	-7	12	12	11	10	-5	-1	10	10	13
8	5	-2	7	6	9	9	-6	0	8	8	11	9	-1	-1	7	7	10	9	4	-6	15	16	15	10	-5	0	12	12	15
8	5	-1	7	6	9	9	-6	1	8	8	12	9	-1	0	9	9	11	9	4	-5	25	25	33	10	-5	1	13	13	16
8	5	0	23	23	30	9	-6	2	11	10	14	9	-1	1	24	24	33	9	4	-4	6	6	9	10	-5	2	13	11	17
8	5	1	20	20	24	9	-6	3	6	6	11	9	-1	2	10	10	12	9	4	-3	17	17	17	10	-5	4	9	9	15
8	5	4	9	8	13	9	-6	4	11	11	15	9	-1	4	21	21	25	9	4	-2	6	5	10	10	-4	-7	15	17	18
8	6	-11	8	7	8	9	-6	5	9	10	15	9	0	-10	5	3	8	9	4	-1	11	11	13	10	-4	-4	7	5	12
8	6	-10	9	9	10	9	-5	-7	10	11	11	9	0	-8	21	21	27	9	4	0	19	19	20	10	-4	-1	8	7	13
8	6	-8	11	10	10	9	-5	-6	11	10	11	9	0	-7	12	13	13	9	4	1	17	17	19	10	-4	1	27	28	44
8	6	-6	16	17	15	9	-5	-4	26	27	38	9	0	-5	7	6	8	9	4	2	6	5	12	10	-4	3	9	8	13

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
10	-3	-8	13	15	15	10	2	-6	14	14	15	11	-4	-2	13	14	18	11	5	-3	8	10	16												
10	-3	-6	15	18	17	10	2	-4	13	13	15	11	-4	-1	20	20	23	11	5	-2	9	8	13												
10	-3	-4	7	7	11	10	2	-3	16	15	17	11	-4	2	14	13	18	11	5	-1	8	9	15												
10	-3	-2	10	11	12	10	2	-2	10	10	13	11	-3	-6	7	5	11	11	6	-8	12	12	14												
10	-3	-1	10	10	13	10	2	-1	19	17	21	11	-3	-3	9	10	13	11	6	-7	8	7	12												
10	-3	0	23	22	29	10	2	0	13	13	16	11	-3	-2	6	7	13	11	6	-6	14	15	18												
10	-3	1	21	21	25	10	2	1	11	10	14	11	-3	0	14	13	18	11	6	-4	11	11	16												
10	-3	3	6	5	12	10	3	-10	8	8	10	11	-3	2	8	8	14	11	7	-7	6	6	12												
10	-2	-7	9	11	12	10	3	-9	8	8	10	11	-2	-6	7	8	12	11	7	-6	8	9	13												
10	-2	-6	19	19	22	10	3	-8	16	16	17	11	-2	-4	15	16	18	11	7	-5	12	13	16												
10	-2	-4	11	11	14	10	3	-7	13	13	14	11	-2	-3	25	26	34	12	-3	-4	7	4	13												
10	-2	-3	23	22	29	10	3	-6	6	2	9	11	-2	-2	10	10	14	12	-3	-3	11	11	16												
10	-2	-2	12	13	15	10	3	-4	34	34	65	11	-2	-1	12	12	16	12	-2	-6	7	9	14												
10	-2	0	21	21	24	10	3	-3	28	28	41	11	-2	0	13	13	17	12	-2	-4	8	10	16												
10	-2	1	17	16	19	10	3	-2	9	9	13	11	-2	2	9	9	14	12	-2	-3	12	13	18												
10	-2	3	9	6	12	10	3	0	13	13	16	11	-1	-8	6	6	11	12	-1	-4	18	21	23												
10	-2	4	9	8	14	10	3	3	8	9	14	11	-1	-4	18	18	21	12	-1	-2	11	13	17												
10	-1	-8	11	10	12	10	4	-9	10	9	11	11	-1	-3	19	20	23	12	-1	0	8	10	17												
10	-1	-7	15	16	16	10	4	-8	8	8	11	11	-1	-2	9	8	13	12	0	-7	9	13	15												
10	-1	-6	8	7	11	10	4	-6	16	16	17	11	-1	0	6	6	13	12	0	-5	10	11	15												
10	-1	-5	18	19	19	10	4	-4	18	18	19	11	-1	3	9	9	14	12	0	-4	22	22	30												
10	-1	-4	8	8	12	10	4	-3	18	17	20	11	0	-8	12	12	14	12	0	-1	10	11	16												
10	-1	-3	26	27	37	10	4	-2	13	13	15	11	0	-7	10	10	13	12	1	-7	9	12	14												
10	-1	-2	11	11	13	10	4	0	8	7	13	11	0	-6	7	7	12	12	1	-6	7	7	12												
10	-1	-1	10	10	12	10	5	-10	9	10	12	11	0	-4	12	12	17	12	1	-4	7	8	14												
10	-1	0	7	6	11	10	5	-9	26	27	37	11	0	-3	15	15	17	12	1	-1	9	11	18												
10	-1	1	18	17	20	10	5	-8	10	10	12	11	0	-1	7	7	13	12	1	0	9	8	14												
10	-1	2	6	4	10	10	5	-7	12	12	13	11	0	0	8	9	14	12	2	-7	8	9	14												
10	-1	4	8	8	14	10	5	-4	14	13	15	11	1	-9	18	19	21	12	2	-6	16	17	20												
10	0	-8	27	29	39	10	5	-3	11	11	13	11	1	-8	7	5	11	12	2	-4	9	9	15												
10	0	-7	7	5	10	10	5	-2	11	11	14	11	1	-7	12	11	14	12	2	-3	10	10	15												
10	0	-6	9	10	12	10	5	-1	10	11	13	11	1	-5	12	12	15	12	2	-2	10	11	16												
10	0	-5	21	22	26	10	5	0	7	7	13	11	1	-4	7	10	14	12	3	-6	14	15	18												
10	0	-4	11	10	12	10	5	1	9	9	14	11	1	-3	15	16	18	12	3	-5	13	14	17												
10	0	-3	18	17	18	10	6	-9	16	17	18	11	1	-2	13	14	16	12	3	-2	12	11	15												
10	0	-2	7	8	11	10	6	-8	6	7	11	11	1	1	17	17	22	12	4	-7	12	13	16												
10	0	-1	22	23	28	10	6	-5	10	9	13	11	1	2	8	10	16	12	4	-6	6	4	12												
10	0	0	17	17	19	10	6	-4	15	16	17	11	2	-9	14	14	15	12	4	-5	12	14	18												
10	0	2	8	7	13	10	6	-3	7	7	12	11	2	-5	8	7	12	12	4	-4	7	4	13												
10	0	3	7	7	13	10	6	-1	11	11	15	11	2	-4	19	19	21	12	4	-3	12	11	17												
10	1	-9	13	13	14	10	7	-9	6	7	10	11	2	-3	9	9	13	12	5	-6	8	8	13												
10	1	-8	26	26	37	10	7	-7	8	8	11	11	2	-1	12	12	16																		
10	1	-6	6	3	9	10	7	-4	16	16	19	11	2	1	16	16	19																		
10	1	-5	12	11	13	10	7	-1	9	8	14	11	2	2	14	15	19																		
10	1	-3	10	8	11	10	8	-6	7	7	11	11	3	-4	24	23	30																		
10	1	-2	13	14	15	10	8	-5	16	16	19	11	3	1	10	11	18																		
10	1	0	22	22	28	10	8	-4	16	16	20	11	4	-9	8	8	11																		
10	1	1	10	9	14	10	8	-3	9	8	14	11	4	-7	8	7	12																		
10	1	2	17	17	21	11	-6	-2	11	12	16	11	4	-5	14	14	16																		
10	1	3	12	13	16	11	-6	0	8	7	14	11	4	-4	23	23	31																		
10	1	4	6	5	13	11	-5	-3	19	20	23	11	5	-9	10	10	13																		
10	2	-10	6	7	10	11	-5	-1	7	9	14	11	5	-8	11	12	15																		
10	2	-9	13	13	14	11	-4	-6	9	10	12	11	5	-7	9	8	12																		
10	2	-8	12	12	13	11	-4	-5	10	12	15	11	5	-5	8	8	13																		
10	2	-7	10	10	12	11	-4	-3	10	10	14	11	5	-4	19	20	22																		

APPENDIX 3.X

$[Ni(S_2CNCy_2)_2]$

Table 3.X.1: Crystallographic Parameters for [Ni($S_2CN(CH(CH_2)_5)_2)_2$]

Formula	$C_{26}H_{44}N_2NiS_4$
Formula weight	571.59
Crystal morphology / colour	block / brown
Crystal dimensions (mm)	0.13 x 0.13 x 0.19
Crystal system	triclinic
Space group	$P\bar{1}$ (#2)
a (Å)	11.551(5)
b (Å)	14.651(7)
c (Å)	9.872(5)
α (°)	102.46(5)
β (°)	114.78(3)
γ (°)	89.65(4)
V (Å^3)	1474(1)
Z	2
$\rho_{calc.}$ (g cm^{-3})	1.287
F(000)	612
Temperature (°K)	200
μ (cm^{-1})	9.58
θ limits, cell (°)	20.6 – 22.4
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 15, -18 – 18, -12 – 12
Range of transmission factors	0.946 – 1
Scan technique	ω:2θ
No. of data measured	7115
No. of unique data	6780
R_{amal}	0.083
No. of parameters	301
R (I≥0σ(I))	0.113
R_w (I≥0σ(I))	0.133
R (I≥3σ(I))	0.055
R_w (I≥3σ(I))	0.058
Maximum and minimum residual electron density (e Å^{-3})	1.21, -1.91

Table 3.X.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2CN(CH(CH_2)5)2)2]$

Atom	*x*	*y*	*z*
Ni(1)	0	0.5	0.5
Ni(2)	-0.5	0	-0.5
S(1)	0.1535(1)	0.61360(8)	0.6277(1)
S(2)	0.0939(1)	0.49001(8)	0.3445(1)
S(3)	-0.3152(1)	-0.02838(9)	-0.3336(1)
S(4)	-0.4491(1)	-0.11355(8)	-0.6448(1)
N(1)	0.2761(3)	0.6363(2)	0.4513(3)
N(2)	-0.2100(3)	-0.1559(2)	-0.4849(5)
C(1)	0.1904(4)	0.5884(3)	0.4712(5)
C(2)	0.2951(4)	0.6058(3)	0.3085(4)
C(3)	0.2560(4)	0.6763(3)	0.2098(5)
C(4)	0.2687(4)	0.6385(3)	0.0600(5)
C(5)	0.4028(4)	0.6115(3)	0.0900(5)
C(6)	0.4419(4)	0.5423(3)	0.1915(5)
C(7)	0.4290(4)	0.5802(3)	0.3415(5)
C(8)	0.3558(4)	0.7220(3)	0.5631(5)
C(9)	0.4489(5)	0.6999(3)	0.7135(5)
C(10)	0.5327(6)	0.7898(5)	0.8246(7)
C(11)	0.4529(7)	0.8669(5)	0.8484(9)
C(12)	0.3642(6)	0.8873(3)	0.6988(8)
C(13)	0.2772(4)	0.8018(3)	0.5868(5)
C(14)	-0.3074(4)	-0.1076(3)	-0.4845(5)
C(15)	-0.2107(5)	-0.2106(3)	-0.6333(6)
C(16)	-0.1161(6)	-0.1699(4)	-0.6694(6)

Table 3.X.2: Cont.

Atom	*x*	*y*	*z*
C(17)	-0.1178(5)	-0.2216(4)	-0.8177(6)
C(18)	-0.1253(7)	-0.3266(5)	-0.8435(7)
C(19)	-0.2250(5)	-0.3626(4)	-0.8078(7)
C(20)	-0.2216(5)	-0.3151(3)	-0.6519(6)
C(21)	-0.0984(5)	-0.1622(4)	-0.3488(6)
C(22)	-0.1260(6)	-0.2140(4)	-0.2483(6)
C(23)	-0.0075(6)	-0.2293(4)	-0.1243(7)
C(24)	0.0752(5)	-0.1455(4)	-0.0307(6)
C(25)	0.1130(6)	-0.0863(5)	-0.1252(7)
C(26)	-0.0113(6)	-0.0739(3)	-0.2645(6)

Table 3.X.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2CN(CH(CH_2)_5)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni(1)	0.0613(6)	0.0402(4)	0.0492(5)	-0.0066(4)	0.0324(5)	0.0100(4)
Ni(2)	0.0369(5)	0.0414(4)	0.0527(5)	0.0143(4)	0.0151(4)	0.0118(4)
S(1)	0.0708(9)	0.0524(7)	0.0461(7)	-0.0133(6)	0.0351(7)	0.0047(5)
S(2)	0.0670(8)	0.0458(6)	0.0498(7)	-0.0128(6)	0.0335(7)	0.0028(5)
S(3)	0.0444(7)	0.0781(9)	0.0533(8)	0.0238(6)	0.0160(6)	0.0168(6)
S(4)	0.0430(7)	0.0478(6)	0.0648(8)	0.0121(5)	0.0185(6)	0.0050(6)
N(1)	0.045(2)	0.036(2)	0.035(2)	-0.003(2)	0.018(2)	0.009(1)
N(2)	0.039(2)	0.054(2)	0.074(3)	0.017(2)	0.026(2)	0.034(2)
C(1)	0.050(3)	0.037(2)	0.045(3)	0.001(2)	0.022(2)	0.012(2)
C(2)	0.047(3)	0.040(2)	0.036(2)	-0.003(2)	0.020(2)	0.008(2)
C(3)	0.040(3)	0.072(3)	0.041(3)	0.019(2)	0.019(2)	0.025(2)
C(4)	0.054(3)	0.086(3)	0.043(3)	0.020(3)	0.022(3)	0.029(3)
C(5)	0.051(3)	0.057(3)	0.046(3)	0.011(2)	0.027(2)	0.014(2)
C(6)	0.054(3)	0.052(3)	0.054(3)	0.013(2)	0.025(3)	0.013(2)
C(7)	0.059(3)	0.056(3)	0.051(3)	0.025(2)	0.026(3)	0.026(2)
C(8)	0.040(2)	0.038(2)	0.042(3)	-0.001(2)	0.017(2)	0.009(2)
C(9)	0.049(3)	0.075(3)	0.048(3)	0.008(2)	0.013(3)	0.021(3)
C(10)	0.057(4)	0.129(6)	0.069(4)	-0.014(4)	0.000(3)	0.008(4)
C(11)	0.099(6)	0.101(5)	0.105(6)	-0.028(4)	0.036(5)	-0.043(4)
C(12)	0.100(5)	0.043(3)	0.138(6)	-0.010(3)	0.082(5)	-0.004(3)
C(13)	0.054(3)	0.042(2)	0.064(3)	0.001(2)	0.033(3)	0.012(2)
C(14)	0.035(2)	0.044(2)	0.071(3)	0.013(2)	0.024(2)	0.025(2)
C(15)	0.065(3)	0.064(3)	0.097(4)	0.022(3)	0.055(3)	0.013(3)
C(16)	0.101(5)	0.072(4)	0.055(3)	-0.016(3)	0.031(3)	0.016(3)

Table 3.X.3: Cont.

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(17)	0.063(4)	0.085(4)	0.071(4)	0.011(3)	0.024(3)	0.013(3)
C(18)	0.118(6)	0.115(5)	0.082(5)	0.015(4)	0.055(4)	0.004(4)
C(19)	0.056(4)	0.086(4)	0.106(5)	0.004(3)	0.039(4)	-0.025(3)
C(20)	0.059(3)	0.058(3)	0.068(4)	-0.012(3)	-0.003(3)	0.027(3)
C(21)	0.050(3)	0.086(4)	0.083(4)	0.016(3)	0.030(3)	0.045(3)
C(22)	0.108(5)	0.069(3)	0.057(3)	0.028(3)	0.036(4)	0.024(3)
C(23)	0.086(5)	0.095(4)	0.068(4)	0.033(4)	0.035(4)	0.011(4)
C(24)	0.080(4)	0.091(4)	0.040(3)	0.028(3)	0.010(3)	0.007(3)
C(25)	0.073(4)	0.126(5)	0.069(4)	0.029(4)	0.032(4)	-0.002(4)
C(26)	0.107(5)	0.054(3)	0.041(3)	0.027(3)	0.002(3)	0.002(2)

Table 3.X.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Ni(S_2CN(CH(CH_2)_5)_2)_2]$*

Atom	*x*	*y*	*z*	*B*eq
H(2a)	0.2384	0.5489	0.2492	3.8106
H(3a)	0.1677	0.6881	0.1863	4.6302
H(3b)	0.3108	0.7345	0.2650	4.6302
H(4a)	0.2081	0.5835	0.0010	5.5468
H(4b)	0.2495	0.6866	0.0018	5.5468
H(5a)	0.4626	0.6676	0.1402	4.6384
H(5b)	0.4051	0.5832	-0.0071	4.6384
H(6a)	0.5303	0.5308	0.2156	5.0220
H(6b)	0.3874	0.4840	0.1370	5.0220
H(7a)	0.4889	0.6355	0.4006	4.9340
H(7b)	0.4483	0.5323	0.4001	4.9340
H(8a)	0.4080	0.7434	0.5184	3.8076
H(9a)	0.5034	0.6536	0.6928	5.6155
H(9b)	0.4009	0.6750	0.7602	5.6155
H(10a)	0.5855	0.7759	0.9227	9.2105
H(10b)	0.5873	0.8106	0.7823	9.2105
H(11a)	0.4028	0.8480	0.8975	10.9484
H(11b)	0.5087	0.9232	0.9139	10.9484
H(12a)	0.4150	0.9096	0.6532	8.2462
H(12b)	0.3118	0.9357	0.7182	8.2462
H(13a)	0.2203	0.7825	0.6272	4.7846
H(13b)	0.2270	0.8174	0.4893	4.7846
H(15a)	-0.2917	-0.1993	-0.7109	6.5836
H(16a)	-0.1330	-0.1056	-0.6750	7.2539

Table 3.X.4: Cont.

Atom	*x*	*y*	*z*	*B*eq
H(16b)	-0.0318	-0.1705	-0.5880	7.2539
H(17a)	-0.0401	-0.2007	-0.8218	7.1726
H(17b)	-0.1916	-0.2057	-0.9001	7.1726
H(18a)	-0.0432	-0.3445	-0.7782	9.8675
H(18b)	-0.1447	-0.3539	-0.9502	9.8675
H(19a)	-0.2165	-0.4289	-0.8109	8.4337
H(19b)	-0.3076	-0.3551	-0.8867	8.4337
H(20a)	-0.2997	-0.3347	-0.6473	6.6410
H(20b)	-0.1484	-0.3325	-0.5706	6.6410
H(21a)	-0.0479	-0.2034	-0.3882	6.4747
H(22a)	-0.1776	-0.1775	-0.2045	7.2473
H(22b)	-0.1728	-0.2743	-0.3099	7.2473
H(23a)	-0.0299	-0.2592	-0.0587	7.9396
H(23b)	0.0392	-0.2709	-0.1694	7.9396
H(24a)	0.1530	-0.1631	0.0438	7.3692
H(24b)	0.0318	-0.1063	0.0224	7.3692
H(25a)	0.1713	-0.1191	-0.1619	8.8147
H(25b)	0.1541	-0.0252	-0.0602	8.8147
H(26a)	0.0132	-0.0519	-0.3355	7.5026
H(26b)	-0.0576	-0.0273	-0.2270	7.5026

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 3.X.5: Bond distances (Å) for [Ni($S_2CN(CH(CH_2)_5)_2)_2$]

Ni(1) — S(1)	2.182(1)	C(6) — C(7)	1.534(6)
Ni(1) — S(2)	2.203(1)	C(8) — C(9)	1.527(6)
Ni(2) — S(3)	2.185(1)	C(8) — C(13)	1.515(6)
Ni(2) — S(4)	2.196(1)	C(9) — C(10)	1.542(7)
S(1) — C(1)	1.735(4)	C(10) — C(11)	1.495(9)
S(2) — C(1)	1.720(4)	C(11) — C(12)	1.496(9)
S(3) — C(14)	1.714(4)	C(12) — C(13)	1.512(7)
S(4) — C(14)	1.721(4)	C(15) — C(16)	1.450(6)
N(1) — C(1)	1.320(4)	C(15) — C(20)	1.503(6)
N(1) — C(2)	1.490(4)	C(16) — C(17)	1.489(7)
N(1) — C(8)	1.485(5)	C(17) — C(18)	1.500(8)
N(2) — C(14)	1.327(5)	C(18) — C(19)	1.469(8)
N(2) — C(15)	1.508(6)	C(19) — C(20)	1.530(7)
N(2) — C(21)	1.440(6)	C(21) — C(22)	1.503(7)
C(2) — C(3)	1.511(5)	C(21) — C(26)	1.492(7)
C(2) — C(7)	1.505(6)	C(22) — C(23)	1.460(7)
C(3) — C(4)	1.530(6)	C(23) — C(24)	1.435(7)
C(4) — C(5)	1.517(6)	C(24) — C(25)	1.584(8)
C(5) — C(6)	1.513(6)	C(25) — C(26)	1.560(7)

Table 3.X.6: Bond angles (deg.) for $[Ni(S_2CN(CH(CH_2)5)2)2]$

S(1) — Ni(1) — S(1)*	180(-)	C(18) — C(19) — C(20)	116.0(5)
S(1) — Ni(1) — S(2)	79.07(4)	C(15) — C(20) — C(19)	108.6(4)
S(1) — Ni(1) — S(2)*	100.93(4)	C(22) — C(23) — C(24)	114.6(5)
S(2) — Ni(1) — S(2)*	180(-)	C(23) — C(24) — C(25)	113.5(4)
S(3) — Ni(1) — S(3)*	180(-)	C(24) — C(25) — C(26)	108.6(5)
S(3) — Ni(2) — S(4)	79.05(5)	C(21) — C(26) — C(25)	113.6(5)
S(3) — Ni(2) — S(4)*	100.95(5)	N(1) — C(2) — C(7)	112.1(3)
S(4) — Ni(1) — S(4)*	180(-)	C(3) — C(2) — C(7)	112.0(3)
Ni(1) — S(1) — C(1)	86.5(1)	C(2) — C(3) — C(4)	110.2(4)
Ni(1) — S(2) — C(1)	86.2(1)	C(3) — C(4) — C(5)	111.6(4)
Ni(2) — S(3) — C(14)	86.4(1)	C(4) — C(5) — C(6)	111.2(3)
Ni(2) — S(4) — C(14)	85.8(1)	C(5) — C(6) — C(7)	111.3(3)
C(1) — N(1) — C(2)	119.8(3)	C(2) — C(7) — C(6)	110.5(4)
C(1) — N(1) — C(8)	123.8(3)	N(1) — C(8) — C(9)	111.6(3)
C(2) — N(1) — C(8)	116.4(3)	N(1) — C(8) — C(13)	113.0(3)
C(14) — N(2) — C(15)	120.8(4)	C(9) — C(8) — C(13)	112.8(4)
C(14) — N(2) — C(21)	124.4(4)	C(8) — C(9) — C(10)	110.1(4)
C(15) — N(2) — C(21)	114.9(4)	C(9) — C(10) — C(11)	111.5(5)
S(1) — C(1) — S(2)	107.8(2)	C(10) — C(11) — C(12)	111.0(5)
S(1) — C(1) — N(1)	126.5(3)	C(11) — C(12) — C(13)	112.6(5)
S(2) — C(1) — N(1)	125.7(3)	C(8) — C(13) — C(12)	110.2(4)
N(1) — C(2) — C(3)	112.5(3)	S(3) — C(14) — S(4)	108.5(2)
N(2) — C(21) — C(22)	113.7(4)	S(3) — C(14) — N(2)	127.8(4)
N(2) — C(21) — C(26)	115.7(4)	S(4) — C(14) — N(2)	123.7(4)
C(22) — C(21) — C(26)	114.6(5)	N(2) — C(15) — C(16)	112.3(4)
C(21) — C(22) — C(23)	111.0(5)	N(2) — C(15) — C(20)	113.5(4)

Table 3.X.6: Cont.

C(16) — C(17) — C(18)	115.4(5)	C(16) — C(15) — C(20)	118.1(4)
C(17) — C(18) — C(19)	111.6(5)	C(15) — C(16) — C(17)	112.9(5)

* atom related by a centre of symmetry

Table 3.X.7: Observed and calculated structure factors for [Ni($S_2CN(CH(CH_2)_5)_2)_2$]

h	k	l	Fo	Fc	sigF2
0	0	2	11	13	7
0	0	3	16	15	12
0	0	4	19	19	20
0	0	5	35	33	63
0	0	6	65	62	99
0	0	7	49	44	99
0	0	8	16	13	25
0	0	9	-4	1	47
0	0	10	-2	4	52
0	0	11	1	0	47
0	1	-11	-4	2	34
0	1	-10	-7	1	36
0	1	-9	6	6	16
0	1	-8	13	13	19
0	1	-7	7	4	13
0	1	-6	6	3	11
0	1	-5	1	6	18
0	1	-4	6	6	8
0	1	-3	9	11	7
0	1	-2	10	11	6
0	1	1	2	1	6
0	1	2	3	1	5
0	1	3	-4	5	17
0	1	4	9	9	10
0	1	5	23	22	26
0	1	6	9	11	17
0	1	7	19	18	27
0	1	8	8	8	21
0	1	9	-6	3	44
0	1	10	-7	0	51
0	1	11	-8	5	59
0	2	-11	6	5	16
0	2	-10	-3	7	35
0	2	-9	-1	6	39
0	2	-8	12	12	18
0	2	-7	13	16	17
0	2	-6	22	22	24
0	2	-5	14	15	14
0	2	-4	6	7	8
0	2	-3	14	15	11
0	2	-2	104	103	99
0	2	-1	7	6	4
0	2	1	142	145	99
0	2	2	31	30	36
0	2	3	7	7	8
0	2	4	30	31	48
0	2	5	67	64	99
0	2	6	60	58	99
0	2	7	45	43	82
0	2	8	-5	12	53
0	2	9	-7	3	51
0	2	10	5	3	31
0	3	-11	-3	2	36
0	3	-10	4	0	30
0	3	-9	6	6	16
0	3	-8	-2	5	26
0	3	-7	4	1	24
0	3	-6	6	5	11
0	3	-5	20	20	20
0	3	-4	16	17	12
0	3	-3	14	14	10
0	3	-2	14	14	11
0	3	-1	12	11	7
0	3	0	25	25	24
0	3	1	18	20	14
0	3	2	3	3	13
0	3	3	6	5	8
0	3	4	6	3	9
0	3	5	13	12	16
0	3	6	21	20	27
0	3	7	14	11	23
0	3	8	13	8	22
0	3	9	-3	5	48
0	3	10	8	3	24
0	4	-11	-9	9	44
0	4	-10	-2	7	23
0	4	-9	1	6	28
0	4	-8	-3	4	28
0	4	-7	0	1	23
0	4	-6	3	6	22
0	4	-5	24	23	27
0	4	-4	55	56	93
0	4	-3	66	62	99
0	4	-2	7	7	6
0	4	-1	20	19	17
0	4	0	26	25	27
0	4	1	42	41	57
0	4	2	20	22	19
0	4	3	21	21	22
0	4	4	16	17	15
0	4	5	30	27	41
0	4	6	35	32	59
0	4	7	14	12	24
0	4	8	4	4	20
0	4	9	7	3	49
0	4	10	-9	4	51
0	5	-11	-8	7	40
0	5	-10	8	7	17
0	5	-9	4	4	14
0	5	-8	10	10	16
0	5	-7	-9	4	29
0	5	-6	14	14	16
0	5	-5	3	1	9
0	5	-4	7	8	9
0	5	-3	5	7	7
0	5	-2	4	6	6
0	5	-1	38	36	49
0	5	0	11	11	8
0	5	1	38	37	52
0	5	2	22	23	23
0	14	-7	3	1	28
0	14	-6	2	3	14
0	14	-5	13	14	19
0	14	-4	24	24	32
0	14	-3	20	20	27
0	14	-2	15	14	21
0	14	-1	10	7	15
0	14	0	6	6	15
0	14	1	9	8	15
0	14	2	16	15	21
0	14	3	16	15	21
0	14	4	11	10	19
0	14	5	5	4	14
0	15	-9	5	3	23
0	15	-8	3	3	32
0	15	-7	4	7	14
0	15	-6	5	7	22
0	15	-5	5	2	30
0	15	-4	6	7	39
0	15	-3	8	7	18
0	15	-2	5	3	31
0	15	-1	13	12	19
0	15	0	4	5	35
0	15	1	5	3	16
0	15	2	3	3	34
0	15	3	6	3	15
0	15	4	5	3	27
0	16	-8	-3	6	32
0	16	-7	1	8	31
0	16	-6	5	8	17
0	16	-5	-9	5	41
0	16	-4	-1	2	39
0	16	-3	-6	2	38
0	16	-2	-1	1	34
0	16	-1	9	8	18
0	16	0	10	9	19
0	16	1	9	10	18
0	16	2	9	10	17
0	16	3	7	6	16
0	17	-7	5	1	28
0	17	-6	-3	2	33
0	17	-5	8	7	22
0	17	-4	8	8	21
0	17	-3	-5	6	41
0	17	-2	-3	1	37
0	17	-1	1	4	30
0	17	0	3	3	31
0	17	1	-6	3	30
0	17	2	5	2	27
0	18	-6	4	7	34
0	18	-5	6	4	21
0	18	-4	6	2	19
0	18	-3	-3	5	40
0	18	-2	8	8	21
0	18	-1	13	12	21
0	18	0	-4	12	48
0	18	1	4	5	24
0	19	-3	-8	1	45
0	19	-2	4	0	18
1	-18	-1	5	1	29
1	-18	0	-8	4	35
1	-18	1	2	4	33
1	-18	2	3	3	28
1	-18	3	-3	3	35
1	-18	4	4	4	25
1	-18	5	1	3	40
1	-17	-2	5	6	32
1	-17	-1	10	9	16
1	-17	0	6	13	44
1	-17	1	13	14	21
1	-17	2	7	10	21
1	-17	3	-2	3	39
1	-17	4	5	4	37
1	-17	5	-4	5	51
1	-17	6	6	9	44
1	-17	7	4	10	43
1	-16	-4	-2	3	20
1	-16	-3	2	1	26
1	-16	-2	5	1	27
1	-16	-1	-1	1	31
1	-16	0	4	6	32
1	-16	1	-2	3	24
1	-16	2	-4	2	42
1	-16	3	4	3	34
1	-16	4	1	2	41
1	-16	5	-3	3	44
1	-16	6	-4	4	29
1	-16	7	5	3	17
1	-16	8	-5	2	35
1	-15	-5	4	5	17
1	-15	-4	7	9	16
1	-15	-3	11	12	18
1	-15	-2	8	10	16
1	-15	-1	5	7	30
1	-15	0	8	5	14
1	-15	1	9	9	19
1	-15	2	22	21	31
1	-15	3	18	18	30
1	-15	4	3	9	47
1	-15	5	10	11	23
1	-15	6	10	10	20
1	-15	7	3	8	40
1	-15	8	6	5	17
1	-14	-5	5	9	16
1	-14	-4	9	9	18
1	-14	-3	5	4	25
1	-14	-2	14	15	20
1	-14	-1	2	2	34
1	-14	0	11	12	19
1	-14	1	8	10	18
1	-14	2	8	9	21
1	-14	3	4	0	25
1	-14	4	7	6	21
1	-14	5	-4	3	40
1	-14	6	4	0	25
1	-14	7	4	3	40
1	-14	8	-10	2	47
1	-14	9	-4	3	37
1	-13	-6	6	8	16
1	-13	-5	17	16	22
1	-13	-4	19	19	26
1	-13	-3	17	16	22
1	-13	-2	-5	2	30
1	-13	-1	7	6	15
1	-13	0	-2	4	23
1	-13	1	10	8	18
1	-13	2	23	21	32
1	-13	3	33	33	53
1	-13	4	17	17	27
1	-13	5	6	1	18
1	-13	6	-8	2	41
1	-13	7	5	6	40
1	-13	8	6	9	44
1	-13	9	10	11	23
1	-12	-7	7	5	13
1	-12	-6	13	11	18
1	-12	-5	4	6	34
1	-12	-4	6	3	14
1	-12	-3	15	14	20
1	-12	-2	22	21	26
1	-12	-1	8	8	15
1	-12	0	22	21	26
1	-12	1	18	18	24
1	-12	2	-9	4	42
1	-12	3	2	5	40
1	-12	4	7	8	21
1	-12	5	-7	1	40
1	-12	6	5	6	36
1	-12	7	5	4	17
1	-12	8	1	2	38
1	-12	9	-3	1	41
1	-12	10	-2	3	41
1	-11	-7	5	5	15
1	-11	-6	12	12	18
1	-11	-5	17	18	22
1	-11	-4	15	16	21
1	-11	-3	12	11	17
1	-11	-2	-5	5	32
1	-11	-1	9	10	15
1	-11	0	31	29	45
1	-11	1	41	39	86
1	-11	2	49	44	99
1	-11	3	33	33	55
1	-11	4	10	12	21
1	-11	5	3	3	33
1	-11	6	5	1	23
1	-11	7	8	5	18
1	-11	8	16	17	25
1	-11	9	3	11	49
1	-11	10	6	6	41
1	-10	-8	-5	1	29
1	-10	-7	5	0	32
1	-10	-6	-4	1	29
1	-10	-5	-5	2	32
1	-10	-4	8	9	15
1	-10	-3	6	4	13
1	-10	-2	9	9	15
1	-10	-1	7	7	14
1	-10	0	17	16	20
1	-10	1	16	14	19
1	-10	2	16	14	20
1	-10	3	19	18	25
1	-10	4	18	18	24
1	-10	5	4	5	32
1	-10	6	4	5	33
1	-10	7	6	7	18
1	-10	8	4	0	23
1	-10	9	-5	3	43
1	-10	10	3	4	39
1	-9	-9	5	7	31
1	-9	-8	-5	7	38
1	-9	-7	9	9	18
1	-9	-6	15	15	21
1	-9	-5	13	13	17
1	-9	-4	15	15	18
1	-9	-3	4	2	16
1	-9	-2	14	14	16
1	-9	-1	26	26	35
1	-9	0	42	42	79
1	-9	1	53	52	99
1	-9	2	34	32	51
1	-9	3	16	14	21
1	-9	4	2	3	26
1	-9	5	-3	3	29
1	-9	6	21	22	27
1	-9	7	32	31	54
1	-9	8	15	16	25
1	-9	9	9	11	24
1	-9	10	7	1	20
1	-8	-9	-8	2	37
1	-8	-8	5	8	27
1	-8	-7	5	4	30
1	-8	-6	8	8	16
1	-8	-5	-5	2	29
1	-8	-4	9	10	14
1	-8	-3	11	10	14
1	-8	-2	15	14	17
1	-8	-1	15	15	17
1	-8	0	16	16	16
1	-8	1	10	9	13
1	-8	2	11	11	15
1	-8	3	1	1	24
1	-8	4	11	12	15
1	-8	5	2	0	27
1	-8	6	19	20	23
1	-8	7	-2	8	40
1	-8	8	-4	1	41
1	-8	9	4	4	41
1	-8	10	-8	3	48
1	-8	11	5	2	25
1	-7	-9	8	7	18
1	-7	-8	10	11	20
1	-7	-7	4	3	31
1	-7	-6	7	3	14
1	-7	-5	5	7	27
1	-7	-4	19	20	21
1	-7	-3	50	49	95
1	-7	-2	31	32	51
1	-7	-1	48	48	86
1	-7	0	30	28	48
1	-7	1	2	3	14
1	-7	2	7	4	11
1	-7	3	36	35	64
1	-7	4	46	47	87
1	-7	5	39	38	72
1	-7	6	13	13	19
1	-7	7	15	16	22
1	-7	8	11	10	20
1	-7	9	6	7	44
1	-7	10	-4	5	54
1	-7	11	-6	1	50
1	-6	-10	6	1	34
1	-6	-9	5	10	43
1	-6	-8	18	18	26
1	-6	-7	-4	5	33
1	-6	-6	34	33	55
1	-6	-5	22	22	24
1	-6	-4	5	6	12
1	-6	-3	21	21	23
1	-6	-2	48	48	83
1	-6	-1	27	28	41
1	-6	0	15	16	14
1	-6	1	14	15	13
1	-6	2	8	10	11
1	-6	3	18	17	17
1	-6	4	4	4	14
1	-6	5	29	29	49
1	-6	6	-1	5	15
1	-6	7	20	18	26
1	-6	8	-2	4	36
1	-6	9	2	8	46
1	-6	10	3	5	24
1	-6	11	-6	1	54
1	-5	-10	7	4	17
1	-5	-9	4	3	35

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	-5	-8	10	8	19	1	-3	2	71	70	99	1	0	-11	2	4	33	1	2	4	13	12	14	1	5	-7	30	30	43
1	-5	-7	17	17	22	1	-3	3	10	8	9	1	0	-10	4	1	26	1	2	5	14	13	18	1	5	-6	55	54	99
1	-5	-6	29	30	44	1	-3	4	33	33	52	1	0	-9	-3	4	16	1	2	6	7	6	18	1	5	-5	43	44	72
1	-5	-5	39	39	76	1	-3	5	21	19	24	1	0	-8	-3	4	32	1	2	7	-6	4	43	1	5	-4	12	13	11
1	-5	-4	21	20	23	1	-3	6	10	8	15	1	0	-7	14	17	18	1	2	8	4	4	23	1	5	-3	11	10	11
1	-5	-3	58	60	99	1	-3	7	13	11	21	1	0	-6	13	14	14	1	2	9	-6	6	54	1	5	-2	13	11	9
1	-5	-2	54	56	93	1	-3	8	11	12	23	1	0	-5	26	26	30	1	2	10	-7	4	52	1	5	-1	34	35	43
1	-5	-1	22	22	23	1	-3	9	11	14	28	1	0	-4	16	16	13	1	3	-11	9	9	17	1	5	0	37	35	49
1	-5	0	9	9	9	1	-3	10	6	12	61	1	0	-3	16	15	14	1	3	-10	3	3	31	1	5	1	7	5	8
1	-5	1	31	32	44	1	-3	11	-3	3	53	1	0	-2	10	10	6	1	3	-9	4	7	29	1	5	2	49	51	80
1	-5	2	29	31	42	1	-2	-11	2	1	33	1	0	1	18	19	16	1	3	-8	13	11	18	1	5	3	29	28	34
1	-5	3	39	41	61	1	-2	-10	7	2	15	1	0	2	5	3	5	1	3	-7	30	28	41	1	5	4	26	26	34
1	-5	4	56	57	99	1	-2	-9	6	5	16	1	0	3	25	22	33	1	3	-6	23	24	29	1	5	5	18	19	22
1	-5	5	29	30	39	1	-2	-8	-4	6	33	1	0	4	14	14	12	1	3	-5	42	41	66	1	5	6	-3	3	30
1	-5	6	15	14	20	1	-2	-7	3	2	29	1	0	5	11	10	13	1	3	-4	36	34	48	1	5	7	8	7	17
1	-5	7	9	2	17	1	-2	-6	3	7	27	1	0	6	11	11	10	1	3	-3	35	33	43	1	5	8	6	3	20
1	-5	8	10	6	19	1	-2	-5	40	40	69	1	0	7	16	18	25	1	3	-2	91	88	99	1	5	9	3	3	34
1	-5	9	6	6	50	1	-2	-4	15	15	13	1	0	8	23	23	32	1	3	-1	148	139	99	1	6	-11	6	3	18
1	-5	10	6	10	58	1	-2	-3	52	54	82	1	0	9	-10	1	48	1	3	0	32	31	34	1	6	-10	4	7	38
1	-5	11	6	8	51	1	-2	-2	26	24	29	1	0	10	4	6	54	1	3	1	15	16	13	1	6	-9	-5	2	34
1	-4	-10	5	1	34	1	-2	-1	26	26	27	1	1	-11	5	6	35	1	3	2	19	19	19	1	6	-8	-8	3	32
1	-4	-9	11	11	20	1	-2	0	77	79	99	1	1	-10	1	2	34	1	3	3	2	2	16	1	6	-7	32	33	47
1	-4	-8	4	4	17	1	-2	1	133	137	99	1	1	-9	15	17	22	1	3	4	48	48	89	1	6	-6	11	11	15
1	-4	-7	5	9	16	1	-2	2	63	65	99	1	1	-8	29	28	43	1	3	5	38	39	74	1	6	-5	3	4	13
1	-4	-6	35	35	54	1	-2	3	5	4	7	1	1	-7	26	26	38	1	3	6	29	29	41	1	6	-4	27	24	40
1	-4	-5	49	49	96	1	-2	4	-4	4	20	1	1	-6	44	42	78	1	3	7	8	7	17	1	6	-3	42	41	63
1	-4	-4	3	1	10	1	-2	5	18	18	18	1	1	-5	16	16	14	1	3	8	5	1	23	1	6	-2	31	31	40
1	-4	-3	20	21	19	1	-2	6	-6	2	27	1	1	-4	17	17	14	1	3	9	-15	1	66	1	6	-1	39	37	54
1	-4	-2	43	46	63	1	-2	7	27	25	40	1	1	-3	27	27	31	1	3	10	8	3	24	1	6	0	34	31	46
1	-4	-1	36	40	48	1	-2	8	10	10	24	1	1	-2	51	50	72	1	4	-11	-4	1	31	1	6	1	46	45	71
1	-4	0	33	33	42	1	-2	9	6	5	42	1	1	1	107	106	99	1	4	-10	-3	2	34	1	6	2	29	28	44
1	-4	1	74	78	99	1	-2	10	-3	6	48	1	1	2	18	18	15	1	4	-9	13	13	19	1	6	3	19	19	18
1	-4	2	37	35	51	1	-2	11	9	7	26	1	1	3	6	4	8	1	4	-8	-2	1	25	1	6	4	18	17	19
1	-4	3	47	44	72	1	-1	-11	4	2	32	1	1	4	15	17	15	1	4	-7	16	18	18	1	6	5	3	4	18
1	-4	4	65	63	99	1	-1	-10	5	3	32	1	1	5	43	42	81	1	4	-6	18	18	18	1	6	6	8	11	16
1	-4	5	29	28	38	1	-1	-9	-7	1	31	1	1	6	66	63	99	1	4	-5	51	50	89	1	6	7	4	4	25
1	-4	6	7	6	14	1	-1	-8	-2	7	32	1	1	7	45	42	99	1	4	-4	12	9	10	1	6	8	6	1	39
1	-4	7	10	9	18	1	-1	-7	31	32	46	1	1	8	13	13	27	1	4	-3	22	20	27	1	6	9	-4	1	42
1	-4	8	8	8	19	1	-1	-6	31	31	41	1	1	9	-6	4	47	1	4	-2	36	33	46	1	7	-11	-3	6	36
1	-4	9	-5	1	39	1	-1	-5	16	16	14	1	1	10	5	1	45	1	4	-1	35	33	41	1	7	-10	2	2	32
1	-4	10	-2	7	57	1	-1	-4	33	33	47	1	2	-11	7	7	18	1	4	0	21	22	23	1	7	-9	-6	1	35
1	-4	11	-2	3	52	1	-1	-3	20	19	18	1	2	-10	4	6	20	1	4	1	14	12	11	1	7	-8	15	14	20
1	-3	-11	4	4	23	1	-1	-2	68	67	99	1	2	-9	4	3	18	1	4	2	9	9	9	1	7	-7	31	31	44
1	-3	-10	0	4	37	0	-11	0	11	12	19	1	2	-8	6	4	14	1	4	3	4	5	18	1	7	-6	44	44	84
1	-3	-9	-3	3	31	1	-1	1	110	110	99	1	2	-7	35	33	68	1	4	4	15	15	15	1	7	-5	49	47	90
1	-3	-8	11	9	18	1	-1	2	72	74	99	1	2	-6	16	15	16	1	4	5	18	20	20	1	7	-4	17	14	15
1	-3	-7	28	26	43	1	-1	3	34	33	45	1	2	-5	11	13	10	1	4	6	11	12	19	1	7	-3	34	31	49
1	-3	-6	43	40	82	1	-1	4	13	12	12	1	2	-4	21	22	21	1	4	7	-5	0	38	1	7	-2	11	12	10
1	-3	-5	63	61	99	1	-1	5	21	21	25	1	2	-3	3	1	11	1	4	8	0	2	44	1	7	-1	54	51	91
1	-3	-4	21	21	21	1	-1	6	19	18	21	1	2	-2	78	74	99	1	4	9	-1	2	54	1	7	0	110	109	99
1	-3	-3	11	11	10	1	-1	7	19	18	26	1	2	-1	103	95	99	1	4	10	-4	1	52	1	7	1	78	77	99
1	-3	-2	17	15	15	1	-1	8	17	17	29	1	2	0	107	109	99	1	5	-11	6	4	17	1	7	2	17	18	16
1	-3	-1	-4	2	12	1	-1	9	10	10	27	1	2	1	3	0	4	1	5	-10	1	1	30	1	7	3	5	2	9
1	-3	0	121	122	99	1	-1	10	-9	2	56	1	2	2	38	37	51	1	5	-9	6	2	15	1	7	4	20	21	21
1	-3	1	97	97	99	1	-1	11	3	3	49	1	2	3	13	14	11	1	5	-8	-3	3	27	1	7	5	19	18	22
1	7	6	22	21	28	1	10	0	16	17	16	1	13	1	11	10	16	1	17	0	14	14	22	2	-14	-5	11	13	18
1	7	7	13	13	21	1	10	1	19	20	21	1	13	2	18	17	21	1	17	1	9	10	17	2	-14	-4	13	15	21
1	7	8	11	12	24	1	10	2	11	11	14	1	13	3	11	11	17	1	17	2	4	2	14	2	-14	-3	4	11	42
1	7	9	2	4	36	1	10	3	-3	2	22	1	13	4	9	8	15	1	18	-6	4	4	46	2	-14	-2	6	5	33
1	8	-11	-6	2	39	1	10	4	-4	2	28	1	13	5	7	8	16	1	18	-5	-11	1	49	2	-14	-1	3	4	16
1	8	-10	1	1	34	1	10	5	-4	2	24	1	13	6	4	4	28	1	18	-4	-11	2	47	2	-14	0	6	10	33
1	8	-9	6	9	38	1	10	6	-4	5	39	1	14	-10	5	5	35	1	18	-3	5	2	31	2	-14	1	17	16	23
1	8	-8	12	10	18	1	10	7	4	4	20	1	14	-9	6	4	19	1	18	-2	4	5	36	2	-14	2	13	13	24
1	8	-7	-3	5	30	1	11	-11	5	4	35	1	14	-8	-8	4	38	1	18	-1	-12	6	47	2	-14	3	15	15	25
1	8	-6	-5	4	30	1	11	-10	5	6	17	1	14	-7	11	10	19	1	18	0	-6	3	31	2	-14	4	17	16	28
1	8	-5	15	16	17	1	11	-9	5	5	37	1	14	-6	-6	4	30	1	19	-3	6	7	18	2	-14	5	13	12	25
1	8	-4	4	1	21	1	11	-8	8	9	20	1	14	-5	-2	3	37	2	-18	-1	3	3	19	2	-14	6	5	12	45
1	8	-3	18	16	16	1	11	-7	14	13	20	1	14	-4	9	9	19	2	-18	0	2	7	30	2	-14	7	8	9	22
1	8	-2	3	5	12	1	11	-6	13	13	18	1	14	-3	15	14	20	2	-18	1	10	9	17	2	-14	8	6	11	23
1	8	-1	12	12	12	1	11	-5	10	10	14	1	14	-2	0	7	29	2	-18	2	6	11	42	2	-13	-6	-2	6	21
1	8	0	13	11	13	1	11	-4	18	18	21	1	14	-1	-2	1	24	2	-18	3	-4	6	37	2	-13	-5	4	3	28
1	8	1	7	7	10	1	11	-3	31	30	42	1	14	0	8	9	16	2	-18	4	-1	2	19	2	-13	-4	3	2	19
1	8	2	2	4	11	1	11	-2	24	23	31	1	14	1	4	0	13	2	-18	5	-8	1	44	2	-13	-3	9	8	15
1	8	3	-8	0	23	1	11	-1	25	24	33	1	14	2	5	4	15	2	-17	-3	7	8	15	2	-13	-2	8	9	18
1	8	4	6	7	12	1	11	0	28	27	38	1	14	3	-4	4	30	2	-17	-2	1	4	31	2	-13	-1	4	2	16
1	8	5	3	1	25	1	11	1	18	19	20	1	14	4	2	0	27	2	-17	-1	4	5	29	2	-13	0	-6	4	32
1	8	6	-6	7	35	1	11	2	9	9	13	1	14	5	-6	2	33	2	-17	0	9	8	16	2	-13	1	16	15	23
1	8	7	4	7	27	1	11	3	1	2	20	1	15	-9	3	3	38	2	-17	1	9	7	17	2	-13	2	5	6	35
1	8	8	1	1	36	1	11	4	15	13	19	1	15	-8	5	5	22	2	-17	2	6	1	32	2	-13	3	2	1	37
1	9	-11	6	9	21	1	11	5	15	15	20	1	15	-7	10	12	17	2	-17	3	-6	7	42	2	-13	4	5	2	28
1	9	-10	7	7	19	1	11	6	18	18	23	1	15	-6	13	15	19	2	-17	4	5	9	45	2	-13	5	9	8	21
1	9	-9	-3	5	36	1	11	7	9	10	17	1	15	-5	4	10	45	2	-17	5	-4	4	45	2	-13	6	-11	5	49
1	9	-8	12	13	19	1	12	-10	9	8	21	1	15	-4	1	1	31	2	-17	6	5	4	39	2	-13	7	5	0	13
1	9	-7	29	30	45	1	12	-9	-9	4	46	1	15	-3	5	4	17	2	-16	-4	8	8	13	2	-13	8	4	2	37
1	9	-6	39	37	73	1	12	-8	7	5	18	1	15	-2	5	3	29	2	-16	-3	8	8	15	2	-13	9	5	2	37
1	9	-5	32	30	55	1	12	-7	-8	1	35	1	15	-1	7	7	15	2	-16	-2	10	9	16	2	-12	-7	-4	1	24
1	9	-4	20	20	21	1	12	-6	7	8	15	1	15	0	17	17	23	2	-16	-1	5	8	27	2	-12	-6	-1	4	26
1	9	-3	1	3	18	1	12	-5	9	8	13	1	15	1	14	12	19	2	-16	0	9	10	19	2	-12	-5	15	13	20
1	9	-2	12	12	12	1	12	-4	5	7	25	1	15	2	11	9	17	2	-16	1	13	12	22	2	-12	-4	20	19	23
1	9	-1	58	56	99	1	12	-3	5	1	26	1	15	3	5	11	36	2	-16	2	10	11	22	2	-12	-3	8	8	15
1	9	0	65	66	99	1	12	-2	6	5	12	1	15	4	-6	3	27	2	-16	3	13	15	26	2	-12	-2	7	5	15
1	9	1	52	53	99	1	12	-1	3	5	27	1	16	-8	-5	7	37	2	-16	4	11	11	23	2	-12	-1	-7	2	33
1	9	2	5	6	11	1	12	0	13	14	17	1	16	-7	-7	7	32	2	-16	5	4	9	37	2	-12	0	15	12	19
1	9	3	11	12	15	1	12	1	4	7	27	1	16	-6	2	2	37	2	-16	6	3	7	36	2	-12	1	36	36	61
1	9	4	8	8	14	1	12	2	-3	4	30	1	16	-5	11	10	22	2	-16	7	3	7	46	2	-12	2	40	39	71
1	9	5	7	7	15	1	12	3	4	2	25	1	16	-4	11	11	23	2	-15	-5	2	7	33	2	-12	3	19	17	26
1	9	6	29	29	43	1	12	4	3	3	25	1	16	-3	-4	3	31	2	-15	-4	-2	6	16	2	-12	4	4	5	36
1	9	7	18	18	28	1	12	5	-6	1	37	1	16	-2	4	7	32	2	-15	-3	-2	1	28	2	-12	5	8	7	21
1	9	8	7	8	20	1	12	6	-5	1	31	1	16	-1	12	10	19	2	-15	-2	7	6	16	2	-12	6	-8	3	45
1	10	-11	6	2	37	1	13	-10	3	3	40	1	16	0	4	8	35	2	-15	-1	15	15	22	2	-12	7	2	6	44
1	10	-10	10	8	21	1	13	-9	2	1	22	1	16	1	-7	1	34	2	-15	0	9	10	20	2	-12	8	14	12	24
1	10	-9	4	1	23	1	13	-8	-9	2	42	1	16	2	7	8	16	2	-15	1	-1	1	36	2	-12	9	9	6	21
1	10	-8	5	2	32	1	13	-7	6	6	35	1	16	3	-3	6	32	2	-15	2	6	2	19	2	-11	-8	2	2	16
1	10	-7	-4	1	32	1	13	-6	12	15	17	1	17	-7	5	9	35	2	-15	3	6	4	29	2	-11	-7	-4	1	31
1	10	-6	5	5	29	1	13	-5	19	21	24	1	17	-6	10	10	23	2	-15	4	5	3	27	2	-11	-6	5	0	14
1	10	-5	10	10	15	1	13	-4	21	19	25	1	17	-5	-8	7	42	2	-15	5	3	4	40	2	-11	-5	7	4	14
1	10	-4	10	11	14	1	13	-3	19	17	22	1	17	-4	6	3	18	2	-15	6	-5	8	47	2	-11	-4	10	11	18
1	10	-3	21	21	24	1	13	-2	17	16	21	1	17	-3	-10	2	40	2	-15	7	4	8	43	2	-11	-3	5	1	23
1	10	-2	8	8	12	1	13	-1	12	14	17	1	17	-2	8	5	17	2	-15	8	-5	4	39	2	-11	-2	13	12	17
1	10	-1	-4	9	27	1	13	0	9	9	15	1	17	-1	10	10	19	2	-14	-6	6	5	15	2	-11	-1	16	15	19

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	-11	0	12	11	17	2	-8	-4	18	20	20	2	-6	9	-4	10	61	2	-3	-1	4	4	6	2	-1	10	-7	4	52
2	-11	1	-2	1	33	2	-8	-3	25	24	28	2	-6	10	4	6	47	2	-3	0	117	120	99	2	0	-11	-1	7	42
2	-11	2	4	3	34	2	-8	-2	26	27	34	2	-5	-10	7	6	19	2	-3	1	45	45	66	2	0	-10	9	8	19
2	-11	3	16	15	24	2	-8	-1	9	10	12	2	-5	-9	9	9	18	2	-3	2	11	10	10	2	0	-9	8	9	18
2	-11	4	4	10	48	2	-8	0	20	20	21	2	-5	-8	12	11	19	2	-3	3	20	22	20	2	0	-8	20	19	23
2	-11	5	-9	4	43	2	-8	1	50	50	99	2	-5	-7	8	7	15	2	-3	4	43	43	75	2	0	-7	18	17	20
2	-11	6	10	11	20	2	-8	2	48	48	93	2	-5	-6	24	23	31	2	-3	5	15	14	18	2	0	-6	16	15	15
2	-11	7	4	5	35	2	-8	3	28	27	40	2	-5	-5	45	47	87	2	-3	6	21	20	26	2	0	-5	4	9	22
2	-11	8	-10	1	36	2	-8	4	1	3	28	2	-5	-4	14	15	15	2	-3	7	15	16	23	2	0	-4	16	17	13
2	-11	9	3	1	44	2	-8	5	6	3	13	2	-5	-3	39	39	64	2	-3	8	6	5	40	2	0	-3	62	61	99
2	-11	10	-4	3	47	2	-8	6	15	13	22	2	-5	-2	69	69	99	2	-3	9	-5	4	48	2	0	-2	37	35	44
2	-10	-8	-2	4	30	2	-8	7	19	21	27	2	-5	-1	16	16	13	2	-3	10	7	8	54	2	0	-1	22	18	20
2	-10	-7	-2	1	30	2	-8	8	21	21	31	2	-5	0	52	54	88	2	-2	-11	6	3	17	2	0	0	25	27	24
2	-10	-6	8	8	16	2	-8	9	5	5	22	2	-5	1	70	70	99	2	-2	-10	-4	6	37	2	0	1	30	32	34
2	-10	-5	13	13	18	2	-8	10	7	3	22	2	-5	2	40	42	66	2	-2	-9	13	14	21	2	0	2	33	36	43
2	-10	-4	29	26	44	2	-7	-10	-8	4	44	2	-5	3	16	16	16	2	-2	-8	12	11	19	2	0	3	10	12	11
2	-10	-3	27	27	39	2	-7	-9	9	9	19	2	-5	4	37	36	67	2	-2	-7	10	8	14	2	0	4	17	15	17
2	-10	-2	7	5	12	2	-7	-8	13	13	21	2	-5	5	9	11	15	2	-2	-6	19	19	20	2	0	5	32	32	47
2	-10	-1	-1	4	28	2	-7	-7	7	7	16	2	-5	6	-2	1	34	2	-2	-5	12	14	13	2	0	6	24	24	29
2	-10	0	13	13	17	2	-7	-6	10	12	17	2	-5	7	-5	4	25	2	-2	-4	31	33	45	2	0	7	4	6	36
2	-10	1	31	29	47	2	-7	-5	31	31	46	2	-5	8	-2	2	44	2	-2	-3	24	23	29	2	0	8	17	16	27
2	-10	2	37	37	76	2	-7	-4	40	41	76	2	-5	9	-10	1	51	2	-2	-2	7	7	7	2	0	9	5	11	51
2	-10	3	23	22	28	2	-7	-3	13	14	15	2	-5	10	-6	1	55	2	-2	-1	78	80	99	2	0	10	-8	3	58
2	-10	4	4	4	24	2	-7	-2	30	32	39	2	-4	-11	-8	3	38	2	-2	0	40	42	50	2	1	-12	8	9	19
2	-10	5	8	9	18	2	-7	-1	25	26	31	2	-4	-10	10	9	21	2	-2	1	120	118	99	2	1	-11	10	11	19
2	-10	6	5	8	41	2	-7	0	30	32	38	2	-4	-9	6	9	44	2	-2	2	58	60	99	2	1	-10	10	11	19
2	-10	7	18	18	29	2	-7	1	14	13	16	2	-4	-8	-6	4	33	2	-2	3	38	37	58	2	1	-9	8	10	16
2	-10	8	15	15	26	2	-7	2	14	15	15	2	-4	-7	4	7	17	2	-2	4	28	29	37	2	1	-8	22	23	25
2	-10	9	12	13	26	2	-7	3	-4	0	22	2	-4	-6	13	12	17	2	-2	5	-8	1	27	2	1	-7	13	13	15
2	-10	10	-7	1	47	2	-7	4	5	4	26	2	-4	-5	33	33	57	2	-2	6	3	5	33	2	1	-6	6	4	10
2	-9	-9	3	2	20	2	-7	5	3	2	27	2	-4	-4	77	74	99	2	-2	7	35	32	60	2	1	-5	14	35	51
2	-9	-8	-1	0	31	2	-7	6	21	19	25	2	-4	-3	53	54	92	2	-2	8	26	27	38	2	1	-4	19	20	18
2	-9	-7	9	8	15	2	-7	7	17	13	26	2	-4	-2	49	53	78	2	-2	9	13	13	27	2	1	-3	0	3	11
2	-9	-6	8	8	15	2	-7	8	-8	0	46	2	-4	-1	34	34	46	2	-2	10	5	6	31	2	1	-2	75	78	99
2	-9	-5	5	5	13	2	-7	9	-7	0	53	2	-4	0	33	33	45	2	-1	-11	2	5	35	2	1	-1	85	86	99
2	-9	-4	9	9	15	2	-7	10	7	0	22	2	-4	1	34	35	46	2	-1	-10	10	11	20	2	1	0	30	34	31
2	-9	-3	19	19	21	2	-6	-10	7	8	19	2	-4	2	81	81	99	2	-1	-9	5	0	15	2	1	1	29	30	33
2	-9	-2	9	9	13	2	-6	-9	7	7	19	2	-4	3	107	105	99	2	-1	-8	-2	4	26	2	1	2	10	11	9
2	-9	-1	9	8	12	2	-6	-8	5	7	26	2	-4	4	44	44	79	2	-1	-7	8	8	13	2	1	3	10	9	11
2	-9	0	6	6	12	2	-6	-7	16	15	22	2	-4	5	12	14	16	2	-1	-6	5	3	21	2	1	4	7	6	11
2	-9	1	21	20	23	2	-6	-6	17	16	20	2	-4	6	1	5	31	2	-1	-5	-2	3	19	2	1	5	5	3	12
2	-9	2	25	27	32	2	-6	-5	41	38	79	2	-4	7	8	4	18	2	-1	-4	4	5	7	2	1	6	8	4	16
2	-9	3	9	8	16	2	-6	-4	52	53	99	2	-4	8	11	10	24	2	-1	-3	-5	1	13	2	1	7	3	1	39
2	-9	4	16	15	21	2	-6	-3	38	40	65	2	-4	9	21	20	36	2	-1	-2	67	65	99	2	1	8	-6	3	49
2	-9	5	5	7	35	2	-6	-2	34	35	55	2	-4	10	7	6	56	2	-1	-1	26	22	26	2	1	9	-8	4	57
2	-9	6	-3	1	33	2	-6	-1	14	15	13	2	-3	-11	4	2	22	2	-1	0	87	91	99	2	1	10	6	3	51
2	-9	7	6	5	37	2	-6	0	-4	2	19	2	-3	-10	9	8	20	2	-1	1	32	34	38	2	2	-12	6	10	41
2	-9	8	3	4	31	2	-6	1	19	19	17	2	-3	-9	9	9	19	2	-1	2	6	6	7	2	2	-11	6	7	19
2	-9	9	-3	5	38	2	-6	2	62	59	99	2	-3	-8	4	0	30	2	-1	3	27	25	39	2	2	-10	-5	4	35
2	-9	10	-4	3	41	2	-6	3	42	41	73	2	-3	-7	15	15	19	2	-1	4	22	22	23	2	2	-9	-4	1	10
2	-8	-9	-4	1	32	2	-6	4	26	25	36	2	-3	-6	18	18	19	2	-1	5	4	5	12	2	2	-8	13	14	18
2	-8	-8	-5	1	33	2	-6	5	7	5	14	2	-3	-5	18	16	16	2	-1	6	22	21	27	2	2	-7	35	35	63
2	-8	-7	4	3	28	2	-6	6	2	2	31	2	-3	-4	26	27	30	2	-1	7	22	22	32	2	2	-6	39	39	65
2	-8	-6	12	12	18	2	-6	7	5	1	36	2	-3	-3	30	33	41	2	-1	8	-5	5	46	2	2	-5	51	51	87
2	-8	-5	34	35	52	2	-6	8	12	13	22	2	-3	-2	36	38	49	2	-1	9	3	2	47	2	2	-4	40	42	57
2	2	-3	54	53	83	2	4	7	9	8	22	2	7	-4	-2	2	19	2	10	-9	-5	1	31	2	13	-8	-6	3	40
2	2	-2	102	104	99	2	4	8	1	4	43	2	7	-3	18	18	16	2	10	-8	2	4	39	2	13	-7	12	12	22
2	2	-1	68	69	99	2	4	9	5	4	45	2	7	-2	1	1	13	2	10	-7	22	21	27	2	13	-6	21	19	28
2	2	0	84	83	99	2	5	-12	-3	2	42	2	7	-1	33	33	46	2	10	-6	29	29	43	2	13	-5	[illegible]	8	15
2	2	1	7	7	6	2	5	-11	6	2	17	2	7	0	22	21	24	2	10	-5	30	30	43	2	13	-4	[illegible]	8	36
2	2	2	15	15	12	2	5	-10	4	1	27	2	7	1	14	15	13	2	10	-4	12	12	13	2	13	-3	27	27	40
2	2	3	21	24	25	2	5	-9	7	8	16	2	7	2	4	4	10	2	10	-3	17	17	16	2	13	-2	18	16	21
2	2	4	28	28	37	2	5	-8	8	8	16	2	7	3	15	15	16	2	10	-2	31	30	52	2	13	-1	8	10	15
2	2	5	11	9	17	2	5	-7	13	12	15	2	7	4	18	18	21	2	10	-1	33	31	57	2	13	0	5	3	26
2	2	6	10	8	19	2	5	-6	26	26	33	2	7	5	4	0	27	2	10	0	34	33	62	2	13	1	17	17	21
2	2	7	9	8	21	2	5	-5	20	21	19	2	7	6	11	11	20	2	10	1	27	28	38	2	13	2	-2	5	28
2	2	8	-5	2	45	2	5	-4	23	23	25	2	7	7	11	12	22	2	10	2	15	14	16	2	13	3	4	4	25
2	2	9	5	4	22	2	5	-3	59	56	99	2	7	8	7	7	21	2	10	3	5	4	28	2	13	4	9	8	15
2	2	10	5	4	49	2	5	-2	61	60	99	2	8	-12	2	6	38	2	10	4	12	13	17	2	13	5	5	4	14
2	3	-12	8	6	18	2	5	-1	40	37	54	2	8	-11	7	8	19	2	10	5	14	15	20	2	14	-10	-9	5	46
2	3	-11	7	7	18	2	5	0	47	45	71	2	8	-10	4	9	36	2	10	6	11	11	20	2	14	-9	-4	3	41
2	3	-10	-4	4	34	2	5	1	91	88	99	2	8	-9	-3	7	37	2	10	7	10	10	19	2	14	-8	11	8	22
2	3	-9	22	24	29	2	5	2	35	34	55	2	8	-8	21	20	27	2	11	-11	1	2	26	2	14	-7	14	14	24
2	3	-8	41	42	83	2	5	3	16	17	16	2	8	-7	23	22	28	2	11	-10	1	3	21	2	14	-6	15	17	25
2	3	-7	10	10	14	2	5	4	26	27	36	2	8	-6	28	29	40	2	11	-9	6	6	35	2	14	-5	15	14	23
2	3	-6	43	43	73	2	5	5	24	27	32	2	8	-5	19	18	19	2	11	-8	14	14	22	2	14	-4	9	8	17
2	3	-5	66	64	99	2	5	6	4	8	35	2	8	-4	12	13	14	2	11	-7	11	11	19	2	14	-3	3	5	17
2	3	-4	26	27	33	2	5	7	17	15	25	2	8	-3	21	22	23	2	11	-6	5	5	16	2	14	-2	4	3	27
2	3	-3	50	51	76	2	5	8	10	11	25	2	8	-2	16	15	13	2	11	-5	12	12	19	2	14	-1	7	8	15
2	3	-2	109	103	99	2	5	9	-9	1	55	2	8	-1	38	34	59	2	11	-4	12	12	14	2	14	0	19	19	22
2	3	-1	122	122	99	2	6	-12	6	3	35	2	8	0	45	46	78	2	11	-3	3	4	22	2	14	1	19	20	24
2	3	0	26	25	29	2	6	-11	5	4	27	2	8	1	30	29	48	2	11	-2	7	6	12	2	14	2	9	9	17
2	3	1	33	34	42	2	6	-10	-3	2	34	2	8	2	18	17	19	2	11	-1	22	22	26	2	14	3	2	3	26
2	3	2	24	27	26	2	6	-9	7	9	18	2	8	3	4	1	23	2	11	0	2	3	27	2	14	4	-3	1	30
2	3	3	10	9	12	2	6	-8	9	8	15	2	8	4	4	1	17	2	11	1	2	3	21	2	15	-9	-4	2	42
2	3	4	31	30	42	2	6	-7	15	16	18	2	8	5	3	2	15	2	11	2	8	12	16	2	15	-8	9	7	21
2	3	5	42	39	88	2	6	-6	41	41	74	2	8	6	17	17	25	2	11	3	11	11	16	2	15	-7	8	7	22
2	3	6	3	6	38	2	6	-5	37	37	60	2	8	7	16	17	25	2	11	4	3	3	30	2	15	-6	5	5	19
2	3	7	-5	5	40	2	6	-4	14	16	11	2	8	8	8	8	21	2	11	5	-5	1	31	2	15	-5	0	2	31
2	3	8	7	4	20	2	6	-3	-3	2	15	2	9	-11	-5	1	40	2	11	6	4	5	27	2	15	-4	9	7	19
2	3	9	3	1	32	2	6	-2	24	25	29	2	9	-10	5	4	25	2	12	-11	-7	4	44	2	15	-3	4	7	34
2	4	-12	9	8	17	2	6	-1	44	41	64	2	9	-9	5	2	32	2	12	-10	8	5	19	2	15	-2	-3	0	27
2	4	-11	4	7	27	2	6	0	33	34	45	2	9	-8	4	5	24	2	12	-9	1	1	35	2	15	-1	13	13	16
2	4	-10	6	5	17	2	6	1	66	65	99	2	9	-7	12	11	19	2	12	-8	8	6	19	2	15	0	11	11	17
2	4	-9	8	6	17	2	6	2	26	25	31	2	9	-6	11	10	16	2	12	-7	17	17	24	2	15	1	2	8	20
2	4	-8	12	11	17	2	6	3	16	16	17	2	9	-5	7	8	14	2	12	-6	28	26	39	2	15	2	2	3	30
2	4	-7	45	45	87	2	6	4	11	11	14	2	9	-4	4	6	22	2	12	-5	21	22	23	2	15	3	10	11	17
2	4	-6	51	51	98	2	6	5	4	8	17	2	9	-3	29	30	35	2	12	-4	-6	3	27	2	16	-9	6	5	42
2	4	-5	29	28	43	2	6	6	9	15	21	2	9	-2	11	9	11	2	12	-3	-6	3	29	2	16	-8	7	7	21
2	4	-4	35	32	49	2	6	7	10	9	21	2	9	-1	7	6	10	2	12	-2	16	16	19	2	16	-7	10	9	19
2	4	-3	45	46	56	2	6	8	10	10	23	2	9	0	10	9	13	2	12	-1	28	28	40	2	16	-6	16	17	26
2	4	-2	23	24	26	2	6	9	6	6	47	2	9	1	5	3	21	2	12	0	26	25	32	2	16	-5	19	19	27
2	4	-1	28	27	31	2	7	-12	2	2	32	2	9	2	-3	4	21	2	12	1	11	12	16	2	16	-4	12	12	21
2	4	0	91	90	99	2	7	-11	-3	1	36	2	9	3	3	2	21	2	12	2	5	5	30	2	16	-3	-5	5	33
2	4	1	72	71	99	2	7	-10	5	9	28	2	9	4	5	8	26	2	12	3	3	5	29	2	16	-2	3	5	23
2	4	2	44	44	71	2	7	-9	10	8	17	2	9	5	4	2	27	2	12	4	4	9	30	2	16	-1	12	11	18
2	4	3	49	48	87	2	7	-8	20	19	24	2	9	6	-4	2	36	2	12	5	11	12	17	2	16	0	16	15	21
2	4	4	26	25	36	2	7	-7	8	7	14	2	9	7	-2	4	37	2	12	6	3	5	33	2	16	1	13	15	19
2	4	5	32	31	50	2	7	-6	11	10	13	2	10	-11	-8	3	47	2	13	-10	2	5	45	2	16	2	3	5	32
2	4	6	15	14	24	2	7	-5	4	4	23	2	10	-10	-5	3	37	2	13	-9	4	5	43	2	17	-3	5	5	25

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	17	-7	-9	3	37	3	-14	-6	-5	1	26	3	-11	-1	6	2	12	3	-8	-3	26	27	37	3	-6	10	-13	3	57
2	17	-6	-6	0	38	3	-14	-5	3	2	30	3	-11	0	6	6	14	3	-8	-2	16	17	17	3	-5	-11	-6	2	35
2	17	-5	-8	0	41	3	-14	-4	2	3	28	3	-11	1	12	10	18	3	-8	-1	13	14	15	3	-5	-10	4	5	36
2	17	-4	5	1	29	3	-14	-3	1	1	27	3	-11	2	29	29	41	3	-8	0	34	31	61	3	-5	-9	9	9	19
2	17	-3	6	5	17	3	-14	-2	14	13	18	3	-11	3	28	27	41	3	-8	1	17	17	19	3	-5	-8	7	5	16
2	17	-2	9	9	17	3	-14	-1	16	15	22	3	-11	4	2	5	40	3	-8	2	17	16	21	3	-5	-7	10	8	17
2	17	-1	4	8	37	3	-14	0	11	10	20	3	-11	5	8	8	20	3	-8	3	8	7	15	3	-5	-6	12	11	15
2	17	0	5	0	14	3	-14	1	-9	5	44	3	-11	6	10	10	22	3	-8	4	12	13	20	3	-5	-5	18	19	18
2	17	1	5	4	31	3	-14	2	16	16	24	3	-11	7	16	13	25	3	-8	5	8	6	18	3	-5	-4	41	40	70
2	18	-6	-3	4	41	3	-14	3	-3	2	36	3	-11	8	13	13	26	3	-8	6	-3	1	39	3	-5	-3	28	30	43
2	18	-5	5	5	19	3	-14	4	5	5	32	3	-11	9	-5	7	46	3	-8	7	18	18	27	3	-5	-2	21	20	23
2	18	-4	5	4	18	3	-14	5	12	13	24	3	-10	-9	8	4	15	3	-8	8	9	9	21	3	-5	-1	57	59	99
2	18	-3	3	4	23	3	-14	6	9	10	22	3	-10	-8	6	1	13	3	-8	9	4	3	32	3	-5	0	53	53	93
2	18	-2	-4	6	36	3	-14	7	-8	4	49	3	-10	-7	-3	2	31	3	-8	10	7	6	23	3	-5	1	61	63	99
2	18	-1	10	10	17	3	-14	8	6	2	19	3	-10	-6	10	9	18	3	-7	-10	-4	6	33	3	-5	2	60	59	99
2	18	0	9	10	17	3	-13	-7	2	1	29	3	-10	-5	19	19	23	3	-7	-9	-4	6	39	3	-5	3	43	41	81
3	-18	-1	5	2	24	3	-13	-6	3	1	28	3	-10	-4	6	3	14	3	-7	-8	-2	6	22	3	-5	4	19	20	22
3	-18	0	2	4	25	3	-13	-5	8	7	15	3	-10	-3	24	24	31	3	-7	-7	9	8	16	3	-5	5	7	3	15
3	-18	1	3	5	17	3	-13	-4	13	12	19	3	-10	-2	17	15	19	3	-7	-6	28	27	36	3	-5	6	15	14	22
3	-18	2	4	0	19	3	-13	-3	16	16	23	3	-10	-1	1	4	22	3	-7	-5	47	46	93	3	-5	7	26	26	36
3	-18	3	-6	3	41	3	-13	-2	17	17	22	3	-10	0	12	13	17	3	-7	-4	43	44	81	3	-5	8	13	14	27
3	-18	4	-7	2	44	3	-13	-1	19	17	23	3	-10	1	29	29	45	3	-7	-3	20	19	20	3	-5	9	9	9	23
3	-17	-3	-4	4	26	3	-13	0	15	17	23	3	-10	2	15	14	21	3	-7	-2	8	9	12	3	-5	10	-6	2	53
3	-17	-2	4	1	12	3	-13	1	20	20	28	3	-10	3	21	19	27	3	-7	-1	4	5	22	3	-4	-11	5	4	36
3	-17	-1	2	2	24	3	-13	2	23	23	32	3	-10	4	17	16	24	3	-7	0	30	29	51	3	-4	-10	7	2	17
3	-17	0	5	5	32	3	-13	3	15	15	25	3	-10	5	12	13	22	3	-7	1	70	72	99	3	-4	-9	4	6	35
3	-17	1	7	9	19	3	-13	4	11	11	24	3	-10	6	9	6	20	3	-7	2	60	56	99	3	-4	-8	5	6	15
3	-17	2	4	6	29	3	-13	5	11	11	23	3	-10	7	-1	9	51	3	-7	3	23	24	29	3	-4	-7	10	9	14
3	-17	3	-8	2	45	3	-13	6	10	10	21	3	-10	8	8	6	23	3	-7	4	16	14	19	3	-4	-6	15	15	17
3	-17	4	7	1	20	3	-13	7	6	11	50	3	-10	9	4	0	26	3	-7	5	14	13	20	3	-4	-5	10	9	12
3	-17	5	7	6	21	3	-13	8	-3	5	49	3	-9	-9	5	6	26	3	-7	6	3	12	40	3	-4	-4	24	23	29
3	-16	-4	10	10	17	3	-12	-7	-3	1	30	3	-9	-8	7	6	15	3	-7	7	13	11	24	3	-4	-3	37	34	57
3	-16	-3	9	5	13	3	-12	-6	7	7	14	3	-9	-7	-6	1	33	3	-7	8	8	9	26	3	-4	-2	-5	0	15
3	-16	-2	4	4	21	3	-12	-5	3	8	29	3	-9	-6	16	15	20	3	-7	9	6	9	51	3	-4	-1	15	15	12
3	-16	-1	10	8	17	3	-12	-4	-3	2	27	3	-9	-5	26	25	34	3	-7	10	-4	0	55	3	-4	0	20	21	21
3	-16	0	9	10	18	3	-12	-3	3	3	21	3	-9	-4	40	40	80	3	-6	-10	-9	3	39	3	-4	1	19	18	18
3	-16	1	-3	2	36	3	-12	-2	-8	2	30	3	-9	-3	35	35	67	3	-6	-9	-2	3	35	3	-4	2	15	16	15
3	-16	2	2	3	36	3	-12	-1	-3	1	25	3	-9	-2	10	10	14	3	-6	-8	10	10	19	3	-4	3	8	11	13
3	-16	3	12	11	24	3	-12	0	5	0	30	3	-9	-1	5	4	12	3	-6	-7	6	4	12	3	-4	4	22	21	24
3	-16	4	5	7	38	3	-12	1	11	10	21	3	-9	0	24	25	29	3	-6	-6	3	6	28	3	-4	5	11	10	17
3	-16	5	5	3	40	3	-12	2	5	4	35	3	-9	1	32	30	47	3	-6	-5	10	9	14	3	-4	6	-3	0	36
3	-16	6	4	4	38	3	-12	3	4	7	26	3	-9	2	20	18	24	3	-6	-4	12	13	14	3	-4	7	15	14	24
3	-15	-5	-3	6	29	3	-12	4	11	11	22	3	-9	3	27	27	37	3	-6	-3	2	0	10	3	-4	8	-4	5	49
3	-15	-4	-6	5	31	3	-12	5	-2	10	40	3	-9	4	11	11	20	3	-6	-2	20	24	28	3	-4	9	-4	1	51
3	-15	-3	6	7	14	3	-12	6	7	8	20	3	-9	5	12	11	21	3	-6	-1	20	21	20	3	-4	10	5	1	28
3	-15	-2	9	10	17	3	-12	7	6	0	20	3	-9	6	4	2	39	3	-6	0	3	4	21	3	-3	-11	12	11	20
3	-15	-1	13	12	18	3	-12	8	6	2	21	3	-9	7	-6	7	47	3	-6	1	13	12	14	3	-3	-10	19	17	27
3	-15	0	13	12	21	3	-12	9	-5	7	48	3	-9	8	8	10	24	3	-6	2	37	36	66	3	-3	-9	21	19	27
3	-15	1	13	13	21	3	-11	-8	-3	2	31	3	-9	9	-3	3	50	3	-6	3	26	24	35	3	-3	-8	11	11	17
3	-15	2	13	13	23	3	-11	-7	-4	1	25	3	-8	-9	3	1	31	3	-6	4	11	11	16	3	-3	-7	6	4	12
3	-15	3	3	8	51	3	-11	-6	7	2	14	3	-8	-8	6	6	15	3	-6	5	20	20	25	3	-3	-6	11	9	13
3	-15	4	4	6	32	3	-11	-5	18	18	23	3	-8	-7	-5	5	30	3	-6	6	13	13	21	3	-3	-5	11	11	12
3	-15	5	6	5	21	3	-11	-4	23	23	29	3	-8	-6	2	0	29	3	-6	7	12	10	22	3	-3	-4	40	41	66
3	-15	6	7	9	23	3	-11	-3	11	10	16	3	-8	-5	17	17	20	3	-6	8	6	5	22	3	-3	-3	106	104	99
3	-15	7	5	7	41	3	-11	-2	-5	4	29	3	-8	-4	14	16	19	3	-6	9	5	6	34	3	-3	-2	4	7	7
3	-3	-1	43	46	62	3	-1	9	8	11	62	3	2	-4	79	81	99	3	4	7	5	9	45	3	7	-2	36	37	53
3	-3	0	25	27	32	3	-1	10	-5	2	55	3	2	-3	15	14	12	3	4	8	8	8	24	3	7	-1	21	21	23
3	-3	1	41	41	62	3	0	-12	0	8	40	3	2	-2	56	56	87	3	4	9	2	4	45	3	7	0	31	31	49
3	-3	2	69	71	99	3	0	-11	14	14	22	3	2	-1	68	69	99	3	5	-12	2	2	37	3	7	1	26	26	32
3	-3	3	35	34	59	3	0	-10	8	5	16	3	2	0	12	13	8	3	5	-11	7	5	17	3	7	2	29	30	39
3	-3	4	17	18	19	3	0	-9	7	6	16	3	2	1	33	32	44	3	5	-10	13	14	21	3	7	3	23	24	28
3	-3	5	9	9	15	3	0	-8	21	21	25	3	2	2	43	43	70	3	5	-9	26	25	35	3	7	4	14	18	19
3	-3	6	5	7	39	3	0	-7	-1	6	23	3	2	3	11	11	13	3	5	-8	38	36	75	3	7	5	14	16	21
3	-3	7	15	15	27	3	0	-6	5	0	8	3	2	4	1	0	25	3	5	-7	15	15	17	3	7	6	1	6	41
3	-3	8	21	21	36	3	0	-5	49	47	83	3	2	5	4	0	26	3	5	-6	17	17	16	3	7	7	7	6	18
3	-3	9	13	11	26	3	0	-4	37	37	52	3	2	6	3	3	25	3	5	-5	29	27	43	3	7	8	5	7	39
3	-3	10	8	9	28	3	0	-3	1	0	11	3	2	7	6	2	19	3	5	-4	73	71	99	3	8	-12	-2	5	39
3	-2	-11	-3	1	38	3	0	-2	5	5	6	3	2	8	7	1	24	3	5	-3	76	74	99	3	8	-11	9	9	19
3	-2	-10	-8	5	40	3	0	-1	5	3	5	3	2	9	4	2	44	3	5	-2	51	53	79	3	8	-10	8	8	17
3	-2	-9	8	5	15	3	0	0	43	42	60	3	3	-12	4	0	33	3	5	-1	77	73	99	3	8	-9	-7	0	33
3	-2	-8	-4	2	30	3	0	1	14	16	11	3	3	-11	2	6	37	3	5	0	36	35	52	3	8	-8	15	17	20
3	-2	-7	2	1	23	3	0	2	9	11	10	3	3	-10	11	10	18	3	5	1	6	6	9	3	8	-7	9	7	14
3	-2	-6	8	6	12	3	0	3	13	11	14	3	3	-9	21	23	25	3	5	2	36	39	63	3	8	-6	-3	3	27
3	-2	-5	12	11	12	3	0	4	13	14	17	3	3	-8	21	22	26	3	5	3	31	30	43	3	8	-5	13	12	15
3	-2	-4	61	62	99	3	0	5	5	5	29	3	3	-7	19	17	18	3	5	4	21	21	26	3	8	-4	20	19	20
3	-2	-3	35	34	48	3	0	6	14	13	22	3	3	-6	26	26	31	3	5	5	8	4	16	3	8	-3	23	22	27
3	-2	-2	1	2	13	3	0	7	17	16	26	3	3	-5	43	44	67	3	5	6	4	4	18	3	8	-2	20	20	19
3	-2	-1	50	49	74	3	0	8	-4	7	49	3	3	-4	28	29	38	3	5	7	11	11	23	3	8	-1	13	11	12
3	-2	0	34	33	44	3	0	9	6	7	51	3	3	-3	18	18	17	3	5	8	11	13	27	3	8	0	22	21	24
3	-2	1	4	3	7	3	0	10	-7	0	53	3	3	-2	43	44	58	3	6	-12	-6	2	36	3	8	1	9	10	12
3	-2	2	110	108	99	3	1	-12	9	8	19	3	3	-1	31	33	37	3	6	-11	-6	2	37	3	8	2	4	4	24
3	-2	3	55	52	99	3	1	-11	5	12	32	3	3	0	7	7	7	3	6	-10	5	5	24	3	8	3	3	5	27
3	-2	4	3	0	21	3	1	-10	9	7	16	3	3	1	69	69	99	3	6	-9	-9	4	37	3	8	4	2	1	14
3	-2	5	9	8	16	3	1	-9	-3	2	30	3	3	2	55	56	99	3	6	-8	9	10	16	3	8	5	10	7	16
3	-2	6	15	15	25	3	1	-8	-3	8	30	3	3	3	36	38	64	3	6	-7	19	19	19	3	8	6	6	6	34
3	-2	7	14	14	26	3	1	-7	13	11	14	3	3	4	28	28	41	3	6	-6	6	4	10	3	8	7	4	3	20
3	-2	8	-5	1	35	3	1	-6	28	29	43	3	3	5	8	10	20	3	6	-5	14	15	14	3	9	-12	9	9	20
3	-2	9	8	4	24	3	1	-5	58	58	99	3	3	6	-8	2	40	3	6	-4	19	21	19	3	9	-11	-3	6	42
3	-2	10	5	3	43	3	1	-4	72	73	99	3	3	7	7	5	19	3	6	-3	27	28	38	3	9	-10	6	4	18
3	-1	-12	9	9	18	3	1	-3	68	69	99	3	3	8	13	12	25	3	6	-2	17	17	14	3	9	-9	7	4	16
3	-1	-11	16	15	26	3	1	-2	36	34	43	3	3	9	7	6	24	3	6	-1	6	8	8	3	9	-8	6	8	17
3	-1	-10	22	22	29	3	1	-1	19	16	15	3	4	-12	7	3	17	3	6	0	16	13	14	3	9	-7	12	12	16
3	-1	-9	10	9	17	3	1	0	15	15	12	3	4	-11	5	6	36	3	6	1	11	11	11	3	9	-6	24	23	29
3	-1	-8	-4	2	25	3	1	1	48	51	73	3	4	-10	-3	5	27	3	6	2	5	4	11	3	9	-5	32	33	47
3	-1	-7	11	10	15	3	1	2	46	49	78	3	4	-9	17	18	22	3	6	3	24	25	30	3	9	-4	19	19	19
3	-1	-6	20	19	20	3	1	3	47	48	87	3	4	-8	-6	0	30	3	6	4	24	26	29	3	9	-3	-3	4	19
3	-1	-5	91	89	99	3	1	4	3	8	20	3	4	-7	5	6	12	3	6	5	14	14	21	3	9	-2	9	9	12
3	-1	-4	62	65	99	3	1	5	8	9	18	3	4	-6	30	30	47	3	6	6	6	8	37	3	9	-1	14	13	14
3	-1	-3	42	39	59	3	1	6	3	1	33	3	4	-5	27	26	40	3	6	7	14	13	25	3	9	0	24	22	27
3	-1	-2	51	52	76	3	1	7	10	10	22	3	4	-4	26	25	35	3	6	8	6	7	40	3	9	1	25	25	29
3	-1	-1	55	53	85	3	1	8	5	8	25	3	4	-3	49	47	76	3	7	-12	-6	7	37	3	9	2	17	19	21
3	-1	0	13	13	9	3	1	9	7	7	25	3	4	-2	65	66	99	3	7	-11	-11	8	47	3	9	3	15	14	19
3	-1	1	57	58	97	3	2	-12	5	6	32	3	4	-1	24	24	28	3	7	-10	14	13	22	3	9	4	9	9	15
3	-1	2	86	83	99	3	2	-11	9	9	19	3	4	0	51	49	80	3	7	-9	2	6	35	3	9	5	7	9	17
3	-1	3	66	65	99	3	2	-10	-7	3	40	3	4	1	87	85	99	3	7	-8	15	15	19	3	9	6	-6	4	34
3	-1	4	18	17	19	3	2	-9	-4	2	31	3	4	2	30	31	49	3	7	-7	17	17	18	3	9	7	4	3	36
3	-1	5	7	1	14	3	2	-8	19	19	22	3	4	3	9	9	12	3	7	-6	6	7	13	3	10	-11	4	11	51
3	-1	6	7	3	16	3	2	-7	12	14	14	3	4	4	34	36	53	3	7	-5	24	24	32	3	10	-10	5	0	37
3	-1	7	14	12	26	3	2	-6	31	32	50	3	4	5	15	15	24	3	7	-4	34	36	55	3	10	-9	13	12	21
3	-1	8	19	19	33	3	2	-5	48	48	78	3	4	6	-4	0	31	3	7	-3	52	50	88	3	10	-8	21	21	28

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	10	-7	1	9	34	3	13	-4	7	6	13	3	17	-3	-3	6	33	4	-14	1	3	3	25	4	-11	8	-10	1	52
3	10	-6	16	17	20	3	13	-3	5	6	15	3	17	-2	4	6	32	4	-14	2	5	2	19	4	-10	-9	5	2	27
3	10	-5	34	33	49	3	13	-2	5	7	15	3	17	-1	5	6	30	4	-14	3	-2	3	42	4	-10	-8	-6	2	29
3	10	-4	23	24	25	3	13	-1	23	22	30	3	17	0	8	9	16	4	-14	4	11	9	23	4	-10	-7	-9	1	35
3	10	-3	23	23	29	3	13	0	27	25	40	3	17	1	9	10	16	4	-14	5	7	13	59	4	-10	-6	16	16	22
3	10	-2	20	18	21	3	13	1	16	17	21	3	18	-6	-8	1	40	4	-14	6	-6	4	43	4	-10	-5	21	21	25
3	10	-1	16	15	16	3	13	2	8	8	15	3	18	-5	-7	1	35	4	-14	7	-5	1	44	4	-10	-4	39	40	78
3	10	0	-1	4	25	3	13	3	-6	3	35	3	18	-4	6	4	39	4	-13	-7	4	4	18	4	-10	-3	37	35	74
3	10	1	14	15	17	3	13	4	-8	1	33	3	18	-3	4	4	19	4	-13	-6	-3	2	28	4	-10	-2	10	10	16
3	10	2	19	17	22	3	13	5	3	2	16	3	18	-2	4	2	30	4	-13	-5	6	5	15	4	-10	-1	10	11	15
3	10	3	10	11	16	3	14	-10	-9	5	49	3	18	-1	3	0	17	4	-13	-4	-3	3	28	4	-10	0	12	11	18
3	10	4	2	2	28	3	14	-9	5	3	18	4	-18	0	-9	2	36	4	-13	-3	-1	1	28	4	-10	1	31	31	49
3	10	5	-7	1	35	3	14	-8	4	3	19	4	-18	1	3	3	15	4	-13	-2	-5	1	32	4	-10	2	34	32	56
3	10	6	4	2	15	3	14	-7	5	5	42	4	-18	2	8	9	18	4	-13	-1	12	11	20	4	-10	3	11	10	20
3	11	-11	10	13	24	3	14	-6	7	7	17	4	-18	3	9	11	20	4	-13	0	14	13	21	4	-10	4	14	13	23
3	11	-10	2	4	38	3	14	-5	9	8	14	4	-17	-3	4	6	12	4	-13	1	4	7	35	4	-10	5	15	15	26
3	11	-9	3	1	20	3	14	-4	-3	1	29	4	-17	-2	-7	2	28	4	-13	2	-4	4	39	4	-10	6	9	10	23
3	11	-8	9	10	19	3	14	-3	-6	2	31	4	-17	-1	4	6	15	4	-13	3	4	4	28	4	-10	7	-8	2	50
3	11	-7	22	22	28	3	14	-2	5	4	13	4	-17	0	4	6	23	4	-13	4	-10	6	44	4	-10	8	7	2	23
3	11	-6	27	27	37	3	14	-1	0	2	27	4	-17	1	5	2	33	4	-13	5	-5	5	45	4	-10	9	2	3	23
3	11	-5	22	22	25	3	14	0	13	12	18	4	-17	2	-1	4	28	4	-13	6	5	6	45	4	-9	-9	9	7	16
3	11	-4	22	22	26	3	14	1	13	14	18	4	-17	3	-7	2	38	4	-13	7	-7	0	46	4	-9	-8	-3	0	26
3	11	-3	-4	2	25	3	14	2	-4	5	30	4	-17	4	-7	0	30	4	-13	8	-3	3	42	4	-9	-7	11	9	17
3	11	-2	-4	1	22	3	14	3	7	9	15	4	-17	5	-3	5	27	4	-12	-7	5	2	14	4	-9	-6	10	10	17
3	11	-1	12	11	16	3	14	4	9	10	15	4	-16	-4	-7	2	28	4	-12	-6	3	2	26	4	-9	-5	9	9	17
3	11	0	16	16	19	3	15	-9	1	5	47	4	-16	-3	8	6	15	4	-12	-5	4	5	31	4	-9	-4	33	31	48
3	11	1	20	19	23	3	15	-8	6	6	43	4	-16	-2	5	5	16	4	-12	-4	20	19	24	4	-9	-3	30	31	44
3	11	2	15	17	19	3	15	-7	-7	10	58	4	-16	-1	-5	7	33	4	-12	-3	23	22	28	4	-9	-2	15	15	17
3	11	3	5	7	32	3	15	-6	11	12	17	4	-16	0	10	11	19	4	-12	-2	30	31	48	4	-9	-1	7	9	14
3	11	4	-4	1	28	3	15	-5	15	15	20	4	-16	1	6	7	19	4	-12	-1	19	17	23	4	-9	0	28	26	42
3	11	5	6	4	31	3	15	-4	14	13	19	4	-16	2	8	5	17	4	-12	0	7	7	15	4	-9	1	17	18	21
3	11	6	-4	7	36	3	15	-3	17	17	22	4	-16	3	8	7	20	4	-12	1	-6	5	33	4	-9	2	-4	0	34
3	12	-11	-3	5	44	3	15	-2	14	13	19	4	-16	4	8	8	22	4	-12	2	-5	3	32	4	-9	3	10	7	19
3	12	-10	0	2	41	3	15	-1	10	11	17	4	-16	5	1	2	41	4	-12	3	18	17	29	4	-9	4	25	25	35
3	12	-9	4	4	42	3	15	0	13	13	17	4	-16	6	5	1	25	4	-12	4	31	30	48	4	-9	5	8	2	18
3	12	-8	6	3	36	3	15	1	8	8	16	4	-15	-5	-4	1	29	4	-12	5	22	22	32	4	-9	6	11	11	24
3	12	-7	-2	1	38	3	15	2	-2	5	30	4	-15	-4	-4	4	30	4	-12	6	5	14	52	4	-9	7	17	13	27
3	12	-6	13	11	21	3	15	3	4	3	20	4	-15	-3	7	9	18	4	-12	7	-6	4	46	4	-9	8	7	2	21
3	12	-5	15	14	17	3	16	-9	-6	3	41	4	-15	-2	5	1	32	4	-12	8	-8	1	51	4	-9	9	5	3	50
3	12	-4	15	15	16	3	16	-8	8	2	20	4	-15	-1	13	13	19	4	-11	-8	-2	2	24	4	-8	-10	4	0	32
3	12	-3	11	11	15	3	16	-7	3	3	38	4	-15	0	4	7	35	4	-11	-7	-2	5	22	4	-8	-9	-5	1	29
3	12	-2	45	43	86	3	16	-6	-3	0	32	4	-15	1	-9	0	41	4	-11	-6	-2	5	30	4	-8	-8	6	4	32
3	12	-1	21	22	24	3	16	-5	-6	1	33	4	-15	2	13	13	23	4	-11	-5	4	0	27	4	-8	-7	9	8	17
3	12	0	-4	1	29	3	16	-4	-7	1	34	4	-15	3	6	11	53	4	-11	-4	8	6	15	4	-8	-6	29	26	42
3	12	1	15	16	20	3	16	-3	-1	2	30	4	-15	4	-4	3	39	4	-11	-3	-5	0	32	4	-8	-5	36	36	66
3	12	2	15	13	19	3	16	-2	7	5	15	4	-15	5	5	6	45	4	-11	-2	4	6	27	4	-8	-4	3	4	25
3	12	3	4	4	15	3	16	-1	5	5	31	4	-15	6	7	9	24	4	-11	-1	3	1	31	4	-8	-3	-2	3	23
3	12	4	9	9	18	3	16	0	-3	5	29	4	-15	7	-7	1	42	4	-11	0	12	12	18	4	-8	-2	-1	2	18
3	12	5	10	11	18	3	16	1	4	0	25	4	-14	-6	4	2	24	4	-11	1	8	7	17	4	-8	-1	8	8	13
3	13	-10	6	9	21	3	16	2	5	1	29	4	-14	-5	-3	1	28	4	-11	2	13	14	22	4	-8	0	35	34	52
3	13	-9	9	9	21	3	17	-8	4	1	45	4	-14	-4	7	3	15	4	-11	3	4	7	39	4	-8	1	46	45	93
3	13	-8	16	16	23	3	17	-7	1	3	30	4	-14	-3	4	6	21	4	-11	4	12	8	21	4	-8	2	40	40	84
3	13	-7	21	20	30	3	17	-6	4	5	37	4	-14	-2	17	17	24	4	-11	5	-4	11	52	4	-8	3	18	19	25
3	13	-6	26	24	35	3	17	-5	7	9	21	4	-14	-1	20	19	25	4	-11	6	5	5	34	4	-8	4	6	7	36
3	13	-5	11	13	16	3	17	-4	10	9	18	4	-14	0	16	16	23	4	-11	7	-6	4	47	4	-8	5	12	7	20
4	-8	6	15	13	27	4	-5	0	41	40	69	4	-2	-8	5	8	29	4	0	3	47	47	92	4	3	-8	11	10	15
4	-8	7	16	15	28	4	-5	1	-3	5	21	4	-2	-7	12	11	14	4	0	4	8	9	16	4	3	-7	10	10	12
4	-8	8	6	5	41	4	-5	2	-5	8	29	4	-2	-6	4	4	10	4	0	5	8	9	18	4	3	-6	8	9	11
4	-8	9	-7	3	48	4	-5	3	0	4	23	4	-2	-5	59	57	99	4	0	6	-4	2	37	4	3	-5	25	28	28
4	-7	-10	-2	1	33	4	-5	4	-4	2	29	4	-2	-4	110	106	99	4	0	7	10	9	25	4	3	-4	13	13	11
4	-7	-9	-3	1	33	4	-5	5	-5	10	42	4	-2	-3	78	77	99	4	0	8	10	12	31	4	3	-3	11	11	9
4	-7	-8	4	1	15	4	-5	6	18	20	29	4	-2	-2	22	21	22	4	0	9	8	10	28	4	3	-2	28	26	35
4	-7	-7	14	13	19	4	-5	7	-5	0	31	4	-2	-1	22	23	22	4	1	-12	-6	0	34	4	3	-1	-5	6	15
4	-7	-6	16	15	20	4	-5	8	6	9	55	4	-2	0	12	13	11	4	1	-11	4	1	34	4	3	0	5	5	8
4	-7	-5	6	5	13	4	-5	9	1	7	40	4	-2	1	23	24	27	4	1	-10	7	4	14	4	3	1	17	19	15
4	-7	-4	13	13	15	4	-4	-11	11	10	20	4	-2	2	33	33	57	4	1	-9	7	4	13	4	3	2	19	19	19
4	-7	-3	13	13	14	4	-4	-10	26	25	36	4	-2	3	49	47	96	4	1	-8	2	3	23	4	3	3	27	26	33
4	-7	-2	7	6	11	4	-4	-9	22	23	29	4	-2	4	26	27	36	4	1	-7	1	1	10	4	3	4	-2	8	30
4	-7	-1	15	16	16	4	-4	-8	10	12	18	4	-2	5	7	8	19	4	1	-6	13	15	14	4	3	5	19	19	26
4	-7	0	17	17	18	4	-4	-7	-7	3	29	4	-2	6	6	6	38	4	1	-5	-3	4	18	4	3	6	4	7	23
4	-7	1	3	3	18	4	-4	-6	-8	3	25	4	-2	7	-9	3	47	4	1	-4	25	24	34	4	3	7	-6	3	46
4	-7	2	45	44	92	4	-4	-5	32	30	55	4	-2	8	8	4	22	4	1	-3	18	18	18	4	3	8	5	5	36
4	-7	3	35	36	57	4	-4	-4	34	36	57	4	-2	9	2	5	48	4	1	-2	43	44	60	4	4	-12	-6	2	38
4	-7	4	14	12	19	4	-4	-3	16	18	14	4	-1	-12	5	1	33	4	1	-1	28	28	35	4	4	-11	6	6	17
4	-7	5	8	2	21	4	-4	-2	41	42	65	4	-1	-11	-3	6	36	4	1	0	18	20	15	4	4	-10	15	16	22
4	-7	6	18	17	28	4	-4	-1	28	28	32	4	-1	-10	5	4	17	4	1	1	18	18	18	4	4	-9	11	12	18
4	-7	7	4	4	28	4	-4	0	21	22	21	4	-1	-9	3	2	26	4	1	2	11	9	13	4	4	-8	27	27	39
4	-7	8	2	1	49	4	-4	1	22	20	23	4	-1	-8	2	1	17	4	1	3	17	15	20	4	4	-7	24	26	32
4	-7	9	7	7	53	4	-4	2	18	19	19	4	-1	-7	-5	6	28	4	1	4	12	11	17	4	4	-6	14	14	13
4	-6	-10	4	4	24	4	-4	3	27	26	40	4	-1	-6	16	17	16	4	1	5	13	13	20	4	4	-5	20	19	20
4	-6	-9	-6	4	35	4	-4	4	13	13	20	4	-1	-5	7	9	10	4	1	6	11	11	24	4	4	-4	36	36	52
4	-6	-8	10	10	18	4	-4	5	21	20	28	4	-1	-4	17	18	14	4	1	7	10	8	25	4	4	-3	45	45	69
4	-6	-7	19	18	23	4	-4	6	15	15	26	4	-1	-3	20	18	20	4	1	8	8	5	23	4	4	-2	32	34	41
4	-6	-6	16	16	19	4	-4	7	11	12	27	4	-1	-2	42	45	59	4	1	9	9	1	24	4	4	-1	41	41	60
4	-6	-5	22	20	25	4	-4	8	15	16	30	4	-1	-1	23	21	24	4	2	-12	4	4	34	4	4	0	28	27	39
4	-6	-4	18	17	17	4	-4	9	-2	6	39	4	-1	0	3	2	10	4	2	-11	3	5	34	4	4	1	10	11	11
4	-6	-3	15	14	15	4	-3	-11	9	8	20	4	-1	1	44	45	73	4	2	-10	12	11	19	4	4	2	29	30	39
4	-6	-2	28	28	35	4	-3	-10	9	7	22	4	-1	2	28	28	36	4	2	-9	17	17	21	4	4	3	8	7	14
4	-6	-1	39	37	66	4	-3	-9	9	8	18	4	-1	3	-5	1	26	4	2	-8	16	16	18	4	4	4	14	12	20
4	-6	0	46	47	86	4	-3	-8	3	1	13	4	-1	4	15	15	19	4	2	-7	13	12	13	4	4	5	7	10	19
4	-6	1	49	47	95	4	-3	-7	2	3	26	4	-1	5	3	1	33	4	2	-6	38	37	63	4	4	6	9	10	23
4	-6	2	46	45	91	4	-3	-6	17	16	17	4	-1	6	3	4	36	4	2	-5	28	30	41	4	4	7	9	10	28
4	-6	3	14	12	19	4	-3	-5	8	8	12	4	-1	7	11	9	24	4	2	-4	35	37	51	4	4	8	8	10	28
4	-6	4	-6	1	35	4	-3	-4	4	2	17	4	-1	8	16	17	34	4	2	-3	15	17	13	4	5	-12	-5	3	37
4	-6	5	10	9	18	4	-3	-3	24	24	27	4	-1	9	6	5	58	4	2	-2	2	2	7	4	5	-11	6	4	27
4	-6	6	17	16	25	4	-3	-2	20	19	19	4	0	-12	6	4	17	4	2	-1	7	5	7	4	5	-10	5	3	18
4	-6	7	21	22	33	4	-3	-1	30	28	42	4	0	-11	16	15	24	4	2	0	46	47	72	4	5	-9	3	2	17
4	-6	8	12	14	28	4	-3	0	53	50	92	4	0	-10	15	13	22	4	2	1	78	74	99	4	5	-8	-4	3	27
4	-6	9	6	2	46	4	-3	1	50	48	89	4	0	-9	-4	4	30	4	2	2	61	61	99	4	5	-7	18	18	18
4	-5	-11	-5	2	31	4	-3	2	4	6	24	4	0	-8	8	8	15	4	2	3	27	26	39	4	5	-6	4	3	20
4	-5	-10	3	2	25	4	-3	3	3	0	20	4	0	-7	7	8	12	4	2	4	19	19	26	4	5	-5	2	2	18
4	-5	-9	8	6	18	4	-3	4	-1	2	32	4	0	-6	31	31	50	4	2	5	-6	1	36	4	5	-4	15	15	15
4	-5	-8	10	7	17	4	-3	5	-3	3	31	4	0	-5	72	74	99	4	2	6	-3	2	38	4	5	-3	16	17	13
4	-5	-7	-7	1	32	4	-3	6	6	6	21	4	0	-4	114	110	99	4	2	7	15	17	30	4	5	-2	9	9	9
4	-5	-6	11	12	16	4	-3	7	18	19	30	4	0	-3	61	63	99	4	2	8	12	14	29	4	5	-1	11	8	9
4	-5	-5	9	9	13	4	-3	8	5	3	16	4	0	-2	23	24	27	4	2	9	9	8	24	4	5	0	26	25	30
4	-5	-4	4	1	19	4	-3	9	5	4	47	4	0	-1	24	23	29	4	3	-12	-3	3	35	4	5	1	5	9	25
4	-5	-3	-7	1	22	4	-2	-11	18	18	27	4	0	0	36	34	50	4	3	-11	-3	2	33	4	5	2	5	3	10
4	-5	-2	15	16	15	4	-2	-10	19	20	28	4	0	1	86	83	99	4	3	-10	6	3	32	4	5	3	15	13	18
4	-5	-1	46	44	80	4	-2	-9	13	11	19	4	0	2	92	91	99	4	3	-9	-1	2	28	4	5	4	4	2	15

h	k	l	Fo	Fc	sigF2
4	5	5	3	6	24
4	5	6	-6	7	45
4	5	7	7	9	26
4	5	8	-6	4	50
4	6	-12	6	6	35
4	6	-11	16	17	23
4	6	-10	29	30	42
4	6	-9	27	26	36
4	6	-8	7	8	14
4	6	-7	6	8	12
4	6	-6	5	3	10
4	6	-5	34	35	56
4	6	-4	72	68	99
4	6	-3	78	80	99
4	6	-2	39	37	59
4	6	-1	-3	4	16
4	6	0	20	20	21
4	6	1	30	27	40
4	6	2	29	29	40
4	6	3	46	45	93
4	6	4	24	22	31
4	6	5	-4	3	39
4	6	6	9	4	17
4	6	7	-2	4	37
4	6	8	-7	4	44
4	7	-12	6	5	18
4	7	-11	6	8	41
4	7	-10	6	1	17
4	7	-9	12	11	19
4	7	-8	34	33	50
4	7	-7	16	16	18
4	7	-6	10	10	13
4	7	-5	-2	0	24
4	7	-4	-6	2	21
4	7	-3	20	21	20
4	7	-2	10	10	10
4	7	-1	7	6	9
4	7	0	16	16	16
4	7	1	4	1	20
4	7	2	11	12	16
4	7	3	9	9	17
4	7	4	4	0	36
4	7	5	7	5	16
4	7	6	-6	0	39
4	7	7	4	0	34
4	8	-12	6	6	19
4	8	-11	18	18	27
4	8	-10	15	13	22
4	8	-9	5	7	27
4	8	-8	11	12	17
4	8	-7	10	9	15
4	8	-6	24	24	29
4	8	-5	44	45	81
4	8	-4	65	64	99
4	8	-3	54	54	99
4	8	-2	17	17	16
4	8	-1	21	20	22
4	8	0	9	8	13
4	8	1	30	27	43
4	8	2	39	40	82
4	8	3	34	36	55
4	8	4	17	18	24
4	8	5	3	1	29
4	8	6	2	1	21
4	8	7	-8	2	40
4	9	-12	8	8	19
4	9	-11	3	11	51
4	9	-10	2	5	38
4	9	-9	-8	4	36
4	9	-8	-3	2	30
4	9	-7	12	11	18
4	9	-6	12	10	16
4	9	-5	16	16	19
4	9	-4	16	16	16
4	9	-3	8	8	12
4	9	-2	25	23	30
4	9	-1	25	23	33
4	9	0	12	13	14
4	9	1	3	4	25
4	9	2	5	1	29
4	9	3	4	3	30
4	9	4	-5	1	33
4	9	5	-7	0	37
4	9	6	3	1	20
4	10	-12	-6	6	48
4	10	-11	3	4	26
4	10	-10	6	6	40
4	10	-9	7	5	16
4	10	-8	14	14	20
4	10	-7	12	12	20
4	10	-6	29	27	43
4	10	-5	28	28	39
4	10	-4	12	13	15
4	10	-3	4	4	10
4	10	-2	5	5	11
4	10	-1	4	1	12
4	10	0	10	11	15
4	10	1	29	29	45
4	10	2	25	24	34
4	10	3	9	10	18
4	10	4	2	2	16
4	10	5	8	5	15
4	10	6	2	1	28
4	11	-11	-3	5	41
4	11	-10	9	8	21
4	11	-9	5	1	34
4	11	-8	-3	2	35
4	11	-7	4	6	26
4	11	-6	14	16	21
4	11	-5	30	29	43
4	11	-4	18	18	19
4	11	-3	4	5	21
4	11	-2	19	19	20
4	11	-1	20	18	22
4	11	0	-7	2	28
4	11	1	21	19	25
4	11	2	18	18	23
4	11	3	3	2	17
4	11	4	6	7	17
4	11	5	3	8	31
4	12	-11	-5	1	40
4	12	-10	9	10	20
4	12	-9	15	15	24
4	12	-8	17	17	26
4	12	-7	19	18	26
4	12	-6	14	14	20
4	12	-5	15	15	18
4	12	-4	13	13	17
4	12	-3	20	19	21
4	12	-2	13	13	17
4	12	-1	19	18	22
4	12	0	18	18	21
4	12	1	11	13	17
4	12	2	12	11	17
4	12	3	6	5	15
4	12	4	4	1	27
4	12	5	-3	1	33
4	13	-11	-3	1	39
4	13	-10	-5	1	41
4	13	-9	-4	1	43
4	13	-8	-5	2	40
4	13	-7	4	5	43
4	13	-6	11	9	16
4	13	-5	7	9	14
4	13	-4	-6	1	28
4	13	-3	-4	1	30
4	13	-2	-4	6	31
4	13	-1	-2	2	29
4	13	0	9	10	17
4	13	1	12	12	19
4	13	2	7	8	16
4	13	3	-2	1	28
4	13	4	4	7	34
4	14	-10	4	6	37
4	14	-9	11	12	24
4	14	-8	10	9	22
4	14	-7	5	8	39
4	14	-6	4	6	33
4	14	-5	12	12	17
4	14	-4	15	15	20
4	14	-3	20	21	25
4	14	-2	23	25	27
4	14	-1	13	13	19
4	14	0	10	10	17
4	14	1	-6	6	35
4	14	2	5	5	29
4	14	3	-2	6	32
4	15	-9	-2	2	36
4	15	-8	-3	4	46
4	15	-7	-4	3	34
4	15	-6	-4	1	34
4	15	-5	-5	3	28
4	15	-4	3	0	17
4	15	-3	3	6	32
4	15	-2	5	1	30
4	15	-1	5	2	28
4	15	0	5	3	27
4	15	1	3	5	26
4	15	2	-2	2	28
4	16	-9	-5	1	43
4	16	-8	5	2	40
4	16	-7	-10	1	41
4	16	-6	4	7	33
4	16	-5	4	10	38
4	16	-4	13	13	18
4	16	-3	3	7	37
4	16	-2	6	5	15
4	16	-1	-10	4	37
4	16	0	8	6	15
4	16	1	9	10	18
4	17	-8	6	7	24
4	17	-7	4	5	19
4	17	-6	-9	6	40
4	17	-5	10	10	18
4	17	-4	3	7	33
4	17	-3	-4	2	32
4	17	-2	4	5	28
4	17	-1	5	2	30
4	17	0	3	0	29
4	18	-6	12	13	21
4	18	-5	15	14	21
4	18	-4	8	9	17
4	18	-3	4	1	20
4	18	-2	-7	4	36
4	18	-1	8	9	14
4	18	0	8	8	15
5	-17	-2	8	9	14
5	-17	-1	8	8	15
5	-17	0	5	7	29
5	-17	1	10	9	19
5	-17	2	10	10	20
5	-17	3	8	7	20
5	-17	4	6	7	19
5	-16	-4	-4	0	24
5	-16	-3	-2	3	28
5	-16	-2	3	1	28
5	-16	-1	3	2	32
5	-16	0	5	4	32
5	-16	1	-6	5	39
5	-16	2	4	7	37
5	-16	3	8	4	19
5	-16	4	6	3	19
5	-15	5	5	2	42
5	-15	-5	4	2	12
5	-15	-4	5	2	22
5	-15	-3	4	1	18
5	-15	-2	10	13	18
5	-15	-1	12	16	22
5	-15	0	8	9	18
5	-15	1	-7	2	39
5	-15	2	8	1	17
5	-15	3	-5	4	48
5	-15	4	-3	6	44
5	-15	5	-8	10	52
5	-15	6	6	7	38
5	-14	-6	4	2	19
5	-14	-5	-7	0	30
5	-14	-4	-1	4	27
5	-14	-3	-5	0	30
5	-14	-2	4	5	16
5	-14	-1	5	0	32
5	-14	0	4	4	19
5	-14	1	-6	1	36
5	-14	2	3	1	40
5	-14	3	-7	0	36
5	-14	4	8	7	24
5	-14	5	1	4	44
5	-14	6	0	1	20
5	-13	-7	3	3	25
5	-13	-6	3	1	14
5	-13	-5	5	4	27
5	-13	-4	8	9	14
5	-13	-3	20	20	26
5	-13	-2	22	21	28
5	-13	-1	20	19	25
5	-13	0	4	2	29
5	-13	1	2	4	38
5	-13	2	6	3	34
5	-13	3	6	5	20
5	-13	4	10	11	27
5	-13	5	9	11	25
5	-13	6	8	9	24
5	-13	7	5	0	36
5	-12	-7	1	4	27
5	-12	-6	-6	2	28
5	-12	-5	7	6	15
5	-12	-4	10	10	17
5	-12	-3	8	7	15
5	-12	-2	4	7	40
5	-12	-1	12	11	17
5	-12	0	5	1	31
5	-12	1	10	9	19
5	-12	2	3	4	40
5	-12	3	7	5	20
5	-12	4	6	1	41
5	-12	5	6	8	26
5	-12	6	3	1	45
5	-12	7	2	2	40
5	-11	-8	3	7	33
5	-11	-7	4	1	25
5	-11	-6	-5	1	29
5	-11	-5	17	18	22
5	-11	-4	22	22	26
5	-11	-3	38	38	77
5	-11	-2	35	35	55
5	-11	-1	23	23	27
5	-11	0	-6	5	31
5	-11	1	-5	1	34
5	-11	2	17	16	25
5	-11	3	21	21	30
5	-11	4	24	25	36
5	-11	5	16	14	28
5	-11	6	5	1	42
5	-11	7	4	1	43
5	-11	8	6	1	45
5	-10	-9	-4	1	31
5	-10	-8	4	1	15
5	-10	-7	4	3	18
5	-10	-6	-4	5	18
5	-10	-5	4	0	20
5	-10	-4	-7	4	31
5	-10	-3	4	5	25
5	-10	-2	7	6	14
5	-10	-1	8	10	16
5	-10	0	14	12	18
5	-10	1	10	7	17
5	-10	2	12	11	22
5	-10	3	12	10	24
5	-10	4	14	13	25
5	-10	5	-6	4	47
5	-10	6	-1	3	47
5	-10	7	-5	2	48
5	-10	8	7	1	24
5	-9	-9	-7	2	30
5	-9	-8	4	4	20
5	-9	-7	14	14	19
5	-9	-6	10	9	17
5	-9	-5	17	16	19
5	-9	-4	23	21	28
5	-9	-3	17	16	19
5	-9	-2	14	14	16
5	-9	-1	12	12	16
5	-9	0	21	21	24
5	-9	1	19	17	24
5	-9	2	46	46	99
5	-9	3	54	50	99
5	-9	4	25	27	36
5	-9	5	12	14	24
5	-9	6	5	6	41
5	-9	7	2	3	46
5	-9	8	-5	7	56
5	-8	-10	-2	3	23
5	-8	-9	6	6	17
5	-8	-8	-6	2	29
5	-8	-7	5	5	15
5	-8	-6	20	21	24
5	-8	-5	18	18	20
5	-8	-4	11	10	15
5	-8	-3	17	18	18
5	-8	-2	1	3	26
5	-8	-1	15	15	18
5	-8	0	17	18	20
5	-8	1	15	12	20
5	-8	2	10	9	18
5	-8	3	29	27	42
5	-8	4	3	6	22
5	-8	5	10	10	23
5	-8	6	15	12	26
5	-8	7	4	4	24
5	-8	8	-4	2	51
5	-7	-10	-7	2	38
5	-7	-9	2	6	38
5	-7	-8	19	17	24
5	-7	-7	21	21	25
5	-7	-6	15	16	17
5	-7	-5	-4	2	26
5	-7	-4	4	3	23
5	-7	-3	4	6	25
5	-7	-2	28	28	38
5	-7	-1	37	37	69
5	-7	0	41	45	79
5	-7	1	20	19	23
5	-7	2	15	14	22
5	-7	3	-6	5	37
5	-7	4	11	8	21
5	-7	5	17	16	27
5	-7	6	13	13	28
5	-7	7	5	9	55
5	-7	8	2	6	53
5	-7	9	3	5	49
5	-6	-10	13	12	22
5	-6	-9	19	17	26
5	-6	-8	3	2	22
5	-6	-7	7	7	17
5	-6	-6	10	7	13
5	-6	-5	12	12	15
5	-6	-4	12	13	15
5	-6	-3	39	40	72
5	-6	-2	-3	3	21
5	-6	-1	28	27	37
5	-6	0	39	39	73
5	-6	1	22	22	25
5	-6	2	-4	1	21
5	-6	3	24	23	30
5	-6	4	11	12	20
5	-6	5	13	9	23
5	-6	6	11	9	24
5	-6	7	4	8	34
5	-6	8	-6	6	58
5	-6	9	-1	4	47
5	-5	-11	5	4	34
5	-5	-10	15	16	23
5	-5	-9	22	21	28
5	-5	-8	19	18	24
5	-5	-7	20	19	24
5	-5	-6	11	10	14
5	-5	-5	7	9	12
5	-5	-4	11	10	13
5	-5	-3	21	21	23
5	-5	-2	32	33	54
5	-5	-1	70	68	99
5	-5	0	30	29	41
5	-5	1	20	20	21
5	-5	2	28	29	43
5	-5	3	11	8	18
5	-5	4	25	23	33
5	-5	5	26	26	37
5	-5	6	21	21	34
5	-5	7	-5	4	50
5	-5	8	5	1	52
5	-4	-11	5	5	37
5	-4	-10	10	11	20
5	-4	-9	9	8	18
5	-4	-8	-4	3	31
5	-4	-7	25	25	31
5	-4	-6	17	17	20
5	-4	-5	11	9	12
5	-4	-4	4	2	19
5	-4	-3	18	18	17
5	-4	-2	29	30	37
5	-4	-1	5	6	10
5	-4	0	18	18	17
5	-4	1	16	16	16
5	-4	2	3	3	20
5	-4	3	3	3	28
5	-4	4	-6	1	39
5	-4	5	15	18	26
5	-4	6	4	9	53
5	-4	7	-9	3	47
5	-4	8	-8	1	53
5	-4	9	-4	0	51
5	-3	-11	14	12	24
5	-3	-10	13	12	21
5	-3	-9	16	16	22
5	-3	-8	3	5	30
5	-3	-7	-1	1	21
5	-3	-6	10	12	13
5	-3	-5	34	35	57
5	-3	-4	56	56	99
5	-3	-3	97	97	99
5	-3	-2	48	46	84
5	-3	-1	36	37	56
5	-3	0	17	16	17
5	-3	1	-2	8	24
5	-3	2	46	45	92
5	-3	3	19	18	23
5	-3	4	25	25	32
5	-3	5	23	22	32
5	-3	6	14	16	26
5	-3	7	1	2	47
5	-3	8	6	7	54
5	-3	9	-5	1	49
5	-2	-12	-3	0	30
5	-2	-11	-3	1	34
5	-2	-10	5	6	16
5	-2	-9	3	4	29
5	-2	-8	-4	0	26
5	-2	-7	7	7	11
5	-2	-6	10	10	13
5	-2	-5	-5	2	20
5	-2	-4	34	35	54
5	-2	-3	19	19	18
5	-2	-2	21	20	24
5	-2	-1	33	32	48
5	-2	0	9	8	11
5	-2	1	12	13	14
5	-2	2	-7	2	28
5	-2	3	17	16	22
5	-2	4	4	5	25
5	-2	5	5	5	38
5	-2	6	7	12	55
5	-2	7	-5	5	45
5	-2	8	5	7	33
5	-2	9	-8	3	60
5	-1	-12	6	9	19
5	-1	-11	12	14	20
5	-1	-10	13	12	20
5	-1	-9	7	4	13
5	-1	-8	-6	1	26
5	-1	-7	-2	3	14
5	-1	-6	35	33	61
5	-1	-5	53	53	97
5	-1	-4	57	57	99
5	-1	-3	38	39	56
5	-1	-2	16	17	14
5	-1	-1	24	23	26
5	-1	0	43	43	72
5	-1	1	36	35	61
5	-1	2	42	44	83
5	-1	3	41	39	84
5	-1	4	25	25	33
5	-1	5	12	11	24
5	-1	6	-5	6	33
5	-1	7	10	9	24
5	-1	8	-10	4	62
5	-1	9	4	3	30
5	0	-12	-2	2	34
5	0	-11	7	6	17
5	0	-10	8	5	15
5	0	-9	13	14	16
5	0	-8	10	12	15
5	0	-7	-4	1	21
5	0	-6	15	16	15
5	0	-5	6	7	10
5	0	-4	3	1	14
5	0	-3	19	20	17
5	0	-2	31	31	41
5	0	-1	25	25	26
5	0	0	31	32	48
5	0	1	7	8	11
5	0	2	4	0	17
5	0	3	23	23	28
5	0	4	19	19	28
5	0	5	-5	1	36
5	0	6	14	13	28
5	0	7	6	4	46
5	0	8	5	4	50
5	1	-12	11	8	19
5	1	-11	7	6	16
5	1	-10	8	8	17
5	1	-9	-7	3	30
5	1	-8	12	14	15
5	1	-7	33	33	58
5	1	-6	64	66	99
5	1	-5	54	53	96
5	1	-4	16	17	13
5	1	-3	-3	5	16
5	1	-2	3	2	13
5	1	-1	18	16	16
5	1	0	48	49	82
5	1	1	71	72	99
5	1	2	59	57	99
5	1	3	30	30	49
5	1	4	7	5	18
5	1	5	5	4	42
5	1	6	4	4	45
5	1	7	15	14	31
5	1	8	13	13	31
5	2	-12	5	1	16
5	2	-11	4	2	32
5	2	-10	-5	3	32
5	2	-9	20	18	23
5	2	-8	9	10	13
5	2	-7	3	1	23
5	2	-6	17	16	16
5	2	-5	26	28	30
5	2	-4	25	25	27
5	2	-3	47	50	74
5	2	-2	15	13	12
5	2	-1	13	14	11
5	2	0	33	33	51

h	k	l	Fo	Fc	sigF2
5	2	1	16	15	16
5	2	2	6	5	14
5	2	3	9	7	16
5	2	4	5	4	18
5	2	5	10	10	22
5	2	6	7	11	58
5	2	7	14	11	29
5	2	8	6	1	44
5	3	-12	-4	1	32
5	3	-11	9	7	16
5	3	-10	17	19	24
5	3	-9	29	28	42
5	3	-8	17	18	18
5	3	-7	7	7	11
5	3	-6	4	7	14
5	3	-5	47	49	82
5	3	-4	41	41	64
5	3	-3	47	48	75
5	3	-2	49	47	78
5	3	-1	41	42	63
5	3	0	38	37	62
5	3	1	40	42	72
5	3	2	13	12	16
5	3	3	5	7	21
5	3	4	8	7	21
5	3	5	3	5	40
5	3	6	14	11	27
5	3	7	12	13	28
5	3	8	8	11	27
5	4	-12	-8	4	36
5	4	-11	9	9	18
5	4	-10	9	11	19
5	4	-9	12	12	17
5	4	-8	5	4	24
5	4	-7	10	12	13
5	4	-6	4	2	9
5	4	-5	-1	1	17
5	4	-4	7	7	9
5	4	-3	20	19	21
5	4	-2	28	30	40
5	4	-1	10	10	10
5	4	0	17	16	17
5	4	1	10	9	13
5	4	2	2	2	24
5	4	3	11	11	18
5	4	4	12	15	21
5	4	5	3	3	36
5	4	6	8	6	23
5	4	7	-3	4	43
5	4	8	3	2	38
5	5	-12	-6	2	37
5	5	-11	21	21	29
5	5	-10	25	24	31
5	5	-9	22	21	24
5	5	-8	8	9	13

h	k	l	Fo	Fc	sigF2
5	5	-7	21	21	23
5	5	-6	12	13	13
5	5	-5	8	10	10
5	5	-4	43	44	70
5	5	-3	45	48	73
5	5	-2	33	31	50
5	5	-1	21	20	20
5	5	0	15	15	14
5	5	1	9	9	13
5	5	2	18	18	20
5	5	3	16	18	21
5	5	4	20	23	28
5	5	5	14	15	23
5	5	6	3	8	38
5	5	7	6	1	39
5	6	-12	3	3	33
5	6	-11	6	8	19
5	6	-10	-2	5	24
5	6	-9	-3	0	29
5	6	-8	9	10	14
5	6	-7	18	19	20
5	6	-6	11	11	14
5	6	-5	11	10	13
5	6	-4	18	19	17
5	6	-3	19	20	19
5	6	-2	19	18	19
5	6	-1	9	10	11
5	6	0	18	19	19
5	6	1	-5	1	26
5	6	2	4	7	28
5	6	3	-6	4	37
5	6	4	4	5	27
5	6	5	4	3	33
5	6	6	4	3	35
5	6	7	3	0	35
5	7	-12	7	10	21
5	7	-11	14	16	23
5	7	-10	18	17	24
5	7	-9	12	11	16
5	7	-8	9	9	15
5	7	-7	7	8	13
5	7	-6	15	16	17
5	7	-5	53	54	99
5	7	-4	63	65	99
5	7	-3	38	37	61
5	7	-2	8	10	11
5	7	-1	26	27	32
5	7	0	23	23	27
5	7	1	19	17	21
5	7	2	33	33	52
5	7	3	26	25	33
5	7	4	13	12	20
5	7	5	-3	3	33
5	7	6	-6	1	39
5	7	7	3	2	33

h	k	l	Fo	Fc	sigF2
5	8	-12	5	4	39
5	8	-11	-6	3	38
5	8	-10	3	3	32
5	8	-9	-8	0	29
5	8	-8	8	8	14
5	8	-7	-1	3	32
5	8	-6	5	3	13
5	8	-5	5	8	26
5	8	-4	4	0	20
5	8	-3	8	7	11
5	8	-2	24	25	31
5	8	-1	15	15	16
5	8	0	12	11	14
5	8	1	9	10	16
5	8	2	7	6	16
5	8	3	2	3	35
5	8	4	-2	2	33
5	8	5	3	1	33
5	8	6	3	0	30
5	9	-12	8	9	21
5	9	-11	10	11	21
5	9	-10	18	17	24
5	9	-9	13	11	19
5	9	-8	12	12	16
5	9	-7	16	15	19
5	9	-6	23	23	29
5	9	-5	44	43	84
5	9	-4	54	54	99
5	9	-3	37	35	63
5	9	-2	3	3	18
5	9	-1	-4	1	24
5	9	0	12	10	15
5	9	1	27	28	35
5	9	2	39	37	82
5	9	3	24	23	31
5	9	4	5	4	30
5	9	5	5	5	34
5	9	6	-6	5	34
5	10	-12	3	1	36
5	10	-11	6	3	18
5	10	-10	-7	1	35
5	10	-9	4	3	31
5	10	-8	10	9	16
5	10	-7	13	13	19
5	10	-6	-5	5	32
5	10	-5	6	6	13
5	10	-4	-2	1	25
5	10	-3	3	3	26
5	10	-2	12	12	14
5	10	-1	3	1	25
5	10	0	-2	1	18
5	10	1	2	3	31
5	10	2	-6	3	35
5	10	3	5	3	30
5	10	4	2	0	35

h	k	l	Fo	Fc	sigF2
5	10	5	2	6	36
5	11	-11	2	3	26
5	11	-10	6	5	18
5	11	-9	9	10	19
5	11	-8	13	12	20
5	11	-7	23	22	29
5	11	-6	18	20	22
5	11	-5	20	20	22
5	11	-4	9	9	13
5	11	-3	9	10	15
5	11	-2	21	19	22
5	11	-1	19	19	21
5	11	0	24	24	32
5	11	1	24	24	29
5	11	2	14	17	21
5	11	3	-4	4	37
5	11	4	4	2	33
5	11	5	3	1	20
5	12	-11	10	8	20
5	12	-10	6	6	19
5	12	-9	-5	5	29
5	12	-8	2	1	24
5	12	-7	4	2	33
5	12	-6	5	3	28
5	12	-5	9	8	14
5	12	-4	17	17	20
5	12	-3	9	9	15
5	12	-2	7	8	14
5	12	-1	-8	4	34
5	12	0	4	1	14
5	12	1	9	8	16
5	12	2	9	8	17
5	12	3	-5	4	31
5	12	4	-3	1	26
5	13	-11	9	10	20
5	13	-10	9	9	21
5	13	-9	11	10	22
5	13	-8	-5	3	43
5	13	-7	-7	4	37
5	13	-6	-5	3	33
5	13	-5	7	5	14
5	13	-4	22	20	24
5	13	-3	16	15	21
5	13	-2	15	14	21
5	13	-1	11	11	16
5	13	0	5	6	31
5	13	1	5	4	23
5	13	2	3	7	33
5	13	3	4	7	23
5	14	-10	9	5	18
5	14	-9	-7	2	42
5	14	-8	3	9	47
5	14	-7	8	9	20
5	14	-6	4	1	15
5	14	-5	8	8	15

h	k	l	Fo	Fc	sigF2
5	14	-4	10	9	16
5	14	-3	-3	2	21
5	14	-2	6	6	15
5	14	-1	-3	1	32
5	14	0	-2	1	28
5	14	1	-5	4	33
5	14	2	4	5	28
5	15	-9	8	5	21
5	15	-8	-4	1	37
5	15	-7	8	6	18
5	15	-6	-3	2	29
5	15	-5	13	13	19
5	15	-4	24	24	28
5	15	-3	21	21	25
5	15	-2	5	5	29
5	15	-1	-5	2	31
5	15	0	-5	3	32
5	15	1	-5	3	27
5	16	-8	8	5	19
5	16	-7	5	1	16
5	16	-6	7	5	15
5	16	-5	-7	7	35
5	16	-4	7	7	18
5	16	-3	4	2	33
5	16	-2	8	8	16
5	16	-1	-3	5	34
5	16	0	-4	0	30
5	17	-7	-6	6	37
5	17	-6	11	11	19
5	17	-5	17	16	23
5	17	-4	11	13	19
5	17	-3	6	7	17
5	17	-2	4	2	29
5	17	-1	3	5	30
6	-17	-1	4	3	30
6	-17	0	5	4	30
6	-17	1	1	6	36
6	-17	2	5	8	33
6	-16	-3	3	2	22
6	-16	-2	2	2	29
6	-16	-1	5	7	34
6	-16	0	8	9	19
6	-16	1	10	10	22
6	-16	2	9	8	18
6	-16	3	-7	7	38
6	-16	4	-9	2	46
6	-15	-5	5	4	12
6	-15	-4	-1	0	27
6	-15	-3	4	6	29
6	-15	-2	5	1	14
6	-15	-1	6	2	14
6	-15	0	5	5	17
6	-15	1	12	9	19
6	-15	2	2	8	37
6	-15	3	-8	4	44

h	k	l	Fo	Fc	sigF2
6	-15	4	1	2	42
6	-15	5	6	3	42
6	-14	-6	3	2	24
6	-14	-5	3	2	24
6	-14	-4	9	9	15
6	-14	-3	20	21	24
6	-14	-2	14	16	21
6	-14	-1	16	15	22
6	-14	0	12	11	21
6	-14	1	1	4	35
6	-14	2	4	5	39
6	-14	3	11	9	23
6	-14	4	9	11	24
6	-14	5	6	6	44
6	-14	6	4	4	24
6	-13	-7	-6	0	26
6	-13	-6	3	5	29
6	-13	-5	-8	4	29
6	-13	-4	-4	3	27
6	-13	-3	5	2	27
6	-13	-2	3	1	29
6	-13	-1	-6	2	33
6	-13	0	-5	2	38
6	-13	1	-9	0	42
6	-13	2	-5	3	39
6	-13	3	-5	3	49
6	-13	4	-4	3	32
6	-13	5	-6	4	47
6	-13	6	2	4	41
6	-12	-7	-4	5	26
6	-12	-6	7	6	14
6	-12	-5	4	3	13
6	-12	-4	11	11	18
6	-12	-3	29	30	46
6	-12	-2	29	29	41
6	-12	-1	-6	3	39
6	-12	0	4	3	37
6	-12	1	-1	6	41
6	-12	2	1	6	28
6	-12	3	20	20	31
6	-12	4	23	23	36
6	-12	5	-2	10	49
6	-12	6	1	1	42
6	-12	7	-3	4	45
6	-11	-8	-3	1	25
6	-11	-7	5	0	14
6	-11	-6	4	4	13
6	-11	-5	1	4	24
6	-11	-4	10	9	15
6	-11	-3	9	9	17
6	-11	-2	-4	2	35
6	-11	-1	1	2	15
6	-11	0	10	8	18
6	-11	1	3	5	32
6	-11	2	4	1	18

h	k	l	Fo	Fc	sigF2
6	-11	3	6	6	32
6	-11	4	-2	1	33
6	-11	5	-6	3	50
6	-11	6	6	2	49
6	-11	7	1	5	47
6	-10	-9	5	7	33
6	-10	-8	12	9	16
6	-10	-7	9	9	15
6	-10	-6	6	7	14
6	-10	-5	5	2	12
6	-10	-4	11	11	16
6	-10	-3	17	17	22
6	-10	-2	29	30	44
6	-10	-1	14	12	19
6	-10	0	6	2	16
6	-10	1	6	5	16
6	-10	2	19	17	27
6	-10	3	25	26	36
6	-10	4	22	21	33
6	-10	5	12	14	27
6	-10	6	-10	2	54
6	-10	7	5	1	26
6	-9	-9	-4	3	32
6	-9	-8	6	4	14
6	-9	-7	2	4	29
6	-9	-6	-4	5	28
6	-9	-5	16	16	20
6	-9	-4	17	17	20
6	-9	-3	21	21	24
6	-9	-2	11	10	15
6	-9	-1	4	6	27
6	-9	0	-3	5	31
6	-9	1	-6	3	37
6	-9	2	21	22	29
6	-9	3	17	19	28
6	-9	4	10	9	23
6	-9	5	-5	2	48
6	-9	6	-10	4	51
6	-9	7	4	0	48
6	-9	8	2	1	33
6	-8	-10	2	4	22
6	-8	-9	9	10	17
6	-8	-8	17	17	22
6	-8	-7	16	16	20
6	-8	-6	22	22	26
6	-8	-5	12	12	17
6	-8	-4	12	12	15
6	-8	-3	22	21	23
6	-8	-2	24	25	29
6	-8	-1	29	29	43
6	-8	0	22	20	26
6	-8	1	24	24	33
6	-8	2	2	4	38
6	-8	3	17	18	27
6	-8	4	19	20	29

h	k	l	Fo	Fc	sigF2
6	-8	5	-1	7	47
6	-8	6	2	4	46
6	-8	7	-7	5	55
6	-8	8	-7	8	61
6	-7	-10	9	8	16
6	-7	-9	13	12	19
6	-7	-8	9	10	17
6	-7	-7	12	10	17
6	-7	-6	10	8	14
6	-7	-5	5	4	11
6	-7	-4	8	7	12
6	-7	-3	5	4	13
6	-7	-2	-7	1	29
6	-7	-1	8	8	16
6	-7	0	17	16	20
6	-7	1	21	22	26
6	-7	2	23	21	29
6	-7	3	19	21	28
6	-7	4	5	4	45
6	-7	5	-6	5	37
6	-7	6	5	2	44
6	-7	7	6	3	49
6	-7	8	-6	0	55
6	-6	-11	2	3	22
6	-6	-10	9	9	20
6	-6	-9	21	18	27
6	-6	-8	24	22	29
6	-6	-7	14	14	18
6	-6	-6	-8	2	27
6	-6	-5	5	2	10
6	-6	-4	11	9	13
6	-6	-3	25	25	34
6	-6	-2	44	44	84
6	-6	-1	58	59	99
6	-6	0	20	19	22
6	-6	1	9	8	15
6	-6	2	20	19	26
6	-6	3	-5	1	38
6	-6	4	22	19	30
6	-6	5	18	19	32
6	-6	6	12	12	28
6	-6	7	4	4	55
6	-6	8	5	1	52
6	-5	-11	4	5	20
6	-5	-10	11	10	19
6	-5	-9	-7	2	39
6	-5	-8	4	7	32
6	-5	-7	17	16	20
6	-5	-6	18	18	19
6	-5	-5	17	17	19
6	-5	-4	44	41	81
6	-5	-3	35	34	63
6	-5	-2	8	9	13
6	-5	-1	24	26	28
6	-5	0	15	12	18

h	k	l	Fo	Fc	sigF2
6	-5	1	16	14	19
6	-5	2	20	18	23
6	-5	3	-8	6	43
6	-5	4	2	5	48
6	-5	5	13	9	26
6	-5	6	8	7	24
6	-5	7	1	2	29
6	-5	8	6	6	45
6	-4	-11	-2	3	30
6	-4	-10	9	7	15
6	-4	-9	16	15	22
6	-4	-8	21	18	24
6	-4	-7	11	10	14
6	-4	-6	-6	4	24
6	-4	-5	12	11	14
6	-4	-4	30	28	39
6	-4	-3	51	52	96
6	-4	-2	62	61	99
6	-4	-1	28	29	37
6	-4	0	30	28	42
6	-4	1	26	26	33
6	-4	2	11	11	17
6	-4	3	13	12	23
6	-4	4	28	27	42
6	-4	5	29	26	44
6	-4	6	-4	12	60
6	-4	7	-3	2	49
6	-4	8	-5	5	54
6	-3	-11	8	5	18
6	-3	-10	8	6	14
6	-3	-9	-2	4	30
6	-3	-8	8	9	16
6	-3	-7	7	8	14
6	-3	-6	-3	4	24
6	-3	-5	17	18	17
6	-3	-4	27	27	35
6	-3	-3	0	0	17
6	-3	-2	18	18	17
6	-3	-1	39	38	69
6	-3	0	24	25	28
6	-3	1	15	13	18
6	-3	2	32	30	52
6	-3	3	12	12	21
6	-3	4	-5	5	42
6	-3	5	2	6	49
6	-3	6	6	10	52
6	-3	7	-4	3	53
6	-3	8	-5	6	38
6	-2	-12	9	7	17
6	-2	-11	8	7	16
6	-2	-10	10	9	17
6	-2	-9	11	12	17
6	-2	-8	17	17	20
6	-2	-7	19	19	20
6	-2	-6	23	24	25

h	k	l	Fo	Fc	sigF2
6	-2	-5	17	15	16
6	-2	-4	34	34	54
6	-2	-3	41	40	69
6	-2	-2	64	61	99
6	-2	-1	16	15	16
6	-2	0	4	2	12
6	-2	1	16	16	19
6	-2	2	26	25	35
6	-2	3	48	46	99
6	-2	4	33	34	52
6	-2	5	18	21	31
6	-2	6	-7	4	45
6	-2	7	6	2	40
6	-2	8	10	5	26
6	-1	-12	6	2	32
6	-1	-11	4	3	29
6	-1	-10	-1	4	32
6	-1	-9	7	8	15
6	-1	-8	8	7	15
6	-1	-7	4	1	23
6	-1	-6	4	0	13
6	-1	-5	10	9	12
6	-1	-4	3	4	16
6	-1	-3	2	4	16
6	-1	-2	6	4	9
6	-1	-1	15	14	15
6	-1	0	27	27	37
6	-1	1	-4	1	25
6	-1	2	8	7	17
6	-1	3	6	5	44
6	-1	4	5	4	42
6	-1	5	13	11	24
6	-1	6	6	4	48
6	-1	7	3	3	51
6	-1	8	7	4	24
6	0	-12	-4	1	39
6	0	-11	5	1	32
6	0	-10	7	5	15
6	0	-9	14	14	18
6	0	-8	31	31	44
6	0	-7	26	25	35
6	0	-6	18	17	18
6	0	-5	40	39	66
6	0	-4	23	25	27
6	0	-3	22	23	24
6	0	-2	45	45	74
6	0	-1	50	50	89
6	0	0	15	15	16
6	0	1	30	29	45
6	0	2	20	19	25
6	0	3	26	25	35
6	0	4	18	16	28
6	0	5	12	11	24
6	0	6	-2	7	52
6	0	7	-4	4	52

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	0	8	-3	4	48	6	3	1	31	33	45	6	6	-4	48	50	86	6	9	-5	13	12	17	6	12	0	10	11	19
6	1	-12	15	14	22	6	3	2	5	4	27	6	6	-3	48	47	85	6	9	-4	11	12	16	6	12	1	10	10	19
6	1	-11	3	2	31	6	3	3	30	30	44	6	6	-2	16	17	16	6	9	-3	29	27	40	6	12	2	10	7	16
6	1	-10	11	11	17	6	3	4	17	15	27	6	6	-1	11	10	14	6	9	-2	13	14	15	6	12	3	-1	5	34
6	1	-9	20	20	23	6	3	5	-5	3	45	6	6	0	12	11	15	6	9	-1	1	5	20	6	13	-10	6	10	49
6	1	-8	26	28	36	6	3	6	9	6	25	6	6	1	5	1	12	6	9	0	-5	2	28	6	13	-9	-3	3	29
6	1	-7	2	4	24	6	3	7	3	3	47	6	6	2	8	9	18	6	9	1	5	1	30	6	13	-8	-3	3	38
6	1	-6	30	30	38	6	4	-12	3	5	25	6	6	3	22	23	30	6	9	2	-9	1	39	6	13	-7	10	9	19
6	1	-5	27	27	32	6	4	-11	12	12	18	6	6	4	11	12	23	6	9	3	4	6	19	6	13	-6	-2	3	32
6	1	-4	5	5	9	6	4	-10	20	20	25	6	6	5	9	10	20	6	9	4	3	1	19	6	13	-5	2	7	36
6	1	-3	23	24	26	6	4	-9	18	19	21	6	6	6	-1	6	46	6	9	5	1	4	39	6	13	-4	12	13	18
6	1	-2	26	27	30	6	4	-8	11	11	15	6	7	-12	1	4	25	6	10	-12	6	1	16	6	13	-3	13	12	19
6	1	-1	36	34	59	6	4	-7	-2	1	24	6	7	-11	3	0	35	6	10	-11	4	6	26	6	13	-2	1	1	30
6	1	0	23	22	25	6	4	-6	6	6	10	6	7	-10	4	7	33	6	10	-10	15	13	21	6	13	-1	9	8	17
6	1	1	26	27	38	6	4	-5	-3	2	17	6	7	-9	10	10	16	6	10	-9	20	21	28	6	13	0	9	9	18
6	1	2	-4	5	30	6	4	-4	20	22	20	6	7	-8	17	17	20	6	10	-8	12	11	20	6	13	1	4	5	34
6	1	3	3	1	34	6	4	-3	45	46	76	6	7	-7	15	16	18	6	10	-7	12	12	18	6	13	2	4	3	27
6	1	4	-8	2	48	6	4	-2	48	48	82	6	7	-6	4	7	19	6	10	-6	22	21	25	6	14	-10	11	11	23
6	1	5	6	0	38	6	4	-1	32	32	53	6	7	-5	11	11	13	6	10	-5	22	22	24	6	14	-9	8	7	21
6	1	6	2	5	44	6	4	0	29	28	39	6	7	-4	17	17	17	6	10	-4	29	27	42	6	14	-8	-8	2	40
6	1	7	7	6	47	6	4	1	11	10	15	6	7	-3	2	3	21	6	10	-3	23	24	28	6	14	-7	4	3	20
6	1	8	-8	1	61	6	4	2	17	18	22	6	7	-2	6	4	11	6	10	-2	15	14	18	6	14	-6	3	2	21
6	2	-12	-5	1	33	6	4	3	12	9	20	6	7	-1	2	4	13	6	10	-1	14	13	18	6	14	-5	12	10	17
6	2	-11	9	8	16	6	4	4	13	12	23	6	7	0	3	3	26	6	10	0	22	22	27	6	14	-4	18	17	23
6	2	-10	13	12	18	6	4	5	21	20	32	6	7	1	-7	1	31	6	10	1	22	20	27	6	14	-3	20	19	26
6	2	-9	13	13	17	6	4	6	9	10	28	6	7	2	9	9	19	6	10	2	14	15	23	6	14	-2	4	7	31
6	2	-8	15	15	17	6	4	7	8	6	26	6	7	3	11	10	21	6	10	3	11	11	21	6	14	-1	-5	4	33
6	2	-7	38	38	68	6	5	-12	6	5	16	6	7	4	-4	1	26	6	10	4	4	5	35	6	14	0	5	4	17
6	2	-6	21	20	23	6	5	-11	-7	6	39	6	7	5	-6	3	38	6	11	-11	6	4	40	6	14	1	-4	1	27
6	2	-5	11	12	13	6	5	-10	8	8	15	6	7	6	-5	5	42	6	11	-10	5	9	43	6	14	2	5	5	31
6	2	-4	24	22	26	6	5	-9	4	5	17	6	8	-12	-3	6	37	6	11	-9	15	14	23	6	15	-9	-8	2	40
6	2	-3	6	7	8	6	5	-8	5	5	12	6	8	-11	8	11	20	6	11	-8	9	4	17	6	15	-8	-5	1	40
6	2	-2	18	17	17	6	5	-7	14	14	16	6	8	-10	12	11	21	6	11	-7	12	13	21	6	15	-7	-9	1	39
6	2	-1	68	69	99	6	5	-6	13	12	13	6	8	-9	2	4	18	6	11	-6	18	17	22	6	15	-6	-1	6	34
6	2	0	59	60	99	6	5	-5	14	15	15	6	8	-8	5	4	15	6	11	-5	15	16	20	6	15	-5	15	13	21
6	2	1	26	26	36	6	5	-4	23	25	28	6	8	-7	23	22	29	6	11	-4	10	8	14	6	15	-4	10	12	19
6	2	2	2	3	30	6	5	-3	19	21	19	6	8	-6	30	30	42	6	11	-3	14	13	18	6	15	-3	4	7	19
6	2	3	6	10	43	6	5	-2	7	7	10	6	8	-5	35	34	62	6	11	-2	16	17	21	6	15	-2	5	2	30
6	2	4	12	13	25	6	5	-1	29	28	37	6	8	-4	26	26	33	6	11	-1	3	3	26	6	15	-1	5	8	31
6	2	5	14	12	26	6	5	0	33	31	47	6	8	-3	12	13	14	6	11	0	7	7	17	6	15	0	-2	4	30
6	2	6	15	18	32	6	5	1	9	8	15	6	8	-2	12	10	15	6	11	1	7	7	18	6	15	1	5	2	25
6	2	7	9	8	30	6	5	2	7	5	17	6	8	-1	11	12	15	6	11	2	4	4	35	6	16	-8	-1	5	39
6	3	-12	7	7	17	6	5	3	3	7	39	6	8	0	12	13	17	6	11	3	-5	3	33	6	16	-7	5	5	34
6	3	-11	5	6	33	6	5	4	-1	5	36	6	8	1	21	21	26	6	11	4	7	7	15	6	16	-6	4	7	24
6	3	-10	25	24	34	6	5	5	5	3	39	6	8	2	26	25	37	6	12	-11	11	11	20	6	16	-5	13	12	20
6	3	-9	19	18	22	6	5	6	6	8	24	6	8	3	19	18	25	6	12	-10	16	17	25	6	16	-4	14	14	23
6	3	-8	5	7	13	6	5	7	-10	4	52	6	8	4	-2	4	38	6	12	-9	12	13	21	6	16	-3	11	11	21
6	3	-7	30	31	41	6	6	-12	10	11	21	6	8	5	6	6	19	6	12	-8	4	4	38	6	16	-2	2	3	30
6	3	-6	43	43	77	6	6	-11	13	11	19	6	9	-12	4	6	35	6	12	-7	10	10	19	6	16	-1	-4	6	34
6	3	-5	19	19	17	6	6	-10	18	17	22	6	9	-11	-6	5	39	6	12	-6	-5	2	28	6	17	-7	-3	3	32
6	3	-4	16	18	14	6	6	-9	15	14	19	6	9	-10	4	1	19	6	12	-5	12	11	17	6	17	-6	-7	2	34
6	3	-3	58	58	99	6	6	-8	11	11	15	6	9	-9	7	8	17	6	12	-4	19	19	22	6	17	-5	1	0	30
6	3	-2	12	12	12	6	6	-7	5	4	25	6	9	-8	6	5	14	6	12	-3	20	19	24	6	17	-4	4	1	32
6	3	-1	22	23	27	6	6	-6	14	13	16	6	9	-7	8	9	17	6	12	-2	14	14	19	6	17	-3	-6	2	33
6	3	0	27	26	35	6	6	-5	36	35	64	6	9	-6	-2	1	27	6	12	-1	13	11	18	7	-16	-3	5	3	12
7	-16	-2	10	10	15	7	-11	-5	-5	4	30	7	-8	-1	12	9	17	7	-5	-1	32	31	48	7	-2	-4	5	6	10
7	-16	-1	8	7	16	7	-11	-4	11	12	18	7	-8	0	5	1	32	7	-5	0	5	10	32	7	-2	-3	10	10	12
7	-16	0	5	1	32	7	-11	-3	14	14	19	7	-8	1	11	11	19	7	-5	1	-5	1	27	7	-2	-2	21	21	24
7	-16	1	10	9	17	7	-11	-2	6	5	15	7	-8	2	12	13	24	7	-5	2	7	9	20	7	-2	-1	18	17	19
7	-16	2	6	9	42	7	-11	-1	7	7	18	7	-8	3	19	18	28	7	-5	3	37	34	70	7	-2	0	23	22	29
7	-15	-4	5	6	13	7	-11	0	-5	1	30	7	-8	4	8	6	23	7	-5	4	22	22	36	7	-2	1	25	25	35
7	-15	-3	6	8	13	7	-11	1	-2	3	39	7	-8	5	9	7	26	7	-5	5	17	18	32	7	-2	2	2	9	38
7	-15	-2	10	11	18	7	-11	2	9	10	23	7	-8	6	10	7	26	7	-5	6	7	7	49	7	-2	3	17	14	25
7	-15	-1	7	8	18	7	-11	3	20	20	32	7	-8	7	-8	1	57	7	-5	7	3	2	53	7	-2	4	17	16	31
7	-15	0	13	12	20	7	-11	4	12	11	25	7	-7	-10	9	7	16	7	-4	-11	4	6	24	7	-2	5	8	6	24
7	-15	1	11	12	21	7	-11	5	4	5	45	7	-7	-9	15	15	21	7	-4	-10	1	1	31	7	-2	6	5	2	47
7	-15	2	5	7	41	7	-11	6	-10	1	56	7	-7	-8	17	18	23	7	-4	-9	-2	5	22	7	-2	7	-8	2	59
7	-15	3	6	3	37	7	-10	-9	5	1	26	7	-7	-7	6	6	14	7	-4	-8	-4	5	31	7	-1	-12	-3	3	30
7	-15	4	-8	3	44	7	-10	-8	11	8	16	7	-7	-6	-8	3	32	7	-4	-7	9	8	15	7	-1	-11	-6	5	33
7	-14	-6	5	2	11	7	-10	-7	12	11	18	7	-7	-5	21	20	24	7	-4	-6	18	18	20	7	-1	-10	-4	4	28
7	-14	-5	3	0	13	7	-10	-6	9	8	15	7	-7	-4	24	24	31	7	-4	-5	12	12	14	7	-1	-9	21	20	23
7	-14	-4	3	2	26	7	-10	-5	8	7	14	7	-7	-3	35	34	52	7	-4	-4	13	10	13	7	-1	-8	29	29	42
7	-14	-3	-11	0	39	7	-10	-4	16	16	20	7	-7	-2	35	35	54	7	-4	-3	15	13	16	7	-1	-7	30	31	42
7	-14	-2	-5	3	24	7	-10	-3	18	17	23	7	-7	-1	15	16	20	7	-4	-2	20	21	22	7	-1	-6	23	24	26
7	-14	-1	-1	2	28	7	-10	-2	6	5	14	7	-7	0	29	28	45	7	-4	-1	21	20	22	7	-1	-5	16	16	15
7	-14	0	4	9	41	7	-10	-1	18	17	24	7	-7	1	20	20	27	7	-4	0	5	1	26	7	-1	-4	8	8	11
7	-14	1	13	11	21	7	-10	0	15	17	23	7	-7	2	31	31	48	7	-4	1	-1	1	29	7	-1	-3	34	36	57
7	-14	2	7	8	20	7	-10	1	5	3	18	7	-7	3	20	19	30	7	-4	2	3	4	20	7	-1	-2	36	34	63
7	-14	3	-11	0	46	7	-10	2	14	14	25	7	-7	4	13	10	24	7	-4	3	8	11	24	7	-1	-1	38	39	72
7	-14	4	5	5	26	7	-10	3	21	20	33	7	-7	5	6	6	51	7	-4	4	-8	5	57	7	-1	0	19	16	21
7	-14	5	4	4	41	7	-10	4	5	6	32	7	-7	6	3	3	48	7	-4	5	6	5	52	7	-1	1	-10	4	38
7	-13	-6	5	4	28	7	-10	5	6	1	42	7	-7	7	-10	3	61	7	-4	6	-5	3	51	7	-1	2	13	12	22
7	-13	-5	-5	1	26	7	-10	6	4	5	33	7	-6	-10	-5	2	33	7	-4	7	4	1	55	7	-1	3	10	12	23
7	-13	-4	1	5	24	7	-10	7	-7	1	50	7	-6	-9	7	5	15	7	-3	-11	4	2	19	7	-1	4	23	23	36
7	-13	-3	4	4	16	7	-9	-9	11	12	17	7	-6	-8	8	7	15	7	-3	-10	4	4	28	7	-1	5	5	8	53
7	-13	-2	17	19	22	7	-9	-8	8	11	17	7	-6	-7	15	13	18	7	-3	-9	19	18	24	7	-1	6	5	4	49
7	-13	-1	19	19	26	7	-9	-7	7	7	14	7	-6	-6	20	18	22	7	-3	-8	23	23	28	7	-1	7	5	4	34
7	-13	0	8	8	18	7	-9	-6	5	5	12	7	-6	-5	7	8	14	7	-3	-7	18	18	20	7	0	-12	8	7	17
7	-13	1	9	10	21	7	-9	-5	10	11	16	7	-6	-4	4	4	25	7	-3	-6	9	10	14	7	0	-11	4	5	15
7	-13	2	13	14	24	7	-9	-4	14	14	18	7	-6	-3	11	11	16	7	-3	-5	24	25	27	7	0	-10	6	7	16
7	-13	3	-3	8	46	7	-9	-3	23	24	28	7	-6	-2	10	12	17	7	-3	-4	6	3	10	7	0	-9	14	14	19
7	-13	4	1	6	49	7	-9	-2	10	11	20	7	-6	-1	4	7	29	7	-3	-3	49	48	94	7	0	-8	15	15	18
7	-13	5	9	10	23	7	-9	-1	10	10	17	7	-6	0	13	15	19	7	-3	-2	51	51	98	7	0	-7	8	7	12
7	-12	-7	5	6	13	7	-9	0	-6	1	35	7	-6	1	33	31	54	7	-3	-1	41	40	81	7	0	-6	21	21	23
7	-12	-6	6	3	12	7	-9	1	-5	3	37	7	-6	2	12	12	21	7	-3	0	-7	5	33	7	0	-5	7	7	10
7	-12	-5	6	0	11	7	-9	2	12	12	23	7	-6	3	6	5	20	7	-3	1	-5	5	36	7	0	-4	29	29	45
7	-12	-4	3	6	30	7	-9	3	12	9	24	7	-6	4	-3	7	48	7	-3	2	-1	4	35	7	0	-3	-2	0	19
7	-12	-3	15	16	20	7	-9	4	1	7	55	7	-6	5	6	1	42	7	-3	3	27	25	39	7	0	-2	4	2	9
7	-12	-2	8	11	16	7	-9	5	3	2	50	7	-6	6	-5	2	50	7	-3	4	34	30	57	7	0	-1	3	5	21
7	-12	-1	5	1	26	7	-9	6	4	2	37	7	-6	7	6	6	54	7	-3	5	13	15	31	7	0	0	22	22	25
7	-12	0	5	2	26	7	-9	7	4	1	52	7	-5	-11	-1	0	31	7	-3	6	7	5	51	7	0	1	3	3	14
7	-12	1	4	3	36	7	-8	-10	-5	3	25	7	-5	-10	8	6	18	7	-3	7	-8	2	54	7	0	2	19	19	26
7	-12	2	5	4	43	7	-8	-9	2	5	30	7	-5	-9	12	11	19	7	-2	-12	4	3	25	7	0	3	12	13	25
7	-12	3	4	7	45	7	-8	-8	9	8	16	7	-5	-8	22	20	25	7	-2	-11	10	9	17	7	0	4	6	5	33
7	-12	4	-2	7	43	7	-8	-7	8	8	15	7	-5	-7	28	27	41	7	-2	-10	7	5	15	7	0	5	5	1	48
7	-12	5	5	1	36	7	-8	-6	7	7	13	7	-5	-6	5	1	21	7	-2	-9	-1	2	19	7	0	6	6	3	46
7	-12	6	4	2	30	7	-8	-5	17	18	20	7	-5	-5	9	8	14	7	-2	-8	6	7	23	7	0	7	-12	4	65
7	-11	-8	4	8	27	7	-8	-4	28	28	20	7	-5	-4	40	39	74	7	-2	-7	10	12	15	7	1	-12	5	2	15
7	-11	-7	-2	2	25	7	-8	-3	4	1	24	7	-5	-3	38	35	71	7	-2	-6	28	28	38	7	1	-11	6	5	16
7	-11	-6	6	4	13	7	-8	-2	6	10	16	7	-5	-2	49	50	99	7	-2	-5	4	4	15	7	1	-10	16	16	20

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
7	1	-9	22	23	26	7	3	6	7	6	25	7	6	4	-6	2	41	7	9	4	7	6	18	7	13	-2	13	12	19
7	1	-8	23	22	28	7	4	-12	6	7	18	7	6	5	-2	8	52	7	10	-12	2	4	23	7	13	-1	-5	3	31
7	1	-7	11	11	14	7	4	-11	8	9	15	7	6	6	7	9	24	7	10	-11	2	4	34	7	13	0	-2	1	32
7	1	-6	3	2	18	7	4	-10	13	13	18	7	7	-12	3	1	33	7	10	-10	15	15	23	7	13	1	-1	3	32
7	1	-5	0	5	16	7	4	-9	15	16	20	7	7	-11	3	1	26	7	10	-9	19	19	26	7	13	2	-5	5	39
7	1	-4	15	14	14	7	4	-8	2	6	20	7	7	-10	4	4	30	7	10	-8	9	9	17	7	14	-10	6	1	37
7	1	-3	34	36	55	7	4	-7	30	29	40	7	7	-9	13	12	18	7	10	-7	13	14	20	7	14	-9	-6	2	39
7	1	-2	55	54	99	7	4	-6	4	4	21	7	7	-8	21	21	25	7	10	-6	26	26	35	7	14	-8	-8	1	42
7	1	-1	38	39	69	7	4	-5	20	19	21	7	7	-7	16	17	20	7	10	-5	14	15	18	7	14	-7	-8	2	38
7	1	0	27	29	39	7	4	-4	44	43	78	7	7	-6	13	12	16	7	10	-4	1	2	26	7	14	-6	3	4	18
7	1	1	-5	3	32	7	4	-3	33	33	55	7	7	-5	13	14	16	7	10	-3	16	15	19	7	14	-5	-3	8	35
7	1	2	18	17	26	7	4	-2	3	1	19	7	7	-4	16	15	18	7	10	-2	19	19	24	7	14	-4	10	10	19
7	1	3	20	18	30	7	4	-1	38	39	71	7	7	-3	34	35	60	7	10	-1	4	5	34	7	14	-3	3	5	30
7	1	4	19	19	32	7	4	0	33	35	50	7	7	-2	44	44	84	7	10	0	-4	5	36	7	14	-2	4	2	25
7	1	5	12	12	31	7	4	1	8	8	17	7	7	-1	25	25	31	7	10	1	10	9	18	7	14	-1	-4	7	26
7	1	6	-5	5	54	7	4	2	-2	4	36	7	7	0	15	16	20	7	10	2	5	1	37	7	14	0	2	6	35
7	1	7	-9	7	61	7	4	3	14	13	23	7	7	1	12	12	19	7	10	3	8	6	19	7	14	1	-2	0	28
7	2	-12	1	2	30	7	4	4	-2	3	39	7	7	2	9	7	19	7	10	4	9	7	18	7	15	-9	-6	4	43
7	2	-11	8	5	15	7	4	5	8	8	24	7	7	3	14	13	23	7	11	-11	5	11	18	7	15	-8	-3	3	38
7	2	-10	14	15	19	7	4	6	8	7	26	7	7	4	18	18	30	7	11	-10	14	13	23	7	15	-7	-1	4	25
7	2	-9	14	14	18	7	5	-12	9	8	16	7	7	5	-10	3	49	7	11	-9	12	12	22	7	15	-6	7	7	18
7	2	-8	-3	5	28	7	5	-11	0	6	34	7	8	-12	12	10	19	7	11	-8	11	10	19	7	15	-5	10	9	18
7	2	-7	4	5	18	7	5	-10	4	5	15	7	8	-11	9	9	16	7	11	-7	-2	1	30	7	15	-4	4	9	39
7	2	-6	33	32	58	7	5	-9	18	18	21	7	8	-10	2	0	27	7	11	-6	1	1	31	7	15	-3	-2	8	40
7	2	-5	25	26	31	7	5	-8	29	30	43	7	8	-9	16	15	20	7	11	-5	7	10	17	7	15	-2	5	7	27
7	2	-4	6	7	10	7	5	-7	32	33	46	7	8	-8	21	20	25	7	11	-4	15	15	20	7	15	-1	1	3	23
7	2	-3	12	12	12	7	5	-6	31	33	54	7	8	-7	10	11	17	7	11	-3	20	19	24	7	16	-8	4	6	38
7	2	-2	19	20	19	7	5	-5	19	18	19	7	8	-6	-1	0	24	7	11	-2	15	16	22	7	16	-7	-1	5	36
7	2	-1	9	8	13	7	5	-4	14	15	16	7	8	-5	3	5	25	7	11	-1	13	11	20	7	16	-6	-5	3	37
7	2	0	18	17	19	7	5	-3	33	33	55	7	8	-4	8	7	14	7	11	0	9	7	17	7	16	-5	1	2	31
7	2	1	16	15	21	7	5	-2	36	35	62	7	8	-3	13	13	15	7	11	1	-2	3	33	7	16	-4	4	4	20
7	2	2	4	5	32	7	5	-1	30	30	42	7	8	-2	20	19	22	7	11	2	8	4	17	7	16	-3	-2	2	31
7	2	3	3	2	39	7	5	0	5	6	31	7	8	-1	17	18	22	7	11	3	5	5	26	7	16	-2	5	1	36
7	2	4	4	2	25	7	5	1	4	5	15	7	8	0	11	10	18	7	12	-11	6	4	35	8	-16	-1	6	6	16
7	2	5	5	5	53	7	5	2	3	1	23	7	8	1	-6	2	32	7	12	-10	11	9	17	8	-16	0	8	9	17
7	2	6	5	3	26	7	5	3	15	15	26	7	8	2	-3	1	30	7	12	-9	-4	5	43	8	-15	-4	5	4	28
7	2	7	7	1	25	7	5	4	15	17	28	7	8	3	4	5	29	7	12	-8	-2	0	34	8	-15	-3	4	2	17
7	3	-12	8	9	20	7	5	5	6	11	39	7	8	4	2	2	39	7	12	-7	10	10	20	8	-15	-2	5	2	32
7	3	-11	5	5	15	7	5	6	5	5	46	7	8	5	-7	1	37	7	12	-6	16	15	21	8	-15	-1	-4	3	32
7	3	-10	13	13	18	7	6	-12	-9	0	41	7	9	-12	4	3	32	7	12	-5	5	2	14	8	-15	0	7	8	18
7	3	-9	21	21	24	7	6	-11	-3	3	33	7	9	-11	6	4	34	7	12	-4	14	14	20	8	-15	1	6	8	46
7	3	-8	18	19	19	7	6	-10	-2	3	33	7	9	-10	14	13	19	7	12	-3	17	16	22	8	-15	2	-9	3	49
7	3	-7	14	13	16	7	6	-9	-5	4	23	7	9	-9	18	17	24	7	12	-2	-4	8	34	8	-14	-5	3	5	27
7	3	-6	3	5	23	7	6	-8	6	7	16	7	9	-8	15	14	21	7	12	-1	-2	9	27	8	-14	-4	4	1	18
7	3	-5	-4	2	21	7	6	-7	6	6	14	7	9	-7	9	9	17	7	12	0	18	18	25	8	-14	-3	4	1	28
7	3	-4	24	25	30	7	6	-6	7	8	13	7	9	-6	5	6	31	7	12	1	12	12	21	8	-14	-2	5	3	14
7	3	-3	34	33	56	7	6	-5	10	10	12	7	9	-5	8	9	14	7	12	2	5	2	30	8	-14	-1	8	8	19
7	3	-2	35	35	59	7	6	-4	14	15	15	7	9	-4	12	12	16	7	13	-10	9	9	21	8	-14	0	13	15	24
7	3	-1	23	22	26	7	6	-3	6	5	11	7	9	-3	4	5	27	7	13	-9	10	9	21	8	-14	1	11	14	22
7	3	0	16	17	19	7	6	-2	11	11	14	7	9	-2	10	10	17	7	13	-8	6	10	39	8	-14	2	6	8	21
7	3	1	12	10	18	7	6	-1	12	12	16	7	9	-1	18	17	24	7	13	-7	10	11	19	8	-14	3	6	3	44
7	3	2	4	1	18	7	6	0	16	16	20	7	9	0	10	10	18	7	13	-6	10	7	16	8	-13	-6	-4	1	24
7	3	3	12	10	22	7	6	1	7	7	17	7	9	1	10	11	20	7	13	-5	12	12	19	8	-13	-5	-7	0	27
7	3	4	10	10	24	7	6	2	15	15	25	7	9	2	6	11	43	7	13	-4	20	21	25	8	-13	-4	-6	1	27
7	3	5	12	15	31	7	6	3	7	10	20	7	9	3	-8	2	47	7	13	-3	21	19	27	8	-13	-3	-4	4	31
8	-13	-2	7	6	15	8	-9	-3	-6	1	30	8	-6	1	22	22	29	8	-3	1	6	5	18	8	0	-2	36	37	63
8	-13	-1	-5	5	35	8	-9	-2	20	21	26	8	-6	2	16	15	26	8	-3	2	8	9	22	8	0	-1	-1	2	27
8	-13	0	11	10	20	8	-9	-1	24	23	31	8	-6	3	15	12	25	8	-3	3	21	22	34	8	0	0	-4	3	29
8	-13	1	1	9	48	8	-9	0	6	6	19	8	-6	4	9	8	26	8	-3	4	11	11	27	8	0	1	8	4	18
8	-13	2	-8	1	39	8	-9	1	11	9	22	8	-6	5	-2	2	51	8	-3	5	3	0	55	8	0	2	5	8	33
8	-13	3	4	2	38	8	-9	2	18	18	29	8	-6	6	1	4	37	8	-3	6	-3	2	51	8	0	3	26	24	40
8	-13	4	-5	1	51	8	-9	3	13	13	25	8	-5	-11	-6	0	29	8	-3	7	-5	4	58	8	0	4	10	10	26
8	-12	-7	11	11	15	8	-9	4	4	2	34	8	-5	-10	4	3	14	8	-2	-12	9	7	17	8	0	5	6	7	55
8	-12	-6	4	8	30	8	-9	5	-3	8	62	8	-5	-9	9	8	17	8	-2	-11	3	4	30	8	0	6	5	1	58
8	-12	-5	7	6	13	8	-9	6	7	2	23	8	-5	-8	5	4	12	8	-2	-10	10	10	16	8	1	-12	-9	1	37
8	-12	-4	3	2	25	8	-8	-10	2	6	32	8	-5	-7	3	0	28	8	-2	-9	26	24	32	8	1	-11	2	4	27
8	-12	-3	8	7	15	8	-8	-9	8	8	14	8	-5	-6	6	6	13	8	-2	-8	25	25	32	8	1	-10	-5	2	28
8	-12	-2	7	8	17	8	-8	-8	-6	2	32	8	-5	-5	5	5	28	8	-2	-7	9	9	13	8	1	-9	15	15	18
8	-12	-1	14	15	22	8	-8	-7	5	5	13	8	-5	-4	16	18	21	8	-2	-6	7	8	12	8	1	-8	8	8	13
8	-12	0	17	17	27	8	-8	-6	-7	4	30	8	-5	-3	15	14	18	8	-2	-5	7	7	11	8	1	-7	16	15	17
8	-12	1	8	10	21	8	-8	-5	8	8	13	8	-5	-2	2	4	25	8	-2	-4	14	13	15	8	1	-6	13	11	14
8	-12	2	5	2	38	8	-8	-4	21	22	25	8	-5	-1	16	14	20	8	-2	-3	29	29	39	8	1	-5	21	19	23
8	-12	3	8	2	20	8	-8	-3	16	15	20	8	-5	0	20	17	26	8	-2	-2	40	38	77	8	1	-4	4	7	23
8	-12	4	-8	2	49	8	-8	-2	15	16	21	8	-5	1	5	7	36	8	-2	-1	23	23	27	8	1	-3	6	7	11
8	-12	5	5	5	26	8	-8	-1	2	1	29	8	-5	2	14	13	26	8	-2	0	9	8	17	8	1	-2	29	28	38
8	-11	-8	4	7	29	8	-8	0	3	8	39	8	-5	3	4	4	25	8	-2	1	10	6	18	8	1	-1	5	5	27
8	-11	-7	6	9	15	8	-8	1	19	18	29	8	-5	4	5	7	24	8	-2	2	12	13	26	8	1	0	11	12	17
8	-11	-6	1	4	26	8	-8	2	16	16	29	8	-5	5	-11	3	62	8	-2	3	16	13	30	8	1	1	13	12	20
8	-11	-5	4	6	31	8	-8	3	15	15	28	8	-5	6	-4	2	58	8	-2	4	15	16	32	8	1	2	17	16	28
8	-11	-4	11	12	18	8	-8	4	-9	3	55	8	-4	-11	-9	2	35	8	-2	5	-4	10	69	8	1	3	-8	10	61
8	-11	-3	-2	7	29	8	-8	5	-6	1	57	8	-4	-10	2	1	30	8	-2	6	2	2	30	8	1	4	8	3	25
8	-11	-2	12	9	18	8	-8	6	-8	2	53	8	-4	-9	9	8	16	8	-1	-12	4	1	30	8	1	5	-3	7	66
8	-11	-1	5	4	34	8	-7	-10	8	7	15	8	-4	-8	24	22	30	8	-1	-11	5	3	28	8	1	6	5	2	36
8	-11	0	-3	1	42	8	-7	-9	-6	1	30	8	-4	-7	21	21	25	8	-1	-10	-4	2	29	8	2	-12	6	6	15
8	-11	1	6	7	41	8	-7	-8	2	5	32	8	-4	-6	20	22	23	8	-1	-9	8	8	15	8	2	-11	5	8	31
8	-11	2	9	10	24	8	-7	-7	6	2	11	8	-4	-5	18	18	19	8	-1	-8	9	9	13	8	2	-10	10	11	16
8	-11	3	6	5	40	8	-7	-6	4	2	21	8	-4	-4	7	6	11	8	-1	-7	31	31	44	8	2	-9	21	22	25
8	-11	4	7	6	23	8	-7	-5	17	15	19	8	-4	-3	26	26	33	8	-1	-6	3	2	20	8	2	-8	30	30	43
8	-11	5	1	8	57	8	-7	-4	16	15	19	8	-4	-2	25	24	31	8	-1	-5	21	22	22	8	2	-7	22	21	27
8	-10	-8	3	6	26	8	-7	-3	1	4	30	8	-4	-1	33	32	52	8	-1	-4	27	26	36	8	2	-6	9	11	13
8	-10	-7	5	5	13	8	-7	-2	21	20	24	8	-4	0	32	32	53	8	-1	-3	23	24	26	8	2	-5	15	15	15
8	-10	-6	3	3	27	8	-7	-1	19	19	23	8	-4	1	25	27	35	8	-1	-2	3	2	21	8	2	-4	26	27	34
8	-10	-5	9	9	14	8	-7	0	13	10	20	8	-4	2	25	24	35	8	-1	-1	23	23	27	8	2	-3	30	31	40
8	-10	-4	13	13	17	8	-7	1	22	21	28	8	-4	3	-7	11	60	8	-1	0	35	33	58	8	2	-2	41	42	77
8	-10	-3	17	21	24	8	-7	2	25	25	37	8	-4	4	10	12	29	8	-1	1	8	8	19	8	2	-1	23	23	28
8	-10	-2	17	16	23	8	-7	3	0	4	27	8	-4	5	8	7	28	8	-1	2	8	6	20	8	2	0	11	9	16
8	-10	-1	-6	2	37	8	-7	4	4	9	38	8	-4	6	8	6	27	8	-1	3	17	14	31	8	2	1	9	9	19
8	-10	0	12	9	19	8	-7	5	7	10	61	8	-4	7	6	3	25	8	-1	4	11	12	30	8	2	2	10	9	21
8	-10	1	14	11	24	8	-7	6	-3	4	51	8	-3	-11	9	8	18	8	-1	5	4	0	34	8	2	3	11	12	28
8	-10	2	13	13	26	8	-6	-10	-2	1	29	8	-3	-10	9	9	18	8	-1	6	13	9	32	8	2	4	16	14	32
8	-10	3	9	8	24	8	-6	-9	6	7	15	8	-3	-9	8	9	17	8	0	-12	-4	2	25	8	2	-5	-5	7	51
8	-10	4	4	7	51	8	-6	-8	10	10	15	8	-3	-8	7	5	13	8	0	-11	7	7	16	8	2	-6	-4	1	54
8	-10	5	3	3	44	8	-6	-7	12	13	16	8	-3	-7	13	12	17	8	0	-10	12	14	17	8	3	-12	2	6	35
8	-10	6	-6	5	51	8	-6	-6	30	30	44	8	-3	-6	12	12	15	8	0	-9	23	23	27	8	3	-11	5	7	28
8	-9	-9	9	8	16	8	-6	-5	21	20	25	8	-3	-5	23	23	28	8	0	-8	19	17	21	8	3	-10	5	5	14
8	-9	-8	9	9	15	8	-6	-4	19	19	21	8	-3	-4	12	11	15	8	0	-7	-2	1	21	8	3	-9	-9	3	31
8	-9	-7	12	12	17	8	-6	-3	17	16	20	8	-3	-3	23	24	28	8	0	-6	15	15	17	8	3	-8	8	7	14
8	-9	-6	3	4	26	8	-6	-2	23	14	27	8	-3	-2	17	15	20	8	0	-5	2	4	24	8	3	-7	-3	1	26
8	-9	-5	18	17	21	8	-6	-1	20	19	24	8	-3	-1	9	8	17	8	0	-4	28	27	36	8	3	-6	5	5	12
8	-9	-4	19	19	23	8	-6	0	8	7	18	8	-3	0	6	8	18	8	0	-3	45	44	62	8	3	-5	8	8	12

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
8	3	-4	9	10	12	8	6	-4	-3	1	21	8	9	-1	11	10	19	8	13	-2	-3	1	31	9	-11	-6	6	7	14
8	3	-3	5	3	10	8	6	-3	26	25	32	8	9	0	4	0	32	8	13	-1	3	3	40	9	-11	-5	3	3	27
8	3	-2	-3	1	26	8	6	-2	38	37	74	8	9	1	-5	4	35	8	13	0	6	5	36	9	-11	-4	3	1	28
8	3	-1	10	9	15	8	6	-1	37	37	57	8	9	2	7	6	18	8	14	-9	4	7	46	9	-11	-3	9	5	16
8	3	0	19	19	23	8	6	0	28	29	40	8	9	3	5	2	36	8	14	-8	14	13	24	9	-11	-2	19	19	26
8	3	1	18	21	25	8	6	1	5	5	17	8	10	-11	-8	8	41	8	14	-7	14	15	23	9	-11	-1	20	22	29
8	3	2	12	13	23	8	6	2	7	2	17	8	10	-10	11	10	20	8	14	-6	10	11	20	9	-11	0	19	18	28
8	3	3	-9	0	43	8	6	3	5	8	43	8	10	-9	11	10	20	8	14	-5	2	5	33	9	-11	1	5	11	53
8	3	4	6	2	40	8	6	4	6	9	51	8	10	-8	8	7	17	8	14	-4	3	2	34	9	-11	2	-10	1	52
8	3	5	-4	3	54	8	6	5	6	7	25	8	10	-7	3	3	22	8	14	-3	9	9	19	9	-11	3	7	4	21
8	3	6	3	0	44	8	7	-12	4	8	37	8	10	-6	0	3	28	8	14	-2	14	13	20	9	-11	4	-9	4	49
8	4	-12	-2	4	34	8	7	-11	6	7	16	8	10	-5	-3	3	31	8	14	-1	12	12	19	9	-10	-8	3	4	20
8	4	-11	5	1	29	8	7	-10	-2	3	29	8	10	-4	22	23	25	8	15	-8	-5	7	48	9	-10	-7	4	3	24
8	4	-10	-8	1	30	8	7	-9	10	10	17	8	10	-3	23	23	28	8	15	-7	4	3	33	9	-10	-6	4	0	25
8	4	-9	4	8	31	8	7	-8	7	6	16	8	10	-2	14	13	21	8	15	-6	6	1	17	9	-10	-5	5	3	27
8	4	-8	32	32	49	8	7	-7	7	5	14	8	10	-1	9	8	16	8	15	-5	-5	1	33	9	-10	-4	8	8	15
8	4	-7	38	36	71	8	7	-6	-3	3	27	8	10	0	-9	1	35	8	15	-4	-2	2	38	9	-10	-3	11	9	18
8	4	-6	25	23	34	8	7	-5	7	2	12	8	10	1	4	2	28	8	15	-3	-2	0	32	9	-10	-2	3	2	23
8	4	-5	12	13	14	8	7	-4	-4	0	26	8	10	2	4	4	26	8	15	-2	4	1	33	9	-10	-1	3	1	20
8	4	-4	17	17	18	8	7	-3	2	0	26	8	10	3	-4	6	38	8	16	-6	5	1	33	9	-10	0	-1	2	41
8	4	-3	29	28	38	8	7	-2	-7	3	32	8	11	-11	-3	3	40	8	16	-5	4	2	31	9	-10	1	6	2	19
8	4	-2	29	30	42	8	7	-1	-10	3	39	8	11	-10	7	8	19	8	16	-4	4	4	32	9	-10	2	5	1	42
8	4	-1	34	35	51	8	7	0	14	14	21	8	11	-9	9	8	21	9	-15	-2	-1	2	28	9	-10	3	8	6	23
8	4	0	12	10	18	8	7	1	4	5	42	8	11	-8	-8	5	38	9	-15	-1	5	7	34	9	-10	4	6	5	44
8	4	1	2	3	32	8	7	2	4	0	33	8	11	-7	4	0	36	9	-15	0	9	10	20	9	-10	5	4	5	49
8	4	2	13	12	23	8	7	3	-10	4	54	8	11	-6	-9	2	34	9	-14	-4	-6	1	26	9	-9	-9	2	1	16
8	4	3	12	12	25	8	7	4	-5	5	38	8	11	-5	6	3	13	9	-14	-3	3	3	15	9	-9	-8	6	2	12
8	4	4	11	12	28	8	8	-12	2	2	16	8	11	-4	16	17	23	9	-14	-2	-6	3	33	9	-9	-7	2	2	26
8	4	5	6	7	39	8	8	-11	5	2	15	8	11	-3	23	21	29	9	-14	-1	6	7	19	9	-9	-6	8	9	15
8	5	-12	-3	1	29	8	8	-10	11	14	20	8	11	-2	9	10	19	9	-14	0	5	8	31	9	-9	-5	19	18	22
8	5	-11	4	3	34	8	8	-9	26	27	33	8	11	-1	-2	2	30	9	-14	1	3	7	43	9	-9	-4	20	20	25
8	5	-10	5	3	14	8	8	-8	24	24	29	8	11	0	12	12	22	9	-14	2	-4	4	37	9	-9	-3	6	6	17
8	5	-9	2	5	27	8	8	-7	10	10	16	8	11	1	9	10	19	9	-13	-6	13	13	17	9	-9	-2	8	8	18
8	5	-8	7	5	14	8	8	-6	-6	2	28	8	11	2	6	4	16	9	-13	-5	3	7	26	9	-9	-1	22	21	29
8	5	-7	13	14	16	8	8	-5	5	3	25	8	12	-11	-2	5	41	9	-13	-4	6	1	12	9	-9	0	10	10	21
8	5	-6	8	10	13	8	8	-4	-3	1	25	8	12	-10	4	7	23	9	-13	-3	6	3	14	9	-9	1	13	12	25
8	5	-5	17	15	18	8	8	-3	16	15	19	8	12	-9	10	10	21	9	-13	-2	7	7	17	9	-9	2	12	13	24
8	5	-4	4	4	16	8	8	-2	31	31	47	8	12	-8	13	11	21	9	-13	-1	12	13	21	9	-9	3	9	9	24
8	5	-3	4	1	19	8	8	-1	20	20	25	8	12	-7	12	11	19	9	-13	0	14	14	24	9	-9	4	4	6	51
8	5	-2	13	13	17	8	8	0	4	5	22	8	12	-6	11	12	19	9	-13	1	7	8	23	9	-9	5	-5	8	60
8	5	-1	-6	2	27	8	8	1	5	1	34	8	12	-5	6	8	17	9	-13	2	3	1	37	9	-8	-9	3	4	22
8	5	0	9	9	18	8	8	2	6	1	17	8	12	-4	8	9	17	9	-13	3	4	3	48	9	-8	-8	5	6	27
8	5	1	8	8	19	8	8	3	9	8	22	8	12	-3	12	14	20	9	-12	-7	3	1	16	9	-8	-7	5	7	14
8	5	2	10	11	21	8	8	4	6	12	46	8	12	-2	10	10	19	9	-12	-6	-3	3	24	9	-8	-6	2	4	17
8	5	3	8	2	18	8	9	-12	4	0	28	8	12	-1	3	5	36	9	-12	-5	-6	1	25	9	-8	-5	15	14	19
8	5	4	-5	1	37	8	9	-11	3	5	24	8	12	0	5	2	30	9	-12	-4	1	2	28	9	-8	-4	5	6	26
8	5	5	-3	4	46	8	9	-10	12	12	20	8	12	1	4	1	23	9	-12	-3	-4	1	33	9	-8	-3	-6	2	34
8	6	-12	5	5	30	8	9	-9	16	16	23	8	13	-10	-2	3	38	9	-12	-2	-7	2	34	9	-8	-2	14	13	20
8	6	-11	9	8	16	8	9	-8	13	12	19	8	13	-9	5	3	36	9	-12	-1	11	9	20	9	-8	-1	12	11	21
8	6	-10	-3	4	30	8	9	-7	6	1	13	8	13	-8	3	2	36	9	-12	0	8	9	22	9	-8	0	10	8	23
8	6	-9	14	15	20	8	9	-6	16	16	21	8	13	-7	-5	4	36	9	-12	1	-7	0	45	9	-8	1	19	18	31
8	6	-8	25	25	33	8	9	-5	24	23	30	8	13	-6	-4	1	23	9	-12	2	-7	0	42	9	-8	2	11	11	25
8	6	-7	32	31	47	8	9	-4	10	10	14	8	13	-5	-6	3	35	9	-12	3	-2	2	30	9	-8	3	-7	1	49
8	6	-6	12	11	16	8	9	-3	-4	3	30	8	13	-4	5	7	24	9	-12	4	5	3	44	9	-8	4	6	1	46
8	6	-5	7	6	12	8	9	-2	17	17	22	8	13	-3	10	9	17	9	-11	-7	8	7	13	9	-8	5	7	1	25
9	-7	-10	4	2	13	9	-4	-6	11	10	15	9	-1	-6	-2	7	28	9	2	-5	9	9	13	9	5	-3	10	10	16
9	-7	-9	8	6	13	9	-4	-5	3	3	25	9	-1	-5	7	7	13	9	2	-4	13	14	16	9	5	-2	25	25	32
9	-7	-8	4	1	24	9	-4	-4	10	9	15	9	-1	-4	25	28	31	9	2	-3	-4	3	26	9	5	-1	27	27	38
9	-7	-7	11	12	17	9	-4	-3	8	9	15	9	-1	-3	32	32	47	9	2	-2	17	16	20	9	5	0	26	27	36
9	-7	-6	23	23	27	9	-4	-2	7	3	15	9	-1	-2	30	30	45	9	2	-1	19	19	24	9	5	1	12	13	21
9	-7	-5	23	24	27	9	-4	-1	-5	1	32	9	-1	-1	25	22	34	9	2	0	3	3	20	9	5	2	6	4	40
9	-7	-4	15	16	19	9	-4	0	8	8	19	9	-1	0	4	5	39	9	2	1	10	8	21	9	5	3	3	4	44
9	-7	-3	8	7	15	9	-4	1	15	13	25	9	-1	1	9	10	22	9	2	2	10	10	24	9	5	4	-8	3	48
9	-7	-2	17	18	23	9	-4	2	6	4	46	9	-1	2	2	6	48	9	2	3	4	5	50	9	6	-12	3	2	18
9	-7	-1	2	5	37	9	-4	3	6	1	24	9	-1	3	4	11	64	9	2	4	7	5	56	9	6	-11	5	4	13
9	-7	0	20	19	28	9	-4	4	6	0	25	9	-1	4	10	10	29	9	2	5	-9	5	56	9	6	-10	4	1	23
9	-7	1	19	20	30	9	-4	5	-3	3	53	9	-1	5	4	7	69	9	3	-12	6	6	13	9	6	-9	10	9	17
9	-7	2	17	16	28	9	-4	6	6	4	54	9	0	-12	5	5	31	9	3	-11	-2	2	30	9	6	-8	5	9	32
9	-7	3	-2	5	54	9	-3	-11	5	1	14	9	0	-11	5	2	26	9	3	-10	-4	1	29	9	6	-7	11	12	16
9	-7	4	7	1	23	9	-3	-10	5	4	31	9	0	-10	-4	3	27	9	3	-9	-3	1	27	9	6	-6	10	6	13
9	-7	5	6	2	55	9	-3	-9	16	15	21	9	0	-9	-6	0	33	9	3	-8	17	17	21	9	6	-5	10	11	16
9	-6	-10	4	1	18	9	-3	-8	26	25	34	9	0	-8	18	18	21	9	3	-7	34	33	51	9	6	-4	13	12	17
9	-6	-9	1	2	27	9	-3	-7	26	27	34	9	0	-7	23	23	28	9	3	-6	28	28	41	9	6	-3	17	17	20
9	-6	-8	-2	3	27	9	-3	-6	12	12	15	9	0	-6	29	27	40	9	3	-5	25	25	30	9	6	-2	-9	1	36
9	-6	-7	7	3	13	9	-3	-5	7	8	13	9	0	-5	14	14	17	9	3	-4	14	15	17	9	6	-1	7	5	18
9	-6	-6	-1	3	25	9	-3	-4	9	10	15	9	0	-4	25	26	30	9	3	-3	14	14	16	9	6	0	4	3	23
9	-6	-5	3	4	27	9	-3	-3	11	11	15	9	0	-3	-2	0	21	9	3	-2	13	14	18	9	6	1	3	4	22
9	-6	-4	8	6	14	9	-3	-2	23	23	28	9	0	-2	9	8	14	9	3	-1	14	16	21	9	6	2	-7	3	42
9	-6	-3	8	7	14	9	-3	-1	28	27	39	9	0	-1	23	25	28	9	3	0	22	23	28	9	6	3	9	7	21
9	-6	-2	-1	4	31	9	-3	0	29	29	44	9	0	0	18	18	26	9	3	1	18	18	28	9	6	4	2	4	48
9	-6	-1	8	6	19	9	-3	1	19	16	30	9	0	1	11	11	23	9	3	2	15	16	27	9	7	-12	-3	1	27
9	-6	0	4	5	34	9	-3	2	-5	9	50	9	0	2	34	30	58	9	3	3	7	8	24	9	7	-11	-5	4	29
9	-6	1	-4	9	45	9	-3	3	10	11	25	9	0	3	13	14	32	9	3	4	5	4	28	9	7	-10	13	10	19
9	-6	2	10	9	25	9	-3	4	7	1	51	9	0	4	5	2	29	9	3	5	-5	2	58	9	7	-9	28	28	38
9	-6	3	-6	2	56	9	-3	5	-6	6	68	9	0	5	5	5	29	9	4	-12	5	3	26	9	7	-8	28	27	38
9	-6	4	-6	9	61	9	-3	6	10	11	29	9	1	-12	10	10	18	9	4	-11	10	10	15	9	7	-7	9	7	15
9	-6	5	-5	6	57	9	-2	-11	3	1	28	9	1	-11	11	10	17	9	4	-10	8	8	15	9	7	-6	9	6	15
9	-5	-11	-4	1	25	9	-2	-10	5	5	25	9	1	-10	12	12	17	9	4	-9	-3	2	17	9	7	-5	12	12	17
9	-5	-10	0	1	19	9	-2	-9	4	6	29	9	1	-9	12	11	16	9	4	-8	6	1	13	9	7	-4	6	4	13
9	-5	-9	3	2	25	9	-2	-8	8	10	16	9	1	-8	1	7	26	9	4	-7	12	11	17	9	7	-3	22	21	26
9	-5	-8	4	7	27	9	-2	-7	11	11	16	9	1	-7	-2	3	24	9	4	-6	2	3	25	9	7	-2	29	26	47
9	-5	-7	17	16	20	9	-2	-6	7	10	14	9	1	-6	25	25	30	9	4	-5	4	1	16	9	7	-1	9	11	19
9	-5	-6	21	21	24	9	-2	-5	39	38	75	9	1	-5	27	26	39	9	4	-4	5	5	27	9	7	0	-8	1	37
9	-5	-5	26	25	33	9	-2	-4	17	18	19	9	1	-4	29	28	40	9	4	-3	7	7	13	9	7	1	3	1	31
9	-5	-4	10	8	14	9	-2	-3	20	19	23	9	1	-3	31	31	44	9	4	-2	-4	2	28	9	7	2	-4	1	43
9	-5	-3	3	3	17	9	-2	-2	2	4	21	9	1	-2	-4	3	27	9	4	-1	-6	3	32	9	7	3	8	8	21
9	-5	-2	9	7	17	9	-2	-1	8	8	19	9	1	-1	4	3	27	9	4	0	13	13	21	9	8	-12	-2	4	33
9	-5	-1	16	16	23	9	-2	0	3	2	20	9	1	0	5	4	31	9	4	1	-3	3	39	9	8	-11	-1	4	24
9	-5	0	27	28	38	9	-2	1	17	15	29	9	1	1	5	3	24	9	4	2	3	2	25	9	8	-10	3	3	22
9	-5	1	25	27	38	9	-2	2	7	10	25	9	1	2	15	14	31	9	4	3	-3	1	42	9	8	-9	7	8	17
9	-5	2	16	17	28	9	-2	3	6	6	48	9	1	3	15	13	31	9	4	4	-5	3	46	9	8	-8	12	12	19
9	-5	3	-7	5	45	9	-2	4	4	3	42	9	1	4	12	9	29	9	5	-12	1	4	31	9	8	-7	3	9	25
9	-5	4	8	7	24	9	-2	5	4	0	47	9	1	5	4	2	47	9	5	-11	5	7	16	9	8	-6	4	3	28
9	-5	5	3	2	45	9	-2	6	-3	1	39	9	2	-12	7	8	16	9	5	-10	5	3	27	9	8	-5	12	12	16
9	-5	6	4	4	54	9	-1	-12	3	1	15	9	2	-11	-6	0	28	9	5	-9	22	22	26	9	8	-4	10	10	16
9	-4	-11	8	9	15	9	-1	-11	7	7	15	9	2	-10	-4	3	26	9	5	-8	22	22	26	9	8	-3	-4	4	34
9	-4	-10	10	9	17	9	-1	-10	17	16	20	9	2	-9	8	6	13	9	5	-7	22	22	26	9	8	-2	5	5	32
9	-4	-9	-6	0	27	9	-1	-9	17	17	20	9	2	-8	8	8	14	9	5	-6	12	14	17	9	8	-1	10	8	20
9	-4	-8	3	4	25	9	-1	-8	8	10	15	9	2	-7	16	15	19	9	5	-5	6	2	12	9	8	0	-6	1	43
9	-4	-7	9	9	15	9	-1	-7	5	8	32	9	2	-6	8	10	13	9	5	-4	6	2	11	9	8	1	5	3	39

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	8	2	2	6	38	9	13	-8	13	13	24	10	-10	-1	12	13	24	10	-6	-1	20	18	30	10	-3	5	-5	2	61
9	8	3	-6	2	41	9	13	-7	16	14	23	10	-10	0	10	11	22	10	-6	0	28	26	41	10	-2	-11	12	11	17
9	9	-11	3	5	35	9	13	-6	8	8	18	10	-10	1	3	2	41	10	-6	1	23	23	40	10	-2	-10	10	10	17
9	9	-10	12	9	18	9	13	-5	5	4	31	10	-10	2	5	1	22	10	-6	2	-6	8	50	10	-2	-9	10	10	16
9	9	-9	12	13	20	9	13	-4	-6	1	32	10	-10	3	3	6	45	10	-6	3	5	1	36	10	-2	-8	10	11	17
9	9	-8	17	17	23	9	13	-3	3	2	22	10	-9	-8	4	3	23	10	-6	4	6	0	53	10	-2	-7	5	6	29
9	9	-7	7	6	16	9	13	-2	9	10	20	10	-9	-7	5	0	12	10	-5	-10	-4	5	27	10	-2	-6	21	23	24
9	9	-6	5	1	27	9	13	-1	1	10	49	10	-9	-6	-4	2	27	10	-5	-9	7	7	14	10	-2	-5	21	21	24
9	9	-5	5	5	21	9	14	-8	11	11	21	10	-9	-5	-7	2	33	10	-5	-8	5	7	25	10	-2	-4	13	11	18
9	9	-4	20	19	25	9	14	-7	-2	7	43	10	-9	-4	5	1	22	10	-5	-7	-4	0	30	10	-2	-3	15	16	22
9	9	-3	30	30	49	9	14	-6	-6	0	35	10	-9	-3	11	9	18	10	-5	-6	5	5	14	10	-2	-2	24	24	32
9	9	-2	26	27	33	9	14	-5	4	1	26	10	-9	-2	14	14	24	10	-5	-5	10	9	15	10	-2	-1	24	24	33
9	9	-1	13	13	21	9	14	-4	-4	2	33	10	-9	-1	-11	8	48	10	-5	-4	-3	1	31	10	-2	0	22	20	32
9	9	0	7	5	19	9	14	-3	5	1	32	10	-9	0	2	2	36	10	-5	-3	9	10	18	10	-2	1	12	12	25
9	9	1	5	5	22	9	14	-2	6	1	36	10	-9	1	6	3	44	10	-5	-2	12	12	20	10	-2	2	5	3	31
9	9	2	-5	0	40	9	15	-7	8	11	20	10	-9	2	4	3	21	10	-5	-1	-6	5	42	10	-2	3	8	5	25
9	10	-11	-4	2	33	9	15	-6	-6	2	40	10	-9	3	-2	2	31	10	-5	0	10	11	22	10	-2	4	9	8	29
9	10	-10	3	3	32	9	15	-5	4	2	32	10	-9	4	6	6	25	10	-5	1	6	11	57	10	-2	5	1	6	62
9	10	-9	-5	3	35	9	15	-4	2	1	24	10	-8	-9	-3	3	23	10	-5	2	-5	2	45	10	-1	-11	4	0	20
9	10	-8	7	6	19	10	-14	-2	-3	2	32	10	-8	-8	3	1	17	10	-5	3	-2	2	49	10	-1	-10	2	1	27
9	10	-7	-2	7	39	10	-14	-1	0	8	37	10	-8	-7	8	9	13	10	-5	4	-1	2	52	10	-1	-9	9	6	13
9	10	-6	7	5	15	10	-13	-5	1	1	16	10	-8	-6	12	12	17	10	-5	5	-7	2	53	10	-1	-8	4	1	25
9	10	-5	6	5	15	10	-13	-4	-2	2	23	10	-8	-5	19	19	24	10	-4	-11	4	3	13	10	-1	-7	7	6	13
9	10	-4	-3	1	28	10	-13	-3	1	1	17	10	-8	-4	15	15	22	10	-4	-10	5	1	12	10	-1	-6	7	6	14
9	10	-3	5	6	35	10	-13	-2	8	8	19	10	-8	-3	7	10	19	10	-4	-9	3	6	14	10	-1	-5	9	8	14
9	10	-2	9	8	19	10	-13	-1	11	10	20	10	-8	-2	13	11	22	10	-4	-8	14	13	17	10	-1	-4	11	9	16
9	10	-1	6	5	33	10	-13	0	3	6	37	10	-8	-1	5	5	41	10	-4	-7	22	23	25	10	-1	-3	5	7	31
9	10	0	-5	2	29	10	-13	1	4	0	35	10	-8	0	9	11	24	10	-4	-6	22	22	26	10	-1	-2	5	2	30
9	10	1	9	7	18	10	-12	-6	4	7	28	10	-8	1	10	11	23	10	-4	-5	4	2	27	10	-1	-1	3	2	34
9	10	2	9	8	21	10	-12	-5	-6	2	28	10	-8	2	6	5	51	10	-4	-4	13	11	17	10	-1	0	17	17	29
9	11	-11	1	2	37	10	-12	-4	-6	2	28	10	-8	3	11	8	26	10	-4	-3	11	11	18	10	-1	1	12	12	27
9	11	-10	5	1	31	10	-12	-3	4	5	27	10	-8	4	8	9	28	10	-4	-2	2	1	14	10	-1	2	9	9	27
9	11	-9	5	4	25	10	-12	-2	11	12	19	10	-7	-9	3	3	15	10	-4	-1	21	19	28	10	-1	3	-8	6	62
9	11	-8	10	10	20	10	-12	-1	18	19	28	10	-7	-8	4	1	14	10	-4	0	26	26	38	10	-1	4	4	3	35
9	11	-7	16	15	24	10	-12	0	15	15	25	10	-7	-7	4	3	17	10	-4	1	15	16	30	10	-1	5	-5	3	45
9	11	-6	15	14	21	10	-12	1	7	6	20	10	-7	-6	4	3	25	10	-4	2	-6	1	50	10	0	-12	12	12	17
9	11	-5	8	10	17	10	-12	2	-4	1	30	10	-7	-5	9	7	15	10	-4	3	3	6	50	10	0	-11	9	11	15
9	11	-4	1	3	28	10	-11	-7	6	5	12	10	-7	-4	7	6	17	10	-4	4	4	4	32	10	0	-10	7	9	15
9	11	-3	8	8	17	10	-11	-6	-5	0	30	10	-7	-3	6	2	15	10	-4	5	-5	4	53	10	0	-9	-1	1	17
9	11	-2	7	8	18	10	-11	-5	-3	3	27	10	-7	-2	-5	4	36	10	-3	-11	-6	2	30	10	0	-8	4	9	30
9	11	-1	4	5	23	10	-11	-4	1	3	31	10	-7	-1	4	4	39	10	-3	-10	5	0	26	10	0	-7	17	17	20
9	11	0	5	5	18	10	-11	-3	-7	1	32	10	-7	0	-2	4	49	10	-3	-9	-6	0	28	10	0	-6	23	21	27
9	11	1	7	3	17	10	-11	-2	4	6	37	10	-7	1	1	6	52	10	-3	-8	9	9	14	10	0	-5	31	33	48
9	12	-10	-1	1	35	10	-11	-1	9	9	21	10	-7	2	-4	5	35	10	-3	-7	3	1	13	10	0	-4	25	26	32
9	12	-9	3	2	24	10	-11	0	4	5	22	10	-7	3	6	3	46	10	-3	-6	5	2	27	10	0	-3	16	17	21
9	12	-8	5	4	19	10	-11	1	5	3	38	10	-7	4	-8	1	51	10	-3	-5	14	14	19	10	0	-2	12	12	18
9	12	-7	2	4	37	10	-11	2	-5	4	47	10	-6	-10	9	7	15	10	-3	-4	12	13	18	10	0	-1	15	15	23
9	12	-6	4	4	33	10	-11	3	4	2	44	10	-6	-9	3	3	16	10	-3	-3	-7	0	29	10	0	0	14	13	25
9	12	-5	-2	5	38	10	-10	-8	6	7	12	10	-6	-8	3	2	27	10	-3	-2	4	1	31	10	0	1	8	11	26
9	12	-4	-5	1	34	10	-10	-7	7	7	15	10	-6	-7	21	21	24	10	-3	-1	5	8	41	10	0	2	14	15	28
9	12	-3	5	1	28	10	-10	-6	5	7	28	10	-6	-6	29	29	45	10	-3	0	3	3	37	10	0	3	9	7	26
9	12	-2	8	6	16	10	-10	-5	4	4	19	10	-6	-5	16	16	20	10	-3	1	-7	1	47	10	0	4	-3	4	60
9	12	-1	-6	5	35	10	-10	-4	5	3	14	10	-6	-4	3	2	27	10	-3	2	5	1	25	10	1	-12	5	6	16
9	12	0	-4	2	26	10	-10	-3	5	13	40	10	-6	-3	11	11	19	10	-3	3	-4	3	29	10	1	-11	3	3	19
9	13	-9	4	7	45	10	-10	-2	13	13	22	10	-6	-2	-10	1	40	10	-3	4	-3	1	57	10	1	-10	11	10	17
10	1	-9	4	1	13	10	4	-5	4	4	18	10	8	-11	8	7	15	10	12	-5	7	6	17	11	-8	-4	6	7	16
10	1	-8	1	5	25	10	4	-4	5	5	13	10	8	-10	9	9	18	10	12	-4	-4	2	33	11	-8	-3	15	16	24
10	1	-7	15	15	18	10	4	-3	-3	6	30	10	8	-9	9	5	16	10	12	-3	-4	1	35	11	-8	-2	3	8	39
10	1	-6	7	5	13	10	4	-2	10	7	17	10	8	-8	9	7	16	10	12	-2	-6	4	37	11	-8	-1	7	6	19
10	1	-5	4	1	13	10	4	-1	10	12	21	10	8	-7	9	8	17	10	12	-1	6	7	18	11	-8	0	-4	1	44
10	1	-4	9	9	15	10	4	0	15	15	24	10	8	-6	2	6	31	10	13	-8	13	13	21	11	-8	1	-4	7	50
10	1	-3	9	7	14	10	4	1	17	16	29	10	8	-5	15	15	21	10	13	-7	8	9	19	11	-8	2	-9	4	53
10	1	-2	4	5	29	10	4	2	5	7	31	10	8	-4	20	19	24	10	13	-6	-7	3	35	11	-8	3	5	9	30
10	1	-1	10	10	17	10	4	3	-7	0	51	10	8	-3	23	22	29	10	13	-5	4	3	22	11	-7	-9	-3	1	25
10	1	0	11	9	21	10	5	-12	3	0	18	10	8	-2	14	14	21	10	13	-4	-4	1	30	11	-7	-8	6	7	12
10	1	1	5	4	40	10	5	-11	4	3	19	10	8	-1	10	10	20	10	13	-3	-5	0	31	11	-7	-7	10	10	16
10	1	2	9	5	24	10	5	-10	7	4	15	10	8	0	-7	4	45	10	13	-2	-10	1	40	11	-7	-6	9	10	17
10	1	3	5	6	24	10	5	-9	-5	7	34	10	8	1	-4	2	42	10	14	-7	10	9	20	11	-7	-5	14	12	18
10	1	4	6	0	50	10	5	-8	19	16	23	10	8	2	-7	1	43	10	14	-6	-4	1	29	11	-7	-4	8	8	16
10	2	-12	-3	5	31	10	5	-7	-2	3	30	10	9	-11	4	1	33	10	14	-5	7	5	16	11	-7	-3	10	7	17
10	2	-11	3	2	18	10	5	-6	-2	3	28	10	9	-10	4	3	17	10	14	-4	2	2	32	11	-7	-2	6	8	41
10	2	-10	-3	7	34	10	5	-5	16	17	20	10	9	-9	6	5	18	11	-12	-5	5	5	24	11	-7	-1	10	11	22
10	2	-9	6	4	13	10	5	-4	14	14	19	10	9	-8	-7	1	35	11	-12	-4	1	4	27	11	-7	0	-10	4	50
10	2	-8	5	5	27	10	5	-3	3	2	17	10	9	-7	16	15	22	11	-12	-3	4	5	16	11	-7	1	6	7	49
10	2	-7	8	10	16	10	5	-2	5	7	24	10	9	-6	15	15	21	11	-12	-2	9	7	18	11	-7	2	13	13	29
10	2	-6	21	22	24	10	5	-1	5	6	26	10	9	-5	8	7	16	11	-12	-1	5	7	19	11	-7	3	10	6	23
10	2	-5	33	31	49	10	5	0	3	10	40	10	9	-4	7	6	16	11	-12	0	5	5	34	11	-6	-9	-1	1	24
10	2	-4	22	23	24	10	5	1	-5	6	43	10	9	-3	3	5	38	11	-11	-6	-4	3	28	11	-6	-8	6	5	12
10	2	-3	-4	5	29	10	5	2	4	5	20	10	9	-2	-4	2	29	11	-11	-5	5	2	13	11	-6	-7	-4	0	28
10	2	-2	5	6	14	10	5	3	5	2	20	10	9	-1	7	4	18	11	-11	-4	4	5	26	11	-6	-6	8	8	15
10	2	-1	-3	3	31	10	6	-12	5	4	13	10	9	0	9	6	17	11	-11	-3	9	7	17	11	-6	-5	-5	7	35
10	2	0	17	18	28	10	6	-11	3	4	21	10	9	1	-3	3	39	11	-11	-2	13	14	23	11	-6	-4	4	2	32
10	2	1	24	25	37	10	6	-10	8	10	18	10	10	-11	4	5	21	11	-11	-1	3	11	48	11	-6	-3	11	9	18
10	2	2	15	17	29	10	6	-9	15	16	21	10	10	-10	4	4	18	11	-11	0	7	5	20	11	-6	-2	11	9	18
10	2	3	8	9	28	10	6	-8	27	28	36	10	10	-9	10	5	16	11	-11	1	-4	1	40	11	-6	-1	5	5	36
10	2	4	-6	0	54	10	6	-7	16	17	21	10	10	-8	3	5	25	11	-10	-7	4	4	14	11	-6	0	4	4	27
10	3	-12	3	7	27	10	6	-6	8	6	15	10	10	-7	12	13	20	11	-10	-6	-4	5	31	11	-6	1	3	5	47
10	3	-11	10	9	15	10	6	-5	5	1	27	10	10	-6	12	10	17	11	-10	-5	-7	5	32	11	-6	2	-3	1	47
10	3	-10	8	8	15	10	6	-4	-5	1	30	10	10	-5	8	9	18	11	-10	-4	5	0	25	11	-6	3	2	4	53
10	3	-9	3	6	28	10	6	-3	8	9	17	10	10	-4	10	9	18	11	-10	-3	-6	6	36	11	-5	-10	3	2	17
10	3	-8	13	14	19	10	6	-2	21	20	27	10	10	-3	4	7	19	11	-10	-2	14	17	24	11	-5	-9	-7	1	29
10	3	-7	18	18	21	10	6	-1	25	25	33	10	10	-2	-5	6	33	11	-10	-1	8	11	23	11	-5	-8	9	10	16
10	3	-6	-8	5	30	10	6	0	9	9	20	10	10	-1	5	4	22	11	-10	0	3	1	27	11	-5	-7	20	19	24
10	3	-5	12	12	16	10	6	1	-5	2	42	10	10	0	-7	5	36	11	-10	1	5	6	30	11	-5	-6	19	18	23
10	3	-4	7	7	15	10	6	2	5	0	42	10	10	1	3	5	18	11	-10	2	-4	0	43	11	-5	-5	9	8	17
10	3	-3	8	5	15	10	6	3	-9	1	40	10	11	-10	5	5	35	11	-9	-8	-1	4	28	11	-5	-4	3	2	18
10	3	-2	13	13	19	10	7	-11	4	3	17	10	11	-9	5	1	31	11	-9	-7	6	5	12	11	-5	-3	7	7	18
10	3	-1	12	13	22	10	7	-10	-4	1	35	10	11	-8	6	5	38	11	-9	-6	7	8	16	11	-5	-2	-5	2	32
10	3	0	-2	7	43	10	7	-9	5	3	32	10	11	-7	11	9	19	11	-9	-5	-1	6	33	11	-5	-1	18	18	27
10	3	1	3	2	47	10	7	-8	7	9	18	10	11	-6	7	5	17	11	-9	-4	8	7	16	11	-5	0	24	21	37
10	3	2	-2	6	35	10	7	-7	12	10	18	10	11	-5	-4	2	31	11	-9	-3	10	10	19	11	-5	1	4	8	52
10	3	3	5	0	31	10	7	-6	-3	0	29	10	11	-4	-4	4	38	11	-9	-2	12	13	22	11	-5	2	-5	5	43
10	3	4	-9	3	60	10	7	-5	-1	4	32	10	11	-3	-4	5	36	11	-9	-1	10	11	22	11	-5	3	4	2	48
10	4	-12	4	1	28	10	7	-4	10	8	17	10	11	-2	2	3	40	11	-9	0	-3	3	43	11	-4	-10	12	13	18
10	4	-11	-6	2	28	10	7	-3	5	3	27	10	11	-1	9	6	16	11	-9	1	8	5	22	11	-4	-9	3	3	25
10	4	-10	3	2	25	10	7	-2	-5	1	36	10	11	0	-6	6	39	11	-9	2	-3	1	30	11	-4	-8	-1	6	29
10	4	-9	13	12	19	10	7	-1	11	12	20	10	12	-9	8	7	17	11	-8	-8	3	2	24	11	-4	-7	6	7	16
10	4	-8	21	20	24	10	7	0	-4	5	38	10	12	-8	16	14	24	11	-8	-7	-6	1	26	11	-4	-6	7	9	17
10	4	-7	23	21	27	10	7	1	5	6	20	10	12	-7	16	16	24	11	-8	-6	5	6	32	11	-4	-5	-2	2	30
10	4	-6	18	19	22	10	7	2	4	4	39	10	12	-6	15	15	22	11	-8	-5	12	10	19	11	-4	-4	11	11	17

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
11	-4	-3	9	8	18	11	0	-8	4	6	31	11	3	2	2	6	35	11	7	0	5	10	44	12	-10	-6	4	2	23
11	-4	-2	2	1	30	11	0	-7	-4	1	27	11	3	3	-4	0	45	11	7	1	3	4	43	12	-10	-5	2	1	20
11	-4	-1	9	9	22	11	0	-6	-7	2	31	11	4	-11	-7	0	30	11	8	-11	3	1	32	12	-10	-4	6	8	36
11	-4	0	13	11	26	11	0	-5	5	2	13	11	4	-10	8	5	15	11	8	-10	-6	5	39	12	-10	-3	17	19	25
11	-4	1	4	4	47	11	0	-4	5	0	22	11	4	-9	7	8	14	11	8	-9	6	4	33	12	-10	-2	7	10	23
11	-4	2	-4	1	50	11	0	-3	11	11	19	11	4	-8	13	15	19	11	8	-8	5	5	15	12	-10	-1	4	6	19
11	-4	3	-3	4	55	11	0	-2	13	12	18	11	4	-7	8	8	16	11	8	-7	5	6	24	12	-10	0	4	1	41
11	-3	-10	5	6	12	11	0	-1	8	3	17	11	4	-6	4	4	21	11	8	-6	12	13	20	12	-9	-7	-3	2	24
11	-3	-9	2	2	22	11	0	0	5	4	46	11	4	-5	11	11	18	11	8	-5	-6	5	36	12	-9	-6	5	6	15
11	-3	-8	7	8	15	11	0	1	-4	3	50	11	4	-4	8	8	17	11	8	-4	2	1	35	12	-9	-5	-5	2	21
11	-3	-7	14	14	19	11	0	2	6	4	27	11	4	-3	9	10	18	11	8	-3	7	7	17	12	-9	-4	7	5	15
11	-3	-6	22	19	26	11	0	3	-6	1	56	11	4	-2	11	9	20	11	8	-2	2	6	26	12	-9	-3	8	12	21
11	-3	-5	8	6	16	11	1	-11	2	2	24	11	4	-1	4	5	32	11	8	-1	-6	3	41	12	-9	-2	11	13	21
11	-3	-4	7	5	17	11	1	-10	-6	5	28	11	4	0	3	1	43	11	8	0	-2	3	38	12	-9	-1	9	7	20
11	-3	-3	-2	7	35	11	1	-9	4	3	13	11	4	1	8	7	20	11	8	1	5	3	36	12	-9	0	5	3	32
11	-3	-2	18	15	26	11	1	-8	3	4	13	11	4	2	6	5	47	11	9	-10	4	2	32	12	-9	1	5	3	38
11	-3	-1	21	21	31	11	1	-7	22	23	27	11	5	-11	5	6	15	11	9	-9	4	4	33	12	-8	-7	-2	4	29
11	-3	0	21	22	34	11	1	-6	28	26	37	11	5	-10	9	6	15	11	9	-8	0	6	39	12	-8	-6	-6	2	25
11	-3	1	-1	3	50	11	1	-5	14	15	19	11	5	-9	-4	4	32	11	9	-7	10	9	20	12	-8	-5	-5	5	30
11	-3	2	8	8	26	11	1	-4	17	17	20	11	5	-8	9	8	17	11	9	-6	16	15	22	12	-8	-4	7	7	16
11	-3	3	-6	5	56	11	1	-3	8	7	15	11	5	-7	13	12	20	11	9	-5	13	12	21	12	-8	-3	10	11	20
11	-3	4	-4	1	53	11	1	-2	3	5	30	11	5	-6	14	15	20	11	9	-4	9	9	19	12	-8	-2	10	11	20
11	-2	-11	3	4	29	11	1	-1	18	19	26	11	5	-5	11	13	17	11	9	-3	2	3	32	12	-8	-1	4	1	40
11	-2	-10	-2	0	26	11	1	0	21	21	33	11	5	-4	-4	2	28	11	9	-2	5	3	22	12	-8	0	-4	1	48
11	-2	-9	4	0	25	11	1	1	10	11	27	11	5	-3	-7	1	33	11	9	-1	2	3	30	12	-8	1	-2	1	40
11	-2	-8	7	7	14	11	1	2	6	8	52	11	5	-2	4	1	15	11	9	0	1	6	36	12	-7	-8	-5	1	28
11	-2	-7	4	0	16	11	1	3	8	7	26	11	5	-1	10	12	24	11	10	-10	6	6	18	12	-7	-7	4	2	25
11	-2	-6	6	9	14	11	2	-11	4	7	21	11	5	0	16	15	26	11	10	-9	7	2	16	12	-7	-6	-5	0	32
11	-2	-5	17	16	22	11	2	-10	4	6	18	11	5	1	5	7	42	11	10	-8	11	10	19	12	-7	-5	5	1	29
11	-2	-4	16	15	21	11	2	-9	-5	3	27	11	5	2	-5	1	47	11	10	-7	5	8	40	12	-7	-4	6	7	18
11	-2	-3	-3	4	34	11	2	-8	14	12	19	11	6	-11	5	4	26	11	10	-6	4	7	27	12	-7	-3	11	12	22
11	-2	-2	4	6	42	11	2	-7	12	11	18	11	6	-10	5	3	14	11	10	-5	-6	0	34	12	-7	-2	4	8	42
11	-2	-1	10	10	24	11	2	-6	7	5	15	11	6	-9	-3	2	35	11	10	-4	6	5	17	12	-7	-1	-8	0	47
11	-2	0	9	8	22	11	2	-5	13	13	19	11	6	-8	4	3	25	11	10	-3	7	6	18	12	-7	0	2	5	42
11	-2	1	5	2	23	11	2	-4	14	14	19	11	6	-7	-1	4	31	11	10	-2	-2	1	25	12	-7	1	-7	0	49
11	-2	2	7	7	25	11	2	-3	6	8	16	11	6	-6	4	4	16	11	10	-1	6	5	18	12	-7	2	-6	6	54
11	-2	3	8	1	26	11	2	-2	8	6	16	11	6	-5	6	6	16	11	11	-9	2	5	21	12	-6	-9	6	6	12
11	-1	-11	5	7	28	11	2	-1	-4	1	33	11	6	-4	4	2	27	11	11	-8	11	13	22	12	-6	-8	1	4	27
11	-1	-10	3	3	19	11	2	0	-2	3	41	11	6	-3	4	3	16	11	11	-7	15	13	23	12	-6	-7	7	6	14
11	-1	-9	-3	3	28	11	2	1	7	4	49	11	6	-2	6	8	18	11	11	-6	14	13	21	12	-6	-6	5	9	37
11	-1	-8	8	8	14	11	2	2	5	6	37	11	6	-1	-6	3	38	11	11	-5	-5	8	41	12	-6	-5	2	7	36
11	-1	-7	14	14	18	11	2	3	5	3	56	11	6	0	-6	1	43	11	11	-4	-1	4	32	12	-6	-4	10	11	21
11	-1	-6	8	10	17	11	3	-11	3	4	24	11	6	1	3	4	36	11	11	-3	1	4	35	12	-6	-3	4	10	42
11	-1	-5	24	23	30	11	3	-10	-1	2	26	11	6	2	4	3	25	11	11	-2	-9	2	36	12	-6	-2	4	8	36
11	-1	-4	16	15	21	11	3	-9	-7	1	25	11	7	-11	9	10	18	11	12	-8	16	15	24	12	-6	-1	-7	4	41
11	-1	-3	0	7	33	11	3	-8	11	10	16	11	7	-10	8	8	17	11	12	-7	11	13	24	12	-6	0	7	5	21
11	-1	-2	15	15	22	11	3	-7	19	19	22	11	7	-9	-5	5	33	11	12	-6	-6	3	35	12	-6	1	5	4	27
11	-1	-1	16	13	28	11	3	-6	27	26	36	11	7	-8	3	2	31	11	12	-5	-1	7	40	12	-6	2	-5	4	54
11	-1	0	-7	6	50	11	3	-5	11	9	18	11	7	-7	13	12	20	11	12	-4	9	9	18	12	-5	-9	2	3	23
11	-1	1	10	9	27	11	3	-4	7	7	15	11	7	-6	13	13	20	11	12	-3	-4	1	32	12	-5	-8	4	4	19
11	-1	2	5	5	38	11	3	-3	10	9	18	11	7	-5	15	14	20	11	13	-6	-8	5	38	12	-5	-7	-4	1	29
11	-1	3	7	4	52	11	3	-2	-6	3	30	11	7	-4	10	11	17	12	-11	-4	-6	1	28	12	-5	-6	7	1	14
11	0	-11	3	2	19	11	3	-1	11	9	21	11	7	-3	12	10	20	12	-11	-3	4	5	16	12	-5	-5	5	4	23
11	0	-10	9	9	16	11	3	0	17	17	28	11	7	-2	12	12	22	12	-11	-2	6	10	41	12	-5	-4	-2	2	31
11	0	-9	9	9	16	11	3	1	15	16	27	11	7	-1	10	10	19	12	-11	-1	4	5	21	12	-5	-3	-7	2	34
12	-5	-2	-3	2	26	12	-1	1	6	11	62	12	3	0	4	3	39	12	8	-5	10	9	17	13	-5	-4	15	15	24
12	-5	-1	-7	1	43	12	-1	2	6	8	32	12	3	1	5	4	21	12	8	-4	-2	3	42	13	-5	-3	12	11	23
12	-5	0	-1	1	46	12	0	-11	-3	2	28	12	4	-11	11	10	16	12	8	-3	-4	1	33	13	-5	-2	2	3	26
12	-5	1	5	1	34	12	0	-10	-6	1	25	12	4	-10	8	4	14	12	8	-2	4	3	36	13	-5	-1	5	0	23
12	-5	2	7	8	56	12	0	-9	-3	3	31	12	4	-9	3	1	26	12	8	-1	7	7	20	13	-5	0	4	1	28
12	-4	-10	4	4	12	12	0	-8	6	6	14	12	4	-8	-12	4	38	12	9	-9	6	4	17	13	-4	-9	-5	6	27
12	-4	-9	6	5	13	12	0	-7	13	13	19	12	4	-7	14	13	19	12	9	-8	10	7	17	13	-4	-8	6	4	14
12	-4	-8	3	5	15	12	0	-6	14	15	21	12	4	-6	18	16	23	12	9	-7	11	10	19	13	-4	-7	8	6	16
12	-4	-7	10	10	15	12	0	-5	7	7	16	12	4	-5	20	20	25	12	9	-6	9	9	19	13	-4	-6	5	5	28
12	-4	-6	12	13	20	12	0	-4	4	4	31	12	4	-4	9	9	17	12	9	-5	5	4	31	13	-4	-5	9	8	18
12	-4	-5	13	14	20	12	0	-3	2	6	34	12	4	-3	1	2	27	12	9	-4	5	5	17	13	-4	-4	-3	1	36
12	-4	-4	13	11	19	12	0	-2	11	11	19	12	4	-2	7	7	20	12	9	-3	-2	7	28	13	-4	-3	5	5	19
12	-4	-3	13	12	21	12	0	-1	4	6	42	12	4	-1	12	15	23	12	9	-2	-9	4	42	13	-4	-2	-5	2	42
12	-4	-2	13	14	25	12	0	0	-9	2	44	12	4	0	9	14	23	12	10	-9	3	1	33	13	-4	-1	-5	2	42
12	-4	-1	13	13	29	12	0	1	6	1	49	12	4	1	3	7	32	12	10	-8	10	10	19	13	-4	0	-2	4	46
12	-4	0	5	7	48	12	0	2	7	2	26	12	5	-11	11	11	16	12	10	-7	15	17	24	13	-4	1	-5	3	47
12	-4	1	6	8	50	12	1	-11	3	2	27	12	5	-10	9	8	15	12	10	-6	14	14	21	13	-3	-9	2	1	24
12	-4	2	-6	3	48	12	1	-10	-6	1	27	12	5	-9	3	4	31	12	10	-5	-4	10	47	13	-3	-8	5	4	13
12	-3	-10	-4	2	23	12	1	-9	4	1	25	12	5	-8	4	4	30	12	10	-4	5	3	17	13	-3	-7	4	5	33
12	-3	-9	3	4	13	12	1	-8	4	5	20	12	5	-7	-4	2	31	12	10	-3	-3	1	34	13	-3	-6	7	5	14
12	-3	-8	10	11	18	12	1	-7	7	6	14	12	5	-6	5	1	14	12	11	-7	11	9	19	13	-3	-5	10	10	18
12	-3	-7	10	11	16	12	1	-6	8	7	16	12	5	-5	-3	4	33	12	11	-6	0	0	32	13	-3	-4	10	11	20
12	-3	-6	5	5	34	12	1	-5	5	0	13	12	5	-4	12	12	20	12	11	-5	5	4	31	13	-3	-3	-2	6	44
12	-3	-5	13	13	20	12	1	-4	12	12	19	12	5	-3	-6	8	41	12	11	-4	5	5	17	13	-3	-2	-7	4	45
12	-3	-4	9	13	20	12	1	-3	13	12	20	12	5	-2	-2	0	37	13	-9	-5	-6	2	28	13	-3	-1	6	5	23
12	-3	-3	5	3	41	12	1	-2	-4	9	46	12	5	-1	-6	4	36	13	-9	-4	7	9	19	13	-3	0	7	5	23
12	-3	-2	11	12	23	12	1	-1	7	8	21	12	5	0	4	4	35	13	-9	-3	3	5	36	13	-3	1	6	4	48
12	-3	-1	13	12	26	12	1	0	-5	0	31	12	5	1	4	3	42	13	-9	-2	5	6	36	13	-2	-9	5	9	34
12	-3	0	7	6	23	12	1	1	-4	5	52	12	6	-10	6	1	15	13	-8	-6	-3	4	19	13	-2	-8	10	11	16
12	-3	1	2	1	49	12	1	2	-5	0	53	12	6	-9	3	2	31	13	-8	-5	5	5	16	13	-2	-7	-4	0	32
12	-3	2	-11	4	59	12	2	-11	4	7	31	12	6	-8	-4	1	26	13	-8	-4	11	10	21	13	-2	-6	1	1	19
12	-2	-10	6	4	13	12	2	-10	8	7	13	12	6	-7	10	8	17	13	-8	-3	11	13	22	13	-2	-5	-6	3	32
12	-2	-9	3	3	15	12	2	-9	8	10	15	12	6	-6	14	13	20	13	-8	-2	7	5	19	13	-2	-4	-5	3	36
12	-2	-8	6	8	15	12	2	-8	13	12	18	12	6	-5	8	9	18	13	-8	-1	-8	3	45	13	-2	-3	5	8	34
12	-2	-7	11	12	18	12	2	-7	14	13	19	12	6	-4	2	5	35	13	-7	-7	3	1	24	13	-2	-2	12	11	24
12	-2	-6	9	9	16	12	2	-6	18	17	22	12	6	-3	6	1	14	13	-7	-6	3	6	27	13	-2	-1	-3	6	47
12	-2	-5	4	1	21	12	2	-5	12	12	18	12	6	-2	1	2	31	13	-7	-5	12	11	19	13	-2	0	-7	1	45
12	-2	-4	4	2	31	12	2	-4	-5	3	33	12	6	-1	-8	4	48	13	-7	-4	15	16	25	13	-2	1	6	2	24
12	-2	-3	3	5	36	12	2	-3	5	4	28	12	6	0	-7	8	50	13	-7	-3	15	15	24	13	-1	-10	4	4	29
12	-2	-2	8	10	22	12	2	-2	-3	7	33	12	7	-10	3	3	32	13	-7	-2	-6	6	45	13	-1	-9	-1	6	22
12	-2	-1	14	15	27	12	2	-1	7	9	21	12	7	-9	-5	4	35	13	-7	-1	-12	1	49	13	-1	-8	12	10	15
12	-2	0	-1	14	69	12	2	0	9	8	23	12	7	-8	-2	2	31	13	-7	0	-5	1	25	13	-1	-7	11	12	19
12	-2	1	5	5	35	12	2	1	5	7	50	12	7	-7	5	0	28	13	-6	-8	3	0	17	13	-1	-6	7	5	15
12	-2	2	-3	1	45	12	2	2	-5	4	46	12	7	-6	5	8	35	13	-6	-7	1	2	26	13	-1	-5	3	1	20
12	-1	-10	6	4	12	12	3	-11	4	3	17	12	7	-5	11	10	18	13	-6	-6	2	3	29	13	-1	-4	-1	3	33
12	-1	-9	11	11	16	12	3	-10	-2	3	16	12	7	-4	8	7	17	13	-6	-5	-5	1	32	13	-1	-3	9	9	20
12	-1	-8	12	12	17	12	3	-9	-11	2	33	12	7	-3	-2	1	22	13	-6	-4	6	6	40	13	-1	-2	12	11	23
12	-1	-7	6	5	14	12	3	-8	-7	0	29	12	7	-2	4	4	34	13	-6	-3	0	2	36	13	-1	-1	-1	5	44
12	-1	-6	6	11	18	12	3	-7	5	4	30	12	7	-1	5	4	18	13	-6	-2	-6	1	36	13	-1	0	6	2	43
12	-1	-5	18	17	23	12	3	-6	-5	8	40	12	7	0	-7	2	42	13	-6	-1	-3	2	43	13	-1	1	4	1	34
12	-1	-4	2	5	36	12	3	-5	-4	0	29	12	8	-10	2	1	29	13	-6	0	5	1	41	13	0	-10	-4	2	28
12	-1	-3	7	6	17	12	3	-4	-4	2	31	12	8	-9	5	1	14	13	-5	-8	3	2	11	13	0	-9	-3	1	24
12	-1	-2	15	15	24	12	3	-3	4	7	38	12	8	-8	10	10	18	13	-5	-7	-3	2	24	13	0	-8	-5	1	25
12	-1	-1	13	11	24	12	3	-2	3	1	37	12	8	-7	12	11	19	13	-5	-6	-2	4	32	13	0	-7	7	5	14
12	-1	0	5	6	46	12	3	-1	7	2	19	12	8	-6	14	13	21	13	-5	-5	14	15	22	13	0	-6	12	13	20

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
13	0	-5	10	10	20	13	5	-5	8	9	19	14	-2	-8	0	5	28	14	5	-8	5	6	15						
13	0	-4	-2	0	32	13	5	-4	12	10	18	14	-2	-7	8	7	14	14	5	-7	1	3	31						
13	0	-3	14	13	21	13	5	-3	7	6	17	14	-2	-6	10	10	18	14	5	-6	4	4	23						
13	0	-2	12	14	24	13	5	-2	-3	2	36	14	-2	-5	-2	7	36	14	5	-5	2	5	35						
13	0	-1	8	8	21	13	5	-1	4	5	42	14	-2	-4	2	6	33	14	5	-4	3	2	32						
13	0	0	-2	3	27	13	6	-9	-7	5	29	14	-2	-3	7	4	16	14	5	-3	-5	2	35						
13	0	1	3	7	49	13	6	-8	9	7	16	14	-2	-2	-8	1	43	14	6	-8	8	8	16						
13	1	-10	10	10	16	13	6	-7	-9	3	39	14	-2	-1	-7	2	44	14	6	-7	9	11	19						
13	1	-9	10	10	16	13	6	-6	7	7	17	14	-1	-8	-1	0	24	14	6	-6	7	12	21						
13	1	-8	3	6	31	13	6	-5	12	10	20	14	-1	-7	-7	2	30	14	6	-5	9	10	19						
13	1	-7	-2	2	30	13	6	-4	-2	6	38	14	-1	-6	-9	4	26	14	6	-4	7	6	16						
13	1	-6	-4	1	29	13	6	-3	-6	0	33	14	-1	-5	5	0	14	14	7	-6	-8	2	34						
13	1	-5	-4	2	32	13	6	-2	-3	7	38	14	-1	-4	-4	4	34	15	-1	-5	6	6	16						
13	1	-4	6	5	16	13	7	-9	-7	2	30	14	-1	-3	-5	5	37	15	0	-6	7	7	17						
13	1	-3	-9	7	44	13	7	-8	3	6	32	14	-1	-2	6	6	20	15	0	-5	1	0	32						
13	1	-2	8	7	20	13	7	-7	13	14	22	14	-1	-1	6	2	42												
13	1	-1	6	7	43	13	7	-6	14	14	21	14	0	-9	9	10	15												
13	1	0	-9	1	43	13	7	-5	5	7	36	14	0	-8	6	6	16												
13	2	-10	5	3	13	13	7	-4	-5	1	31	14	0	-7	4	1	28												
13	2	-9	4	1	26	13	7	-3	2	1	37	14	0	-6	5	0	16												
13	2	-8	5	2	33	13	7	-2	-3	3	37	14	0	-5	6	6	17												
13	2	-7	-6	2	30	13	8	-8	1	1	27	14	0	-4	5	8	40												
13	2	-6	3	1	28	13	8	-7	6	7	15	14	0	-3	9	10	21												
13	2	-5	-10	2	40	13	8	-6	6	8	40	14	0	-2	6	9	19												
13	2	-4	-4	2	31	13	8	-5	7	8	18	14	0	-1	5	7	38												
13	2	-3	-3	2	32	13	8	-4	5	4	22	14	1	-9	2	4	27												
13	2	-2	-9	0	45	13	8	-3	-3	1	35	14	1	-8	4	2	13												
13	2	-1	5	7	41	13	9	-7	8	9	19	14	1	-7	4	1	14												
13	2	0	-11	4	51	13	9	-6	7	8	18	14	1	-6	-5	4	30												
13	3	-10	-3	7	29	13	9	-5	6	3	15	14	1	-5	8	6	17												
13	3	-9	6	4	14	13	9	-4	-6	0	32	14	1	-4	-3	1	40												
13	3	-8	6	4	14	14	-6	-6	5	3	29	14	1	-3	3	2	40												
13	3	-7	-7	6	34	14	-6	-5	12	13	21	14	1	-2	5	3	38												
13	3	-6	9	10	17	14	-6	-4	13	14	22	14	2	-9	7	7	15												
13	3	-5	15	15	21	14	-6	-3	9	10	20	14	2	-8	-3	1	29												
13	3	-4	16	15	23	14	-5	-7	-7	0	29	14	2	-7	4	4	20												
13	3	-3	9	11	19	14	-5	-6	5	6	34	14	2	-6	5	1	14												
13	3	-2	4	7	27	14	-5	-5	6	9	39	14	2	-5	6	6	16												
13	3	-1	5	4	19	14	-5	-4	3	6	44	14	2	-4	15	15	23												
13	3	0	2	3	38	14	-5	-3	5	2	18	14	2	-3	14	15	24												
13	4	-10	-6	4	31	14	-5	-2	-9	3	40	14	2	-2	-4	3	36												
13	4	-9	5	4	31	14	-4	-7	3	4	14	14	3	-9	5	1	12												
13	4	-8	-2	6	26	14	-4	-6	3	6	15	14	3	-8	-8	3	30												
13	4	-7	3	4	20	14	-4	-5	8	9	19	14	3	-7	5	0	29												
13	4	-6	4	1	28	14	-4	-4	9	8	22	14	3	-6	-7	2	28												
13	4	-5	4	1	28	14	-4	-3	-7	3	39	14	3	-5	5	3	28												
13	4	-4	-8	2	35	14	-4	-2	5	1	38	14	3	-4	4	0	24												
13	4	-3	-4	0	33	14	-3	-8	3	2	23	14	3	-3	5	2	22												
13	4	-2	4	6	41	14	-3	-7	-6	0	30	14	3	-2	5	1	32												
13	4	-1	2	3	36	14	-3	-6	-8	1	36	14	4	-8	2	1	30												
13	5	-10	3	4	28	14	-3	-5	6	4	15	14	4	-7	3	1	27												
13	5	-9	-1	1	31	14	-3	-4	4	1	39	14	4	-6	4	7	34												
13	5	-8	-4	2	31	14	-3	-3	2	2	36	14	4	-5	10	11	21												
13	5	-7	4	8	18	14	-3	-2	-2	1	34	14	4	-4	-3	8	39												
13	5	-6	11	11	20	14	-3	-1	5	3	37	14	4	-3	-2	4	34												

APPENDIX 3.XI

$[Ni(S_2CN(Et)Cy)_2]$

Table 3.XI.1: Crystallographic Parameters for [Ni($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]

Formula	$C_{18}H_{32}N_2NiS_4$
Formula weight	463.40
Crystal morphology / colour	block / olive green
Crystal dimensions (mm)	0.13 x 0.15 x 0.29
Crystal system	monoclinic
Space group	$P2_1/c$ (#14)
a (Å)	8.534(4)
b (Å)	12.087(4)
c (Å)	11.109(4)
α (°)	90
β (°)	95.54(3)
γ (°)	90
V (Å^3)	1140.5(7)
Z	2
$\rho_{calc.}$ (g cm^{-3})	1.349
$F(000)$	492
Temperature (°K)	200
μ (cm^{-1})	12.10
θ limits, cell (°)	22.5 – 24.5
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 10, -14 – 15, -14 – 14
Range of transmission factors	0.953 – 1
Scan technique	ω:2θ
No. of data measured	2928
No. of unique data	2752
R_{amal}	0.029
No. of parameters	115
R (I≥0σ(I))	0.053
R_w (I≥0σ(I))	0.081
R (I≥3σ(I))	0.031
R_w (I≥3σ(I))	0.037
Maximum and minimum residual electron density (e Å^{-3})	0.49, -0.59

Table 3.XI.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Ni(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

Atom	*x*	*y*	*z*
Ni	0	0	0
S(1)	-0.07461(7)	0.15686(6)	0.41245(6)
S(2)	0.22317(7)	0.05510(5)	0.43641(6)
N(1)	0.1733(2)	0.2490(2)	0.3161(2)
C(1)	0.1177(3)	0.1678(2)	0.3781(2)
C(2)	0.0676(3)	0.3384(2)	0.2669(2)
C(3)	0.0500(4)	0.4308(3)	0.3566(3)
C(4)	0.3389(3)	0.2447(2)	0.2849(2)
C(5)	0.3488(3)	0.1850(2)	0.1650(2)
C(6)	0.5219(3)	0.1728(3)	0.1407(2)
C(7)	0.6027(3)	0.2844(3)	0.1406(3)
C(8)	0.5890(3)	0.3449(2)	0.2597(3)
C(9)	0.4165(3)	0.3581(2)	0.2850(2)

Table 3.XI.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Ni(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Ni	0.0323(2)	0.0298(2)	0.0275(2)	0.0000(2)	0.0032(2)	0.0023(2)
S(1)	0.0331(3)	0.0409(4)	0.0445(4)	0.0052(3)	0.0066(3)	0.0115(3)
S(2)	0.0328(3)	0.0306(3)	0.0357(3)	0.0021(2)	0.0035(2)	0.0048(3)
N(1)	0.032(1)	0.035(1)	0.032(1)	0.0008(8)	-0.0023(8)	0.0068(9)
C(1)	0.032(1)	0.032(1)	0.026(1)	0.000(1)	-0.0006(9)	0.001(1)
C(2)	0.038(1)	0.049(2)	0.044(2)	0.007(1)	-0.001(1)	0.019(1)
C(3)	0.064(2)	0.046(2)	0.073(2)	0.017(1)	0.013(2)	0.014(2)
C(4)	0.030(1)	0.036(1)	0.031(1)	-0.002(1)	-0.0015(9)	0.008(1)
C(5)	0.042(1)	0.042(1)	0.035(1)	-0.007(1)	0.003(1)	0.001(1)
C(6)	0.046(2)	0.064(2)	0.042(2)	-0.001(1)	0.010(1)	-0.005(1)
C(7)	0.038(1)	0.072(2)	0.048(2)	-0.007(1)	0.007(1)	0.012(2)
C(8)	0.040(1)	0.053(2)	0.055(2)	-0.014(1)	-0.003(1)	0.012(1)
C(9)	0.042(1)	0.037(1)	0.043(2)	-0.005(1)	-0.004(1)	0.005(1)

Table 3.XI.4: Fractional atomic coordinates and B_{eq} values (Å^2) for the hydrogen atoms in [Ni($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]*

Atom	*x*	*y*	*z*	*B*eq
H(2a)	0.1098	0.3692	0.1962	4.1552
H(2b)	-0.0356	0.3070	0.2437	4.1552
H(3a)	0.1523	0.4631	0.3804	5.7497
H(3b)	-0.0199	0.4870	0.3194	5.7497
H(3c)	0.0062	0.4013	0.4274	5.7497
H(4a)	0.3980	0.2010	0.3469	3.1163
H(5a)	0.3013	0.1123	0.1687	3.7789
H(5b)	0.2929	0.2274	0.1003	3.7789
H(6a)	0.5270	0.1379	0.0626	4.7754
H(6b)	0.5757	0.1268	0.2033	4.7754
H(7a)	0.7131	0.2736	0.1298	5.0124
H(7b)	0.5537	0.3286	0.0745	5.0124
H(8a)	0.6445	0.3029	0.3250	4.7148
H(8b)	0.6363	0.4175	0.2556	4.7148
H(9a)	0.3618	0.4039	0.2227	3.9340
H(9b)	0.4117	0.3928	0.3633	3.9340

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 3.XI.5: Bond distances (Å) for [Ni($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]

Ni — S(1)	2.1969(6)	C(2) — C(3)	1.513(4)
Ni — S(2)	2.1975(9)	C(4) — C(5)	1.524(3)
S(1) — C(1)	1.726(2)	C(4) — C(9)	1.522(3)
S(2) — C(1)	1.724(2)	C(5) — C(6)	1.534(3)
N(1) — C(1)	1.314(3)	C(6) — C(7)	1.515(4)
N(1) — C(2)	1.478(3)	C(7) — C(8)	1.526(4)
N(1) — C(4)	1.489(3)	C(8) — C(9)	1.533(3)

Table 3.XI.6: Bond angles (deg.) for [Ni($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]

S(1) — Ni — S(1)*	180(-)	S(2) — C(1) — N(1)	125.9(2)
S(1) — Ni — S(2)	79.59(3)	N(1) — C(2) — C(3)	113.1(2)
S(1) — Ni — S(2)*	100.41(3)	N(1) — C(4) — C(5)	110.7(2)
S(2) — Ni — S(2)*	180(-)	N(1) — C(4) — C(9)	113.0(2)
Ni — S(1) — C(1)	85.57(8)	C(5) — C(4) — C(9)	111.5(2)
Ni — S(2) — C(1)	85.59(8)	C(4) — C(5) — C(6)	109.5(2)
C(1) — N(1) — C(2)	120.1(2)	C(5) — C(6) — C(7)	111.1(2)
C(1) — N(1) — C(4)	119.7(2)	C(6) — C(7) — C(8)	110.7(2)
C(2) — N(1) — C(4)	119.9(2)	C(7) — C(8) — C(9)	111.3(2)
S(1) — C(1) — S(2)	109.2(1)	C(4) — C(9) — C(8)	109.3(2)
S(1) — C(1) — N(1)	124.9(2)		

* atom related by a centre of symmetry

Table 3.XI.7: Observed and calculated structure factors for $[Ni(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	2	128	138	82	0	4	6	574	564	99	0	8	8	219	219	99	0	13	8	51	27	99	1	2	-13	-27	2	99
0	0	4	66	55	61	0	4	7	115	108	99	0	8	9	118	111	99	0	14	0	120	115	99	1	2	-12	173	177	99
0	0	6	85	71	87	0	4	8	113	111	99	0	8	10	303	308	99	0	14	1	46	9	99	1	2	-11	-52	64	99
0	0	8	78	75	99	0	4	9	29	6	99	0	8	11	48	57	99	0	14	2	136	137	99	1	2	-10	237	244	99
0	0	10	110	115	99	0	4	10	136	127	99	0	8	12	-51	43	99	0	14	3	26	9	99	1	2	-9	262	267	99
0	0	12	184	191	99	0	4	11	89	112	99	0	9	1	96	91	99	0	14	4	107	93	99	1	2	-8	271	284	99
0	0	14	189	188	99	0	4	12	-18	74	99	0	9	2	236	227	99	0	14	5	86	85	99	1	2	-7	294	285	99
0	1	2	613	601	99	0	4	13	93	97	99	0	9	3	27	52	99	0	14	6	-29	41	99	1	2	-6	429	420	99
0	1	3	967	958	99	0	5	1	514	505	99	0	9	4	109	108	99	0	15	1	58	67	99	1	2	-5	230	235	99
0	1	4	156	156	99	0	5	2	121	114	99	0	9	5	470	458	99	0	15	2	54	13	99	1	2	-4	284	276	99
0	1	5	83	71	77	0	5	3	287	300	99	0	9	6	71	74	99	0	15	3	122	131	99	1	2	-3	534	540	99
0	1	6	340	329	99	0	5	4	71	77	88	0	9	7	403	404	99	0	15	4	16	45	99	1	2	-2	234	237	99
0	1	7	54	31	88	0	5	5	208	220	99	0	9	8	129	141	99	1	0	-14	177	177	99	1	2	-1	260	253	99
0	1	8	409	398	99	0	5	6	237	234	99	0	9	9	239	227	99	1	0	-12	352	358	99	1	2	0	867	851	99
0	1	9	77	80	99	0	5	7	237	229	99	0	9	10	-52	17	99	1	0	-10	311	298	99	1	2	1	126	128	84
0	1	10	-45	41	99	0	5	8	251	255	99	0	9	11	-46	23	99	1	0	-8	147	149	99	1	2	2	430	438	99
0	1	11	213	217	99	0	5	9	255	250	99	0	10	0	347	342	99	1	0	-6	251	246	99	1	2	3	135	59	99
0	1	12	46	5	99	0	5	10	138	142	99	0	10	1	86	90	99	1	0	-4	119	117	78	1	2	4	835	842	99
0	1	13	133	132	99	0	5	11	145	130	99	0	10	2	132	145	99	1	0	-2	406	401	99	1	2	5	291	283	99
0	1	14	-85	8	99	0	5	12	98	103	99	0	10	3	213	210	99	1	0	2	1646	1646	99	1	2	6	523	518	99
0	2	0	399	405	99	0	5	13	93	96	99	0	10	4	206	200	99	1	0	4	211	208	99	1	2	7	125	117	99
0	2	1	46	50	41	0	6	0	650	648	99	0	10	5	38	5	99	1	0	6	274	266	99	1	2	8	317	293	99
0	2	2	1205	1236	99	0	6	1	151	154	99	0	10	6	442	424	99	1	0	8	158	150	99	1	2	9	65	79	99
0	2	3	1150	1175	99	0	6	2	296	304	99	0	10	7	-72	40	99	1	0	10	297	300	99	1	2	10	82	70	99
0	2	4	542	542	99	0	6	3	-46	2	99	0	10	8	264	255	99	1	0	12	74	80	99	1	2	11	93	102	99
0	2	5	27	7	65	0	6	4	164	174	99	0	10	9	-53	10	99	1	0	14	63	61	99	1	2	12	17	12	99
0	2	6	180	181	99	0	6	5	286	288	99	0	10	10	-15	58	99	1	1	-14	-42	34	99	1	2	13	20	44	99
0	2	7	-41	3	99	0	6	6	41	33	99	0	10	11	31	17	99	1	1	-13	211	214	99	1	2	14	123	129	99
0	2	8	96	106	99	0	6	7	117	120	99	0	11	1	20	19	99	1	1	-12	47	54	99	1	3	-14	52	74	99
0	2	9	210	216	99	0	6	8	373	368	99	0	11	2	342	338	99	1	1	-11	320	335	99	1	3	-13	112	104	99
0	2	10	72	72	99	0	6	9	73	69	99	0	11	3	163	168	99	1	1	-10	96	103	99	1	3	-12	43	29	99
0	2	11	94	91	99	0	6	10	181	191	99	0	11	4	100	102	99	1	1	-9	253	261	99	1	3	-11	130	138	99
0	2	12	115	118	99	0	6	11	104	98	99	0	11	5	215	225	99	1	1	-8	155	151	99	1	3	-10	155	160	99
0	2	13	-21	1	99	0	6	12	190	189	99	0	11	6	81	96	99	1	1	-7	23	23	95	1	3	-9	314	307	99
0	2	14	123	122	99	0	6	13	96	94	99	0	11	7	165	163	99	1	1	-6	121	117	99	1	3	-8	161	158	99
0	3	1	306	313	99	0	7	1	298	293	99	0	11	8	120	105	99	1	1	-5	-71	15	99	1	3	-7	383	371	99
0	3	2	534	555	99	0	7	2	167	157	99	0	11	9	188	180	99	1	1	-4	275	281	99	1	3	-6	160	169	99
0	3	3	363	376	99	0	7	3	229	240	99	0	11	10	-50	33	99	1	1	-3	85	89	61	1	3	-5	228	230	99
0	3	4	496	497	99	0	7	4	463	456	99	0	12	0	322	316	99	1	1	-2	637	648	99	1	3	-4	37	41	99
0	3	5	802	809	99	0	7	5	-19	34	99	0	12	1	21	4	99	1	1	-1	712	705	99	1	3	-3	555	537	99
0	3	6	88	84	99	0	7	6	42	9	99	0	12	2	-35	53	99	1	1	1	1030	1009	99	1	3	-2	541	535	99
0	3	7	225	225	99	0	7	7	345	342	99	0	12	3	208	208	99	1	1	2	1291	1286	99	1	3	-1	100	99	65
0	3	8	20	22	99	0	7	8	148	144	99	0	12	4	108	104	99	1	1	3	736	739	99	1	3	0	228	214	99
0	3	9	80	75	99	0	7	9	229	228	99	0	12	5	163	157	99	1	1	4	114	110	84	1	3	1	135	130	92
0	3	10	45	65	99	0	7	10	60	62	99	0	12	6	102	94	99	1	1	5	463	457	99	1	3	2	353	347	99
0	3	11	54	10	99	0	7	11	285	270	99	0	12	7	65	10	99	1	1	6	384	368	99	1	3	3	984	982	99
0	3	12	151	140	99	0	7	12	86	72	99	0	12	8	130	134	99	1	1	7	245	256	99	1	3	4	243	236	99
0	3	13	147	152	99	0	8	0	42	17	99	0	12	9	-62	79	99	1	1	8	129	130	99	1	3	5	919	900	99
0	3	14	-52	19	99	0	8	1	124	117	99	0	13	1	202	196	99	1	1	9	219	208	99	1	3	6	199	187	99
0	4	0	83	84	73	0	8	2	-19	14	99	0	13	2	60	51	99	1	1	10	98	75	99	1	3	7	303	319	99
0	4	1	118	116	87	0	8	3	507	521	99	0	13	3	107	101	99	1	1	11	76	66	99	1	3	8	-29	32	99
0	4	2	429	427	99	0	8	4	395	386	99	0	13	4	109	108	99	1	1	12	47	53	99	1	3	9	-43	29	99
0	4	3	262	261	99	0	8	5	76	69	99	0	13	5	44	26	99	1	1	13	44	42	99	1	3	10	151	141	99
0	4	4	378	388	99	0	8	6	305	311	99	0	13	6	9	51	99	1	1	14	-49	20	99	1	3	11	52	15	99
0	4	5	505	506	99	0	8	7	76	65	99	0	13	7	61	83	99	1	2	-14	123	134	99	1	3	12	50	15	99
1	3	13	-57	53	99	1	6	-13	-86	11	99	1	8	-9	184	183	99	1	10	-1	-34	8	99	1	13	-5	56	43	99
1	4	-13	34	62	99	1	6	-12	118	104	99	1	8	-8	171	168	99	1	10	0	-21	14	99	1	13	-4	44	39	99
1	4	-12	93	87	99	1	6	-11	-16	42	99	1	8	-7	25	62	99	1	10	1	77	92	99	1	13	-3	195	199	99
1	4	-11	38	30	99	1	6	-10	104	126	99	1	8	-6	320	313	99	1	10	2	40	71	99	1	13	-2	95	94	99
1	4	-10	179	181	99	1	6	-9	78	57	99	1	8	-5	90	84	98	1	10	3	76	61	99	1	13	-1	231	225	99
1	4	-9	122	124	99	1	6	-8	167	171	99	1	8	-4	511	517	99	1	10	4	298	314	99	1	13	0	38	69	99
1	4	-8	264	259	99	1	6	-7	177	178	99	1	8	-3	196	189	99	1	10	5	124	132	99	1	13	1	147	144	99
1	4	-7	149	151	99	1	6	-6	148	140	99	1	8	-2	361	357	99	1	10	6	65	58	99	1	13	2	171	169	99
1	4	-6	366	367	99	1	6	-5	91	93	99	1	8	-1	179	173	99	1	10	7	-54	27	99	1	13	3	35	57	99
1	4	-5	134	133	99	1	6	-4	293	313	99	1	8	0	182	175	99	1	10	8	141	147	99	1	13	4	-51	8	99
1	4	-4	630	610	99	1	6	-3	146	151	99	1	8	1	107	99	92	1	10	9	-22	48	99	1	13	5	18	19	99
1	4	-3	201	201	99	1	6	-2	807	799	99	1	8	2	170	161	99	1	10	10	102	107	99	1	13	6	92	99	99
1	4	-2	122	117	92	1	6	-1	88	98	69	1	8	3	185	175	99	1	11	-10	48	73	99	1	13	7	-32	41	99
1	4	-1	330	333	99	1	6	0	447	458	99	1	8	4	161	158	99	1	11	-9	32	43	99	1	14	-6	74	77	99
1	4	0	304	294	99	1	6	1	412	406	99	1	8	5	136	137	99	1	11	-8	111	109	99	1	14	-5	45	65	99
1	4	1	668	659	99	1	6	2	152	160	99	1	8	6	303	293	99	1	11	-7	203	211	99	1	14	-4	37	33	99
1	4	2	511	516	99	1	6	3	108	114	89	1	8	7	164	167	99	1	11	-6	28	24	99	1	14	-3	-82	9	99
1	4	3	366	382	99	1	6	4	180	180	99	1	8	8	143	146	99	1	11	-5	263	271	99	1	14	-2	141	140	99
1	4	4	496	518	99	1	6	5	107	103	95	1	8	9	61	60	99	1	11	-4	129	130	99	1	14	-1	91	83	99
1	4	5	115	129	99	1	6	6	174	179	99	1	8	10	165	162	99	1	11	-3	241	239	99	1	14	0	116	120	99
1	4	6	517	529	99	1	6	7	320	315	99	1	8	11	-24	29	99	1	11	-2	185	183	99	1	14	1	139	151	99
1	4	7	411	401	99	1	6	8	230	229	99	1	8	12	192	189	99	1	11	-1	191	189	99	1	14	2	111	104	99
1	4	8	132	122	99	1	6	9	75	76	99	1	9	-11	15	8	99	1	11	0	149	146	99	1	14	3	117	129	99
1	4	9	270	265	99	1	6	10	386	374	99	1	9	-10	-30	24	99	1	11	1	155	149	99	1	14	4	30	68	99
1	4	10	44	25	99	1	6	11	46	15	99	1	9	-9	122	118	99	1	11	2	195	198	99	1	14	5	78	73	99
1	4	11	21	45	99	1	6	12	156	148	99	1	9	-8	107	103	99	1	11	3	-13	36	99	1	14	6	93	96	99
1	4	12	95	99	99	1	6	13	49	67	99	1	9	-7	296	298	99	1	11	4	77	77	99	1	15	-4	56	55	99
1	4	13	109	105	99	1	7	-12	36	51	99	1	9	-6	29	18	99	1	11	5	24	11	99	1	15	-3	45	44	99
1	5	-13	101	96	99	1	7	-11	81	67	99	1	9	-5	480	474	99	1	11	6	-44	52	99	1	15	-2	16	17	99
1	5	-12	-82	25	99	1	7	-10	115	112	99	1	9	-4	176	179	99	1	11	7	153	161	99	1	15	-1	49	42	99
1	5	-11	138	133	99	1	7	-9	135	134	99	1	9	-3	420	419	99	1	11	8	35	19	99	1	15	0	158	161	99
1	5	-10	46	7	99	1	7	-8	89	94	99	1	9	-2	39	85	99	1	11	9	89	105	99	1	15	1	-33	38	99
1	5	-9	115	116	99	1	7	-7	204	205	99	1	9	-1	48	53	81	1	11	10	-92	2	99	1	15	2	66	57	99
1	5	-8	129	139	99	1	7	-6	106	114	99	1	9	0	53	45	82	1	12	-9	123	125	99	1	15	3	152	149	99
1	5	-7	261	266	99	1	7	-5	282	294	99	1	9	1	13	32	99	1	12	-8	44	67	99	2	0	-14	131	133	99
1	5	-6	164	162	99	1	7	-4	29	16	68	1	9	2	114	113	99	1	12	-7	93	100	99	2	0	-12	184	177	99
1	5	-5	386	386	99	1	7	-3	349	347	99	1	9	3	128	125	99	1	12	-6	81	87	99	2	0	-10	279	274	99
1	5	-4	228	238	99	1	7	-2	482	474	99	1	9	4	31	42	99	1	12	-5	45	50	99	2	0	-8	357	350	99
1	5	-3	336	343	99	1	7	-1	803	792	99	1	9	5	215	213	99	1	12	-4	226	218	99	2	0	-6	253	254	99
1	5	-2	-8	18	99	1	7	0	55	54	64	1	9	6	67	69	99	1	12	-3	104	115	99	2	0	-4	465	442	99
1	5	-1	317	320	99	1	7	1	348	339	99	1	9	7	143	137	99	1	12	-2	222	207	99	2	0	-2	169	153	99
1	5	0	649	641	99	1	7	2	85	84	79	1	9	8	-64	15	99	1	12	-1	173	172	99	2	0	0	805	799	99
1	5	1	694	691	99	1	7	3	130	135	99	1	9	9	146	139	99	1	12	0	271	267	99	2	0	2	119	115	77
1	5	2	438	441	99	1	7	4	167	167	99	1	9	10	91	85	99	1	12	1	-14	2	99	2	0	4	9	57	99
1	5	3	254	258	99	1	7	5	74	75	94	1	9	11	130	133	99	1	12	2	127	119	99	2	0	6	297	299	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	5	4	208	208	99	1	7	6	-46	24	99	1	10	-11	40	31	99	1	12	3	-35	14	99	2	0	8	751	728	99
1	5	5	31	65	99	1	7	7	149	142	99	1	10	-10	-25	19	99	1	12	4	79	74	99	2	0	10	236	227	99
1	5	6	350	351	99	1	7	8	62	58	99	1	10	-9	67	66	99	1	12	5	51	32	99	2	0	12	118	130	99
1	5	7	263	252	99	1	7	9	311	315	99	1	10	-8	165	166	99	1	12	6	45	51	99	2	1	-14	-35	36	99
1	5	8	411	413	99	1	7	10	90	88	99	1	10	-7	32	17	99	1	12	7	-54	37	99	2	1	-13	145	146	99
1	5	9	187	183	99	1	7	11	190	201	99	1	10	-6	373	387	99	1	12	8	92	96	99	2	1	-12	21	29	99
1	5	10	42	38	99	1	7	12	53	53	99	1	10	-5	73	67	99	1	12	9	58	60	99	2	1	-11	256	248	99
1	5	11	172	170	99	1	8	-12	-25	35	99	1	10	-4	355	365	99	1	13	-8	68	66	99	2	1	-10	124	128	99
1	5	12	-26	79	99	1	8	-11	61	48	99	1	10	-3	110	107	99	1	13	-7	-19	36	99	2	1	-9	352	348	99
1	5	13	104	107	99	1	8	-10	85	92	99	1	10	-2	255	254	99	1	13	-6	107	102	99	2	1	-8	-23	2	99
2	1	-7	353	343	99	2	3	-8	52	55	84	2	5	-7	220	214	99	2	7	-4	72	71	76	2	9	3	212	201	99
2	1	-6	77	81	62	2	3	-7	501	502	99	2	5	-6	354	350	99	2	7	-3	485	491	99	2	9	4	-37	30	99
2	1	-5	298	305	99	2	3	-6	233	228	99	2	5	-5	266	269	99	2	7	-2	104	99	80	2	9	5	232	233	99
2	1	-4	65	63	46	2	3	-5	433	416	99	2	5	-4	545	555	99	2	7	-1	584	579	99	2	9	6	115	115	99
2	1	-3	453	453	99	2	3	-4	321	317	99	2	5	-3	350	348	99	2	7	0	28	41	67	2	9	7	52	47	99
2	1	-2	180	180	99	2	3	-3	111	116	67	2	5	-2	147	146	99	2	7	1	572	565	99	2	9	8	35	22	99
2	1	-1	287	282	99	2	3	-2	74	59	46	2	5	-1	729	710	99	2	7	2	31	17	99	2	9	9	53	33	99
2	1	0	134	135	81	2	3	-1	324	323	99	2	5	0	356	355	99	2	7	3	222	216	99	2	9	10	82	73	99
2	1	1	169	173	99	2	3	0	47	47	42	2	5	1	319	312	99	2	7	4	239	231	99	2	9	11	-59	29	99
2	1	2	179	183	99	2	3	1	455	446	99	2	5	2	641	615	99	2	7	5	172	169	99	2	10	-11	20	17	99
2	1	3	439	427	99	2	3	2	29	15	92	2	5	3	310	319	99	2	7	6	58	69	99	2	10	-10	68	37	99
2	1	4	103	90	63	2	3	3	427	442	99	2	5	4	10	23	99	2	7	7	137	132	99	2	10	-9	-35	22	99
2	1	5	394	381	99	2	3	4	553	542	99	2	5	5	226	222	99	2	7	8	178	174	99	2	10	-8	81	84	99
2	1	6	215	211	99	2	3	5	771	758	99	2	5	6	233	216	99	2	7	9	148	149	99	2	10	-7	-56	12	99
2	1	7	486	503	99	2	3	6	37	19	66	2	5	7	141	139	99	2	7	10	56	53	99	2	10	-6	161	153	99
2	1	8	254	252	99	2	3	7	348	344	99	2	5	8	376	373	99	2	7	11	163	168	99	2	10	-5	22	15	99
2	1	9	336	335	99	2	3	8	33	3	99	2	5	9	118	122	99	2	7	12	133	134	99	2	10	-4	175	172	99
2	1	10	134	124	99	2	3	9	201	193	99	2	5	10	45	71	99	2	8	-12	60	56	99	2	10	-3	-9	9	99
2	1	11	283	272	99	2	3	10	151	150	99	2	5	11	196	191	99	2	8	-11	35	39	99	2	10	-2	255	256	99
2	1	12	82	86	99	2	3	11	82	98	99	2	5	12	47	23	99	2	8	-10	94	106	99	2	10	-1	-52	24	99
2	1	13	5	19	99	2	3	12	78	98	99	2	5	13	87	83	99	2	8	-9	50	52	99	2	10	0	270	264	99
2	2	-14	45	21	99	2	3	13	139	144	99	2	6	-13	30	54	99	2	8	-8	29	17	99	2	10	1	42	18	88
2	2	-13	35	15	99	2	4	-13	138	137	99	2	6	-12	166	159	99	2	8	-7	29	14	99	2	10	2	313	310	99
2	2	-12	187	182	99	2	4	-12	-19	21	99	2	6	-11	122	115	99	2	8	-6	67	72	97	2	10	3	-46	12	99
2	2	-11	-25	9	99	2	4	-11	179	171	99	2	6	-10	-39	21	99	2	8	-5	-36	11	99	2	10	4	217	218	99
2	2	-10	268	266	99	2	4	-10	267	262	99	2	6	-9	33	27	99	2	8	-4	294	277	99	2	10	5	-51	39	99
2	2	-9	124	126	99	2	4	-9	79	85	99	2	6	-8	-24	24	99	2	8	-3	156	149	99	2	10	6	125	122	99
2	2	-8	438	431	99	2	4	-8	377	361	99	2	6	-7	90	76	91	2	8	-2	596	587	99	2	10	7	70	66	99
2	2	-7	10	23	99	2	4	-7	325	332	99	2	6	-6	76	67	81	2	8	-1	95	100	89	2	10	8	115	98	99
2	2	-6	614	611	99	2	4	-6	393	397	99	2	6	-5	268	284	99	2	8	0	340	350	99	2	10	9	-28	25	99
2	2	-5	66	56	54	2	4	-5	259	260	99	2	6	-4	485	482	99	2	8	1	126	130	99	2	10	10	26	22	99
2	2	-4	168	169	99	2	4	-4	253	251	99	2	6	-3	335	337	99	2	8	2	299	294	99	2	11	-10	36	31	99
2	2	-3	80	76	48	2	4	-3	395	391	99	2	6	-2	469	491	99	2	8	3	125	118	99	2	11	-9	-47	9	99
2	2	-2	111	112	64	2	4	-2	306	312	99	2	6	-1	54	56	59	2	8	4	243	242	99	2	11	-8	-35	27	99
2	2	-1	331	330	99	2	4	-1	108	108	65	2	6	0	909	896	99	2	8	5	213	213	99	2	11	-7	64	66	99
2	2	0	104	111	54	2	4	0	230	213	99	2	6	1	309	312	99	2	8	6	-21	41	99	2	11	-6	17	3	99
2	2	1	198	196	99	2	4	1	284	296	99	2	6	2	152	159	99	2	8	7	96	102	99	2	11	-5	181	184	99
2	2	2	310	310	99	2	4	2	670	652	99	2	6	3	288	297	99	2	8	8	-41	52	99	2	11	-4	-36	25	99
2	2	3	260	246	99	2	4	3	879	860	99	2	6	4	99	97	92	2	8	9	-23	10	99	2	11	-3	182	183	99
2	2	4	610	612	99	2	4	4	468	478	99	2	6	5	53	44	82	2	8	10	13	24	99	2	11	-2	53	62	99
2	2	5	355	349	99	2	4	5	-39	23	99	2	6	6	32	27	99	2	8	11	90	67	99	2	11	-1	282	288	99
2	2	6	612	598	99	2	4	6	434	434	99	2	6	7	43	10	99	2	9	-11	-36	35	99	2	11	0	38	11	99
2	2	7	234	233	99	2	4	7	203	210	99	2	6	8	138	132	99	2	9	-10	33	22	99	2	11	1	257	259	99
2	2	8	220	216	99	2	4	8	207	202	99	2	6	9	96	103	99	2	9	-9	86	85	99	2	11	2	64	66	99
2	2	9	-24	26	99	2	4	9	127	122	99	2	6	10	268	279	99	2	9	-8	73	91	99	2	11	3	211	213	99
2	2	10	261	267	99	2	4	10	-7	32	99	2	6	11	72	64	99	2	9	-7	148	152	99	2	11	4	47	37	99
2	2	11	151	144	99	2	4	11	75	63	99	2	6	12	59	83	99	2	9	-6	81	76	99	2	11	5	69	72	99
2	2	12	39	13	99	2	4	12	141	149	99	2	7	-12	-67	21	99	2	9	-5	116	123	99	2	11	6	148	145	99
2	2	13	107	120	99	2	4	13	-50	9	99	2	7	-11	118	98	99	2	9	-4	91	89	98	2	11	7	94	80	99
2	3	-14	40	82	99	2	5	-13	127	119	99	2	7	-10	40	25	99	2	9	-3	269	262	99	2	11	8	77	83	99
2	3	-13	33	15	99	2	5	-12	154	160	99	2	7	-9	58	61	99	2	9	-2	-44	31	99	2	11	9	64	62	99
2	3	-12	42	72	99	2	5	-11	40	70	99	2	7	-8	39	40	99	2	9	-1	301	308	99	2	12	-9	42	33	99
2	3	-11	192	188	99	2	5	-10	170	183	99	2	7	-7	-11	22	99	2	9	0	70	69	88	2	12	-8	30	8	99
2	3	-10	-29	45	99	2	5	-9	123	116	99	2	7	-6	67	85	91	2	9	1	410	414	99	2	12	-7	-25	51	99
2	3	-9	431	423	99	2	5	-8	-10	19	99	2	7	-5	244	254	99	2	9	2	-41	31	99	2	12	-6	58	47	99
2	12	-5	61	52	99	3	0	0	471	469	99	3	2	6	337	336	99	3	4	7	84	87	99	3	6	10	185	189	99
2	12	-4	183	197	99	3	0	2	60	61	48	3	2	7	262	268	99	3	4	8	226	214	99	3	6	11	-15	29	99
2	12	-3	11	14	99	3	0	4	195	188	99	3	2	8	239	223	99	3	4	9	69	38	99	3	6	12	87	106	99
2	12	-2	229	230	99	3	0	6	92	94	90	3	2	9	98	101	99	3	4	10	90	80	99	3	7	-12	43	25	99
2	12	-1	101	99	99	3	0	8	445	446	99	3	2	10	171	171	99	3	4	11	-41	11	99	3	7	-11	185	186	99
2	12	0	289	283	99	3	0	10	440	464	99	3	2	11	62	54	99	3	4	12	-31	82	99	3	7	-10	-56	3	99
2	12	1	29	26	99	3	0	12	142	149	99	3	2	12	184	187	99	3	5	-13	140	134	99	3	7	-9	-60	12	99
2	12	2	204	203	99	3	1	-14	42	2	99	3	2	13	117	140	99	3	5	-12	103	120	99	3	7	-8	179	175	99
2	12	3	106	97	99	3	1	-13	55	40	99	3	3	-13	-12	13	99	3	5	-11	97	80	99	3	7	-7	18	18	99
2	12	4	-45	31	99	3	1	-12	144	149	99	3	3	-12	20	37	99	3	5	-10	224	233	99	3	7	-6	132	133	99
2	12	5	125	123	99	3	1	-11	68	59	99	3	3	-11	110	117	99	3	5	-9	117	115	99	3	7	-5	100	105	96
2	12	6	-77	38	99	3	1	-10	84	82	99	3	3	-10	35	15	99	3	5	-8	90	95	99	3	7	-4	31	41	99
2	12	7	-28	26	99	3	1	-9	117	124	99	3	3	-9	399	386	99	3	5	-7	175	177	99	3	7	-3	243	248	99
2	12	8	110	113	99	3	1	-8	35	10	99	3	3	-8	246	257	99	3	5	-6	126	128	99	3	7	-2	205	209	99
2	13	-7	32	18	99	3	1	-7	344	347	99	3	3	-7	437	440	99	3	5	-5	315	320	99	3	7	-1	481	486	99
2	13	-6	40	81	99	3	1	-6	262	263	99	3	3	-6	117	111	85	3	5	-4	300	299	99	3	7	0	229	225	99
2	13	-5	89	78	99	3	1	-5	632	627	99	3	3	-5	294	309	99	3	5	-3	279	300	99	3	7	1	274	288	99
2	13	-4	154	157	99	3	1	-4	272	269	99	3	3	-4	265	265	99	3	5	-2	175	178	99	3	7	2	139	139	99
2	13	-3	205	203	99	3	1	-3	868	874	99	3	3	-3	263	257	99	3	5	-1	218	235	99	3	7	3	282	289	99
2	13	-2	-41	5	99	3	1	-2	443	448	99	3	3	-2	187	201	99	3	5	0	97	78	70	3	7	4	84	92	99
2	13	-1	229	232	99	3	1	-1	602	595	99	3	3	-1	172	173	99	3	5	1	519	515	99	3	7	5	228	225	99
2	13	0	38	29	99	3	1	0	405	397	99	3	3	0	151	153	99	3	5	2	197	184	99	3	7	6	224	217	99
2	13	1	111	115	99	3	1	1	180	173	99	3	3	1	370	383	99	3	5	3	337	331	99	3	7	7	226	223	99
2	13	2	122	115	99	3	1	2	172	179	99	3	3	2	342	329	99	3	5	4	4	2	99	3	7	8	130	131	99
2	13	3	69	83	99	3	1	3	-32	30	99	3	3	3	289	302	99	3	5	5	118	126	99	3	7	9	123	126	99
2	13	4	147	152	99	3	1	4	106	111	73	3	3	4	143	143	99	3	5	6	31	37	99	3	7	10	39	31	99
2	13	5	66	49	99	3	1	5	66	68	67	3	3	5	458	456	99	3	5	7	234	228	99	3	7	11	64	41	99
2	13	6	47	27	99	3	1	6	216	209	99	3	3	6	325	322	99	3	5	8	103	118	99	3	8	-12	110	102	99
2	13	7	87	106	99	3	1	7	299	301	99	3	3	7	173	174	99	3	5	9	196	196	99	3	8	-11	82	81	99
2	14	-6	79	59	99	3	1	8	202	208	99	3	3	8	73	73	99	3	5	10	45	5	99	3	8	-10	205	195	99
2	14	-5	74	92	99	3	1	9	398	400	99	3	3	9	70	54	99	3	5	11	118	96	99	3	8	-9	-54	37	99
2	14	-4	83	64	99	3	1	10	96	84	99	3	3	10	67	68	99	3	5	12	87	76	99	3	8	-8	169	167	99
2	14	-3	158	151	99	3	1	11	244	243	99	3	3	11	163	168	99	3	6	-13	-71	1	99	3	8	-7	236	245	99
2	14	-2	112	114	99	3	1	12	25	49	99	3	3	12	105	103	99	3	6	-12	239	236	99	3	8	-6	135	134	99
2	14	-1	54	25	99	3	1	13	126	125	99	3	3	13	119	117	99	3	6	-11	99	92	99	3	8	-5	102	94	99
2	14	0	152	147	99	3	2	-14	16	30	99	3	4	-13	22	28	99	3	6	-10	53	44	99	3	8	-4	57	55	81
2	14	1	137	129	99	3	2	-13	51	30	99	3	4	-12	23	15	99	3	6	-9	172	173	99	3	8	-3	69	48	87

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	14	2	-52	13	99	3	2	-12	29	11	99	3	4	-11	203	201	99	3	6	-8	40	54	99	3	8	-2	260	260	99
2	14	3	162	162	99	3	2	-11	13	47	99	3	4	-10	204	200	99	3	6	-7	-51	33	99	3	8	-1	223	234	99
2	14	4	93	87	99	3	2	-10	218	225	99	3	4	-9	230	225	99	3	6	-6	117	113	97	3	8	0	265	275	99
2	14	5	30	42	99	3	2	-9	17	16	99	3	4	-8	365	367	99	3	6	-5	-10	43	99	3	8	1	171	166	99
2	15	-3	89	65	99	3	2	-8	325	329	99	3	4	-7	121	116	97	3	6	-4	393	396	99	3	8	2	402	403	99
2	15	-2	48	51	99	3	2	-7	343	350	99	3	4	-6	342	357	99	3	6	-3	181	187	99	3	8	3	44	20	99
2	15	-1	26	10	99	3	2	-6	549	547	99	3	4	-5	102	113	79	3	6	-2	429	421	99	3	8	4	386	386	99
2	15	0	62	56	99	3	2	-5	177	178	99	3	4	-4	150	157	99	3	6	-1	210	208	99	3	8	5	153	138	99
2	15	1	48	42	99	3	2	-4	366	377	99	3	4	-3	216	219	99	3	6	0	328	339	99	3	8	6	227	229	99
2	15	2	148	150	99	3	2	-3	90	87	57	3	4	-2	241	244	99	3	6	1	103	102	86	3	8	7	211	213	99
2	15	3	61	54	99	3	2	-2	492	512	99	3	4	-1	212	209	99	3	6	2	238	231	99	3	8	8	96	104	99
3	0	-14	131	123	99	3	2	-1	731	738	99	3	4	0	320	323	99	3	6	3	64	60	79	3	8	9	8	16	99
3	0	-12	142	143	99	3	2	0	231	236	99	3	4	1	74	69	62	3	6	4	218	217	99	3	8	10	38	8	99
3	0	-10	121	112	99	3	2	1	339	344	99	3	4	2	418	415	99	3	6	5	108	114	99	3	8	11	59	67	99
3	0	-8	147	150	99	3	2	2	161	162	99	3	4	3	65	76	70	3	6	6	289	297	99	3	9	-11	163	161	99
3	0	-6	541	549	99	3	2	3	117	120	76	3	4	4	473	463	99	3	6	7	46	39	99	3	9	-10	45	10	99
3	0	-4	1199	1179	99	3	2	4	142	148	99	3	4	5	158	151	99	3	6	8	104	99	99	3	9	-9	183	188	99
3	0	-2	269	276	99	3	2	5	232	237	99	3	4	6	110	117	99	3	6	9	139	136	99	3	9	-8	70	44	99
3	9	-7	106	110	99	3	11	8	123	125	99	4	0	4	59	54	70	4	2	11	54	20	99	4	5	-12	95	75	99
3	9	-6	96	86	99	3	11	9	42	7	99	4	0	6	110	106	96	4	2	12	159	164	99	4	5	-11	166	162	99
3	9	-5	-52	32	99	3	12	-8	40	35	99	4	0	8	93	92	99	4	3	-13	-27	12	99	4	5	-10	121	119	99
3	9	-4	89	91	99	3	12	-7	64	65	99	4	0	10	246	248	99	4	3	-12	51	52	99	4	5	-9	89	101	99
3	9	-3	99	96	99	3	12	-6	-54	28	99	4	0	12	91	98	99	4	3	-11	115	110	99	4	5	-8	21	17	99
3	9	-2	72	76	92	3	12	-5	86	81	99	4	1	-13	116	122	99	4	3	-10	42	51	99	4	5	-7	142	146	99
3	9	-1	138	131	99	3	12	-4	154	160	99	4	1	-12	108	108	99	4	3	-9	246	254	99	4	5	-6	91	92	95
3	9	0	94	88	99	3	12	-3	53	43	99	4	1	-11	29	12	99	4	3	-8	-33	37	99	4	5	-5	380	373	99
3	9	1	463	465	99	3	12	-2	159	156	99	4	1	-10	216	208	99	4	3	-7	406	405	99	4	5	-4	115	118	93
3	9	2	38	36	99	3	12	-1	204	213	99	4	1	-9	-44	34	99	4	3	-6	372	365	99	4	5	-3	285	299	99
3	9	3	470	463	99	3	12	0	171	172	99	4	1	-8	322	330	99	4	3	-5	120	120	85	4	5	-2	373	369	99
3	9	4	107	103	99	3	12	1	142	151	99	4	1	-7	-23	23	99	4	3	-4	117	123	82	4	5	-1	208	207	99
3	9	5	327	327	99	3	12	2	141	141	99	4	1	-6	207	192	99	4	3	-3	198	207	99	4	5	0	-22	24	99
3	9	6	22	44	99	3	12	3	51	59	99	4	1	-5	563	548	99	4	3	-2	25	11	72	4	5	1	202	203	99
3	9	7	93	88	99	3	12	4	151	150	99	4	1	-4	209	201	99	4	3	-1	531	537	99	4	5	2	232	232	99
3	9	8	-24	20	99	3	12	5	78	90	99	4	1	-3	794	808	99	4	3	0	162	163	99	4	5	3	290	286	99
3	9	9	10	22	99	3	12	6	17	33	99	4	1	-2	425	418	99	4	3	1	718	719	99	4	5	4	393	391	99
3	9	10	31	49	99	3	12	7	131	136	99	4	1	-1	680	691	99	4	3	2	301	294	99	4	5	5	216	201	99
3	10	-10	169	173	99	3	12	8	50	75	99	4	1	0	94	96	62	4	3	3	346	358	99	4	5	6	82	78	99
3	10	-9	-37	31	99	3	13	-7	37	36	99	4	1	1	263	263	99	4	3	4	123	130	99	4	5	7	221	217	99
3	10	-8	99	100	99	3	13	-6	32	5	99	4	1	2	138	141	99	4	3	5	170	159	99	4	5	8	115	110	99
3	10	-7	131	127	99	3	13	-5	105	100	99	4	1	3	152	153	99	4	3	6	32	23	86	4	5	9	140	138	99
3	10	-6	132	130	99	3	13	-4	39	51	99	4	1	4	64	58	71	4	3	7	-58	12	99	4	5	10	159	159	99
3	10	-5	34	25	99	3	13	-3	164	156	99	4	1	5	74	82	87	4	3	8	67	73	99	4	5	11	126	144	99
3	10	-4	143	139	99	3	13	-2	78	86	99	4	1	6	113	110	99	4	3	9	75	77	99	4	5	12	86	76	99
3	10	-3	41	55	99	3	13	-1	184	189	99	4	1	7	110	105	99	4	3	10	75	84	99	4	6	-12	77	77	99
3	10	-2	-44	14	99	3	13	0	93	88	99	4	1	8	75	68	99	4	3	11	-42	79	99	4	6	-11	50	36	99
3	10	-1	144	133	99	3	13	1	83	83	99	4	1	9	109	116	99	4	3	12	42	68	99	4	6	-10	131	125	99
3	10	0	297	302	99	3	13	2	18	40	99	4	1	10	-56	29	99	4	4	13	42	6	99	4	6	-9	-33	61	99
3	10	1	44	42	99	3	13	3	-7	45	99	4	1	11	163	174	99	4	4	-12	116	112	99	4	6	-8	100	95	99
3	10	2	417	410	99	3	13	4	92	82	99	4	1	12	13	23	99	4	4	-11	39	23	99	4	6	-7	53	54	95
3	10	3	29	43	99	3	13	5	65	74	99	4	2	-13	165	154	99	4	4	-10	155	162	99	4	6	-6	234	236	99
3	10	4	355	356	99	3	13	6	87	83	99	4	2	-12	14	45	99	4	4	-9	-63	26	99	4	6	-5	70	70	88
3	10	5	46	31	99	3	14	-5	69	69	99	4	2	-11	129	129	99	4	4	-8	326	327	99	4	6	-4	381	382	99
3	10	6	186	183	99	3	14	-4	84	100	99	4	2	-10	150	152	99	4	4	-7	31	22	99	4	6	-3	212	218	99
3	10	7	53	51	99	3	14	-3	64	63	99	4	2	-9	57	68	93	4	4	-6	128	128	99	4	6	-2	329	339	99
3	10	8	23	21	99	3	14	-2	103	111	99	4	2	-8	-31	36	99	4	4	-5	127	125	94	4	6	-1	40	46	72
3	10	9	90	99	99	3	14	-1	-38	39	99	4	2	-7	239	239	99	4	4	-4	162	165	99	4	6	0	51	58	81
3	11	-9	111	122	99	3	14	0	95	104	99	4	2	-6	329	333	99	4	4	-3	202	210	99	4	6	1	123	117	99
3	11	-8	87	91	99	3	14	1	37	30	99	4	2	-5	414	410	99	4	4	-2	245	248	99	4	6	2	29	17	99
3	11	-7	33	55	99	3	14	2	39	78	99	4	2	-4	410	394	99	4	4	-1	80	87	67	4	6	3	269	264	99
3	11	-6	133	137	99	3	14	3	-44	27	99	4	2	-3	-16	2	94	4	4	0	393	405	99	4	6	4	191	194	99
3	11	-5	17	27	99	3	14	4	58	10	99	4	2	-2	148	162	99	4	4	1	116	109	87	4	6	5	110	108	99
3	11	-4	24	2	99	3	15	-2	77	71	99	4	2	-1	339	334	99	4	4	2	428	427	99	4	6	6	155	166	99
3	11	-3	93	89	99	3	15	-1	67	72	99	4	2	0	883	877	99	4	4	3	324	334	99	4	6	7	63	52	99
3	11	-2	139	147	99	3	15	0	-62	16	99	4	2	1	533	524	99	4	4	4	367	375	99	4	6	8	269	252	99
3	11	-1	108	106	99	3	15	1	40	32	99	4	2	2	503	512	99	4	4	5	195	191	99	4	6	9	118	130	99
3	11	0	154	157	99	4	0	-12	114	118	99	4	2	3	118	116	86	4	4	6	76	73	99	4	6	10	157	156	99
3	11	1	283	277	99	4	0	-10	208	210	99	4	2	4	86	94	78	4	4	7	-46	38	99	4	6	11	102	90	99
3	11	2	144	135	99	4	0	-8	-45	38	99	4	2	5	15	51	99	4	4	8	59	45	99	4	7	-12	70	50	99
3	11	3	305	309	99	4	0	-6	242	247	99	4	2	6	44	36	86	4	4	9	171	170	99	4	7	-11	104	97	99
3	11	4	70	57	99	4	0	-4	650	663	99	4	2	7	95	102	99	4	4	10	135	145	99	4	7	-10	122	122	99
3	11	5	157	151	99	4	0	-2	1449	1434	99	4	2	8	127	120	99	4	4	11	131	131	99	4	7	-9	148	146	99
3	11	6	152	151	99	4	0	0	94	112	61	4	2	9	-13	28	99	4	4	12	104	111	99	4	7	-8	95	104	99
3	11	7	63	47	99	4	0	2	143	146	99	4	2	10	-36	45	99	4	5	13	91	97	99	4	7	-7	124	123	99
4	7	-6	317	339	99	4	9	4	76	67	99	4	12	2	68	73	99	5	1	3	413	406	99	5	3	6	86	87	99
4	7	-5	372	365	99	4	9	5	304	306	99	4	12	3	72	62	99	5	1	4	262	257	99	5	3	7	67	68	99
4	7	-4	55	41	83	4	9	6	18	38	99	4	12	4	87	83	99	5	1	5	376	363	99	5	3	8	133	118	99
4	7	-3	149	152	99	4	9	7	160	165	99	4	12	5	12	26	99	5	1	6	130	133	99	5	3	9	82	86	99
4	7	-2	169	167	99	4	9	8	44	13	99	4	12	6	167	174	99	5	1	7	215	216	99	5	3	10	9	25	99
4	7	-1	109	101	94	4	9	9	105	106	99	4	12	7	17	12	99	5	1	8	47	40	99	5	3	11	92	82	99
4	7	0	87	89	92	4	9	10	-27	23	99	4	13	-6	44	79	99	5	1	9	39	14	99	5	4	-12	111	116	99
4	7	1	-7	39	99	4	10	-10	271	270	99	4	13	-5	132	132	99	5	1	10	-22	43	99	5	4	-11	82	72	99
4	7	2	213	212	99	4	10	-9	37	35	99	4	13	-4	43	44	99	5	1	11	-48	10	99	5	4	-10	213	210	99
4	7	3	137	140	99	4	10	-8	249	257	99	4	13	-3	184	177	99	5	1	12	-63	9	99	5	4	-9	31	54	99
4	7	4	-18	10	99	4	10	-7	74	64	99	4	13	-2	65	88	99	5	2	13	53	49	99	5	4	-8	179	170	99
4	7	5	268	268	99	4	10	-6	101	100	99	4	13	-1	115	108	99	5	2	12	154	141	99	5	4	-7	318	323	99
4	7	6	14	39	99	4	10	-5	118	116	99	4	13	0	66	60	99	5	2	11	86	102	99	5	4	-6	274	270	99
4	7	7	365	348	99	4	10	-4	28	23	99	4	13	1	32	22	99	5	2	10	173	179	99	5	4	-5	31	39	99
4	7	8	95	98	99	4	10	-3	-42	29	99	4	13	2	107	100	99	5	2	-9	143	147	99	5	4	-4	199	197	99
4	7	9	231	227	99	4	10	-2	121	122	99	4	13	3	79	71	99	5	2	-8	182	185	99	5	4	-3	456	459	99
4	7	10	68	54	99	4	10	-1	131	139	99	4	13	4	98	105	99	5	2	-7	223	219	99	5	4	-2	356	363	99
4	7	11	-57	53	99	4	10	0	141	145	99	4	13	5	109	116	99	5	2	-6	71	82	83	5	4	-1	501	493	99
4	8	11	101	83	99	4	10	1	88	88	99	4	14	-4	104	110	99	5	2	-5	174	182	99	5	4	0	473	468	99
4	8	10	180	174	99	4	10	2	206	202	99	4	14	-3	78	81	99	5	2	-4	102	94	75	5	4	1	46	36	72
4	8	-9	-29	19	99	4	10	3	39	45	99	4	14	-2	96	84	99	5	2	-3	10	7	99	5	4	2	371	369	99
4	8	-8	252	246	99	4	10	4	312	319	99	4	14	-1	41	40	99	5	2	-2	265	262	99	5	4	3	173	175	99
4	8	-7	166	162	99	4	10	5	71	58	99	4	14	0	86	107	99	5	2	-1	306	313	99	5	4	4	276	274	99
4	8	-6	183	179	99	4	10	6	155	162	99	4	14	1	-16	47	99	5	2	0	486	489	99	5	4	5	250	249	99
4	8	-5	232	236	99	4	10	7	-57	23	99	4	14	2	65	81	99	5	2	1	168	172	99	5	4	6	-3	43	99
4	8	-4	34	18	99	4	10	8	108	110	99	4	14	3	108	112	99	5	2	2	676	686	99	5	4	7	167	184	99
4	8	-3	69	66	84	4	10	9	34	24	99	5	0	-12	210	215	99	5	2	3	137	133	99	5	4	8	86	85	99
4	8	-2	93	87	94	4	11	-9	129	130	99	5	0	-10	38	23	99	5	2	4	316	310	99	5	4	9	34	42	99
4	8	-1	193	195	99	4	11	-8	149	152	99	5	0	-8	141	142	99	5	2	5	-48	2	99	5	4	10	55	79	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	8	0	41	23	86	4	11	-7	166	161	99	5	0	-6	216	213	99	5	2	6	135	132	99	5	4	11	65	63	99
4	8	1	215	217	99	4	11	-6	131	129	99	5	0	-4	488	476	99	5	2	7	99	89	99	5	5	-12	62	58	99
4	8	2	182	190	99	4	11	-5	148	147	99	5	0	-2	197	199	99	5	2	8	-81	11	99	5	5	-11	54	48	99
4	8	3	81	87	99	4	11	-4	158	163	99	5	0	0	430	424	99	5	2	9	129	130	99	5	5	-10	207	203	99
4	8	4	284	286	99	4	11	-3	38	10	99	5	0	2	252	251	99	5	2	10	33	45	99	5	5	-9	150	141	99
4	8	5	78	68	99	4	11	-2	158	161	99	5	0	4	447	434	99	5	2	11	-67	19	99	5	5	-8	161	157	99
4	8	6	321	317	99	4	11	-1	52	22	99	5	0	6	313	305	99	5	2	12	-18	62	99	5	5	-7	236	246	99
4	8	7	89	89	99	4	11	0	128	130	99	5	0	8	161	160	99	5	3	-13	93	99	99	5	5	-6	143	134	99
4	8	8	199	211	99	4	11	1	90	99	99	5	0	10	-17	9	99	5	3	-12	130	122	99	5	5	-5	273	264	99
4	8	9	12	5	99	4	11	2	70	81	99	5	0	12	-33	31	99	5	3	-11	236	235	99	5	5	-4	13	61	99
4	8	10	46	71	99	4	11	3	212	208	99	5	1	-13	171	165	99	5	3	-10	12	64	99	5	5	-3	202	208	99
4	9	-11	184	191	99	4	11	4	-83	2	99	5	1	-12	-14	69	99	5	3	-9	270	268	99	5	5	-2	552	557	99
4	9	-10	48	19	99	4	11	5	152	149	99	5	1	-11	115	112	99	5	3	-8	123	127	99	5	5	-1	347	345	99
4	9	-9	294	290	99	4	11	6	19	14	99	5	1	-10	107	106	99	5	3	-7	-27	39	99	5	5	0	282	283	99
4	9	-8	0	47	99	4	11	7	150	148	99	5	1	-9	38	43	91	5	3	-6	88	84	83	5	5	1	135	136	99
4	9	-7	304	298	99	4	11	8	38	60	99	5	1	-8	122	125	99	5	3	-5	6	11	99	5	5	2	36	21	79
4	9	-6	59	54	99	4	12	-8	105	101	99	5	1	-7	86	77	78	5	3	-4	138	136	99	5	5	3	111	104	99
4	9	-5	67	66	99	4	12	-7	114	120	99	5	1	-6	143	144	99	5	3	-3	61	58	67	5	5	4	486	478	99
4	9	-4	172	167	99	4	12	-6	138	139	99	5	1	-5	92	86	74	5	3	-2	63	77	71	5	5	5	199	193	99
4	9	-3	65	68	97	4	12	-5	158	153	99	5	1	-4	34	32	99	5	3	-1	218	219	99	5	5	6	176	185	99
4	9	-2	99	106	99	4	12	-4	131	137	99	5	1	-3	345	346	99	5	3	0	346	343	99	5	5	7	196	197	99
4	9	-1	69	62	98	4	12	-3	-35	25	99	5	1	-2	-29	15	99	5	3	1	815	831	99	5	5	8	43	14	99
4	9	0	160	158	99	4	12	-2	116	122	99	5	1	-1	521	518	99	5	3	2	134	135	99	5	5	9	132	126	99
4	9	1	257	256	99	4	12	-1	40	69	99	5	1	0	341	331	99	5	3	3	505	489	99	5	5	10	33	72	99
4	9	2	86	81	99	4	12	0	33	16	99	5	1	1	252	253	99	5	3	4	105	114	99	5	5	11	112	104	99
4	9	3	285	287	99	4	12	1	160	161	99	5	1	2	119	125	98	5	3	5	139	136	99	5	6	-12	25	59	99
5	6	-11	17	35	99	5	8	0	126	124	99	5	11	-1	101	99	99	6	1	-3	100	100	81	6	3	4	68	41	96
5	6	-10	-28	40	99	5	8	1	-57	10	99	5	11	0	54	45	99	6	1	-2	224	229	99	6	3	5	101	112	99
5	6	-9	160	158	99	5	8	2	109	113	99	5	11	1	35	13	99	6	1	-1	42	24	62	6	3	6	28	38	99
5	6	-8	142	146	99	5	8	3	69	58	99	5	11	2	31	18	99	6	1	0	43	40	69	6	3	7	141	144	99
5	6	-7	117	111	99	5	8	4	145	149	99	5	11	3	-14	11	99	6	1	1	39	44	75	6	3	8	126	129	99
5	6	-6	205	202	99	5	8	5	85	87	99	5	11	4	37	64	99	6	1	2	152	153	99	6	3	9	-3	32	99
5	6	-5	92	101	99	5	8	6	139	141	99	5	11	5	108	112	99	6	1	3	304	298	99	6	3	10	78	75	99
5	6	-4	700	688	99	5	8	7	53	30	99	5	11	6	53	43	99	6	1	4	249	250	99	6	3	11	148	153	99
5	6	-3	146	150	99	5	8	8	137	145	99	5	11	7	101	81	99	6	1	5	491	480	99	6	4	-12	116	115	99
5	6	-2	197	194	99	5	8	9	76	77	99	5	12	-7	15	37	99	6	1	6	33	8	99	6	4	-11	41	28	99
5	6	-1	266	262	99	5	9	-10	-81	41	99	5	12	-6	197	197	99	6	1	7	284	286	99	6	4	-10	234	226	99
5	6	0	59	63	86	5	9	-9	186	174	99	5	12	-5	32	25	99	6	1	8	138	151	99	6	4	-9	166	171	99
5	6	1	79	63	89	5	9	-8	35	29	99	5	12	-4	215	209	99	6	1	9	151	154	99	6	4	-8	119	126	99
5	6	2	44	23	84	5	9	-7	253	248	99	5	12	-3	122	118	99	6	1	10	57	66	99	6	4	-7	203	198	99
5	6	3	134	127	99	5	9	-6	29	77	99	5	12	-2	136	140	99	6	1	11	-109	29	99	6	4	-6	69	76	91
5	6	4	76	82	99	5	9	-5	187	187	99	5	12	-1	40	15	99	6	2	-12	172	171	99	6	4	-5	165	168	99
5	6	5	220	210	99	5	9	-4	66	64	99	5	12	0	37	15	99	6	2	-11	-47	15	99	6	4	-4	183	188	99
5	6	6	296	297	99	5	9	-3	75	80	99	5	12	1	43	24	99	6	2	-10	214	210	99	6	4	-3	91	92	95
5	6	7	79	78	99	5	9	-2	22	15	99	5	12	2	39	46	99	6	2	-9	73	81	99	6	4	-2	-37	43	99
5	6	8	208	209	99	5	9	-1	73	70	99	5	12	3	30	40	99	6	2	-8	274	274	99	6	4	-1	140	149	99
5	6	9	37	28	99	5	9	0	75	94	99	5	12	4	93	83	99	6	2	-7	60	63	87	6	4	0	543	546	99
5	6	10	132	139	99	5	9	1	213	211	99	5	12	5	32	44	99	6	2	-6	68	75	82	6	4	1	384	381	99
5	7	-11	56	60	99	5	9	2	48	41	99	5	13	-5	164	165	99	6	2	-5	74	75	77	6	4	2	197	193	99
5	7	-10	31	15	99	5	9	3	79	86	99	5	13	-4	55	52	99	6	2	-4	-57	18	99	6	4	3	96	99	99
5	7	-9	43	43	99	5	9	4	92	77	99	5	13	-3	152	153	99	6	2	-3	204	203	99	6	4	4	264	263	99
5	7	-8	45	34	99	5	9	5	-47	13	99	5	13	-2	94	85	99	6	2	-2	103	106	85	6	4	5	64	60	99
5	7	-7	235	234	99	5	9	6	25	10	99	5	13	-1	79	75	99	6	2	-1	39	26	66	6	4	6	46	33	99
5	7	-6	-34	23	99	5	9	7	90	78	99	5	13	0	146	154	99	6	2	0	141	144	99	6	4	7	37	35	99
5	7	-5	451	436	99	5	9	8	39	5	99	5	13	1	50	41	99	6	2	1	96	96	95	6	4	8	72	64	99
5	7	-4	194	190	99	5	9	9	173	166	99	5	13	2	-57	23	99	6	2	2	436	432	99	6	4	9	-59	7	99
5	7	-3	419	418	99	5	10	-9	36	19	99	5	13	3	72	52	99	6	2	3	497	499	99	6	4	10	162	156	99
5	7	-2	89	91	95	5	10	-8	229	218	99	5	13	4	95	110	99	6	2	4	332	338	99	6	5	-11	84	96	99
5	7	-1	-11	45	99	5	10	-7	56	42	99	5	14	-1	167	164	99	6	2	5	101	111	99	6	5	-10	9	6	99
5	7	0	-33	25	99	5	10	-6	166	163	99	5	14	0	104	91	99	6	2	6	99	111	99	6	5	-9	94	103	99
5	7	1	121	124	99	5	10	-5	90	81	99	6	0	-12	125	125	99	6	2	7	122	129	99	6	5	-8	268	280	99
5	7	2	-9	26	99	5	10	-4	127	115	99	6	0	-10	183	181	99	6	2	8	229	233	99	6	5	-7	82	86	99
5	7	3	-3	53	99	5	10	-3	41	18	99	6	0	-8	159	153	99	6	2	9	190	196	99	6	5	-6	158	151	99
5	7	4	79	78	99	5	10	-2	87	90	99	6	0	-6	398	403	99	6	2	10	67	52	99	6	5	-5	283	289	99
5	7	5	122	131	99	5	10	-1	49	25	95	6	0	-4	204	196	99	6	2	11	34	19	99	6	5	-4	170	174	99
5	7	6	73	71	99	5	10	0	115	109	99	6	0	-2	25	30	99	6	3	-12	-70	25	99	6	5	-3	342	337	99
5	7	7	269	268	99	5	10	1	35	6	99	6	0	0	116	118	90	6	3	-11	214	211	99	6	5	-2	377	371	99
5	7	8	65	69	99	5	10	2	165	173	99	6	0	2	111	113	99	6	3	-10	63	64	99	6	5	-1	104	99	99
5	7	9	177	176	99	5	10	3	-34	29	99	6	0	4	352	331	99	6	3	-9	193	201	99	6	5	0	257	257	99
5	7	10	35	4	99	5	10	4	38	30	99	6	0	6	646	647	99	6	3	-8	24	11	93	6	5	1	173	168	99
5	8	-11	55	76	99	5	10	5	10	21	99	6	0	8	147	141	99	6	3	-7	278	283	99	6	5	2	73	76	98
5	8	-10	87	95	99	5	10	6	55	61	99	6	0	10	-28	60	99	6	3	-6	199	199	99	6	5	3	221	223	99
5	8	-9	51	26	99	5	10	7	-34	38	99	6	1	-12	-40	36	99	6	3	-5	161	167	99	6	5	4	37	61	99
5	8	-8	226	219	99	5	10	8	103	127	99	6	1	-11	147	149	99	6	3	-4	58	50	72	6	5	5	102	97	99
5	8	-7	134	137	99	5	11	-8	76	68	99	6	1	-10	-46	8	99	6	3	-3	41	32	69	6	5	6	147	146	99
5	8	-6	316	312	99	5	11	-7	159	152	99	6	1	-9	257	262	99	6	3	-2	97	97	86	6	5	7	126	119	99
5	8	-5	53	56	99	5	11	-6	72	84	99	6	1	-8	-21	34	99	6	3	-1	364	365	99	6	5	8	56	51	99
5	8	-4	144	141	99	5	11	-5	194	177	99	6	1	-7	175	175	99	6	3	0	190	192	99	6	5	9	128	132	99
5	8	-3	41	35	89	5	11	-4	30	26	99	6	1	-6	74	79	80	6	3	1	450	461	99	6	5	10	31	40	99
5	8	-2	241	244	99	5	11	-3	156	156	99	6	1	-5	258	257	99	6	3	2	343	333	99	6	6	-11	29	21	99
5	8	-1	136	142	99	5	11	-2	40	6	99	6	1	-4	141	141	99	6	3	3	285	286	99	6	6	-10	33	33	99
6	6	-9	9	44	99	6	8	5	-9	28	99	6	12	-1	37	46	99	7	2	0	164	159	99	7	5	-9	121	118	99
6	6	-8	137	142	99	6	8	6	-37	9	99	6	12	0	90	101	99	7	2	1	134	136	99	7	5	-8	32	44	99
6	6	-7	194	195	99	6	8	7	43	39	99	6	12	1	50	62	99	7	2	2	71	57	99	7	5	-7	127	126	99
6	6	-6	276	283	99	6	8	8	-48	12	99	6	12	2	-51	31	99	7	2	3	226	223	99	7	5	-6	28	3	99
6	6	-5	178	179	99	6	9	-9	56	17	99	6	12	3	151	153	99	7	2	4	161	163	99	7	5	-5	140	140	99
6	6	-4	221	213	99	6	9	-8	59	56	99	6	12	4	-33	17	99	7	2	5	133	137	99	7	5	-4	46	44	85
6	6	-3	110	117	99	6	9	-7	79	75	99	6	13	-2	29	35	99	7	2	6	85	47	99	7	5	-3	126	125	99
6	6	-2	533	532	99	6	9	-6	-22	14	99	6	13	-1	35	71	99	7	2	7	-43	7	99	7	5	-2	148	145	99
6	6	-1	122	120	99	6	9	-5	121	102	99	6	13	0	81	84	99	7	2	8	184	192	99	7	5	-1	240	235	99
6	6	0	56	63	92	6	9	-4	67	55	99	6	13	1	27	7	99	7	2	9	39	79	99	7	5	0	75	60	93
6	6	1	118	113	99	6	9	-3	206	202	99	7	0	-12	29	38	99	7	2	10	149	161	99	7	5	1	148	150	99
6	6	2	75	60	98	6	9	-2	-26	32	99	7	0	-10	125	130	99	7	3	-11	150	162	99	7	5	2	19	63	99
6	6	3	41	41	99	6	9	-1	292	300	99	7	0	-8	336	330	99	7	3	-10	95	93	99	7	5	3	92	95	99
6	6	4	-18	54	99	6	9	0	-42	13	99	7	0	-6	379	379	99	7	3	-9	115	119	99	7	5	4	32	55	99
6	6	5	42	69	99	6	9	1	291	297	99	7	0	-4	414	418	99	7	3	-8	51	57	97	7	5	5	174	180	99
6	6	6	288	280	99	6	9	2	32	16	99	7	0	-2	51	38	76	7	3	-7	86	95	99	7	5	6	191	189	99
6	6	7	82	79	99	6	9	3	95	98	99	7	0	0	216	221	99	7	3	-6	-29	41	99	7	5	7	154	164	99
6	6	8	103	107	99	6	9	4	91	102	99	7	0	2	-63	14	99	7	3	-5	145	147	99	7	5	8	74	84	99
6	6	9	63	55	99	6	9	5	67	75	99	7	0	4	159	155	99	7	3	-4	191	183	99	7	5	9	7	44	99
6	7	-11	46	42	99	6	9	6	23	38	99	7	0	6	349	368	99	7	3	-3	213	212	99	7	6	-10	61	46	99
6	7	-10	-19	16	99	6	9	7	66	73	99	7	0	8	211	213	99	7	3	-2	120	113	99	7	6	-9	-14	31	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	7	-9	27	16	99	6	9	8	-58	75	99	7	0	10	101	98	99	7	3	-1	186	180	99	7	6	-8	101	100	99
6	7	-8	35	4	99	6	10	-8	68	68	99	7	1	-11	59	30	97	7	3	0	159	159	99	7	6	-7	26	26	99
6	7	-7	110	116	99	6	10	-7	-18	26	99	7	1	-10	89	77	99	7	3	1	249	252	99	7	6	-6	177	177	99
6	7	-6	69	77	99	6	10	-6	-53	33	99	7	1	-9	216	215	99	7	3	2	176	171	99	7	6	-5	53	49	99
6	7	-5	376	379	99	6	10	-5	43	27	99	7	1	-8	112	115	99	7	3	3	158	160	99	7	6	-4	138	142	99
6	7	-4	12	19	99	6	10	-4	143	136	99	7	1	-7	380	372	99	7	3	4	128	134	99	7	6	-3	107	108	99
6	7	-3	296	292	99	6	10	-3	-52	2	99	7	1	-6	32	15	99	7	3	5	43	16	99	7	6	-2	161	157	99
6	7	-2	182	181	99	6	10	-2	245	240	99	7	1	-5	323	323	99	7	3	6	-58	26	99	7	6	-1	79	73	99
6	7	-1	230	228	99	6	10	-1	68	54	99	7	1	-4	175	181	99	7	3	7	-40	10	99	7	6	0	100	93	99
6	7	0	43	52	99	6	10	0	309	301	99	7	1	-3	183	192	99	7	3	8	85	90	99	7	6	1	55	43	99
6	7	1	76	73	99	6	10	1	-64	11	99	7	1	-2	248	248	99	7	3	9	220	222	99	7	6	2	101	88	99
6	7	2	265	263	99	6	10	2	136	132	99	7	1	-1	37	40	74	7	4	-11	35	51	99	7	6	3	84	64	99
6	7	3	26	31	99	6	10	3	111	116	99	7	1	0	95	96	89	7	4	-10	123	128	99	7	6	4	324	309	99
6	7	4	51	31	99	6	10	4	34	16	99	7	1	1	98	90	97	7	4	-9	25	33	99	7	6	5	99	87	99
6	7	5	157	152	99	6	10	5	42	72	99	7	1	2	29	23	99	7	4	-8	140	144	99	7	6	6	133	132	99
6	7	6	-3	51	99	6	10	6	115	125	99	7	1	3	12	31	99	7	4	-7	46	44	88	7	6	7	122	118	99
6	7	7	107	89	99	6	10	7	19	27	99	7	1	4	207	214	99	7	4	-6	49	36	85	7	6	8	72	91	99
6	7	8	97	97	99	6	11	-7	71	66	99	7	1	5	246	239	99	7	4	-5	107	106	99	7	7	-10	91	71	99
6	7	9	70	80	99	6	11	-6	26	32	99	7	1	6	73	73	99	7	4	-4	139	146	99	7	7	-9	28	29	99
6	8	-10	-38	17	99	6	11	-5	108	92	99	7	1	7	308	302	99	7	4	-3	30	18	99	7	7	-8	81	83	99
6	8	-9	33	40	99	6	11	-4	110	107	99	7	1	8	131	136	99	7	4	-2	258	252	99	7	7	-7	92	76	99
6	8	-8	-31	27	99	6	11	-3	235	239	99	7	1	9	111	120	99	7	4	-1	21	31	99	7	7	-6	78	74	99
6	8	-7	49	28	99	6	11	-2	97	97	99	7	1	10	-42	26	99	7	4	0	227	225	99	7	7	-5	153	157	99
6	8	-6	139	142	99	6	11	-1	175	174	99	7	2	-11	84	90	99	7	4	1	132	135	99	7	7	-4	135	130	99
6	8	-5	-67	4	99	6	11	0	51	47	99	7	2	-10	118	123	99	7	4	2	239	241	99	7	7	-3	137	136	99
6	8	-4	306	296	99	6	11	1	103	95	99	7	2	-9	143	147	99	7	4	3	53	27	99	7	7	-2	100	96	99
6	8	-3	191	189	99	6	11	2	124	104	99	7	2	-8	151	151	99	7	4	4	44	27	99	7	7	-1	100	92	99
6	8	-2	228	227	99	6	11	3	42	64	99	7	2	-7	2	43	99	7	4	5	130	137	99	7	7	0	114	118	99
6	8	-1	-6	38	99	6	11	4	138	142	99	7	2	-6	312	311	99	7	4	6	149	147	99	7	7	1	168	167	99
6	8	0	264	272	99	6	11	5	64	48	99	7	2	-5	122	126	99	7	4	7	76	79	99	7	7	2	102	94	99
6	8	1	-25	10	99	6	12	-5	-4	19	99	7	2	-4	186	179	99	7	4	8	84	76	99	7	7	3	272	266	99
6	8	2	148	143	99	6	12	-4	162	160	99	7	2	-3	286	275	99	7	4	9	81	57	99	7	7	4	199	208	99
6	8	3	249	250	99	6	12	-3	106	99	99	7	2	-2	135	133	99	7	5	-11	56	66	99	7	7	5	169	156	99
6	8	4	42	36	99	6	12	-2	121	140	99	7	2	-1	211	219	99	7	5	-10	25	7	99	7	7	6	59	40	99
7	7	7	90	90	99	7	11	3	80	81	99	8	3	-8	129	127	99	8	6	-7	35	66	99	8	10	-3	22	21	99
7	7	8	-41	18	99	7	12	-2	-36	64	99	8	3	-7	27	10	99	8	6	-6	172	167	99	8	10	-2	23	17	99
7	8	-9	78	74	99	7	12	-1	63	66	99	8	3	-6	108	102	99	8	6	-5	105	100	99	8	10	-1	-48	10	99
7	8	-8	38	11	99	7	12	0	45	46	99	8	3	-5	116	121	99	8	6	-4	44	10	99	8	10	0	165	169	99
7	8	-7	20	34	99	7	12	1	58	41	99	8	3	-4	42	33	88	8	6	-3	-16	40	99	8	10	1	34	44	99
7	8	-6	42	8	99	8	0	-10	12	32	99	8	3	-3	329	321	99	8	6	-2	-27	8	99	8	10	2	81	84	99
7	8	-5	67	73	99	8	0	-8	154	154	99	8	3	-2	91	89	99	8	6	-1	128	131	99	9	0	-8	74	83	99
7	8	-4	97	93	99	8	0	-6	351	352	99	8	3	-1	348	346	99	8	6	0	65	54	99	9	0	-6	100	104	99
7	8	-3	151	148	99	8	0	-4	261	261	99	8	3	0	66	52	99	8	6	1	141	148	99	9	0	-4	38	23	88
7	8	-2	110	111	99	8	0	-2	183	185	99	8	3	1	156	154	99	8	6	2	132	131	99	9	0	-2	111	112	99
7	8	-1	97	106	99	8	0	0	25	18	99	8	3	2	132	130	99	8	6	3	87	95	99	9	0	0	164	160	99
7	8	0	307	301	99	8	0	2	205	209	99	8	3	3	35	26	99	8	6	4	165	165	99	9	0	2	300	292	99
7	8	1	69	75	99	8	0	4	-29	20	99	8	3	4	-40	3	99	8	6	5	73	80	99	9	0	4	224	237	99
7	8	2	258	255	99	8	0	6	101	98	99	8	3	5	40	68	99	8	6	6	264	268	99	9	0	6	-68	8	99
7	8	3	152	149	99	8	0	8	125	133	99	8	3	6	39	15	99	8	6	7	80	78	99	9	1	-9	67	77	99
7	8	4	119	112	99	8	1	-10	105	103	99	8	3	7	100	92	99	8	7	-8	89	78	99	9	1	-8	-29	4	99
7	8	5	73	79	99	8	1	-9	54	68	99	8	3	8	44	71	99	8	7	-7	123	122	99	9	1	-7	37	61	99
7	8	6	93	92	99	8	1	-8	65	60	97	8	4	-10	80	79	99	8	7	-6	-31	8	99	9	1	-6	93	91	99
7	8	7	32	27	99	8	1	-7	219	218	99	8	4	-9	-22	20	99	8	7	-5	87	84	99	9	1	-5	58	50	92
7	9	-8	36	19	99	8	1	-6	34	35	99	8	4	-8	14	22	99	8	7	-4	42	49	99	9	1	-4	45	43	99
7	9	-7	-44	53	99	8	1	-5	280	282	99	8	4	-7	148	148	99	8	7	-3	-45	13	99	9	1	-3	100	91	99
7	9	-6	31	3	99	8	1	-4	68	60	94	8	4	-6	69	67	98	8	7	-2	-70	42	99	9	1	-2	41	57	97
7	9	-5	37	50	99	8	1	-3	241	234	99	8	4	-5	121	122	99	8	7	-1	58	50	99	9	1	-1	183	184	99
7	9	-4	36	31	99	8	1	-2	93	95	97	8	4	-4	185	186	99	8	7	0	85	80	99	9	1	0	107	102	99
7	9	-3	163	159	99	8	1	-1	186	186	99	8	4	-3	71	71	98	8	7	1	95	103	99	9	1	1	259	267	99
7	9	-2	40	77	99	8	1	0	-25	38	99	8	4	-2	231	226	99	8	7	2	-28	12	99	9	1	2	25	41	99
7	9	-1	209	207	99	8	1	1	108	114	99	8	4	-1	162	159	99	8	7	3	208	204	99	9	1	3	177	183	99
7	9	0	34	45	99	8	1	2	162	165	99	8	4	0	215	211	99	8	7	4	21	53	99	9	1	4	71	81	99
7	9	1	317	327	99	8	1	3	-27	36	99	8	4	1	175	168	99	8	7	5	254	253	99	9	1	5	104	92	99
7	9	2	57	54	99	8	1	4	64	68	99	8	4	2	108	106	99	8	7	6	45	5	99	9	1	6	38	50	99
7	9	3	206	206	99	8	1	5	82	85	99	8	4	3	169	167	99	8	8	-7	35	13	99	9	1	7	-52	7	99
7	9	4	-42	38	99	8	1	6	34	46	99	8	4	4	53	58	99	8	8	-6	38	40	99	9	2	-9	81	75	99
7	9	5	-7	25	99	8	1	7	38	37	99	8	4	5	-33	19	99	8	8	-5	-46	57	99	9	2	-8	51	37	99
7	9	6	48	27	99	8	1	8	93	72	99	8	4	6	53	25	99	8	8	-4	-70	12	99	9	2	-7	48	38	91
7	10	-7	-23	19	99	8	2	-10	25	13	99	8	4	7	120	109	99	8	8	-3	119	115	99	9	2	-6	40	22	99
7	10	-6	23	46	99	8	2	-9	147	145	99	8	4	8	160	159	99	8	8	-2	45	45	99	9	2	-5	75	59	91
7	10	-5	-70	12	99	8	2	-8	59	54	99	8	5	-9	92	91	99	8	8	-1	27	37	99	9	2	-4	143	143	99
7	10	-4	45	34	99	8	2	-7	-45	31	99	8	5	-8	-7	15	99	8	8	0	54	43	99	9	2	-3	38	13	89
7	10	3	59	51	99	8	2	-6	109	107	99	8	5	-7	138	143	99	8	8	1	33	5	99	9	2	-2	332	330	99
7	10	-2	232	235	99	8	2	-5	59	49	89	8	5	-6	186	186	99	8	8	2	196	187	99	9	2	-1	181	184	99
7	10	-1	79	62	99	8	2	-4	297	303	99	8	5	-5	125	115	99	8	8	3	68	60	99	9	2	0	257	256	99
7	10	0	280	276	99	8	2	-3	118	111	99	8	5	-4	174	165	99	8	8	4	194	193	99	9	2	1	58	44	99
7	10	1	-23	42	99	8	2	-2	295	299	99	8	5	-3	92	91	99	8	8	5	-24	3	99	9	2	2	168	165	99
7	10	2	180	179	99	8	2	-1	25	19	99	8	5	-2	29	63	99	8	9	-6	24	16	99	9	2	3	61	50	99
7	10	3	107	105	99	8	2	0	237	244	99	8	5	-1	83	73	99	8	9	-5	-39	13	99	9	2	4	-26	40	99
7	10	4	98	102	99	8	2	1	90	88	99	8	5	0	209	210	99	8	9	-4	-61	39	99	9	2	5	117	96	99
7	10	5	19	30	99	8	2	2	-53	16	99	8	5	1	130	131	99	8	9	-3	-37	13	99	9	2	6	58	42	99
7	11	-5	34	42	99	8	2	3	91	88	99	8	5	2	186	189	99	8	9	-2	37	38	99	9	2	7	28	66	99
7	11	-4	77	71	99	8	2	4	62	63	99	8	5	3	132	142	99	8	9	-1	120	106	99	9	3	-9	79	73	99
7	11	-3	-47	48	99	8	2	5	16	2	99	8	5	4	70	64	99	8	9	0	36	40	99	9	3	-8	-10	7	99
7	11	-2	157	160	99	8	2	6	-42	15	99	8	5	5	123	121	99	8	9	1	121	126	99	9	3	-7	39	24	99
7	11	-1	209	206	99	8	2	7	19	0	99	8	5	6	90	91	99	8	9	2	91	65	99	9	3	-6	71	59	98
7	11	0	30	10	99	8	2	8	31	9	99	8	5	7	119	109	99	8	9	3	167	166	99	9	3	-5	95	91	99
7	11	1	151	152	99	8	3	-10	16	25	99	8	6	-9	-38	15	99	8	9	4	-22	41	99	9	3	-4	83	81	99
7	11	2	32	45	99	9	3	-9	-46	26	99	8	6	-8	190	184	99	8	10	-4	-33	33	99	9	3	-3	221	224	99
9	3	-2	78	75	99	9	7	-2	45	52	99	10	3	0	95	107	99												
9	3	-1	289	291	99	9	7	-1	58	43	99	10	3	1	31	12	99												
9	3	0	37	20	99	9	7	0	56	53	99	10	3	2	33	38	99												
9	3	1	143	139	99	9	7	1	48	61	99	10	3	3	-37	60	99												
9	3	2	28	31	99	9	7	2	44	17	99	10	3	4	-16	14	99												
9	3	3	46	50	99	9	7	3	76	93	99	10	4	-6	25	58	99												
9	3	4	119	105	99	9	7	4	-62	60	99	10	4	-5	-49	17	99												
9	3	5	40	12	99	9	8	-5	41	34	99	10	4	-4	63	78	99												
9	3	6	86	70	99	9	8	-4	113	110	99	10	4	-3	45	46	99												
9	4	-8	-10	39	99	9	8	-3	-40	35	99	10	4	-2	183	189	99												
9	4	-7	39	56	99	9	8	-2	-7	26	99	10	4	-1	64	66	99												
9	4	-6	21	27	99	9	8	-1	76	74	99	10	4	0	-38	61	99												
9	4	-5	189	186	99	9	8	0	36	11	99	10	4	1	29	16	99												
9	4	-4	200	199	99	9	8	1	67	63	99	10	4	2	47	44	99												

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	4	-3	192	192	99	9	8	2	36	10	99	10	4	3	-39	29	99												
9	4	-2	215	210	99	9	8	3	-72	7	99	10	5	-5	98	96	99												
9	4	-1	66	58	99	9	9	-2	-27	18	99	10	5	-4	138	133	99												
9	4	0	164	154	99	9	9	-1	-92	38	99	10	5	-3	-41	44	99												
9	4	1	78	90	99	9	9	0	-21	7	99	10	5	-2	-65	21	99												
9	4	2	15	38	99	10	0	-6	-18	23	99	10	5	-1	49	66	99												
9	4	3	117	120	99	10	0	-4	122	131	99	10	5	0	-28	17	99												
9	4	4	70	67	99	10	0	-2	52	43	99	10	5	1	105	117	99												
9	4	5	55	44	99	10	0	0	111	104	99	10	5	2	38	45	99												
9	4	6	69	51	99	10	0	2	247	254	99	10	6	-4	36	68	99												
9	5	-8	-64	48	99	10	0	4	239	233	99	10	6	-3	57	24	99												
9	5	-7	96	89	99	10	1	-7	114	111	99	10	6	-2	-71	9	99												
9	5	-6	163	165	99	10	1	-6	89	92	99	10	6	-1	26	37	99												
9	5	-5	108	94	99	10	1	-5	42	22	95	10	6	0	106	100	99												
9	5	-4	203	205	99	10	1	-4	85	80	99	10	6	1	60	52	99												
9	5	-3	110	108	99	10	1	-3	72	73	99	11	0	-2	49	62	99												
9	5	-2	44	48	99	10	1	-2	85	67	99	11	0	0	-8	7	99												
9	5	-1	-15	55	99	10	1	-1	-48	30	99	11	1	-3	-36	20	99												
9	5	0	77	80	99	10	1	0	142	139	99	11	1	-2	94	99	99												
9	5	1	50	71	99	10	1	1	203	204	99	11	1	-1	41	19	99												
9	5	2	127	137	99	10	1	2	94	82	99	11	1	0	21	2	99												
9	5	3	109	108	99	10	1	3	212	202	99	11	2	-2	35	59	99												
9	5	4	-64	63	99	10	1	4	93	83	99	11	2	-1	136	126	99												
9	5	5	98	90	99	10	2	-7	115	118	99																		
9	6	-7	40	42	99	10	2	-6	23	22	99																		
9	6	-6	231	239	99	10	2	-5	118	115	99																		
9	6	-5	71	67	99	10	2	-4	87	98	99																		
9	6	-4	12	28	99	10	2	-3	41	42	99																		
9	6	-3	122	114	99	10	2	-2	-52	49	99																		
9	6	-2	15	18	99	10	2	-1	121	129	99																		
9	6	-1	-17	44	99	10	2	0	109	107	99																		
9	6	0	-58	20	99	10	2	1	152	157	99																		
9	6	1	95	96	99	10	2	2	109	112	99																		
9	6	2	119	126	99	10	2	3	21	11	99																		
9	6	3	63	76	99	10	2	4	135	122	99																		
9	6	4	103	92	99	10	3	-6	37	31	99																		
9	6	5	-47	37	99	10	3	-5	66	70	99																		
9	7	-6	46	18	99	10	3	-4	32	26	99																		
9	7	-5	124	127	99	10	3	-3	167	174	99																		
9	7	-4	-33	11	99	10	3	-2	93	91	99																		
9	7	-3	-44	22	99	10	3	-1	166	157	99																		

APPENDIX 4.I

$[Te(S_2COnPr)_2]$

Table 4.I.1: Crystallographic Parameters for $[Te(S_2COCH_2CH_2CH_3)_2]$

Formula	$C_8H_{14}O_2S_4Te$
Formula weight	398.04
Crystal morphology / colour	needle / red
Crystal dimensions (mm)	0.08 x 0.08 x 0.65
Crystal system	monoclinic
Space group	$P2_1$ (#4)
a (Å)	10.501(6)
b (Å)	5.973(3)
c (Å)	12.0551(9)
α (°)	90
β (°)	102.39(2)
γ (°)	90
V (Å^3)	738.6(4)
Z	2
$\rho_{calc.}$ (g cm^{-3})	1.790
$F(000)$	388
Temperature (°K)	293
μ (cm^{-1})	25.43
θ limits, cell (°)	16.2 – 20.8
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 13, 0 – 7, -15 – 14
Range of transmission factors	0.904 – 1
Scan technique	ω:2θ
No. of data measured	1974
No. of unique data	1878
R_{amal}	0.036
No. of parameters	135
R (I≥0σ(I))	0.077
R_w (I≥0σ(I))	0.077
R (I≥3σ(I))	0.046
R_w (I≥3σ(I))	0.037
Maximum and minimum residual electron density (e Å^{-3})	1.41, -1.62

Table 4.I.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Te(S_2COCH_2CH_2CH_3)_2]$

Atom	*x*	*y*	*z*
Te	0.02604(5)	0	0.79763(4)
S(1)	-0.1295(2)	0.2725(4)	0.6843(1)
S(2)	-0.0977(2)	0.2946(4)	0.9318(2)
S(3)	0.0506(2)	-0.1283(4)	0.6064(1)
S(4)	0.2069(2)	-0.3625(4)	0.8051(2)
O(1)	-0.2527(5)	0.547(1)	0.7806(4)
O(2)	0.2024(5)	-0.446(1)	0.5894(4)
C(1)	-0.1618(8)	0.381(2)	0.8055(6)
C(2)	-0.2920(9)	0.670(1)	0.8740(7)
C(3)	-0.3930(10)	0.830(2)	0.8194(8)
C(4)	-0.4478(9)	0.966(2)	0.9031(8)
C(5)	0.1614(7)	-0.326(1)	0.6677(6)
C(6)	0.2961(8)	-0.626(2)	0.6235(8)
C(7)	0.3100(9)	-0.745(2)	0.5150(7)
C(8)	0.4069(9)	-0.934(2)	0.5413(8)

Table 4.I.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Te(S_2COCH_2CH_2CH_3)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Te	0.0507(3)	0.0481(2)	0.0464(2)	-0.0064(5)	0.0145(2)	-0.0016(4)
S(1)	0.072(2)	0.068(2)	0.042(1)	0.013(1)	0.013(1)	0.0004(10)
S(2)	0.086(2)	0.066(2)	0.044(1)	0.011(2)	0.017(1)	-0.003(1)
S(3)	0.056(2)	0.063(1)	0.0449(10)	0.009(1)	0.015(1)	0.0026(10)
S(4)	0.068(2)	0.074(2)	0.055(1)	0.004(2)	0.004(1)	0.002(1)
O(1)	0.071(4)	0.069(6)	0.064(3)	0.023(4)	0.023(3)	0.004(3)
O(2)	0.050(4)	0.064(6)	0.058(3)	0.008(3)	0.020(3)	0.002(3)
C(1)	0.038(6)	0.074(5)	0.046(2)	-0.003(4)	0.019(3)	0.003(3)
C(2)	0.080(7)	0.067(6)	0.071(6)	0.001(5)	0.033(5)	-0.011(4)
C(3)	0.087(8)	0.096(8)	0.091(7)	0.027(5)	0.011(6)	-0.008(5)
C(4)	0.112(8)	0.08(1)	0.145(9)	0.030(9)	0.054(6)	-0.042(8)
C(5)	0.035(5)	0.059(5)	0.054(2)	-0.007(3)	0.012(3)	-0.001(3)
C(6)	0.049(6)	0.059(5)	0.093(6)	0.002(4)	0.014(6)	0.000(5)
C(7)	0.063(7)	0.070(6)	0.098(6)	-0.007(5)	0.034(6)	-0.009(5)
C(8)	0.065(7)	0.12(1)	0.164(9)	0.044(7)	0.021(7)	0.016(9)

Table 4.I.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Te(S_2COCH_2CH_2CH_3)_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	-0.2195	0.7467	0.9182	6.6166
H(2b)	-0.3264	0.5688	0.9210	6.6166
H(3a)	-0.4623	0.7486	0.7730	8.7670
H(3b)	-0.3558	0.9288	0.7735	8.7670
H(4a)	-0.4852	0.8695	0.9499	10.3925
H(4b)	-0.5129	1.0649	0.8633	10.3925
H(4c)	-0.3799	1.0513	0.9491	10.3925
H(6a)	0.2652	-0.7275	0.6724	6.3551
H(6b)	0.3777	-0.5666	0.6614	6.3551
H(7a)	0.3391	-0.6408	0.4663	7.0705
H(7b)	0.2277	-0.8037	0.4782	7.0705
H(8a)	0.4900	-0.8756	0.5764	11.0198
H(8b)	0.4129	-1.0079	0.4728	11.0198
H(8c)	0.3791	-1.0371	0.5911	11.0198

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 4.I.5: Bond distances (Å) for [Te($S_2COCH_2CH_2CH_3$)2]

Te — S(1)	2.495(3)	O(1) — C(1)	1.37(1)
Te — S(2)	2.881(3)	O(1) — C(2)	1.47(1)
Te — S(3)	2.495(3)	O(2) — C(5)	1.33(1)
Te — S(4)	2.869(4)	O(2) — C(6)	1.46(1)
S(1) — C(1)	1.70(1)	C(2) — C(3)	1.48(2)
S(2) — C(1)	1.61(1)	C(3) — C(4)	1.51(2)
S(3) — C(5)	1.71(1)	C(6) — C(7)	1.52(2)
S(4) — C(5)	1.64(1)	C(7) — C(8)	1.50(2)

Table 4.I.6: Bond angles (deg.) for [Te($S_2COCH_2CH_2CH_3$)2]

S(1) — Te — S(2)	65.66(9)	C(5) — O(2) — C(6)	120(1)
S(1) — Te — S(3)	83.1(1)	S(1) — C(1) — S(2)	124.9(8)
S(1) — Te — S(4)	149.41(9)	S(1) — C(1) — O(1)	110.3(8)
S(2) — Te — S(3)	148.8(1)	S(2) — C(1) — O(1)	124.8(9)
S(2) — Te — S(4)	144.93(9)	O(1) — C(2) — C(3)	106(1)
S(3) — Te — S(4)	66.29(9)	C(2) — C(3) — C(4)	114(1)
Te — S(1) — C(1)	90.3(4)	S(3) — C(5) — S(4)	123.7(7)
Te — S(2) — C(1)	79.2(5)	S(3) — C(5) — O(2)	111.1(8)
Te — S(3) — C(5)	90.4(4)	S(4) — C(5) — O(2)	125.2(9)
Te — S(4) — C(5)	79.6(4)	O(2) — C(6) — C(7)	107(1)
C(1) — O(1) — C(2)	119.1(9)	C(6) — C(7) — C(8)	111(1)

Table 4.I.7: Observed and calculated structure factors for [Te($S_2COCH_2CH_2CH_3$)$_2$]

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	2	962	935	99	0	3	12	119	119	99	1	0	-4	607	621	99	1	2	-7	449	440	99	1	4	-8	234	257	99
0	0	3	765	767	99	0	3	13	112	119	99	1	0	-3	284	284	99	1	2	-6	148	134	99	1	4	-7	206	222	99
0	0	4	35	29	94	0	3	14	91	103	99	1	0	-2	422	423	99	1	2	-5	752	748	99	1	4	-6	134	129	99
0	0	5	905	888	99	0	4	0	420	412	99	1	0	2	1229	1302	99	1	2	-4	307	311	99	1	4	-5	182	187	99
0	0	6	117	97	99	0	4	1	180	168	99	1	0	3	169	176	99	1	2	-3	821	828	99	1	4	-4	276	277	99
0	0	7	764	715	99	0	4	2	294	299	99	1	0	4	437	441	99	1	2	-2	670	671	99	1	4	-3	231	224	99
0	0	8	639	601	99	0	4	3	225	232	99	1	0	5	635	630	99	1	2	-1	138	135	87	1	4	-2	439	435	99
0	0	9	79	84	99	0	4	4	217	231	99	1	0	6	284	265	99	1	2	0	450	457	99	1	4	-1	331	329	99
0	0	10	548	509	99	0	4	5	90	97	99	1	0	7	553	530	99	1	2	1	454	465	99	1	4	0	411	399	99
0	0	11	65	56	99	0	4	6	112	119	99	1	0	8	444	413	99	1	2	2	637	626	99	1	4	1	114	103	99
0	0	12	212	180	99	0	4	7	220	220	99	1	0	9	11	16	99	1	2	3	588	595	99	1	4	2	266	276	99
0	0	13	57	56	99	0	4	8	232	235	99	1	0	10	346	336	99	1	2	4	335	333	99	1	4	3	299	299	99
0	0	14	45	24	99	0	4	9	144	142	99	1	0	11	94	61	99	1	2	5	698	695	99	1	4	4	132	133	99
0	0	15	208	183	99	0	4	10	110	112	99	1	0	12	82	63	99	1	2	6	233	227	99	1	4	5	239	236	99
0	1	1	539	530	99	0	4	11	-18	42	99	1	0	13	-10	34	99	1	2	7	283	276	99	1	4	6	142	136	99
0	1	2	361	362	99	0	4	12	65	74	99	1	0	14	-32	23	99	1	2	8	162	148	99	1	4	7	259	256	99
0	1	3	300	281	99	0	4	13	73	53	99	1	0	15	162	155	99	1	2	9	70	39	99	1	4	8	242	237	99
0	1	4	843	806	99	0	5	1	279	260	99	1	1	-15	68	55	94	1	2	10	248	258	99	1	4	9	150	152	99
0	1	5	167	158	99	0	5	2	230	214	99	1	1	-14	85	95	99	1	2	11	38	76	99	1	4	10	131	121	99
0	1	6	446	456	99	0	5	3	269	262	99	1	1	-13	87	101	99	1	2	12	209	207	99	1	4	11	12	20	99
0	1	7	208	221	99	0	5	4	363	358	99	1	1	-12	76	63	99	1	2	13	162	146	99	1	4	12	66	58	99
0	1	8	200	211	99	0	5	5	37	39	99	1	1	-11	274	278	99	1	2	14	67	44	99	1	5	-11	113	118	99
0	1	9	240	230	99	0	5	6	210	216	99	1	1	-10	83	95	99	1	3	-14	89	86	99	1	5	-10	52	60	99
0	1	10	-23	6	99	0	5	7	107	111	99	1	1	-9	260	256	99	1	3	-13	174	165	99	1	5	-9	78	104	99
0	1	11	293	273	99	0	5	8	130	123	99	1	1	-8	259	271	99	1	3	-12	83	88	99	1	5	-8	180	183	99
0	1	12	121	103	99	0	5	9	122	117	99	1	1	-7	270	266	99	1	3	-11	184	179	99	1	5	-7	76	86	99
0	1	13	97	92	99	0	5	10	50	25	99	1	1	-6	608	597	99	1	3	-10	92	75	99	1	5	-6	209	203	99
0	1	14	100	86	99	0	5	11	120	129	99	1	1	-5	32	42	69	1	3	-9	264	265	99	1	5	-5	40	52	99
0	1	15	18	16	99	0	6	0	222	211	99	1	1	-4	693	685	99	1	3	-8	354	357	99	1	5	-4	318	308	99
0	2	0	481	476	99	0	6	1	134	124	99	1	1	-3	717	718	99	1	3	-7	231	221	99	1	5	-3	288	279	99
0	2	1	175	168	99	0	6	2	168	173	99	1	1	-2	665	643	99	1	3	-6	516	520	99	1	5	-2	172	168	99
0	2	2	607	604	99	0	6	3	159	172	99	1	1	-1	865	836	99	1	3	-5	309	312	99	1	5	-1	288	281	99
0	2	3	776	782	99	0	6	4	-17	50	99	1	1	0	377	366	99	1	3	-4	246	246	99	1	5	0	120	115	99
0	2	4	324	317	99	0	6	5	191	204	99	1	1	1	637	622	99	1	3	-3	598	599	99	1	5	1	181	179	99
0	2	5	829	827	99	0	6	6	65	38	99	1	1	2	333	326	99	1	3	-2	251	243	99	1	5	2	233	231	99
0	2	6	140	123	99	0	6	7	118	124	99	1	1	3	372	367	99	1	3	-1	637	629	99	1	5	3	239	244	99
0	2	7	308	303	99	0	6	8	93	102	99	1	1	4	860	835	99	1	3	0	112	120	99	1	5	4	305	320	99
0	2	8	130	117	99	0	6	9	46	43	99	1	1	5	140	126	99	1	3	1	647	646	99	1	5	5	64	70	99
0	2	9	229	230	99	0	7	1	167	142	99	1	1	6	560	593	99	1	3	2	697	697	99	1	5	6	173	182	99
0	2	10	259	258	99	0	7	2	52	48	99	1	1	7	206	210	99	1	3	3	392	378	99	1	5	7	153	150	99
0	2	11	83	81	99	0	7	3	47	42	99	1	1	8	347	369	99	1	3	4	454	459	99	1	5	8	72	62	99
0	2	12	182	192	99	0	7	4	58	73	99	1	1	9	303	304	99	1	3	5	200	200	99	1	5	9	86	110	99
0	2	13	171	168	99	0	7	5	-37	24	99	1	1	10	96	84	99	1	3	6	267	264	99	1	5	10	40	15	99
0	2	14	79	72	99	0	7	6	88	97	99	1	1	11	317	298	99	1	3	7	412	413	99	1	5	11	102	108	99
0	3	1	801	802	99	1	0	-15	109	151	86	1	1	12	96	88	99	1	3	8	225	215	99	1	6	-9	70	72	99
0	3	2	549	545	99	1	0	-14	94	96	85	1	1	13	132	112	99	1	3	9	322	315	99	1	6	-8	39	68	99
0	3	3	363	364	99	1	0	-13	53	50	83	1	1	14	118	103	99	1	3	10	68	56	99	1	6	-7	175	171	99
0	3	4	300	313	99	1	0	-12	259	268	99	1	2	-15	88	90	99	1	3	11	84	84	99	1	6	-6	55	14	99
0	3	5	36	44	83	1	0	-11	154	156	99	1	2	-14	105	94	99	1	3	12	91	111	99	1	6	-5	191	194	99
0	3	6	387	387	99	1	0	-10	448	463	99	1	2	-13	157	149	99	1	3	13	83	80	99	1	6	-4	125	120	99
0	3	7	347	337	99	1	0	-9	93	95	99	1	2	-12	166	151	99	1	4	-13	22	50	99	1	6	-3	143	136	99
0	3	8	323	323	99	1	0	-8	545	533	99	1	2	-11	97	86	99	1	4	-12	124	131	99	1	6	-2	150	156	99
0	3	9	335	331	99	1	0	-7	550	524	99	1	2	-10	259	249	99	1	4	-11	-27	38	99	1	6	-1	68	47	99
0	3	10	-15	20	99	1	0	-6	214	197	99	1	2	-9	363	362	99	1	4	-10	122	127	99	1	6	0	202	199	99
0	3	11	149	150	99	1	0	-5	859	873	99	1	2	-8	162	163	99	1	4	-9	117	113	99	1	6	1	116	120	99
1	6	2	142	150	99	2	1	-11	341	342	99	2	2	14	52	16	99	2	5	-12	70	53	99	3	0	-15	30	61	87
1	6	3	194	202	99	2	1	-10	188	190	99	2	3	-14	61	53	99	2	5	-11	80	101	99	3	0	-14	90	111	99
1	6	4	63	66	99	2	1	-9	403	419	99	2	3	-13	206	189	99	2	5	-10	68	82	99	3	0	-13	-18	45	99
1	6	5	155	166	99	2	1	-8	385	399	99	2	3	-12	76	54	99	2	5	-9	81	90	99	3	0	-12	266	266	99
1	6	6	59	64	99	2	1	-7	251	259	99	2	3	-11	179	165	99	2	5	-8	241	243	99	3	0	-11	163	167	99
1	6	7	63	81	99	2	1	-6	731	733	99	2	3	-10	108	105	99	2	5	-7	72	74	99	3	0	-10	162	153	99
1	6	8	120	112	99	2	1	-5	288	273	99	2	3	-9	96	101	99	2	5	-6	171	169	99	3	0	-9	25	26	99
1	6	9	-12	7	99	2	1	-4	960	937	99	2	3	-8	298	306	99	2	5	-5	91	100	99	3	0	-8	88	87	99
1	7	-6	89	100	99	2	1	-3	483	460	99	2	3	-7	123	115	99	2	5	-4	173	185	99	3	0	-7	213	206	99
1	7	-5	34	40	99	2	1	-2	467	465	99	2	3	-6	428	426	99	2	5	-3	251	256	99	3	0	-6	261	244	99
1	7	-4	88	83	99	2	1	-1	1503	1535	99	2	3	-5	337	345	99	2	5	-2	142	148	99	3	0	-5	637	630	99
1	7	-3	49	62	99	2	1	0	1126	1127	99	2	3	-4	241	236	99	2	5	-1	317	319	99	3	0	-4	785	776	99
1	7	-2	35	52	99	2	1	1	1078	1070	99	2	3	-3	544	538	99	2	5	0	167	155	99	3	0	-3	336	339	99
1	7	-1	124	139	99	2	1	2	614	629	99	2	3	-2	130	135	99	2	5	1	130	129	99	3	0	-2	191	204	99
1	7	0	-32	17	99	2	1	3	236	224	99	2	3	-1	507	499	99	2	5	2	221	237	99	3	0	-1	75	75	99
1	7	1	156	153	99	2	1	4	812	827	99	2	3	0	36	21	79	2	5	3	148	159	99	3	0	0	398	410	99
1	7	2	47	55	99	2	1	5	153	155	99	2	3	1	275	273	99	2	5	4	235	244	99	3	0	1	131	147	97
1	7	3	29	32	99	2	1	6	595	624	99	2	3	2	552	545	99	2	5	5	42	52	99	3	0	2	272	286	99
1	7	4	92	84	99	2	1	7	278	302	99	2	3	3	279	281	99	2	5	6	117	136	99	3	0	3	706	736	99
1	7	5	28	8	99	2	1	8	286	317	99	2	3	4	406	409	99	2	5	7	165	168	99	3	0	4	303	318	99
1	7	6	84	106	99	2	1	9	333	329	99	2	3	5	240	245	99	2	5	8	36	9	99	3	0	5	481	486	99
2	0	-15	70	89	75	2	1	10	131	99	99	2	3	6	178	172	99	2	5	9	95	107	99	3	0	6	191	162	99
2	0	-14	92	120	99	2	1	11	284	264	99	2	3	7	239	219	99	2	5	10	-11	5	99	3	0	7	373	367	99
2	0	-13	28	27	94	2	1	12	129	121	99	2	3	8	180	175	99	2	5	11	52	77	99	3	0	8	50	32	99
2	0	-12	291	287	99	2	1	13	101	83	99	2	3	9	291	265	99	2	6	-9	80	80	99	3	0	9	-25	47	99
2	0	-11	159	150	99	2	1	14	126	121	99	2	3	10	77	67	99	2	6	-8	-9	48	99	3	0	10	253	209	99
2	0	-10	259	242	99	2	2	-15	97	105	99	2	3	11	54	82	99	2	6	-7	165	164	99	3	0	11	195	177	99
2	0	-9	87	71	99	2	2	-14	74	87	99	2	3	12	85	90	99	2	6	-6	-44	18	99	3	0	12	131	104	99
2	0	-8	262	252	99	2	2	-13	49	85	99	2	3	13	34	48	99	2	6	-5	171	173	99	3	0	13	101	76	99
2	0	-7	246	228	99	2	2	-12	120	106	99	2	4	-13	59	61	99	2	6	-4	118	127	99	3	0	14	-16	21	99
2	0	-6	383	382	99	2	2	-11	63	61	99	2	4	-12	189	198	99	2	6	-3	107	107	99	3	1	-15	82	97	99
2	0	-5	648	639	99	2	2	-10	277	270	99	2	4	-11	-34	31	99	2	6	-2	153	162	99	3	1	-14	137	129	99
2	0	-4	783	806	99	2	2	-9	397	395	99	2	4	-10	149	157	99	2	6	-1	69	80	99	3	1	-13	189	179	99
2	0	-3	136	132	99	2	2	-8	169	173	99	2	4	-9	140	138	99	2	6	0	185	189	99	3	1	-12	80	63	99
2	0	-2	510	531	99	2	2	-7	488	495	99	2	4	-8	188	188	99	2	6	1	136	142	99	3	1	-11	299	296	99
2	0	-1	26	7	63	2	2	-6	89	99	97	2	4	-7	251	263	99	2	6	2	118	120	99	3	1	-10	236	246	99
2	0	0	473	492	99	2	2	-5	322	336	99	2	4	-6	45	47	99	2	6	3	167	170	99	3	1	-9	416	454	99
2	0	1	494	556	99	2	2	-4	99	101	90	2	4	-5	294	302	99	2	6	4	41	61	99	3	1	-8	388	422	99
2	0	2	99	117	99	2	2	-3	537	546	99	2	4	-4	344	347	99	2	6	5	130	133	99	3	1	-7	118	115	99
2	0	3	419	449	99	2	2	-2	596	604	99	2	4	-3	246	248	99	2	6	6	40	49	99	3	1	-6	651	652	99
2	0	4	514	529	99	2	2	-1	333	320	99	2	4	-2	532	530	99	2	6	7	55	52	99	3	1	-5	553	535	99
2	0	5	297	327	99	2	2	0	788	782	99	2	4	-1	278	277	99	2	6	8	82	101	99	3	1	-4	829	777	99
2	0	6	249	243	99	2	2	1	581	591	99	2	4	0	408	403	99	2	6	9	48	20	99	3	1	-3	713	704	99
2	0	7	412	393	99	2	2	2	427	414	99	2	4	1	223	225	99	2	7	-6	86	110	99	3	1	-2	159	158	99
2	0	8	194	176	99	2	2	3	499	491	99	2	4	2	255	256	99	2	7	-5	58	63	99	3	1	-1	726	726	99
2	0	9	31	13	99	2	2	4	326	332	99	2	4	3	445	452	99	2	7	-4	106	105	99	3	1	0	714	720	99
2	0	10	244	220	99	2	2	5	475	478	99	2	4	4	115	129	99	2	7	-3	106	100	99	3	1	1	980	991	99
2	0	11	173	151	99	2	2	6	336	317	99	2	4	5	319	313	99	2	7	-2	-25	43	99	3	1	2	417	432	99
2	0	12	18	28	99	2	2	7	229	226	99	2	4	6	166	178	99	2	7	-1	134	126	99	3	1	3	255	258	99
2	0	13	49	36	99	2	2	8	310	298	99	2	4	7	249	246	99	2	7	0	30	15	99	3	1	4	659	672	99
2	0	14	47	17	99	2	2	9	57	51	99	2	4	8	260	243	99	2	7	1	131	155	99	3	1	5	330	344	99
2	1	-15	80	72	99	2	2	10	235	238	99	2	4	9	96	107	99	2	7	2	106	85	99	3	1	6	433	471	99
2	1	-14	124	128	99	2	2	11	67	74	99	2	4	10	134	138	99	2	7	3	41	15	99	3	1	7	345	364	99
2	1	-13	149	150	99	2	2	12	195	186	99	2	4	11	99	79	99	2	7	4	81	104	99	3	1	8	93	83	99
2	1	-12	16	15	99	2	2	13	122	114	99	2	4	12	53	45	99	2	7	5	37	55	99	3	1	9	221	274	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	1	10	121	135	99	3	3	7	129	124	99	3	6	-9	106	87	99	4	0	10	232	188	99	4	2	7	140	147	99
3	1	11	199	186	99	3	3	8	116	126	99	3	6	-8	33	56	99	4	0	11	244	198	99	4	2	8	391	390	99
3	1	12	177	141	99	3	3	9	205	191	99	3	6	-7	112	127	99	4	0	12	151	128	99	4	2	9	99	82	99
3	1	13	57	58	99	3	3	10	56	40	99	3	6	-6	64	47	99	4	0	13	112	107	99	4	2	10	135	146	99
3	1	14	114	99	99	3	3	11	85	80	99	3	6	-5	150	136	99	4	1	-15	108	114	99	4	2	11	102	76	99
3	2	-15	93	102	99	3	3	12	99	98	99	3	6	-4	111	108	99	4	1	-14	55	74	99	4	2	12	-65	37	99
3	2	-14	93	88	99	3	3	13	-48	19	99	3	6	-3	73	62	99	4	1	-13	170	173	99	4	2	13	82	76	99
3	2	-13	10	38	99	3	4	-13	-33	55	99	3	6	-2	186	169	99	4	1	-12	89	92	99	4	3	-14	61	53	99
3	2	-12	108	117	99	3	4	-12	198	205	99	3	6	-1	82	72	99	4	1	-11	167	170	99	4	3	-13	144	161	99
3	2	-11	105	114	99	3	4	-11	-34	14	99	3	6	0	210	196	99	4	1	-10	273	284	99	4	3	-12	64	58	99
3	2	-10	228	257	99	3	4	-10	144	138	99	3	6	1	141	140	99	4	1	-9	320	340	99	4	3	-11	197	204	99
3	2	-9	378	394	99	3	4	-9	192	179	99	3	6	2	105	108	99	4	1	-8	363	400	99	4	3	-10	118	127	99
3	2	-8	188	192	99	3	4	-8	59	63	99	3	6	3	136	143	99	4	1	-7	101	109	99	4	3	-9	76	45	99
3	2	-7	620	612	99	3	4	-7	364	366	99	3	6	4	-18	18	99	4	1	-6	369	375	99	4	3	-8	270	257	99
3	2	-6	156	164	99	3	4	-6	57	63	99	3	6	5	124	119	99	4	1	-5	477	469	99	4	3	-7	88	47	99
3	2	-5	388	390	99	3	4	-5	333	334	99	3	6	6	61	64	99	4	1	-4	337	330	99	4	3	-6	345	333	99
3	2	-4	369	365	99	3	4	-4	479	484	99	3	6	7	49	51	99	4	1	-3	619	600	99	4	3	-5	181	176	99
3	2	-3	44	36	79	3	4	-3	179	176	99	3	6	8	75	91	99	4	1	-2	228	222	99	4	3	-4	341	335	99
3	2	-2	838	846	99	3	4	-2	512	505	99	3	7	-6	87	113	99	4	1	-1	650	651	99	4	3	-3	500	502	99
3	2	-1	367	363	99	3	4	-1	63	65	99	3	7	-5	86	93	99	4	1	0	772	740	99	4	3	-2	98	102	99
3	2	0	708	703	99	3	4	0	300	290	99	3	7	-4	118	101	99	4	1	1	343	348	99	4	3	-1	395	376	99
3	2	1	719	707	99	3	4	1	292	294	99	3	7	-3	140	124	99	4	1	2	572	566	99	4	3	0	120	109	99
3	2	2	408	403	99	3	4	2	115	119	99	3	7	-2	44	6	99	4	1	3	92	76	99	4	3	1	243	239	99
3	2	3	428	423	99	3	4	3	575	586	99	3	7	-1	88	103	99	4	1	4	294	298	99	4	3	2	466	447	99
3	2	4	279	277	99	3	4	4	82	79	99	3	7	0	44	50	99	4	1	5	372	387	99	4	3	3	85	79	99
3	2	5	399	391	99	3	4	5	289	294	99	3	7	1	134	110	99	4	1	6	300	321	99	4	3	4	521	503	99
3	2	6	389	372	99	3	4	6	220	222	99	3	7	2	117	118	99	4	1	7	298	325	99	4	3	5	173	173	99
3	2	7	120	131	99	3	4	7	136	125	99	3	7	3	35	19	99	4	1	8	52	50	99	4	3	6	187	175	99
3	2	8	435	425	99	3	4	8	236	228	99	3	7	4	100	117	99	4	1	9	196	192	99	4	3	7	198	200	99
3	2	9	82	81	99	3	4	9	36	44	99	3	7	5	58	74	99	4	1	10	180	161	99	4	3	8	86	62	99
3	2	10	177	178	99	3	4	10	126	120	99	4	0	-15	59	87	99	4	1	11	111	111	99	4	3	9	198	182	99
3	2	11	93	84	99	3	4	11	105	105	99	4	0	-14	94	105	99	4	1	12	120	116	99	4	3	10	44	53	99
3	2	12	124	113	99	3	4	12	-50	22	99	4	0	-13	123	128	99	4	1	13	39	40	99	4	3	11	84	99	99
3	2	13	74	87	99	3	5	-11	89	79	99	4	0	-12	221	237	99	4	2	-15	72	85	99	4	3	12	109	124	99
3	3	-14	16	47	99	3	5	-10	43	65	99	4	0	-11	188	191	99	4	2	-14	124	123	99	4	4	-13	50	39	99
3	3	-13	186	188	99	3	5	-9	87	97	99	4	0	-10	305	297	99	4	2	-13	54	71	99	4	4	-12	168	173	99
3	3	-12	-5	9	99	3	5	-8	242	257	99	4	0	-9	261	259	99	4	2	-12	142	161	99	4	4	-11	-24	44	99
3	3	-11	173	177	99	3	5	-7	54	31	99	4	0	-8	56	71	99	4	2	-11	172	184	99	4	4	-10	62	72	99
3	3	-10	108	105	99	3	5	-6	178	184	99	4	0	-7	336	315	99	4	2	-10	223	244	99	4	4	-9	195	200	99
3	3	-9	65	75	99	3	5	-5	62	58	99	4	0	-6	403	382	99	4	2	-9	324	324	99	4	4	-8	111	99	99
3	3	-8	252	259	99	3	5	-4	153	149	99	4	0	-5	907	882	99	4	2	-8	188	183	99	4	4	-7	349	345	99
3	3	-7	69	75	99	3	5	-3	210	215	99	4	0	-4	574	566	99	4	2	-7	517	496	99	4	4	-6	66	56	99
3	3	-6	374	377	99	3	5	-2	52	80	99	4	0	-3	458	466	99	4	2	-6	292	285	99	4	4	-5	326	324	99
3	3	-5	281	277	99	3	5	-1	318	334	99	4	0	-2	477	494	99	4	2	-5	300	292	99	4	4	-4	326	326	99
3	3	-4	264	270	99	3	5	0	139	136	99	4	0	-1	229	223	99	4	2	-4	381	377	99	4	4	-3	58	75	99
3	3	-3	472	478	99	3	5	1	133	136	99	4	0	0	408	421	99	4	2	-3	50	38	99	4	4	-2	464	460	99
3	3	-2	83	95	99	3	5	2	201	197	99	4	0	1	434	455	99	4	2	-2	897	900	99	4	4	-1	111	118	99
3	3	-1	356	355	99	3	5	3	61	73	99	4	0	2	423	458	99	4	2	-1	502	496	99	4	4	0	190	163	99
3	3	0	139	133	99	3	5	4	167	182	99	4	0	3	694	735	99	4	2	0	759	736	99	4	4	1	304	299	99
3	3	1	242	245	99	3	5	5	50	21	99	4	0	4	159	159	99	4	2	1	568	550	99	4	4	2	-43	48	99
3	3	2	405	394	99	3	5	6	118	129	99	4	0	5	571	560	99	4	2	2	117	123	99	4	4	3	453	456	99
3	3	3	16	44	99	3	5	7	200	194	99	4	0	6	231	229	99	4	2	3	396	393	99	4	4	4	-44	49	99
3	3	4	426	420	99	3	5	8	40	32	99	4	0	7	258	241	99	4	2	4	265	263	99	4	4	5	211	225	99
3	3	5	129	135	99	3	5	9	125	122	99	4	0	8	93	72	99	4	2	5	284	275	99	4	4	6	109	113	99
3	3	6	133	126	99	3	5	10	-19	10	99	4	0	9	53	2	99	4	2	6	328	319	99	4	4	7	19	17	99
4	4	8	185	172	99	5	0	-12	161	151	99	5	2	-13	64	71	99	5	4	-10	27	33	99	5	6	4	91	76	99
4	4	9	54	47	99	5	0	-11	175	182	99	5	2	-12	192	189	99	5	4	-9	189	188	99	5	6	5	89	91	99
4	4	10	99	98	99	5	0	-10	266	267	99	5	2	-11	159	179	99	5	4	-8	145	129	99	5	6	6	103	107	99
4	4	11	91	80	99	5	0	-9	506	479	99	5	2	-10	203	208	99	5	4	-7	263	266	99	5	7	-4	19	70	99
4	5	-11	91	85	99	5	0	-8	156	151	99	5	2	-9	203	205	99	5	4	-6	103	115	99	5	7	-3	-58	76	99
4	5	-10	-25	70	99	5	0	-7	393	381	99	5	2	-8	135	131	99	5	4	-5	209	220	99	5	7	-2	38	37	99
4	5	-9	101	89	99	5	0	-6	296	293	99	5	2	-7	401	402	99	5	4	-4	121	129	99	5	7	-1	-55	54	99
4	5	-8	211	218	99	5	0	-5	815	786	99	5	2	-6	317	313	99	5	4	-3	153	137	99	5	7	0	61	90	99
4	5	-7	29	16	99	5	0	-4	657	655	99	5	2	-5	168	154	99	5	4	-2	282	275	99	5	7	1	7	46	99
4	5	-6	175	188	99	5	0	-3	381	377	99	5	2	-4	500	491	99	5	4	-1	173	162	99	5	7	2	66	73	99
4	5	-5	102	110	99	5	0	-2	512	522	99	5	2	-3	73	52	99	5	4	0	104	112	99	6	0	-15	51	70	99
4	5	-4	91	103	99	5	0	-1	540	560	99	5	2	-2	460	455	99	5	4	1	214	204	99	6	0	-14	123	131	99
4	5	-3	214	226	99	5	0	0	393	398	99	5	2	-1	223	218	99	5	4	2	11	60	99	6	0	-13	35	52	99
4	5	-2	97	92	99	5	0	1	567	590	99	5	2	0	644	630	99	5	4	3	286	280	99	6	0	-12	74	78	99
4	5	-1	345	344	99	5	0	2	401	409	99	5	2	1	352	342	99	5	4	4	54	57	99	6	0	-11	239	236	99
4	5	0	180	181	99	5	0	3	600	631	99	5	2	2	134	106	99	5	4	5	131	146	99	6	0	-10	107	109	99
4	5	1	150	146	99	5	0	4	186	190	99	5	2	3	347	319	99	5	4	6	74	74	99	6	0	-9	616	570	99
4	5	2	200	204	99	5	0	5	446	467	99	5	2	4	235	220	99	5	4	7	86	67	99	6	0	-8	29	19	99
4	5	3	46	54	99	5	0	6	414	388	99	5	2	5	209	209	99	5	4	8	112	111	99	6	0	-7	302	282	99
4	5	4	125	144	99	5	0	7	43	42	99	5	2	6	250	241	99	5	4	9	40	47	99	6	0	-6	228	227	99
4	5	5	54	48	99	5	0	8	201	192	99	5	2	7	92	113	99	5	4	10	79	85	99	6	0	-5	237	236	99
4	5	6	115	121	99	5	0	9	142	122	99	5	2	8	282	275	99	5	5	-11	74	87	99	6	0	-4	540	519	99
4	5	7	182	173	99	5	0	10	203	168	99	5	2	9	52	43	99	5	5	-10	60	74	99	6	0	-3	80	81	99
4	5	8	57	24	99	5	0	11	244	205	99	5	2	10	88	95	99	5	5	-9	88	79	99	6	0	-2	526	508	99
4	5	9	125	131	99	5	0	12	58	83	99	5	2	11	67	63	99	5	5	-8	179	191	99	6	0	-1	764	767	99
4	6	-9	99	90	99	5	0	13	124	114	99	5	2	12	-38	20	99	5	5	-7	46	45	99	6	0	0	188	194	99
4	6	-8	39	53	99	5	1	-15	95	108	99	5	3	-14	23	44	99	5	5	-6	197	192	99	6	0	1	689	702	99
4	6	-7	127	102	99	5	1	-14	32	23	99	5	3	-13	114	147	99	5	5	-5	166	178	99	6	0	2	118	122	99
4	6	-6	78	78	99	5	1	-13	153	148	99	5	3	-12	70	56	99	5	5	-4	78	89	99	6	0	3	284	286	99
4	6	-5	99	100	99	5	1	-12	135	135	99	5	3	-11	175	198	99	5	5	-3	226	224	99	6	0	4	237	230	99
4	6	-4	114	145	99	5	1	-11	124	119	99	5	3	-10	182	184	99	5	5	-2	-20	24	99	6	0	5	164	172	99
4	6	-3	38	37	99	5	1	-10	245	246	99	5	3	-9	71	20	99	5	5	-1	305	298	99	6	0	6	437	429	99
4	6	-2	158	170	99	5	1	-9	256	274	99	5	3	-8	370	367	99	5	5	0	158	153	99	6	0	7	35	44	99
4	6	-1	53	55	99	5	1	-8	343	363	99	5	3	-7	80	75	99	5	5	1	132	137	99	6	0	8	199	174	99
4	6	0	167	168	99	5	1	-7	189	208	99	5	3	-6	378	378	99	5	5	2	239	247	99	6	0	9	186	158	99
4	6	1	112	112	99	5	1	-6	259	273	99	5	3	-5	283	278	99	5	5	3	92	92	99	6	0	10	127	108	99
4	6	2	65	71	99	5	1	-5	553	571	99	5	3	-4	239	257	99	5	5	4	148	153	99	6	0	11	141	141	99
4	6	3	151	139	99	5	1	-4	107	95	99	5	3	-3	594	606	99	5	5	5	98	90	99	6	0	12	66	47	99
4	6	4	22	52	99	5	1	-3	501	477	99	5	3	-2	172	160	99	5	5	6	111	98	99	6	1	-15	95	114	99
4	6	5	107	102	99	5	1	-2	215	196	99	5	3	-1	427	416	99	5	5	7	146	146	99	6	1	-14	-28	23	99
4	6	6	94	92	99	5	1	-1	427	413	99	5	3	0	269	265	99	5	5	8	-55	16	99	6	1	-13	170	153	99
4	6	7	66	53	99	5	1	0	555	547	99	5	3	1	137	111	99	5	5	9	90	117	99	6	1	-12	133	137	99
4	7	-5	91	82	99	5	1	1	399	400	99	5	3	2	463	463	99	5	6	-9	80	82	99	6	1	-11	133	140	99
4	7	-4	34	89	99	5	1	2	561	535	99	5	3	3	123	121	99	5	6	-8	81	56	99	6	1	-10	256	251	99
4	7	-3	118	119	99	5	1	3	151	148	99	5	3	4	477	462	99	5	6	-7	107	113	99	6	1	-9	101	105	99
4	7	-2	-67	30	99	5	1	4	262	261	99	5	3	5	208	191	99	5	6	-6	69	83	99	6	1	-8	290	304	99
4	7	-1	96	74	99	5	1	5	320	324	99	5	3	6	118	111	99	5	6	-5	89	80	99	6	1	-7	158	173	99
4	7	0	65	81	99	5	1	6	219	233	99	5	3	7	255	246	99	5	6	-4	170	175	99	6	1	-6	254	282	99
4	7	1	39	63	99	5	1	7	270	281	99	5	3	8	72	49	99	5	6	-3	82	31	99	6	1	-5	483	516	99
4	7	2	91	97	99	5	1	8	70	106	99	5	3	9	176	170	99	5	6	-2	167	174	99	6	1	-4	152	148	99
4	7	3	28	27	99	5	1	9	132	122	99	5	3	10	65	73	99	5	6	-1	56	67	99	6	1	-3	481	472	99
4	7	4	93	104	99	5	1	10	154	125	99	5	3	11	94	79	99	5	6	0	131	126	99	6	1	-2	111	91	99
5	0	-15	91	107	99	5	1	11	102	81	99	5	4	-13	-66	46	99	5	6	1	102	107	99	6	1	-1	295	308	99
5	0	-14	94	115	99	5	1	12	91	80	99	5	4	-12	136	116	99	5	6	2	49	18	99	6	1	0	384	358	99
5	0	-13	144	135	99	5	2	-14	152	155	99	5	4	-11	52	45	99	5	6	3	124	139	99	6	1	1	169	189	99

h	k	l	Fo	Fc	sigF2
6	1	2	411	415	99
6	1	3	196	198	99
6	1	4	259	263	99
6	1	5	229	240	99
6	1	6	131	136	99
6	1	7	219	216	99
6	1	8	101	95	99
6	1	9	91	114	99
6	1	10	104	97	99
6	1	11	83	78	99
6	1	12	104	81	99
6	2	-14	141	154	99
6	2	-13	61	66	99
6	2	-12	191	196	99
6	2	-11	129	142	99
6	2	-10	85	96	99
6	2	-9	140	159	99
6	2	-8	53	16	99
6	2	-7	274	262	99
6	2	-6	357	341	99
6	2	-5	175	165	99
6	2	-4	529	523	99
6	2	-3	155	168	99
6	2	-2	387	369	99
6	2	-1	139	119	99
6	2	0	246	230	99
6	2	1	439	412	99
6	2	2	151	138	99
6	2	3	320	301	99
6	2	4	349	339	99
6	2	5	210	193	99
6	2	6	189	199	99
6	2	7	87	82	99
6	2	8	196	188	99
6	2	9	96	74	99
6	2	10	73	61	99
6	2	11	114	100	99
6	3	-13	134	137	99
6	3	-12	85	69	99
6	3	-11	170	177	99
6	3	-10	233	224	99
6	3	-9	-35	35	99
6	3	-8	363	356	99
6	3	-7	157	143	99
6	3	-6	366	357	99
6	3	-5	146	154	99
6	3	-4	121	124	99
6	3	-3	523	529	99
6	3	-2	264	265	99
6	3	-1	475	455	99
6	3	0	414	405	99
6	3	1	40	37	99
6	3	2	356	342	99
6	3	3	133	131	99
6	3	4	323	319	99
6	3	5	201	188	99
6	3	6	71	67	99
6	3	7	219	202	99
6	3	8	121	114	99
6	3	9	136	130	99
6	3	10	80	69	99
6	3	11	61	36	99
6	4	-12	22	85	99
6	4	-11	37	75	99
6	4	-10	36	49	99
6	4	-9	181	171	99
6	4	-8	95	90	99
6	4	-7	202	215	99
6	4	-6	92	97	99
6	4	-5	112	120	99
6	4	-4	140	144	99
6	4	-3	42	87	99
6	4	-2	237	240	99
6	4	-1	211	225	99
6	4	0	135	152	99
6	4	1	196	184	99
6	4	2	80	82	99
6	4	3	205	208	99
6	4	4	83	55	99
6	4	5	123	125	99
6	4	6	107	97	99
6	4	7	64	42	99
6	4	8	107	116	99
6	4	9	70	50	99
6	5	-11	68	86	99
6	5	-10	79	83	99
6	5	-9	70	31	99
6	5	-8	170	142	99
6	5	-7	81	69	99
6	5	-6	160	173	99
6	5	-5	201	199	99
6	5	-4	62	33	99
6	5	-3	198	214	99
6	5	-2	89	70	99
6	5	-1	210	192	99
6	5	0	122	132	99
6	5	1	72	80	99
6	5	2	189	190	99
6	5	3	129	130	99
6	5	4	151	142	99
6	5	5	93	96	99
6	5	6	59	49	99
6	5	7	103	100	99
6	5	8	35	21	99
6	6	-8	79	72	99
6	6	-7	69	84	99
6	6	-6	48	88	99
6	6	-5	28	76	99
6	6	-4	144	160	99
6	6	-3	54	38	99
6	6	-2	134	151	99
6	6	-1	113	112	99
6	6	0	64	76	99
6	6	1	108	112	99
6	6	2	32	41	99
6	6	3	100	103	99
6	6	4	-32	86	99
6	6	5	74	66	99
7	0	-14	127	118	99
7	0	-13	-22	43	99
7	0	-12	27	31	99
7	0	-11	235	214	99
7	0	-10	23	52	99
7	0	-9	529	486	99
7	0	-8	99	88	99
7	0	-7	275	248	99
7	0	-6	299	286	99
7	0	-5	111	99	99
7	0	-4	433	422	99
7	0	-3	89	87	99
7	0	-2	354	332	99
7	0	-1	559	571	99
7	0	0	126	145	99
7	0	1	552	561	99
7	0	2	-25	47	99
7	0	3	137	140	99
7	0	4	191	164	99
7	0	5	70	20	99
7	0	6	398	373	99
7	0	7	-81	52	99
7	0	8	120	140	99
7	0	9	115	85	99
7	0	10	54	23	99
7	0	11	65	70	99
7	1	-14	-27	41	99
7	1	-13	154	155	99
7	1	-12	121	102	99
7	1	-11	116	119	99
7	1	-10	262	250	99
7	1	-9	120	123	99
7	1	-8	262	270	99
7	1	-7	120	127	99
7	1	-6	206	234	99
7	1	-5	479	516	99
7	1	-4	124	116	99
7	1	-3	393	399	99
7	1	-2	151	147	99
7	1	-1	359	354	99
7	1	0	315	302	99
7	1	1	101	109	99
7	1	2	455	416	99
7	1	3	134	141	99
7	1	4	229	232	99
7	1	5	222	234	99
7	1	6	65	72	99
7	1	7	203	207	99
7	1	8	-67	40	99
7	1	9	115	114	99
7	1	10	97	104	99
7	1	11	47	52	99
7	2	-14	130	134	99
7	2	-13	77	68	99
7	2	-12	173	182	99
7	2	-11	123	130	99
7	2	-10	48	58	99
7	2	-9	156	181	99
7	2	-8	97	149	99
7	2	-7	228	237	99
7	2	-6	350	352	99
7	2	-5	184	175	99
7	2	-4	497	498	99
7	2	-3	202	196	99
7	2	-2	276	277	99
7	2	-1	130	139	99
7	2	0	83	78	99
7	2	1	405	362	99
7	2	2	141	154	99
7	2	3	381	368	99
7	2	4	239	239	99
7	2	5	147	137	99
7	2	6	186	174	99
7	2	7	-35	67	99
7	2	8	77	108	99
7	2	9	71	73	99
7	2	10	40	51	99
7	3	-13	41	84	99
7	3	-12	78	86	99
7	3	-11	134	126	99
7	3	-10	181	180	99
7	3	-9	54	37	99
7	3	-8	283	262	99
7	3	-7	245	230	99
7	3	-6	188	213	99
7	3	-5	121	123	99
7	3	-4	125	146	99
7	3	-3	198	192	99
7	3	-2	267	262	99
7	3	-1	276	291	99
7	3	0	311	298	99
7	3	1	25	43	99
7	3	2	193	180	99
7	3	3	131	122	99
7	3	4	181	180	99
7	3	5	139	138	99
7	3	6	78	70	99
7	3	7	141	142	99
7	3	8	101	103	99
7	3	9	58	82	99
7	3	10	61	42	99
7	4	-12	60	79	99
7	4	-11	93	100	99
7	4	-10	70	82	99
7	4	-9	178	175	99
7	4	-8	67	61	99
7	4	-7	215	221	99
7	4	-6	120	124	99
7	4	-5	85	59	99
7	4	-4	184	182	99
7	4	-3	92	108	99
7	4	-2	293	301	99
7	4	-1	193	194	99
7	4	0	170	180	99
7	4	1	186	195	99
7	4	2	52	44	99
7	4	3	178	183	99
7	4	4	83	97	99
7	4	5	104	117	99
7	4	6	135	126	99
7	4	7	50	32	99
7	4	8	114	125	99
7	5	-10	70	81	99
7	5	-9	42	34	99
7	5	-8	104	90	99
7	5	-7	112	100	99
7	5	-6	119	134	99
7	5	-5	170	180	99
7	5	-4	-75	10	99
7	5	-3	164	160	99
7	5	-2	95	96	99
7	5	-1	123	106	99
7	5	0	113	108	99
7	5	1	-17	29	99
7	5	2	139	152	99
7	5	3	124	122	99
7	5	4	94	110	99
7	5	5	92	105	99
7	5	6	58	35	99
7	5	7	59	58	99
7	6	-7	78	75	99
7	6	-6	80	108	99
7	6	-5	52	60	99
7	6	-4	104	116	99
7	6	-3	53	53	99
7	6	-2	-70	92	99
7	6	-1	119	103	99
7	6	0	47	41	99
7	6	1	120	118	99
7	6	2	68	55	99
7	6	3	44	83	99
7	6	4	54	71	99
8	0	-14	111	109	99
8	0	-13	99	99	99
8	0	-12	17	26	99
8	0	-11	181	148	99
8	0	-10	47	25	99
8	0	-9	324	299	99
8	0	-8	65	40	99
8	0	-7	179	145	99
8	0	-6	227	228	99
8	0	-5	151	132	99
8	0	-4	326	307	99
8	0	-3	35	61	99
8	0	-2	271	273	99
8	0	-1	196	197	99
8	0	0	34	10	99
8	0	1	358	357	99
8	0	2	55	42	99
8	0	3	14	48	99
8	0	4	78	34	99
8	0	5	48	7	99
8	0	6	206	219	99
8	0	7	-60	8	99
8	0	8	158	141	99
8	0	9	21	19	99
8	0	10	84	3	99
8	1	-14	49	41	99
8	1	-13	155	139	99
8	1	-12	129	114	99
8	1	-11	110	69	99
8	1	-10	288	266	99
8	1	-9	100	113	99
8	1	-8	248	235	99
8	1	-7	168	153	99
8	1	-6	102	114	99
8	1	-5	400	413	99
8	1	-4	52	62	99
8	1	-3	411	406	99
8	1	-2	218	214	99
8	1	-1	259	254	99
8	1	0	426	409	99
8	1	1	69	30	99
8	1	2	333	324	99
8	1	3	201	211	99
8	1	4	166	153	99
8	1	5	237	262	99
8	1	6	39	34	99
8	1	7	168	179	99
8	1	8	74	75	99
8	1	9	62	75	99
8	1	10	90	106	99
8	2	-13	83	46	99
8	2	-12	132	147	99
8	2	-11	183	160	99
8	2	-10	55	25	99
8	2	-9	189	197	99
8	2	-8	175	196	99
8	2	-7	237	253	99
8	2	-6	201	201	99
8	2	-5	152	166	99
8	2	-4	391	396	99
8	2	-3	137	145	99
8	2	-2	221	219	99
8	2	-1	245	242	99
8	2	0	-13	40	99
8	2	1	304	288	99
8	2	2	130	105	99
8	2	3	305	295	99
8	2	4	142	169	99
8	2	5	88	76	99
8	2	6	168	149	99
8	2	7	-6	37	99
8	2	8	46	68	99
8	2	9	101	70	99
8	3	-12	97	98	99
8	3	-11	76	58	99
8	3	-10	119	119	99
8	3	-9	41	45	99
8	3	-8	166	161	99
8	3	-7	208	199	99
8	3	-6	118	121	99
8	3	-5	199	177	99
8	3	-4	83	102	99
8	3	-3	154	146	99
8	3	-2	227	222	99
8	3	-1	128	140	99
8	3	0	240	240	99
8	3	1	27	49	99
8	3	2	95	108	99
8	3	3	126	114	99
8	3	4	118	118	99
8	3	5	100	90	99
8	3	6	-53	20	99
8	3	7	114	107	99
8	3	8	35	78	99
8	3	9	57	64	99
8	4	-11	68	118	99
8	4	-10	84	72	99
8	4	-9	156	144	99
8	4	-8	65	76	99
8	4	-7	152	170	99
8	4	-6	169	171	99
8	4	-5	-49	58	99
8	4	-4	172	180	99
8	4	-3	149	153	99
8	4	-2	265	275	99
8	4	-1	175	195	99
8	4	0	142	153	99
8	4	1	150	159	99
8	4	2	88	98	99
8	4	3	118	114	99
8	4	4	171	158	99
8	4	5	75	77	99
8	4	6	128	120	99
8	4	7	32	41	99
8	5	-9	73	67	99
8	5	-8	29	48	99
8	5	-7	125	96	99
8	5	-6	96	86	99
8	5	-5	126	147	99
8	5	-4	64	10	99
8	5	-3	109	120	99
8	5	-2	77	123	99
8	5	-1	-36	52	99
8	5	0	117	90	99
8	5	1	46	44	99
8	5	2	109	111	99
8	5	3	98	91	99
8	5	4	62	82	99
8	5	5	23	83	99
8	6	-5	39	46	99
8	6	-4	100	106	99
8	6	-3	-38	45	99
8	6	-2	21	41	99
8	6	-1	87	102	99
8	6	0	34	13	99
8	6	1	78	95	99
9	0	-13	93	104	99
9	0	-12	56	51	99
9	0	-11	102	113	99
9	0	-10	-54	7	99
9	0	-9	196	176	99
9	0	-8	26	31	99
9	0	-7	111	104	99
9	0	-6	275	252	99
9	0	-5	109	99	99
9	0	-4	288	279	99
9	0	-3	116	83	99
9	0	-2	231	233	99
9	0	-1	69	86	99
9	0	0	-57	2	99
9	0	1	241	234	99
9	0	2	152	145	99
9	0	3	137	117	99
9	0	4	80	73	99
9	0	5	72	6	99
9	0	6	146	140	99
9	0	7	-28	3	99
9	0	8	117	104	99
9	0	9	19	36	99
9	1	-13	115	108	99
9	1	-12	98	112	99
9	1	-11	-26	32	99
9	1	-10	251	240	99
9	1	-9	81	96	99
9	1	-8	254	234	99
9	1	-7	198	192	99
9	1	-6	109	70	99
9	1	-5	330	352	99
9	1	-4	110	143	99
9	1	-3	271	298	99
9	1	-2	212	220	99
9	1	-1	162	148	99
9	1	0	320	324	99
9	1	1	41	68	99
9	1	2	260	271	99
9	1	3	150	163	99
9	1	4	42	57	99
9	1	5	204	216	99
9	1	6	-118	46	99
9	1	7	103	129	99
9	1	8	-59	59	99
9	1	9	32	27	99
9	2	-13	46	35	99
9	2	-12	88	77	99
9	2	-11	163	150	99
9	2	-10	99	63	99
9	2	-9	224	202	99
9	2	-8	149	174	99
9	2	-7	159	154	99
9	2	-6	174	172	99
9	2	-5	184	211	99
9	2	-4	184	192	99
9	2	-3	183	181	99
9	2	-2	107	141	99
9	2	-1	229	232	99
9	2	0	95	94	99
9	2	1	216	213	99
9	2	2	76	84	99
9	2	3	152	176	99
9	2	4	138	136	99
9	2	5	34	83	99
9	2	6	85	107	99
9	2	7	86	82	99
9	2	8	51	54	99
9	3	-12	83	107	99
9	3	-11	47	36	99
9	3	-10	97	99	99
9	3	-9	76	53	99
9	3	-8	115	120	99
9	3	-7	149	176	99
9	3	-6	104	86	99
9	3	-5	172	180	99
9	3	-4	59	58	99
9	3	-3	154	152	99
9	3	-2	135	150	99
9	3	-1	165	146	99
9	3	0	176	190	99
9	3	1	-45	22	99
9	3	2	122	130	99
9	3	3	108	116	99
9	3	4	95	86	99
9	3	5	104	91	99
9	3	6	-54	28	99
9	3	7	92	78	99
9	4	-10	66	58	99
9	4	-9	54	88	99
9	4	-8	68	99	99
9	4	-7	105	93	99
9	4	-6	181	197	99
9	4	-5	31	14	99
9	4	-4	115	139	99
9	4	-3	112	130	99
9	4	-2	143	137	99
9	4	-1	153	168	99
9	4	0	50	83	99
9	4	1	98	121	99
9	4	2	111	108	99
9	4	3	63	64	99
9	4	4	145	154	99
9	4	5	-67	24	99
9	4	6	77	95	99
9	5	-8	71	67	99
9	5	-7	93	109	99
9	5	-6	-55	53	99
9	5	-5	92	109	99
9	5	-4	35	42	99
9	5	-3	73	100	99
9	5	-2	63	122	99
9	5	-1	-68	36	99
9	5	0	95	104	99
9	5	1	36	22	99
9	5	2	101	79	99
9	5	3	50	77	99
10	0	-12	25	64	99
10	0	-11	129	130	99
10	0	-10	66	33	99
10	0	-9	136	131	99
10	0	-8	120	101	99
10	0	-7	86	89	99
10	0	-6	268	257	99
10	0	-5	105	93	99
10	0	-4	316	325	99
10	0	-3	49	88	99
10	0	-2	140	145	99
10	0	-1	169	162	99
10	0	0	74	9	99
10	0	1	228	220	99
10	0	2	171	192	99
10	0	3	138	144	99
10	0	4	157	175	99
10	0	5	-32	16	99
10	0	6	164	129	99
10	0	7	-110	28	99
10	0	8	14	71	99
10	1	-12	114	93	99
10	1	-11	-46	20	99
10	1	-10	171	159	99
10	1	-9	96	117	99
10	1	-8	172	171	99
10	1	-7	139	136	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
10	1	-6	-47	26	99	10	4	-6	157	159	99	11	2	-10	73	47	99	12	1	-9	41	97	99	13	2	-4	78	56	99
10	1	-5	195	209	99	10	4	-5	36	10	99	11	2	-9	134	132	99	12	1	-8	53	52	99	13	2	-3	50	84	99
10	1	-4	126	127	99	10	4	-4	88	111	99	11	2	-8	114	117	99	12	1	-7	79	126	99	13	2	-2	85	27	99
10	1	-3	208	219	99	10	4	-3	67	99	99	11	2	-7	-14	40	99	12	1	-6	81	54	99	13	2	-1	89	71	99
10	1	-2	157	150	99	10	4	-2	74	29	99	11	2	-6	136	128	99	12	1	-5	49	108	99						
10	1	-1	73	14	99	10	4	-1	135	124	99	11	2	-5	25	64	99	12	1	-4	78	124	99						
10	1	0	179	194	99	10	4	0	72	46	99	11	2	-4	97	117	99	12	1	-3	43	70	99						
10	1	1	99	91	99	10	4	1	94	67	99	11	2	-3	109	125	99	12	1	-2	115	136	99						
10	1	2	162	171	99	10	4	2	95	89	99	11	2	-2	99	75	99	12	1	-1	61	2	99						
10	1	3	95	106	99	10	4	3	44	42	99	11	2	-1	224	211	99	12	1	0	108	93	99						
10	1	4	-4	30	99	10	4	4	78	96	99	11	2	0	-70	29	99	12	1	1	109	90	99						
10	1	5	78	99	99	10	5	-6	27	40	99	11	2	1	113	119	99	12	1	2	69	76	99						
10	1	6	58	66	99	10	5	-5	33	91	99	11	2	2	-30	64	99	12	1	3	101	83	99						
10	1	7	65	89	99	10	5	-4	-36	32	99	11	2	3	40	33	99	12	1	4	40	33	99						
10	2	-12	-46	25	99	10	5	-3	76	83	99	11	2	4	81	96	99	12	2	-9	40	76	99						
10	2	-11	140	132	99	10	5	-2	119	136	99	11	2	5	45	33	99	12	2	-8	-76	95	99						
10	2	-10	-8	77	99	10	5	-1	43	26	99	11	3	-9	73	51	99	12	2	-7	-33	22	99						
10	2	-9	160	171	99	10	5	0	54	102	99	11	3	-8	-20	52	99	12	2	-6	148	111	99						
10	2	-8	129	130	99	10	5	1	19	18	99	11	3	-7	167	156	99	12	2	-5	44	73	99						
10	2	-7	30	66	99	11	0	-11	109	113	99	11	3	-6	84	23	99	12	2	-4	125	91	99						
10	2	-6	121	158	99	11	0	-10	-35	80	99	11	3	-5	158	165	99	12	2	-3	106	97	99						
10	2	-5	104	99	99	11	0	-9	95	150	99	11	3	-4	-31	92	99	12	2	-2	48	49	99						
10	2	-4	107	130	99	11	0	-8	132	121	99	11	3	-3	22	81	99	12	2	-1	128	128	99						
10	2	-3	198	198	99	11	0	-7	77	72	99	11	3	-2	140	137	99	12	2	0	103	34	99						
10	2	-2	77	83	99	11	0	-6	248	246	99	11	3	-1	70	46	99	12	2	1	-70	72	99						
10	2	-1	257	268	99	11	0	-5	108	99	99	11	3	0	87	125	99	12	2	2	-25	69	99						
10	2	0	91	76	99	11	0	-4	226	260	99	11	3	1	67	60	99	12	2	3	35	41	99						
10	2	1	124	143	99	11	0	-3	138	149	99	11	3	2	117	67	99	12	3	-7	-59	107	99						
10	2	2	106	74	99	11	0	-2	51	85	99	11	3	3	111	138	99	12	3	-6	53	4	99						
10	2	3	88	84	99	11	0	-1	83	123	99	11	3	4	47	13	99	12	3	-5	128	114	99						
10	2	4	75	109	99	11	0	0	107	89	99	11	4	-7	92	13	99	12	3	-4	-66	81	99						
10	2	5	41	65	99	11	0	1	171	211	99	11	4	-6	126	120	99	12	3	-3	99	33	99						
10	2	6	80	89	99	11	0	2	129	135	99	11	4	-5	54	16	99	12	3	-2	-49	126	99						
10	2	7	64	78	99	11	0	3	-31	87	99	11	4	-4	25	69	99	12	3	-1	36	43	99						
10	3	-11	-50	42	99	11	0	4	148	152	99	11	4	-3	-3	69	99	12	3	0	-84	79	99						
10	3	-10	91	97	99	11	0	5	82	19	99	11	4	-2	71	9	99	12	3	1	42	61	99						
10	3	-9	75	45	99	11	0	6	88	91	99	11	4	-1	65	92	99	13	0	-7	64	42	99						
10	3	-8	93	90	99	11	1	-11	33	21	99	11	4	0	-72	16	99	13	0	-6	122	11	99						
10	3	-7	145	166	99	11	1	-10	122	96	99	11	4	1	49	66	99	13	0	-5	75	67	99						
10	3	-6	99	59	99	11	1	-9	114	112	99	12	0	-10	109	114	99	13	0	-4	19	32	99						
10	3	-5	196	193	99	11	1	-8	115	103	99	12	0	-9	114	109	99	13	0	-3	64	111	99						
10	3	-4	35	66	99	11	1	-7	105	126	99	12	0	-8	111	94	99	13	0	-2	6	4	99						
10	3	-3	93	125	99	11	1	-6	-87	79	99	12	0	-7	84	65	99	13	0	-1	-51	62	99						
10	3	-2	154	153	99	11	1	-5	132	87	99	12	0	-6	123	108	99	13	0	0	24	52	99						
10	3	-1	98	99	99	11	1	-4	128	133	99	12	0	-5	41	78	99	13	0	1	-27	39	99						
10	3	0	145	145	99	11	1	-3	127	120	99	12	0	-4	164	155	99	13	1	-7	21	110	99						
10	3	1	38	51	99	11	1	-2	111	116	99	12	0	-3	155	145	99	13	1	-6	-74	50	99						
10	3	2	92	100	99	11	1	-1	63	7	99	12	0	-2	77	39	99	13	1	-5	109	104	99						
10	3	3	140	146	99	11	1	0	47	103	99	12	0	-1	76	90	99	13	1	-4	-80	101	99						
10	3	4	-9	50	99	11	1	1	111	103	99	12	0	0	67	93	99	13	1	-3	78	60	99						
10	3	5	92	102	99	11	1	2	96	96	99	12	0	1	101	107	99	13	1	-2	69	101	99						
10	3	6	-46	6	99	11	1	3	92	68	99	12	0	2	96	107	99	13	1	-1	-41	24	99						
10	4	-9	-40	29	99	11	1	4	-60	15	99	12	0	3	58	59	99	13	1	0	12	91	99						
10	4	-8	63	98	99	11	1	5	-31	53	99	12	0	4	86	67	99	13	1	1	82	76	99						
10	4	-7	55	38	99	11	1	6	53	57	99	12	1	-10	-88	76	99	13	2	-5	113	69	99						

APPENDIX 4.II

$[Te(S_2COiBu)_2]$

Table 4.II.1: Crystallographic Parameters for $[Te(S_2COCH_2CH(CH_3)_2)_2]$

Formula	$C_{10}H_{18}O_2S_4Te$
Formula weight	426.09
Crystal morphology / colour	needle / red
Crystal dimensions (mm)	0.07 x 0.08 x 0.40
Crystal system	monoclinic
Space group	$P2_1/c$ (#14)
a (Å)	15.535(10)
b (Å)	10.402(4)
c (Å)	10.832(4)
α (°)	90
β (°)	109.43(5)
γ (°)	90
V (Å^3)	1650(1)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.714
$F(000)$	840
Temperature (°K)	200
μ (cm^{-1})	22.97
θ limits, cell (°)	25.8 – 27.5
θ limits, data (°)	3.0 – 27.5
hkl range	-20 – 20, -13 – 0, 0 – 13
Range of transmission factors	0.931 – 1
Scan technique	ω:2θ
No. of data measured	4222
No. of unique data	4019
R_{amal}	0.047
No. of parameters	154
R (I≥0σ(I))	0.071
R_w (I≥0σ(I))	0.094
R (I≥3σ(I))	0.035
R_w (I≥3σ(I))	0.042
Maximum and minimum residual electron density (e Å^{-3})	0.98, -1.13

Table 4.II.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Te(S_2COCH_2CH(CH_3)_2)_2]$

Atom	*x*	*y*	*z*
Te	0.22985(2)	-0.17392(3)	0.13447(3)
S(1)	0.2986(1)	-0.0287(1)	0.3251(1)
S(2)	0.27509(10)	0.0723(1)	0.0610(1)
S(3)	0.22501(10)	-0.3264(1)	0.3116(1)
S(4)	0.15189(10)	-0.4271(1)	0.0405(1)
O(1)	0.3486(3)	0.1965(3)	0.2858(4)
O(2)	0.1563(2)	-0.5490(3)	0.2591(3)
C(1)	0.3097(4)	0.0916(5)	0.2224(5)
C(2)	0.3693(4)	0.3018(5)	0.2114(6)
C(3)	0.4236(4)	0.3996(5)	0.3088(6)
C(4)	0.5109(5)	0.3428(6)	0.4006(7)
C(5)	0.4420(5)	0.5144(6)	0.2334(7)
C(6)	0.1731(3)	-0.4449(5)	0.2006(5)
C(7)	0.1097(4)	-0.6569(5)	0.1792(5)
C(8)	0.0941(4)	-0.7575(5)	0.2707(5)
C(9)	0.0530(4)	-0.8773(5)	0.1914(6)
C(10)	0.0317(4)	-0.7078(5)	0.3421(6)

Table 4.II.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Te(S_2COCH_2CH(CH_3)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Te	0.0252(2)	0.0259(2)	0.0266(2)	-0.0027(1)	0.0087(1)	0.0006(1)
S(1)	0.0451(8)	0.0333(7)	0.0277(7)	-0.0115(6)	0.0103(6)	-0.0010(5)
S(2)	0.0373(8)	0.0307(7)	0.0305(7)	-0.0059(6)	0.0103(6)	0.0021(5)
S(3)	0.0427(8)	0.0315(6)	0.0242(6)	-0.0108(6)	0.0086(6)	-0.0010(5)
S(4)	0.0403(8)	0.0344(7)	0.0258(6)	-0.0076(6)	0.0111(6)	-0.0004(5)
O(1)	0.046(2)	0.032(2)	0.040(2)	-0.014(2)	0.012(2)	-0.006(2)
O(2)	0.040(2)	0.029(2)	0.029(2)	-0.012(2)	0.008(2)	0.003(1)
C(1)	0.033(3)	0.028(3)	0.034(3)	-0.008(2)	0.010(2)	-0.004(2)
C(2)	0.041(3)	0.036(3)	0.049(3)	-0.011(3)	0.015(3)	0.005(3)
C(3)	0.036(3)	0.036(3)	0.062(4)	-0.007(3)	0.026(3)	-0.009(3)
C(4)	0.042(4)	0.057(4)	0.071(5)	-0.013(3)	0.002(3)	-0.017(4)
C(5)	0.054(4)	0.041(3)	0.085(5)	-0.014(3)	0.029(4)	-0.005(3)
C(6)	0.023(3)	0.028(2)	0.031(3)	-0.002(2)	0.009(2)	0.002(2)
C(7)	0.031(3)	0.026(3)	0.030(3)	-0.003(2)	0.006(2)	-0.004(2)
C(8)	0.028(3)	0.028(3)	0.033(3)	-0.002(2)	0.008(2)	0.002(2)
C(9)	0.052(4)	0.022(2)	0.049(3)	-0.006(3)	0.017(3)	-0.002(2)
C(10)	0.043(3)	0.037(3)	0.040(3)	-0.005(3)	0.017(3)	0.000(2)

Table 4.II.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in [Te($S_2COCH_2CH(CH_3)_2)_2$]*

Atom	*x*	*y*	*z*	*B*eq
H(2a)	0.4046	0.2704	0.1589	3.9516
H(2b)	0.3131	0.3402	0.1547	3.9516
H(3a)	0.3869	0.4288	0.3604	4.0070
H(4a)	0.5433	0.4079	0.4632	5.7574
H(4b)	0.4966	0.2707	0.4468	5.7574
H(4c)	0.5488	0.3142	0.3507	5.7574
H(5a)	0.4770	0.4863	0.1791	5.5415
H(5b)	0.3843	0.5503	0.1785	5.5415
H(5c)	0.4760	0.5790	0.2947	5.5415
H(7a)	0.1475	-0.6927	0.1318	2.8510
H(7b)	0.0519	-0.6293	0.1174	2.8510
H(8a)	0.1523	-0.7801	0.3350	2.8630
H(9a)	0.0438	-0.9431	0.2497	3.8707
H(9b)	-0.0054	-0.8559	0.1265	3.8707
H(9c)	0.0940	-0.9096	0.1481	3.8707
H(10a)	0.0585	-0.6321	0.3926	3.7318
H(10b)	-0.0272	-0.6854	0.2789	3.7318
H(10c)	0.0234	-0.7738	0.4004	3.7318

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 4.II.5: Bond distances (Å) for [Te($S_2COCH_2CH(CH_3)_2)_2$]

Te — S(1)	2.494(1)	O(1) — C(2)	1.459(6)
Te — S(2)	2.839(1)	O(2) — C(6)	1.323(5)
Te — S(3)	2.510(1)	O(2) — C(7)	1.455(6)
Te — S(4)	2.935(1)	C(2) — C(3)	1.506(8)
S(1) — C(1)	1.721(5)	C(3) — C(4)	1.510(9)
S(2) — C(1)	1.661(5)	C(3) — C(5)	1.527(8)
S(3) — C(6)	1.723(5)	C(7) — C(8)	1.516(7)
S(4) — C(6)	1.665(5)	C(8) — C(9)	1.527(7)
O(1) — C(1)	1.324(6)	C(8) — C(10)	1.519(8)

Table 4.II.6: Bond angles (deg.) for [Te($S_2COCH_2CH(CH_3)_2)_2$]

S(1) — Te — S(2)	66.92(4)	S(1) — C(1) — O(1)	113.0(4)
S(1) — Te — S(3)	82.14(4)	S(2) — C(1) — O(1)	125.3(4)
S(1) — Te — S(4)	147.57(4)	O(1) — C(2) — C(3)	107.1(5)
S(2) — Te — S(3)	149.05(4)	C(2) — C(3) — C(4)	111.6(5)
S(2) — Te — S(4)	145.51(4)	C(2) — C(3) — C(5)	108.3(5)
S(3) — Te — S(4)	65.44(4)	C(4) — C(3) — C(5)	111.7(5)
Te — S(1) — C(1)	90.7(2)	S(3) — C(6) — S(4)	122.1(3)
Te — S(2) — C(1)	80.6(2)	S(3) — C(6) — O(2)	111.8(3)
Te — S(3) — C(6)	92.6(2)	S(4) — C(6) — O(2)	126.0(4)
Te — S(4) — C(6)	79.8(2)	O(2) — C(7) — C(8)	107.4(4)
C(1) — O(1) — C(2)	118.6(4)	C(7) — C(8) — C(9)	108.8(4)
C(6) — O(2) — C(7)	119.0(4)	C(7) — C(8) — C(10)	111.5(4)
S(1) — C(1) — S(2)	121.7(3)	C(9) — C(8) — C(10)	110.3(4)

Table 4.II.7: Observed and calculated structure factors for $[Te(S_2COCH_2CH(CH_3)_2)_2]$

h	k	l	Fo	Fc	sigF
0	-1	2	1496	1430	21
0	-1	3	565	539	12
0	-1	5	670	640	15
0	-1	6	1097	1119	19
0	-1	7	205	198	10
0	-1	8	364	360	10
0	-1	9	211	215	13
0	-1	10	756	768	17
0	-1	11	267	276	16
0	-1	12	408	396	14
0	-2	13	165	159	22
0	-2	12	203	220	16
0	-2	9	661	696	15
0	-2	8	607	622	14
0	-2	7	708	711	17
0	-2	6	317	309	9
0	-2	5	1532	1541	23
0	-2	4	1075	1061	17
0	-2	3	618	596	12
0	-2	2	495	460	11
0	0	2	1979	2071	27
0	0	4	889	930	15
0	0	6	637	665	16
0	0	10	474	444	13
0	0	12	445	420	15
0	-2	1	785	745	13
0	-2	0	497	447	11
0	-3	12	175	182	19
0	-3	11	280	260	14
0	-3	7	911	923	19
0	-3	6	188	175	10
0	-3	5	200	194	8
0	-3	4	206	197	7
0	-3	3	1854	1907	26
0	-3	2	573	556	12
0	-3	1	1581	1614	22
0	-4	12	209	206	17
0	-4	9	831	837	21
0	-4	8	119	100	17
0	-4	7	203	225	11
0	-4	6	119	107	13
0	-4	5	372	376	10
0	-4	4	524	515	14
0	-4	3	1543	1581	23
0	-4	2	297	304	8
0	-4	1	957	950	16
0	-4	0	625	593	14
0	-5	12	268	294	16
0	-5	11	318	315	14
0	-5	10	158	161	19
0	-5	8	286	268	11
0	-5	7	756	763	18
0	-5	6	907	941	20
0	-5	5	512	496	12
0	-5	4	131	130	12
1	-10	0	146	167	14
1	-10	1	408	416	11
1	-10	2	186	230	17
1	-10	3	925	963	22
1	-10	5	155	166	19
1	-10	7	495	479	13
1	-9	0	135	94	15
1	-9	1	304	316	11
1	-9	2	150	180	16
1	-9	3	640	652	15
1	-9	5	442	448	12
1	-9	7	347	361	13
1	-9	8	360	342	13
1	-9	9	348	356	14
1	-8	1	581	611	14
1	-8	2	683	733	19
1	-8	3	316	321	10
1	-8	4	289	299	10
1	-8	5	180	164	12
1	-8	6	402	394	11
1	-8	7	231	228	14
1	-8	8	242	235	14
1	-8	10	360	356	15
1	-7	0	1212	1515	21
1	-7	2	234	250	10
1	-7	4	1008	1046	20
1	-7	5	271	257	10
1	-7	6	455	454	12
1	-7	7	147	94	14
1	-7	8	322	316	12
1	-7	9	256	269	14
1	-7	11	163	164	21
1	-6	0	96	90	15
1	-6	1	107	103	13
1	-6	2	595	597	15
1	-6	3	297	310	9
1	-6	5	163	156	13
1	-6	6	1309	1363	24
1	-6	8	176	145	13
1	-6	9	289	289	12
1	-6	10	472	485	13
1	-6	11	139	139	23
1	-5	0	982	1059	17
1	-5	1	209	215	8
1	-5	2	564	526	14
1	-5	3	757	741	16
1	-5	4	567	579	16
1	-5	5	851	882	18
1	-5	6	382	384	10
1	-5	8	445	456	12
1	-5	9	569	584	16
1	-5	10	158	155	17
1	-5	11	149	153	22
1	-5	12	205	234	22
1	-4	0	235	217	7
1	-4	1	2188	2288	30
1	-4	2	853	855	15
1	-4	3	1404	1399	21
1	-4	4	120	125	11
1	-4	6	304	304	9
1	-4	7	517	517	14
1	-4	8	284	271	10
1	-4	11	375	406	14
1	-3	0	151	142	8
1	-3	1	613	585	12
1	-3	2	164	138	8
1	-3	3	916	893	16
1	-3	4	558	548	14
1	-3	5	674	648	16
1	-3	6	471	497	12
1	-3	7	835	854	19
1	-3	9	856	910	23
1	-3	11	231	201	13
1	-2	0	447	416	11
1	-2	1	225	228	6
1	-2	2	1093	1080	17
1	-2	3	1601	1631	23
1	-2	4	295	292	8
1	-2	5	466	463	11
1	-2	6	1128	1190	20
1	-2	7	683	657	17
1	-2	8	268	285	12
1	-2	9	427	426	11
1	-2	10	170	211	18
1	-2	11	255	276	16
1	-2	12	175	169	20
0	-11	1	373	398	12
0	-12	4	309	310	13
0	-12	3	292	285	13
0	-12	1	248	237	13
0	-12	0	558	568	16
0	-13	2	306	286	14
-1	0	12	663	675	17
-1	0	10	641	626	16
-1	0	8	602	623	14
-1	0	6	781	781	16
-1	0	4	935	908	16
-1	0	2	1892	1952	26
-1	-1	13	165	132	20
-1	-1	12	234	214	17
-1	-1	10	362	375	12
-1	-1	9	248	256	12
-1	-1	8	425	431	11
-1	-1	6	835	804	16
-1	-1	5	646	640	14
-1	-1	4	1544	1557	22
-1	-1	3	308	311	8
1	-1	1	924	861	14
1	-1	2	193	176	6
1	-1	3	1248	1215	19
1	-1	4	1304	1309	20
1	-1	5	785	768	16
1	-1	6	618	620	16
1	-1	7	194	224	12
1	-1	8	642	633	15
1	-1	11	238	235	14
1	-1	12	424	434	15
1	-1	13	234	241	19
1	0	2	1665	1722	23
1	0	4	1024	1037	17
1	0	6	988	1023	19
1	0	8	373	375	11
1	0	10	877	886	24
1	0	12	467	444	14
2	-13	2	319	301	13
2	-12	0	513	548	13
2	-12	1	161	128	16
2	-12	3	310	302	13
2	-12	4	271	263	14
2	-12	5	134	169	22
2	-11	0	231	239	13
2	-11	1	502	510	13
2	-11	2	161	112	15
2	-11	3	489	484	13
2	-11	5	183	197	16
2	-11	6	321	321	13
2	-11	7	187	174	18
2	-10	0	135	142	16
2	-10	3	477	485	13
2	-10	4	133	83	16
2	-10	5	402	416	13
2	-10	7	473	479	13
2	-9	0	665	664	15
2	-9	1	430	424	12
2	-9	2	402	414	11
2	-9	3	537	535	15
2	-9	4	266	279	12
2	-9	5	370	365	12
2	-9	6	328	313	12
2	-9	7	179	170	16
2	-9	8	225	236	16
2	-8	0	1232	1245	22
2	-8	1	314	326	10
2	-8	3	550	543	14
2	-8	4	371	371	11
2	-8	5	419	419	11
2	-8	8	227	223	15
2	-8	9	376	414	14
2	-7	0	193	180	10
2	-7	1	204	187	11
2	-7	2	678	660	17
2	-7	4	291	278	10
2	-7	5	363	355	10
2	-7	6	740	753	16
2	-7	7	345	322	11
2	-7	9	230	219	15
2	-7	10	475	491	14
2	-6	0	994	1035	18
2	-6	1	270	253	8
2	-6	2	313	325	9
2	-6	3	125	131	15
2	-6	4	1161	1173	21
2	-6	5	219	210	12
2	-6	6	358	337	11
2	-6	7	275	272	11
2	-6	8	399	399	12
2	-6	9	237	244	15
2	-5	0	243	221	8
2	-5	1	419	421	10
2	-5	2	1460	1506	22
2	-5	3	351	364	9
2	-5	4	108	97	15
2	-5	6	618	620	14
2	-5	7	429	410	12
2	-5	9	411	436	13
2	-5	10	218	212	15
2	-5	11	179	213	21
2	-4	0	447	420	11
2	-4	1	122	124	10
2	-4	2	274	247	8
2	-4	3	1085	1096	18
2	-4	4	251	257	9
2	-4	5	286	276	9
2	-4	7	575	593	14
2	-4	8	257	256	12
2	-4	9	729	725	17
2	-4	12	163	184	23
2	-3	0	359	320	10
2	-3	1	1351	1352	20
2	-3	2	950	945	16
2	-3	3	1236	1258	19
2	-3	4	312	307	8
2	-3	5	295	287	9
2	-3	6	102	107	16
2	-3	7	735	754	19
2	-3	8	116	115	18
2	-3	9	218	215	14
2	-3	10	155	190	19
2	-3	11	289	286	14
2	-3	12	254	253	16
2	-2	0	223	199	8
2	-2	1	316	310	8
2	-2	2	528	516	12
2	-2	3	915	924	16
2	-2	4	506	505	14
2	-2	5	940	929	18
2	-2	6	167	101	15
3	-7	8	379	383	13
3	-7	9	254	252	15
3	-6	0	333	325	9
3	-6	1	148	134	10
3	-6	2	638	647	17
3	-6	3	121	86	14
3	-6	4	544	528	13
3	-6	6	934	953	21
3	-6	9	244	225	15
3	-6	10	510	492	14
3	-5	0	1244	1255	21
3	-5	3	637	625	16
3	-5	4	625	615	17
3	-5	5	896	925	19
3	-5	6	434	427	11
3	-5	7	199	196	15
3	-5	9	431	450	13
3	-4	0	424	407	11
3	-4	1	1398	1471	21
3	-4	2	402	392	10
3	-4	3	543	550	15
3	-4	4	270	261	9
3	-4	5	658	673	18
3	-4	6	530	536	13
3	-4	7	652	655	15
3	-4	8	175	174	14
3	-4	9	165	174	18
3	-4	10	146	116	18
3	-3	0	746	694	15
3	-3	1	100	78	11
3	-3	2	343	322	8
3	-3	3	1165	1172	19
3	-3	5	672	697	17
3	-3	6	733	741	18
3	-3	7	605	609	15
3	-3	8	122	122	19
3	-3	9	538	552	14
3	-3	10	156	165	19
3	-3	11	285	258	14
3	-2	0	127	90	10
3	-2	1	1207	1161	18
3	-2	2	695	688	13
3	-2	3	1018	1028	17
3	-2	4	338	335	9
3	-2	5	359	359	10
3	-2	6	916	895	19
3	-2	7	279	263	11
3	-2	8	265	293	13
3	-2	9	307	323	13
3	-2	10	309	301	14
3	-2	11	298	319	15
3	-2	12	210	202	19
3	-1	3	1313	1327	20
3	-1	4	752	792	16
3	-1	5	174	183	10
3	-1	6	390	388	11
3	-1	7	277	257	11
3	-1	8	590	572	15
3	-1	9	224	219	13
3	-1	10	146	124	19
3	-1	11	234	247	18
3	-1	12	350	359	16
3	0	0	864	811	15
3	0	2	874	837	15
3	0	4	620	647	15
3	0	6	1041	1025	20
3	0	8	124	148	18
3	0	10	738	738	18
3	0	12	286	288	17
4	-13	0	171	142	16
4	-13	1	210	181	15
4	-12	0	426	427	12
4	-12	3	306	315	14
4	-12	4	223	218	16
4	-11	0	408	404	12
4	-11	1	482	500	13
4	-11	3	247	227	13
4	-11	5	273	263	13
4	-11	6	380	388	14
4	-10	3	500	489	13
4	-10	4	154	124	17
4	-10	7	316	299	13
4	-9	0	526	507	15
4	-9	1	749	768	20
4	-9	2	127	150	19
4	-9	3	421	415	11
4	-9	4	173	153	15
4	-9	5	413	405	12
4	-9	6	434	427	12
4	-9	8	137	106	21
4	-8	0	562	574	15
4	-8	2	242	241	11
4	-8	3	690	702	15
4	-8	4	612	624	15
4	-8	5	348	350	12
4	-8	7	374	369	13
4	-8	8	324	324	14
4	-8	9	198	242	21
4	-7	0	416	404	11
4	-7	2	678	695	18
4	-7	4	443	415	12
4	-7	5	128	134	18
4	-7	6	741	715	17
4	-7	7	281	253	13
4	-6	2	286	291	9
4	-6	3	413	393	11
4	-6	4	746	753	19
4	-6	5	220	225	13
4	-6	8	438	442	13
4	-6	9	272	283	15
4	-5	0	553	530	16
4	-5	1	546	541	15
4	-5	2	1346	1428	22
4	-5	3	507	503	12
4	-5	4	654	644	17
4	-5	5	134	131	15
4	-5	6	654	655	16
4	-5	7	296	362	12
4	-5	8	125	87	17
4	-5	9	454	461	13
4	-5	10	245	256	16
4	-5	11	157	133	20
4	-4	0	591	552	16
4	-4	1	305	295	8
4	-4	2	405	397	11
4	-4	3	1041	1064	19
4	-4	4	205	188	10
4	-4	5	424	418	12
4	-4	6	405	398	11
4	-4	7	857	902	22
4	-4	8	255	245	13
4	-4	9	367	398	13
4	-3	0	162	151	10
4	-3	1	1890	1970	27
4	-3	2	1137	1134	19
4	-3	3	1143	1152	19
4	-3	4	449	467	12
4	-3	5	513	493	12
4	-3	7	467	451	13
4	-3	9	446	462	14
4	-3	11	282	300	17
4	-2	0	841	786	16
4	-2	1	91	87	14
4	-2	2	232	233	7
4	-2	3	1375	1438	21
4	-2	4	376	376	10
4	-2	5	469	466	12
4	-2	7	553	549	15
4	-2	8	249	276	14
4	-2	9	637	656	17
4	-2	10	149	113	19
4	-1	0	1747	1832	25
4	-1	1	90	86	14
4	-1	2	1320	1325	20
4	-1	3	114	112	12
4	-1	4	238	250	9

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
2	-2	7	689	730	19	3	-7	5	291	283	12	3	-1	0	2043	2525	28	4	-7	9	213	223	19	4	-1	5	602	608	17
2	-2	8	410	405	11	3	-7	6	151	125	16	3	-1	1	1462	1391	21	4	-7	10	373	360	15	4	-1	6	1251	1249	22
2	-2	9	687	701	16	3	-7	7	177	146	16	3	-1	2	442	416	12	4	-6	0	1247	1257	22	4	-1	7	384	377	11
4	-1	8	178	157	14	5	-4	3	537	550	12	6	-8	0	239	211	13	6	-2	11	334	349	18	7	-4	1	851	855	19
4	-1	10	449	460	14	5	-4	4	191	183	11	6	-8	1	147	157	16	6	-1	0	957	934	18	7	-4	2	317	312	10
4	-1	11	182	207	22	5	-4	5	1133	1121	22	6	-8	2	167	174	14	6	-1	1	845	840	17	7	-4	3	356	349	10
4	0	0	1497	1560	22	5	-4	6	496	498	13	6	-8	3	770	756	20	6	-1	2	654	648	16	7	-4	4	442	440	12
4	0	2	1032	973	17	5	-4	7	308	314	13	6	-8	4	604	593	16	6	-1	3	255	249	9	7	-4	5	1042	1967	22
4	0	4	1664	1748	25	5	-4	9	416	400	13	6	-8	5	229	236	15	6	-1	4	457	459	13	7	-4	6	389	366	12
4	0	8	687	674	17	5	-3	0	966	923	18	6	-8	6	349	334	13	6	-1	6	923	907	21	7	-4	9	382	365	14
5	-13	0	408	444	13	5	-3	1	102	85	13	6	-8	7	397	393	14	6	-1	7	203	181	14	7	-3	0	426	402	10
5	-12	0	157	205	20	5	-3	3	1216	1227	21	6	-8	8	199	216	19	6	-1	9	153	193	24	7	-3	1	393	372	10
5	-12	2	273	295	14	5	-3	5	563	559	14	6	-7	0	561	554	15	6	-1	10	436	417	14	7	-3	2	261	242	10
5	-12	4	233	261	18	5	-3	6	340	359	11	6	-7	2	489	491	12	6	0	0	741	762	16	7	-3	3	1080	1111	21
5	-11	3	592	556	16	5	-3	7	706	705	16	6	-7	3	119	118	19	6	0	2	392	393	10	7	-3	4	224	222	12
5	-10	1	730	737	16	5	-3	8	185	169	17	6	-7	4	493	486	13	6	0	4	1395	1466	24	7	-3	5	193	194	14
5	-10	3	182	173	15	5	-3	9	427	414	13	6	-7	6	674	658	17	6	0	6	555	538	15	7	-3	7	616	607	17
5	-10	5	228	227	15	5	-3	11	259	253	18	6	-6	0	835	838	19	6	0	8	484	463	13	7	-3	9	274	267	15
5	-10	7	221	234	18	5	-2	0	1037	1021	18	6	-6	1	315	292	10	6	0	10	166	146	20	7	-2	0	1716	1783	26
5	-9	1	231	247	13	5	-2	1	1133	1109	19	6	-6	2	546	558	14	7	-12	0	243	256	16	7	-2	1	866	849	18
5	-9	2	205	197	13	5	-2	2	660	667	15	6	-6	3	486	496	12	7	-12	2	312	302	13	7	-2	2	746	747	18
5	-9	3	761	765	16	5	-2	3	164	145	9	6	-6	4	230	224	12	7	-11	3	426	426	13	7	-2	3	149	167	13
5	-9	5	160	129	16	5	-2	4	501	522	12	6	-6	5	243	245	13	7	-10	1	589	592	16	7	-2	4	128	132	16
5	-9	7	399	397	13	5	-2	5	343	338	10	6	-6	8	498	493	14	7	-10	3	182	166	17	7	-2	6	405	414	12
5	-8	0	519	522	13	5	-2	6	689	703	19	6	-6	9	146	162	21	7	-10	5	251	235	15	7	-2	9	497	482	14
5	-8	2	673	707	19	5	-2	7	243	230	13	6	-5	0	781	776	18	7	-9	0	278	247	12	7	-2	10	367	342	15
5	-8	3	260	249	12	5	-2	8	267	268	12	6	-5	1	281	284	10	7	-9	2	187	148	15	7	-1	0	726	702	17
5	-8	4	256	241	12	5	-2	9	463	464	13	6	-5	2	742	760	18	7	-9	3	642	641	17	7	-1	1	340	335	10
5	-8	5	182	208	17	5	-2	10	396	384	14	6	-5	3	275	274	11	7	-9	7	359	356	14	7	-1	2	580	548	16
5	-8	6	675	637	17	5	-2	11	314	316	17	6	-5	4	714	740	15	7	-8	0	358	332	11	7	-1	3	850	875	19
5	-8	7	139	108	21	5	-1	0	1264	1284	20	6	-5	5	216	213	13	7	-8	1	349	336	11	7	-1	4	544	535	14
5	-8	9	309	294	14	5	-1	1	470	437	11	6	-5	6	709	687	16	7	-8	2	733	727	21	7	-1	6	422	414	12
5	-7	0	1173	1216	23	5	-1	3	1398	1416	22	6	-5	9	417	418	14	7	-8	3	175	182	18	7	-1	7	494	484	14
5	-7	1	317	307	11	5	-1	4	776	798	17	6	-5	10	277	303	19	7	-8	4	306	317	14	7	-1	8	426	418	13
5	-7	2	225	213	10	5	-1	6	196	200	13	6	-4	0	450	452	11	7	-8	5	272	260	14	7	-1	9	297	302	16
5	-7	4	632	643	15	5	-1	7	332	336	12	6	-4	1	435	446	12	7	-8	6	516	476	13	7	0	0	502	484	12
5	-7	5	477	464	13	5	-1	8	714	703	17	6	-4	2	149	136	12	7	-7	0	474	468	13	7	0	2	1346	1361	23
5	-7	6	165	151	17	5	-1	9	403	403	13	6	-4	3	1036	1042	20	7	-7	1	288	276	11	7	0	4	728	742	19
5	-7	8	464	463	13	5	0	0	426	418	11	6	-4	4	180	196	15	7	-7	2	544	596	15	7	0	6	866	870	23
5	-6	0	810	801	19	5	0	2	1211	1181	20	6	-4	5	352	358	11	7	-7	3	258	240	12	7	0	8	264	251	15
5	-6	1	149	124	12	5	0	4	570	579	16	6	-4	7	764	748	21	7	-7	4	425	451	12	8	-12	0	321	307	13
5	-6	2	750	748	18	5	0	6	1176	1164	23	6	-4	10	160	134	18	7	-7	6	390	385	13	8	-11	0	277	285	14
5	-6	4	298	311	11	5	0	8	415	417	13	6	-3	1	1151	1128	20	7	-7	8	489	501	14	8	-11	1	244	239	14
5	-6	6	489	474	13	5	0	10	360	355	15	6	-3	2	334	319	9	7	-6	0	1247	1286	23	8	-10	1	298	304	14
5	-6	9	162	159	19	6	-12	0	421	414	13	6	-3	3	292	284	9	7	-6	1	155	154	16	8	-10	3	359	354	13
5	-6	10	580	556	16	6	-12	3	352	374	15	6	-3	4	435	429	11	7	-6	2	438	420	12	8	-9	0	358	348	13
5	-5	0	1185	1176	21	6	-11	0	496	498	14	6	-3	5	764	783	20	7	-6	4	250	251	12	8	-9	1	521	536	14
5	-5	1	401	392	10	6	-11	1	443	419	12	6	-3	7	319	324	13	7	-6	6	396	398	12	8	-9	4	281	260	13
5	-5	2	239	248	10	6	-11	2	176	186	17	6	-3	9	477	479	14	7	-5	0	872	840	19	8	-9	5	264	274	16
5	-5	3	773	813	18	6	-11	5	289	294	15	6	-2	0	896	897	17	7	-5	1	194	188	12	8	-9	6	167	189	24
5	-5	4	542	546	14	6	-10	1	124	92	19	6	-2	1	376	375	10	7	-5	2	296	286	10	8	-8	0	464	464	12
5	-5	5	645	638	15	6	-10	3	411	408	12	6	-2	3	886	932	18	7	-5	3	719	750	20	8	-8	2	136	119	17
5	-5	6	243	234	13	6	-9	0	368	353	12	6	-2	4	204	198	11	7	-5	4	204	218	14	8	-8	3	702	695	17
5	-5	7	489	496	13	6	-9	1	652	664	16	6	-2	5	363	366	10	7	-5	5	213	213	14	8	-8	4	379	361	13
5	-5	9	324	341	15	6	-9	2	182	167	14	6	-2	7	247	252	13	7	-5	6	223	248	16	8	-8	6	462	429	14
5	-4	0	428	404	12	6	-9	3	158	147	17	6	-2	8	243	246	15	7	-5	7	414	425	13	8	-8	7	360	335	14
5	-4	1	891	897	17	6	-9	5	371	358	13	6	-2	9	439	443	14	7	-5	9	311	280	14	8	-7	0	734	726	21
5	-4	2	535	536	12	6	-9	6	364	376	14	6	-2	10	199	185	20	7	-4	0	470	476	13	8	-7	2	516	530	13
8	-7	3	130	147	20	8	0	2	954	935	20	9	-2	9	469	442	16	10	-3	8	160	154	21	-1	-6	2	539	514	15
8	-7	4	401	376	12	8	0	4	959	963	22	9	-1	0	474	440	12	10	-2	0	184	165	13	-1	-6	1	197	295	9
8	-7	6	403	400	14	8	0	6	983	1029	24	9	-1	1	420	414	10	10	-2	1	695	704	15	-1	-7	9	213	180	13
8	-7	8	178	159	19	8	0	8	461	470	14	9	-1	2	717	742	20	10	-2	2	311	315	11	-1	-7	6	687	661	19
8	-6	0	538	535	15	8	0	10	161	101	20	9	-1	3	577	563	15	10	-2	3	573	568	16	-1	-7	5	173	170	12
8	-6	1	325	334	12	9	-11	0	288	294	14	9	-1	4	239	258	13	10	-2	4	176	176	16	-1	-7	4	854	854	19
8	-6	2	594	598	15	9	-10	1	375	375	13	9	-1	5	203	197	15	10	-2	7	494	486	15	-1	-7	3	184	163	10
8	-6	3	301	287	12	9	-10	3	170	196	20	9	-1	6	495	501	13	10	-1	0	1107	1093	22	-1	-7	2	571	584	13
8	-6	4	147	142	16	9	-9	0	253	249	14	9	-1	7	519	503	14	-1	-2	11	141	128	16	-1	-7	1	302	290	9
8	-6	6	180	160	17	9	-9	1	194	193	16	9	-1	8	305	307	16	-1	-2	10	188	187	14	-1	-8	10	220	225	16
8	-6	7	142	106	19	9	-9	2	158	173	20	9	0	0	697	695	19	-1	-2	9	219	239	13	-1	-8	8	342	340	12
8	-6	8	438	431	15	9	-9	3	508	512	13	9	0	2	1163	1199	22	-1	-2	8	318	319	10	-1	-8	7	257	254	13
8	-5	0	886	849	20	9	-8	0	337	321	12	9	0	4	768	766	16	-1	-2	7	1162	1185	21	-1	-8	6	295	283	11
8	-5	1	596	590	15	9	-8	1	406	417	12	9	0	6	523	519	13	-1	-2	6	854	888	17	-1	-8	5	287	301	11
8	-5	2	422	410	11	9	-8	2	468	464	13	9	0	8	249	228	18	-1	-2	5	220	210	8	-1	-8	4	210	216	12
8	-5	4	547	537	15	9	-8	4	533	523	15	10	-11	0	334	327	13	-1	-2	4	855	848	15	-1	-8	3	294	294	10
8	-5	5	271	261	13	9	-8	5	298	289	15	10	-11	1	141	143	20	-1	-2	3	1467	1450	21	-1	-8	2	925	878	19
8	-5	6	622	565	17	9	-8	6	362	367	16	10	-10	1	241	255	14	-1	-2	2	368	345	10	-1	-8	1	457	466	11
8	-5	8	187	175	19	9	-7	2	680	664	16	10	-10	3	347	349	14	-1	-2	1	491	461	10	-1	-9	9	503	494	14
8	-5	9	266	260	18	9	-7	3	186	180	16	10	-9	0	323	316	13	-1	-3	13	494	512	15	-1	-9	8	214	217	14
8	-4	0	356	355	11	9	-7	4	277	287	13	10	-9	1	321	320	13	-1	-3	9	1029	1044	22	-1	-9	7	228	221	13
8	-4	1	256	254	10	9	-7	5	178	164	19	10	-9	4	249	234	16	-1	-3	8	180	191	12	-1	-9	5	555	564	15
8	-4	2	112	93	15	9	-7	6	501	491	14	10	-9	5	338	340	16	-1	-3	7	761	780	18	-1	-9	4	324	320	11
8	-4	3	1303	1366	24	9	-6	0	1161	1214	23	10	-8	0	318	337	12	-1	-3	6	107	97	13	-1	-9	3	513	527	14
8	-4	4	198	197	15	9	-6	2	268	291	14	10	-8	1	322	340	13	-1	-3	5	572	571	14	-1	-9	1	191	216	13
8	-4	5	190	173	16	9	-6	4	292	293	13	10	-8	2	226	207	15	-1	-3	4	149	148	9	-1	-10	7	571	561	14
8	-4	6	174	154	15	9	-6	6	461	474	14	10	-8	3	516	526	13	-1	-3	3	671	642	13	-1	-10	4	171	162	15
8	-4	7	514	510	13	9	-5	0	399	404	11	10	-8	6	395	405	15	-1	-3	2	88	78	10	-1	-10	3	953	947	22
8	-3	1	927	927	20	9	-5	1	365	360	11	10	-7	0	790	780	22	-1	-3	1	806	782	14	-1	-10	1	213	216	13
8	-3	3	381	385	11	9	-5	2	190	159	13	10	-7	1	218	180	12	-1	-4	11	498	526	13	-1	-11	7	230	233	14
8	-3	4	280	268	12	9	-5	3	688	696	16	10	-7	2	534	546	14	-1	-4	9	256	261	12	-1	-11	5	299	298	13
8	-3	5	932	973	23	9	-5	4	342	346	13	10	-7	3	240	232	14	-1	-4	5	401	385	11	-1	-11	4	257	259	13
8	-3	6	370	366	13	9	-5	6	233	241	16	10	-7	4	229	245	16	-1	-4	4	243	228	8	-1	-11	3	227	222	14
8	-3	9	524	517	15	9	-5	7	283	314	18	10	-7	6	230	238	18	-1	-4	3	1775	1832	25	-1	-11	1	264	304	13
8	-2	0	856	841	19	9	-5	8	227	198	17	10	-6	1	192	203	16	-1	-4	2	769	758	14	-1	-12	6	216	215	16
8	-2	1	787	771	18	9	-4	0	341	323	11	10	-6	2	470	476	12	-1	-4	1	1864	1825	26	-1	-12	5	184	153	14
8	-2	2	121	114	14	9	-4	1	698	685	19	10	-6	6	417	412	14	-1	-5	12	168	149	18	-1	-12	3	148	117	18
8	-2	3	887	898	20	9	-4	2	191	203	14	10	-6	7	167	138	20	-1	-5	11	128	27	17	-1	-12	2	529	497	14
8	-2	4	127	140	17	9	-4	3	146	143	17	10	-5	0	604	594	15	-1	-5	10	303	299	13	-1	-12	1	268	282	13
8	-2	5	323	332	11	9	-4	4	441	438	12	10	-5	1	572	548	16	-1	-5	9	549	547	15	-1	-13	2	199	143	14
8	-2	7	393	375	14	9	-4	5	831	859	23	10	-5	3	269	261	13	-1	-5	8	516	511	14	-2	0	12	493	471	14
8	-2	8	272	283	15	9	-4	6	272	312	16	10	-5	4	410	387	12	-1	-5	7	193	193	12	-2	0	10	545	512	13
8	-2	9	260	267	17	9	-4	7	294	275	14	10	-5	5	185	219	22	-1	-5	6	262	253	10	-2	0	8	266	263	10
8	-2	10	215	178	19	9	-4	9	504	472	15	10	-5	6	481	459	15	-1	-5	5	469	498	12	-2	0	6	585	605	15
8	-1	0	1102	1131	21	9	-3	0	112	73	16	10	-5	8	242	252	19	-1	-5	4	790	811	16	-2	0	4	991	993	16
8	-1	1	561	561	14	9	-3	2	126	95	16	10	-4	0	237	216	12	-1	-5	3	199	223	9	-2	0	2	1193	1173	17
8	-1	2	611	628	14	9	-3	3	865	867	21	10	-4	1	139	129	17	-1	-5	2	144	146	9	-2	-1	13	152	136	20
8	-1	3	195	188	13	9	-3	4	192	229	17	10	-4	2	178	171	14	-1	-5	1	940	926	17	-2	-1	12	596	561	15
8	-1	4	818	822	20	9	-3	7	436	423	13	10	-4	3	1057	1024	24	-1	-6	12	268	266	15	-2	-1	11	387	414	14
8	-1	5	153	182	19	9	-2	0	1226	1219	22	10	-4	7	347	323	14	-1	-6	10	571	579	15	-2	-1	10	619	636	16
8	-1	6	622	633	17	9	-2	1	762	691	19	10	-3	1	580	561	14	-1	-6	9	235	235	12	-2	-1	9	131	99	14

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
8	-1	8	155	129	22	9	-2	2	181	163	13	10	-3	2	140	141	17	-1	-6	7	276	272	11	-2	-1	8	381	387	19
8	-1	9	319	310	16	9	-2	4	341	333	11	10	-3	3	424	448	12	-1	-6	6	1135	1156	21	-2	-1	7	616	585	16
8	-1	10	282	313	20	9	-2	5	308	299	12	10	-3	5	593	573	15	-1	-6	4	538	548	12	-2	-1	6	1108	1121	19
8	0	0	600	587	13	9	-2	6	392	375	13	10	-3	6	304	324	15	-1	-6	3	173	160	9	-2	-1	4	145	141	8
-2	-1	3	123	118	8	-2	-7	8	264	290	13	-3	-2	8	259	277	10	-3	-7	1	485	482	13	-4	-2	5	1003	1003	17
-2	-1	2	821	780	13	-2	-7	7	163	170	14	-3	-2	7	1413	1387	21	-3	-8	11	313	297	14	-4	-2	4	1023	1017	17
-2	-1	1	1154	1104	16	-2	-7	6	781	797	20	-3	-2	6	372	379	9	-3	-8	10	170	147	17	-4	-2	2	88	113	12
-2	-2	13	168	179	19	-2	-7	5	245	234	10	-3	-2	4	1146	1156	18	-3	-8	9	140	131	17	-4	-2	1	1114	1084	18
-2	-2	12	147	124	18	-2	-7	3	373	380	10	-3	-2	3	1458	1460	21	-3	-8	8	278	284	12	-4	-3	11	205	205	13
-2	-2	11	136	117	18	-2	-7	2	622	634	14	-3	-2	2	947	926	15	-3	-8	7	351	347	11	-4	-3	10	120	113	17
-2	-2	10	134	141	19	-2	-7	1	225	222	10	-3	-2	1	299	273	7	-3	-8	6	326	330	11	-4	-3	9	319	325	11
-2	-2	9	732	757	20	-2	-8	10	371	379	13	-3	-3	13	481	506	15	-3	-8	5	217	188	11	-4	-3	8	453	450	12
-2	-2	8	758	776	19	-2	-8	9	207	223	16	-3	-3	11	236	222	12	-3	-8	4	116	83	15	-4	-3	7	777	795	17
-2	-2	7	316	323	9	-2	-8	6	166	145	14	-3	-3	10	200	218	14	-3	-8	3	565	573	14	-4	-3	6	488	488	11
-2	-2	6	587	588	15	-2	-8	5	270	264	11	-3	-3	9	1084	1086	22	-3	-8	2	688	687	18	-4	-3	5	552	535	14
-2	-2	5	1395	1383	21	-2	-8	4	520	541	14	-3	-3	8	145	123	12	-3	-8	1	356	340	10	-4	-3	4	167	143	8
-2	-2	4	840	832	15	-2	-8	3	112	99	18	-3	-3	7	517	515	12	-3	-9	9	567	550	14	-4	-3	3	2203	2377	30
-2	-2	3	284	272	7	-2	-8	2	298	308	12	-3	-3	6	348	352	9	-3	-9	8	237	224	14	-4	-3	2	145	146	9
-2	-2	2	141	132	7	-2	-8	1	841	852	19	-3	-3	5	1208	1208	20	-3	-9	5	434	431	11	-4	-3	1	410	374	10
-2	-2	1	405	398	10	-2	-9	7	552	577	16	-3	-3	3	690	668	14	-3	-9	4	621	612	15	-4	-4	13	555	555	14
-2	-3	11	241	268	14	-2	-9	6	264	251	12	-3	-3	2	1011	989	16	-3	-9	3	144	119	15	-4	-4	11	436	414	12
-2	-3	9	244	239	12	-2	-9	3	859	856	20	-3	-3	1	1031	1025	17	-3	-9	2	177	151	13	-4	-4	10	287	284	12
-2	-3	8	190	180	11	-2	-9	1	709	747	19	-3	-4	11	481	487	13	-3	-9	1	461	468	12	-4	-4	9	826	792	20
-2	-3	7	925	923	19	-2	-10	9	594	582	15	-3	-4	9	429	409	12	-3	-10	7	616	623	15	-4	-4	8	160	157	13
-2	-3	3	1782	1804	25	-2	-10	8	137	92	20	-3	-4	8	110	96	17	-3	-10	5	223	210	13	-4	-4	7	240	245	10
-2	-3	2	188	175	7	-2	-10	7	365	358	12	-3	-4	7	464	463	11	-3	-10	4	184	152	14	-4	-4	6	356	358	10
-2	-3	1	750	707	13	-2	-10	5	679	679	16	-3	-4	4	373	374	10	-3	-10	3	778	773	21	-4	-4	5	757	740	16
-2	-4	13	655	673	18	-2	-10	1	130	113	16	-3	-4	3	1649	1684	24	-3	-10	2	194	178	12	-4	-4	4	840	811	16
-2	-4	12	154	114	19	-2	-11	7	327	327	13	-3	-4	2	521	498	13	-3	-10	1	149	154	16	-4	-4	3	244	248	8
-2	-4	11	196	192	16	-2	-11	6	221	196	13	-3	-4	1	797	773	15	-3	-11	5	270	263	13	-4	-4	2	121	106	10
-2	-4	10	301	302	12	-2	-11	4	280	270	13	-3	-5	12	172	180	20	-3	-11	4	443	429	12	-4	-4	1	1257	1251	20
-2	-4	9	750	763	20	-2	-11	3	580	547	14	-3	-5	11	162	134	17	-3	-11	2	284	309	13	-4	-5	13	227	212	17
-2	-4	8	260	248	11	-2	-11	2	354	391	13	-3	-5	10	427	414	12	-3	-11	1	398	391	11	-4	-5	12	241	260	16
-2	-4	7	159	168	11	-2	-11	1	305	311	11	-3	-5	9	444	460	12	-3	-12	4	186	167	14	-4	-5	11	187	202	17
-2	-4	6	102	89	13	-2	-12	6	225	218	15	-3	-5	8	242	228	11	-3	-12	3	251	250	13	-4	-5	10	363	369	11
-2	-4	5	521	503	14	-2	-12	5	148	101	16	-3	-5	7	388	401	10	-3	-12	2	307	335	12	-4	-5	8	505	511	14
-2	-4	4	146	139	9	-2	-12	4	430	437	13	-3	-5	6	999	992	19	-3	-12	1	232	227	13	-4	-5	7	587	582	13
-2	-4	3	1327	1319	20	-2	-12	3	147	188	24	-3	-5	5	622	618	16	-3	-13	2	221	222	14	-4	-5	4	461	459	11
-2	-4	2	226	218	8	-2	-12	1	325	334	12	-3	-5	4	805	788	17	-4	0	10	614	615	16	-4	-5	3	1470	1529	23
-2	-4	1	917	902	16	-2	-13	2	254	237	14	-3	-5	3	154	126	10	-4	0	6	1121	1108	19	-4	-5	2	619	590	15
-2	-5	12	195	235	20	-3	0	12	986	972	26	-3	-5	2	117	101	11	-4	0	4	1664	1715	24	-4	-5	1	129	101	11
-2	-5	11	301	285	13	-3	0	10	516	511	14	-3	-5	1	1172	1175	20	-4	0	2	870	835	14	-4	-6	11	153	138	18
-2	-5	10	215	219	14	-3	0	8	665	654	17	-3	-6	12	286	293	14	-4	-1	12	542	550	15	-4	-6	10	342	347	13
-2	-5	8	574	597	15	-3	0	6	1219	1226	20	-3	-6	10	608	596	17	-4	-1	11	415	431	13	-4	-6	8	387	415	11
-2	-5	7	660	660	18	-3	0	4	374	367	9	-3	-6	8	578	570	15	-4	-1	10	356	346	11	-4	-6	7	288	303	10
-2	-5	6	593	579	13	-3	0	2	1603	1673	22	-3	-6	7	653	660	15	-4	-1	9	434	428	12	-4	-6	6	931	910	19
-2	-5	5	410	413	10	-3	-1	13	173	125	18	-3	-6	6	1094	1065	21	-4	-1	8	513	500	13	-4	-6	5	401	404	11
-2	-5	4	226	232	8	-3	-1	10	401	394	11	-3	-6	5	414	400	10	-4	-1	7	700	684	17	-4	-6	4	668	662	17
-2	-5	3	1043	1040	18	-3	-1	9	477	478	12	-3	-6	4	428	439	10	-4	-1	6	1155	1169	19	-4	-6	3	147	161	12
-2	-5	2	450	460	11	-3	-1	8	334	333	10	-3	-6	3	109	108	14	-4	-1	5	514	489	13	-4	-6	2	886	860	18
-2	-5	1	451	446	11	-3	-1	7	388	393	10	-3	-6	2	361	361	10	-4	-1	4	646	641	13	-4	-6	1	454	458	12
-2	-6	10	145	99	16	-3	-1	6	988	984	18	-3	-6	1	245	247	10	-4	-1	3	959	973	15	-4	-7	12	512	512	15
-2	-6	8	545	564	13	-3	-1	5	277	268	7	-3	-7	10	269	275	14	-4	-1	2	715	693	13	-4	-7	10	400	401	13
-2	-6	6	1030	1020	20	-3	-1	4	1494	1509	22	-3	-7	8	171	140	13	-4	-1	1	2215	2550	30	-4	-7	8	428	454	12
-2	-6	5	468	483	13	-3	-1	3	230	223	6	-3	-7	7	181	169	13	-4	-2	13	262	263	16	-4	-7	7	258	265	11
-2	-6	4	839	816	17	-3	-1	2	1940	2024	26	-3	-7	6	797	794	19	-4	-2	10	527	533	13	-4	-7	6	622	610	14
-2	-6	2	854	830	17	-3	-1	1	1098	1055	16	-3	-7	5	401	391	11	-4	-2	9	777	782	20	-4	-7	5	380	393	10
-2	-6	1	249	250	9	-3	-2	11	257	262	13	-3	-7	4	831	791	18	-4	-2	8	592	603	14	-4	-7	4	394	375	11
-2	-7	10	614	596	17	-3	-2	10	402	392	11	-3	-7	2	706	670	17	-4	-2	6	767	775	16	-4	-7	3	534	512	13
-4	-7	2	724	734	18	-5	-2	4	685	682	14	-5	-8	8	287	285	12	-6	-2	5	619	631	15	-6	-8	10	394	392	13
-4	-7	1	475	475	11	-5	-2	3	1054	1058	17	-5	-8	7	530	543	13	-6	-2	4	917	926	17	-6	-8	9	226	204	12
-4	-8	10	351	358	13	-5	-2	2	445	424	10	-5	-8	6	302	316	12	-6	-2	3	245	242	8	-6	-8	8	158	184	18
-4	-8	6	400	396	11	-5	-2	1	417	392	10	-5	-8	4	283	287	11	-6	-2	2	559	533	14	-6	-8	7	171	196	15
-4	-8	5	348	330	11	-5	-3	13	422	417	14	-5	-8	3	809	821	20	-6	-2	1	1429	1515	22	-6	-8	6	736	738	19
-4	-8	4	587	594	14	-5	-3	12	320	293	13	-5	-8	2	132	113	15	-6	-3	13	240	214	15	-6	-8	5	313	317	11
-4	-8	2	345	326	10	-5	-3	11	301	302	12	-5	-8	1	621	597	14	-6	-3	11	330	324	12	-6	-8	4	522	529	14
-4	-8	1	516	528	14	-5	-3	10	273	268	12	-5	-9	9	540	532	14	-6	-3	10	132	155	18	-6	-8	3	255	253	11
-4	-9	9	273	244	14	-5	-3	9	801	792	19	-5	-9	8	267	274	12	-6	-3	9	252	252	11	-6	-8	1	246	258	12
-4	-9	7	521	522	14	-5	-3	8	405	409	11	-5	-9	7	159	143	16	-6	-3	8	217	237	11	-6	-9	9	409	420	11
-4	-9	6	242	245	13	-5	-3	6	580	622	15	-5	-9	6	258	255	13	-6	-3	7	639	636	17	-6	-9	7	462	470	12
-4	-9	5	206	217	15	-5	-3	5	1086	1088	19	-5	-9	5	233	243	13	-6	-3	6	521	514	12	-6	-9	6	241	226	12
-4	-9	4	412	396	12	-5	-3	4	282	257	8	-5	-9	4	532	500	14	-6	-3	5	706	700	16	-6	-9	5	300	294	11
-4	-9	3	658	656	15	-5	-3	2	860	851	16	-5	-9	2	388	376	11	-6	-3	4	339	342	9	-6	-9	4	409	412	11
-4	-9	1	481	462	13	-5	-3	1	1127	1101	19	-5	-9	1	685	676	16	-6	-3	3	1579	1620	24	-6	-9	3	693	612	15
-4	-10	9	640	603	17	-5	-4	11	256	241	14	-5	-10	9	208	204	16	-6	-3	2	314	305	8	-6	-9	1	197	216	15
-4	-10	5	578	582	16	-5	-4	9	463	477	13	-5	-10	7	428	439	12	-6	-4	13	384	345	13	-6	-10	9	386	401	14
-4	-10	1	422	409	11	-5	-4	7	870	857	19	-5	-10	5	223	231	15	-6	-4	12	127	88	20	-6	-10	5	453	439	12
-4	-11	7	302	308	14	-5	-4	6	118	94	12	-5	-10	3	839	811	20	-6	-4	11	374	368	12	-6	-10	1	764	791	17
-4	-11	6	219	235	16	-5	-4	5	156	151	9	-5	-11	6	282	291	15	-6	-4	10	259	264	12	-6	-11	7	305	287	12
-4	-11	4	369	343	12	-5	-4	4	225	233	8	-5	-11	5	350	348	13	-6	-4	9	909	914	21	-6	-11	6	176	145	16
-4	-11	3	505	471	13	-5	-4	3	1010	1074	18	-5	-11	4	495	469	13	-6	-4	7	106	57	14	-6	-11	4	337	332	13
-4	-11	2	182	186	13	-5	-4	1	165	153	10	-5	-11	3	137	154	19	-6	-4	6	691	678	17	-6	-11	3	486	482	13
-4	-11	1	200	230	15	-5	-5	13	186	188	20	-5	-11	2	308	314	12	-6	-4	5	818	807	17	-6	-11	2	168	161	17
-4	-12	6	268	248	14	-5	-5	10	652	644	16	-5	-11	1	304	320	13	-6	-4	4	462	426	11	-6	-11	1	149	127	17
-4	-12	4	387	369	12	-5	-5	9	262	256	12	-5	-12	6	175	174	18	-6	-4	3	460	451	11	-6	-12	6	499	484	14
-4	-12	2	197	207	15	-5	-5	7	238	240	11	-5	-12	4	241	226	15	-6	-4	2	192	185	9	-6	-12	4	256	244	14
-4	-12	1	283	298	13	-5	-5	6	957	926	19	-5	-12	3	205	197	14	-6	-4	1	745	721	17	-6	-12	3	227	252	16
-4	-13	3	186	178	16	-5	-5	5	760	743	17	-5	-12	2	161	174	16	-6	-5	13	277	307	17	-6	-12	2	236	264	15
-4	-13	2	208	205	14	-5	-5	4	623	618	16	-5	-13	2	209	269	16	-6	-5	12	359	381	13	-6	-12	1	191	217	17
-5	0	12	886	879	20	-5	-5	3	413	409	12	-6	0	14	319	302	17	-6	-5	11	155	132	17	-7	0	14	172	205	26
-5	0	10	425	418	11	-5	-5	2	125	118	12	-6	0	10	549	550	15	-6	-5	10	257	261	12	-7	0	12	608	619	16
-5	0	8	711	691	18	-5	-5	1	757	747	18	-6	0	8	155	159	13	-6	-5	9	156	152	14	-7	0	10	343	329	12
-5	0	6	779	786	16	-5	-6	12	423	462	14	-6	0	6	1453	1503	23	-6	-5	8	492	485	14	-7	0	8	1260	1234	22
-5	0	4	747	760	14	-5	-6	10	394	384	12	-6	0	4	515	512	13	-6	-5	7	921	939	20	-7	0	6	457	456	12
-5	0	2	741	708	13	-5	-6	9	153	185	16	-6	0	2	795	802	15	-6	-5	6	270	276	10	-7	0	4	1279	1336	20
-5	-1	14	304	302	16	-5	-6	8	580	600	15	-6	-1	12	518	505	14	-6	-5	4	345	338	9	-7	0	2	377	376	11
-5	-1	13	331	303	14	-5	-6	7	419	425	12	-6	-1	11	396	393	12	-6	-5	3	1030	1055	19	-7	-1	13	469	442	13
-5	-1	10	353	321	11	-5	-6	6	573	578	14	-6	-1	10	293	287	11	-6	-5	2	316	308	9	-7	-1	12	221	216	16
-5	-1	9	382	372	10	-5	-6	4	424	432	11	-6	-1	9	736	775	19	-6	-6	10	547	526	13	-7	-1	10	608	607	15
-5	-1	8	248	259	10	-5	-6	3	402	402	10	-6	-1	8	545	553	13	-6	-6	6	821	801	19	-7	-1	9	285	289	11
-5	-1	7	611	619	17	-5	-6	2	650	669	17	-6	-1	7	501	531	12	-6	-6	4	808	779	18	-7	-1	8	313	319	10
-5	-1	6	927	959	18	-5	-6	1	276	274	10	-6	-1	6	775	764	16	-6	-6	3	148	159	12	-7	-1	7	337	318	9
-5	-1	5	403	377	10	-5	-7	10	348	342	13	-6	-1	5	291	199	8	-6	-6	2	868	883	19	-7	-1	6	1232	1256	21
-5	-1	4	739	766	14	-5	-7	9	139	135	17	-6	-1	4	940	979	17	-6	-6	1	405	406	11	-7	-1	5	221	203	6
-5	-1	3	227	216	7	-5	-7	7	249	247	11	-6	-1	3	457	454	13	-6	-7	12	438	452	14	-7	-1	4	666	887	16
-5	-1	2	1617	1702	23	-5	-7	6	718	677	18	-6	-1	2	341	323	10	-6	-7	11	139	138	19	-7	-1	3	227	227	8
-5	-1	1	950	903	16	-5	-7	5	526	488	14	-6	-1	1	971	913	17	-6	-7	10	153	136	18	-7	-1	2	1133	1116	19
-5	-2	13	261	194	17	-5	-7	4	395	381	11	-6	-2	13	372	369	15	-6	-7	8	552	556	16	-7	-1	1	753	722	17
-5	-2	11	352	369	13	-5	-7	3	313	318	10	-6	-2	11	291	269	13	-6	-7	7	278	290	12	-7	-2	13	342	339	14

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
-5	-2	10	262	265	12	-5	-7	2	1027	1021	20	-6	-2	10	638	660	15	-6	-7	6	519	509	14	-7	-2	12	342	334	13
-5	-2	9	422	413	12	-5	-7	1	286	269	10	-6	-2	9	562	551	14	-6	-7	4	484	483	13	-7	-2	11	238	213	13
-5	-2	8	206	208	11	-5	-8	11	181	175	17	-6	-2	8	249	254	10	-6	-7	3	337	333	10	-7	-2	10	131	105	16
-5	-2	7	1118	1092	20	-5	-8	10	179	188	17	-6	-2	7	111	105	14	-6	-7	2	532	525	13	-7	-2	9	651	672	15
-5	-2	5	139	131	10	-5	-8	9	295	301	12	-6	-2	6	598	615	15	-6	-7	1	513	498	14	-7	-2	8	124	121	14
-7	-2	7	754	711	17	-7	-7	2	794	759	20	-8	-2	5	325	331	9	-8	-8	9	244	259	14	-9	-3	2	204	198	11
-7	-2	6	204	188	9	-7	-8	10	261	260	14	-8	-2	4	847	857	17	-8	-8	7	222	220	13	-9	-3	1	1174	1166	22
-7	-2	5	312	299	8	-7	-8	9	371	366	12	-8	-2	3	933	869	18	-8	-8	6	806	803	21	-9	-4	11	337	368	13
-7	-2	4	323	304	9	-7	-8	8	390	371	11	-8	-2	2	1123	1098	20	-8	-8	3	332	340	11	-9	-4	9	598	620	16
-7	-2	3	2016	2115	29	-7	-8	7	548	520	13	-8	-2	1	1657	1694	26	-8	-8	2	269	267	12	-9	-4	8	162	180	13
-7	-2	1	271	231	9	-7	-8	5	362	365	11	-8	-3	13	375	356	13	-8	-8	1	302	282	11	-9	-4	7	791	816	19
-7	-3	13	289	297	16	-7	-8	4	587	596	15	-8	-3	12	168	182	18	-8	-9	10	183	137	14	-9	-4	6	214	209	11
-7	-3	11	397	423	13	-7	-8	3	578	574	15	-8	-3	11	286	272	12	-8	-9	9	415	439	13	-9	-4	5	767	761	19
-7	-3	10	458	438	12	-7	-8	1	211	216	13	-8	-3	9	523	539	15	-8	-9	7	382	408	13	-9	-4	4	196	190	10
-7	-3	9	698	716	15	-7	-9	10	174	156	15	-8	-3	7	872	903	19	-8	-9	5	290	298	13	-9	-4	3	283	290	10
-7	-3	8	279	284	11	-7	-9	9	367	363	13	-8	-3	6	351	343	9	-8	-9	4	278	262	11	-9	-5	12	252	246	15
-7	-3	7	353	362	10	-7	-9	8	225	245	14	-8	-3	5	315	312	9	-8	-9	3	625	641	16	-9	-5	10	554	554	14
-7	-3	6	156	143	11	-7	-9	7	233	220	13	-8	-3	4	171	154	10	-8	-10	9	195	163	14	-9	-5	9	248	244	12
-7	-3	5	1308	1338	21	-7	-9	6	392	382	12	-8	-3	3	976	966	19	-8	-10	5	531	524	14	-9	-5	7	185	195	13
-7	-3	4	206	211	9	-7	-9	5	205	210	14	-8	-3	2	231	228	9	-8	-10	1	782	760	18	-9	-5	6	836	818	19
-7	-3	3	100	101	13	-7	-9	4	305	319	12	-8	-3	1	359	350	10	-8	-11	7	291	293	13	-9	-5	5	223	218	11
-7	-3	2	241	236	9	-7	-9	3	239	269	14	-8	-4	11	218	218	14	-8	-11	5	128	123	21	-9	-5	4	307	321	11
-7	-3	1	982	961	19	-7	-9	2	268	276	12	-8	-4	10	371	369	12	-8	-11	4	175	181	18	-9	-5	3	422	423	11
-7	-4	13	149	157	22	-7	-9	1	656	626	16	-8	-4	9	682	709	16	-8	-11	3	358	401	14	-9	-5	2	662	659	15
-7	-4	12	126	113	20	-7	-10	9	260	250	13	-8	-4	7	783	780	19	-8	-12	3	250	232	14	-9	-5	1	622	598	15
-7	-4	11	230	256	14	-7	-10	7	271	267	13	-8	-4	6	493	514	14	-8	-12	2	216	210	14	-9	-6	12	445	441	13
-7	-4	10	137	129	18	-7	-10	4	118	110	18	-8	-4	5	711	676	17	-8	-12	1	156	105	20	-9	-6	10	181	202	16
-7	-4	9	530	535	13	-7	-10	3	752	727	16	-8	-4	4	203	192	10	-9	0	12	309	342	15	-9	-6	9	187	200	14
-7	-4	8	126	165	17	-7	-10	1	231	203	13	-8	-4	3	700	684	17	-9	0	8	1197	1211	23	-9	-6	8	236	235	12
-7	-4	7	1133	1128	21	-7	-11	7	193	202	16	-8	-4	2	167	160	11	-9	0	6	415	420	11	-9	-6	6	228	222	12
-7	-4	5	704	711	17	-7	-11	6	296	305	13	-8	-4	1	710	714	19	-9	0	4	1015	1054	19	-9	-6	4	822	824	20
-7	-4	4	270	282	9	-7	-11	5	363	369	12	-8	-5	13	283	279	15	-9	0	2	104	114	15	-9	-6	3	721	683	19
-7	-4	3	796	810	17	-7	-11	4	237	212	13	-8	-5	12	473	474	13	-9	-1	13	362	350	15	-9	-6	2	258	244	11
-7	-4	2	247	224	9	-7	-11	2	287	275	12	-8	-5	10	209	190	13	-9	-1	12	242	253	16	-9	-6	1	181	174	14
-7	-5	13	159	161	23	-7	-11	1	389	395	13	-8	-5	9	384	374	11	-9	-1	10	682	683	16	-9	-7	10	513	517	14
-7	-5	10	724	689	16	-7	-12	4	276	250	13	-8	-5	8	263	257	11	-9	-1	7	165	189	13	-9	-7	6	759	736	19
-7	-5	9	292	293	11	-7	-12	3	145	139	19	-8	-5	7	718	719	19	-9	-1	6	922	886	18	-9	-7	4	424	435	11
-7	-5	8	162	161	13	-7	-12	1	137	129	20	-8	-5	6	170	147	12	-9	-1	5	159	147	10	-9	-7	2	271	290	12
-7	-5	6	857	872	19	-8	0	14	180	167	18	-8	-5	5	377	370	11	-9	-1	4	308	312	9	-9	-7	1	207	194	14
-7	-5	5	655	638	18	-8	0	10	657	664	16	-8	-5	4	475	473	13	-9	-1	3	413	410	10	-9	-8	10	199	184	15
-7	-5	4	553	538	13	-8	0	6	1628	1626	25	-8	-5	3	883	870	19	-9	-1	2	772	752	18	-9	-8	9	489	483	13
-7	-5	3	582	586	13	-8	0	2	493	490	12	-8	-6	12	190	201	18	-9	-1	1	197	185	12	-9	-8	8	467	474	13
-7	-5	2	506	495	13	-8	-1	13	189	185	18	-8	-6	10	391	411	12	-9	-2	13	457	450	14	-9	-8	7	396	392	12
-7	-5	1	767	757	19	-8	-1	12	413	391	13	-8	-6	7	136	173	17	-9	-2	12	414	403	13	-9	-8	6	209	221	14
-7	-6	12	533	548	14	-8	-1	11	209	213	15	-8	-6	6	620	584	14	-9	-2	9	405	414	11	-9	-8	5	390	392	11
-7	-6	10	124	96	17	-8	-1	10	116	98	19	-8	-6	5	148	106	12	-9	-2	8	161	143	13	-9	-8	4	489	482	13
-7	-6	9	167	173	15	-8	-1	9	757	741	19	-8	-6	4	672	658	18	-9	-2	7	213	222	10	-9	-8	3	356	358	11
-7	-6	8	328	350	11	-8	-1	8	639	622	18	-8	-6	3	286	253	10	-9	-2	6	119	101	13	-9	-9	9	263	259	14
-7	-6	7	184	184	12	-8	-1	7	537	548	13	-8	-6	2	1211	1236	23	-9	-2	5	486	474	12	-9	-9	7	215	237	15
-7	-6	6	262	258	11	-8	-1	6	162	152	11	-8	-6	1	452	433	11	-9	-2	4	394	394	11	-9	-9	6	350	343	12
-7	-6	4	780	777	19	-8	-1	4	1170	1190	20	-8	-7	10	152	120	17	-9	-2	3	1495	1560	24	-9	-9	5	276	262	12
-7	-6	3	629	613	17	-8	-1	3	654	634	16	-8	-7	8	720	719	20	-9	-2	2	156	168	13	-9	-9	4	213	206	13
-7	-6	2	683	666	18	-8	-1	2	458	429	12	-8	-7	7	270	260	11	-9	-2	1	337	344	10	-9	-9	3	383	400	12
-7	-6	1	281	279	11	-8	-2	13	342	363	16	-8	-7	6	313	302	11	-9	-3	13	153	129	20	-9	-9	2	206	189	14
-7	-7	10	455	434	12	-8	-2	12	197	212	18	-8	-7	5	156	141	14	-9	-3	11	452	486	13	-9	-9	1	493	488	14
-7	-7	7	296	293	12	-8	-2	11	330	337	13	-8	-7	4	684	665	19	-9	-3	10	291	307	12	-9	-10	7	259	252	14
-7	-7	6	684	655	15	-8	-2	10	338	335	12	-8	-7	3	385	391	11	-9	-3	9	412	430	11	-9	-10	4	127	130	20
-7	-7	5	138	140	16	-8	-2	9	200	171	11	-8	-7	2	347	357	12	-9	-3	7	629	634	14	-9	-10	3	646	655	17
-7	-7	4	350	336	10	-8	-2	8	281	279	10	-8	-7	1	221	211	13	-9	-3	5	783	782	18	-9	-10	1	349	335	14
-7	-7	3	436	449	12	-8	-2	6	722	769	17	-8	-8	10	438	424	12	-9	-3	3	608	589	17	-9	-11	7	187	213	20
-9	-11	6	387	393	12	11	-5	3	405	417	13	12	-5	6	267	259	18	13	0	4	290	282	15	16	-5	0	231	209	17
-9	-11	5	259	239	12	11	-5	4	232	287	19	12	-4	1	465	474	13	13	0	6	236	241	21	16	-4	1	293	324	16
-9	-11	4	196	202	17	11	-5	6	332	322	15	12	-4	2	208	217	16	14	-9	0	182	194	20	16	-3	3	443	443	15
-9	-11	3	294	298	13	11	-5	7	171	150	22	12	-4	3	609	630	15	14	-8	1	164	189	20	16	-2	0	154	134	21
-9	-11	2	212	196	15	11	-4	0	478	467	13	12	-4	7	316	304	16	14	-8	2	199	240	21	16	-2	1	386	403	15
-9	-11	1	414	434	13	11	-4	1	489	475	13	12	-3	1	441	457	13	14	-7	0	593	622	15	16	-2	2	488	492	15
-9	-12	3	221	196	15	11	-4	3	400	411	13	12	-3	2	236	224	14	14	-7	2	178	156	17	16	-2	3	211	232	21
-9	-12	1	147	130	19	11	-4	4	284	288	15	12	-3	3	614	605	17	14	-6	2	534	549	14	16	-1	0	458	464	14
-10	0	10	982	990	23	11	-4	5	477	474	13	12	-3	5	502	491	13	14	-5	0	290	315	15	16	-1	3	255	232	17
-10	0	6	1136	1147	21	11	-4	7	237	225	17	12	-3	7	197	219	23	14	-5	1	205	201	17	16	-1	4	371	388	16
-10	0	4	214	211	10	11	-3	1	278	275	12	12	-2	1	443	442	13	14	-5	3	297	285	15	16	0	0	507	518	15
-10	0	2	413	414	12	11	-3	2	230	224	13	12	-2	2	468	475	13	14	-5	4	256	294	20	16	0	2	302	298	16
-10	-1	13	249	229	16	11	-3	3	710	743	18	12	-2	3	518	518	14	14	-4	1	340	345	13	17	-6	0	475	478	14
-10	-1	12	454	421	13	11	-3	4	365	380	13	12	-2	5	294	280	15	14	-4	3	240	266	17	17	-5	0	262	274	16
-10	-1	10	127	105	19	11	-3	7	225	213	18	12	-2	6	236	252	19	14	-3	0	238	199	14	17	-4	1	127	67	22
-10	-1	9	513	537	13	11	-2	0	634	624	16	12	-2	7	357	335	16	14	-3	1	179	168	15	17	-3	1	390	414	16
-10	-1	8	632	648	15	11	-2	1	415	411	12	12	-1	0	1198	1222	24	14	-3	3	515	503	14	17	-2	0	202	234	18
-10	-1	7	570	571	14	11	-2	3	400	387	12	12	-1	1	263	238	13	14	-3	5	221	264	21	17	-1	0	252	246	17
-10	-1	6	156	160	14	11	-2	4	526	516	14	12	-1	2	325	320	12	14	-2	1	369	376	14	17	-1	2	326	328	16
-10	-1	5	510	494	13	11	-2	5	447	454	13	12	-1	3	204	191	16	14	-2	2	451	449	14	17	0	0	386	406	16
-10	-1	4	903	909	19	11	-2	6	261	286	17	12	-1	4	410	421	14	14	-2	3	396	419	16	18	-4	0	180	156	21
-10	-1	3	578	561	14	11	-2	8	156	147	26	12	-1	5	427	427	15	14	-2	5	269	275	18	18	-2	1	312	312	17
-10	-1	2	258	246	11	11	-1	1	377	370	12	12	0	2	709	692	17	14	-2	6	239	242	21	18	-1	0	351	346	17
10	-1	1	187	166	13	11	-1	2	787	795	21	12	0	6	643	647	17	14	-1	0	773	768	18	18	0	0	410	391	15
10	-1	2	518	509	13	11	-1	3	550	565	14	13	-9	1	258	257	14	14	-1	4	387	408	15	18	0	0	192	178	22
10	-1	3	362	355	12	11	-1	5	197	175	17	13	-8	0	429	455	13	14	-1	5	318	319	17	-10	-1	1	252	232	11
10	-1	4	460	478	13	11	-1	6	453	464	15	13	-8	1	221	222	16	14	0	0	437	438	15	-10	-2	13	294	212	21
10	-1	5	263	262	14	11	-1	7	336	340	16	13	-7	1	330	312	14	14	0	2	338	344	14	-10	-2	12	323	314	13
10	-1	6	258	236	15	11	-1	8	261	264	20	13	-7	2	398	415	13	14	0	6	414	403	17	-10	-2	11	412	419	12
10	0	0	459	452	13	11	0	0	1061	1058	23	13	-6	0	629	618	17	15	-8	0	300	326	15	-10	-2	10	244	233	13
10	0	2	628	620	16	11	0	2	516	524	14	13	-6	1	287	279	14	15	-7	0	174	149	18	-10	-2	8	242	244	12
10	0	4	176	153	16	11	0	4	694	684	17	13	-6	2	196	188	17	15	-7	1	229	191	15	-10	-2	6	765	778	19
10	0	6	847	842	19	11	0	6	420	395	15	13	-6	4	433	459	15	15	-7	2	267	296	17	-10	-2	5	527	516	13
10	0	8	363	361	16	12	-10	1	186	209	17	13	-6	5	155	151	24	15	-6	0	561	575	16	-10	-2	4	629	623	16
11	-11	0	200	196	15	12	-9	0	377	353	13	13	-5	1	387	380	12	15	-6	1	216	192	15	-10	-2	3	757	723	19
11	-10	1	172	177	19	12	-9	1	168	151	17	13	-5	2	276	260	13	15	-5	0	254	282	16	-10	-2	2	751	743	19
11	-9	0	164	192	20	12	-8	1	300	278	13	13	-5	3	209	201	16	15	-5	1	384	382	14	-10	-2	1	823	789	20
11	-9	2	269	290	16	12	-8	2	236	264	16	13	-5	4	175	181	20	15	-5	2	385	370	14	-10	-3	13	415	415	14
11	-9	3	193	382	14	12	-8	3	248	224	15	13	-4	1	178	156	17	15	-5	3	161	165	21	-10	-3	11	244	221	13
11	-8	0	439	437	13	12	-7	0	728	749	18	13	-4	3	377	368	13	15	-4	3	239	262	19	-10	-3	10	120	99	16
11	-8	1	313	314	13	12	-7	1	271	285	14	13	-4	5	313	324	15	15	-3	1	527	534	13	-10	-3	9	742	727	21
11	-8	2	248	252	15	12	-7	2	315	316	14	13	-3	1	490	477	12	15	-3	2	137	77	18	-10	-3	7	756	745	19
11	-8	4	346	324	15	12	-7	4	400	385	13	13	-3	3	599	604	15	15	-3	3	378	373	15	-10	-3	6	124	128	16
11	-7	1	293	301	14	12	-7	5	154	131	24	13	-3	4	248	256	17	15	-2	0	358	327	14	-10	-3	5	520	413	13
11	-7	2	499	521	13	12	-6	1	215	234	15	13	-2	0	302	289	13	15	-2	1	384	363	14	-10	-3	4	186	153	11
11	-7	5	209	207	19	12	-6	2	623	602	17	13	-2	1	369	386	13	15	-2	3	506	527	15	-10	-3	3	676	687	19
11	-7	6	440	411	15	12	-6	3	178	158	17	13	-2	3	394	397	13	15	-2	4	305	295	16	-10	-3	2	423	393	21
11	-6	0	817	853	23	12	-6	5	140	106	20	13	-2	4	444	475	15	15	-1	0	237	253	18	-10	-3	1	315	368	21
11	-6	1	301	313	13	12	-6	6	528	523	16	13	-2	5	318	353	18	15	-1	2	457	467	14	-10	-4	13	160	130	19

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
11	-6	2	178	167	16	12	-5	0	466	459	13	13	-1	2	576	602	15	15	-1	4	172	145	21	-10	-4	11	217	236	16
11	-6	3	139	107	18	12	-5	1	370	371	12	13	-1	3	283	309	16	15	-1	5	239	204	17	-10	-4	10	198	258	16
11	-6	4	391	398	14	12	-5	2	225	202	14	13	-1	6	440	426	16	15	0	0	972	941	25	-10	-4	9	484	486	13
11	-6	6	240	229	17	12	-5	3	423	413	13	13	-1	7	270	257	19	15	0	2	196	200	16	-10	-4	8	246	250	11
11	-5	1	376	375	12	12	-5	4	403	390	13	13	0	0	961	975	24	16	-7	0	482	487	14	-10	-4	7	1006	1012	21
11	-5	2	198	185	13	12	-5	5	191	182	19	13	0	2	249	218	14	16	-6	0	131	115	21	-10	-4	6	527	534	14
-10	-4	5	415	399	11	-11	-1	10	624	624	16	-11	-6	3	368	355	12	-12	-3	10	249	234	13	-13	0	2	220	229	15
-10	-4	3	535	563	14	-11	-1	9	298	310	12	-11	-6	1	176	170	16	-12	-3	9	610	647	17	-13	-1	12	347	324	14
-10	-4	2	215	214	12	-11	-1	8	317	316	11	-11	-7	11	129	87	20	-12	-3	8	237	244	13	-13	-1	11	132	102	20
-10	-4	1	616	614	15	-11	-1	6	923	909	20	-11	-7	10	501	504	13	-12	-3	7	367	354	12	-13	-1	10	388	406	13
-10	-5	12	359	370	13	-11	-1	5	185	200	13	-11	-7	6	649	655	16	-12	-3	5	484	470	12	-13	-1	9	435	441	13
-10	-5	11	146	143	19	-11	-1	4	343	334	11	-11	-7	2	426	425	12	-12	-3	4	123	66	15	-13	-1	8	400	416	13
-10	-5	9	485	496	13	-11	-1	3	734	700	20	-11	-7	1	266	289	14	-12	-3	3	498	489	13	-13	-1	7	215	222	13
-10	-5	8	288	287	11	-11	-1	2	753	737	21	-11	-8	9	450	471	13	-12	-3	2	600	589	16	-13	-1	6	568	574	16
-10	-5	7	432	440	11	-11	-1	1	214	190	14	-11	-8	8	522	523	15	-12	-3	1	500	465	13	-13	-1	5	117	66	19
-10	-5	5	260	245	10	-11	-2	13	487	510	15	-11	-8	7	227	221	14	-12	-4	11	311	319	13	-13	-1	3	495	489	14
-10	-5	4	611	618	15	-11	-2	12	297	305	14	-11	-8	5	337	332	12	-12	-4	10	187	198	17	-13	-1	2	558	559	14
-10	-5	3	615	626	15	-11	-2	11	118	68	18	-11	-8	4	379	386	13	-12	-4	8	216	209	12	-13	-1	1	199	210	15
-10	-5	2	327	322	11	-11	-2	9	479	495	13	-11	-8	3	213	253	18	-12	-4	7	874	895	22	-13	-2	12	214	215	17
-10	-6	12	283	290	15	-11	-2	8	135	130	15	-11	-8	1	142	154	19	-12	-4	6	341	326	11	-13	-2	11	167	121	17
-10	-6	10	285	308	14	-11	-2	7	564	552	15	-11	-9	7	334	349	14	-12	-4	5	294	297	12	-13	-2	9	586	588	14
-10	-6	7	150	149	15	-11	-2	5	445	437	12	-11	-9	6	155	148	21	-12	-4	1	654	653	16	-13	-2	8	262	271	13
-10	-6	6	541	508	15	-11	-2	4	555	561	14	-11	-9	5	323	319	13	-12	-4	2	297	298	13	-13	-2	7	359	347	12
-10	-6	5	139	91	13	-11	-2	3	867	841	20	-11	-9	4	186	160	16	-12	-4	1	622	617	16	-13	-2	6	127	84	16
-10	-6	4	240	234	12	-11	-2	1	574	584	15	-11	-9	3	478	494	13	-12	-5	12	178	143	17	-13	-2	5	464	454	12
-10	-6	2	1017	1046	22	-11	-3	11	432	428	12	-11	-9	2	276	255	14	-12	-5	9	528	531	14	-13	-2	4	315	328	12
-10	-6	1	254	250	13	-11	-3	9	134	123	15	-11	-9	1	295	268	14	-12	-5	8	424	429	12	-13	-2	3	289	300	13
-10	-7	9	196	242	18	-11	-3	8	115	123	19	-11	-10	7	234	243	16	-12	-5	7	115	97	19	-13	-2	1	342	328	12
-10	-7	8	456	469	12	-11	-3	7	756	766	20	-11	-10	5	235	201	14	-12	-5	5	282	281	13	-13	-3	11	343	342	13
-10	-7	6	200	220	14	-11	-3	6	388	387	11	-11	-10	3	384	400	14	-12	-5	4	533	529	13	-13	-3	9	152	138	17
-10	-7	5	225	213	13	-11	-3	5	340	344	10	-11	-10	1	311	310	14	-12	-5	3	586	603	16	-13	-3	8	188	170	15
-10	-7	4	849	876	21	-11	-3	4	229	214	12	-11	-11	4	150	112	20	-12	-5	2	478	463	12	-13	-3	7	679	693	16
-10	-7	3	329	350	12	-11	-3	3	1084	1083	22	-11	-11	3	389	378	13	-12	-5	1	224	215	13	-13	-3	6	375	372	12
-10	-7	2	122	146	20	-11	-3	2	240	239	12	-11	-11	2	252	250	17	-12	-6	10	335	332	13	-13	-3	4	335	348	12
-10	-7	1	213	197	14	-11	-3	1	1220	1272	25	-11	-11	1	299	315	15	-12	-6	6	673	669	16	-13	-3	3	842	846	22
-10	-8	10	493	492	13	-11	-4	12	237	226	14	-12	0	12	209	211	17	-12	-6	4	186	195	17	-13	-3	1	731	733	17
-10	-8	9	217	239	16	-11	-4	11	367	383	13	-12	0	10	886	871	23	-12	-6	2	408	414	12	-13	-4	12	208	204	17
-10	-8	7	188	201	15	-11	-4	10	120	111	19	-12	0	8	163	148	14	-12	-7	10	187	180	17	-13	-4	11	187	213	18
-10	-8	6	626	638	16	-11	-4	9	736	753	16	-12	0	6	704	669	19	-12	-7	9	255	265	14	-13	-4	9	552	567	14
-10	-8	5	132	154	20	-11	-4	8	123	142	19	-12	0	4	181	162	13	-12	-7	8	309	329	13	-13	-4	8	131	124	18
-10	-8	3	375	388	13	-11	-4	7	525	539	13	-12	0	2	666	668	16	-12	-7	6	414	429	13	-13	-4	7	325	316	12
-10	-8	2	233	223	13	-11	-4	5	654	659	15	-12	-1	12	330	325	14	-12	-7	4	769	757	21	-13	-4	5	379	406	13
-10	-8	1	192	179	14	-11	-4	3	401	421	11	-12	-1	10	261	263	13	-12	-7	3	265	273	15	-13	-4	4	167	151	15
-10	-9	9	363	371	13	-11	-4	2	359	345	11	-12	-1	9	226	209	13	-12	-8	10	404	406	13	-13	-4	3	300	310	13
-10	-9	7	318	330	13	-11	-4	1	183	177	15	-12	-1	8	216	227	13	-12	-8	9	216	214	15	-13	-4	1	434	458	13
-10	-9	5	386	402	13	-11	-5	12	332	333	14	-12	-1	7	370	365	11	-12	-8	6	480	479	13	-13	-5	11	274	285	13
-10	-9	3	423	415	13	-11	-5	11	222	258	16	-12	-1	6	596	562	15	-12	-8	3	253	260	16	-13	-5	10	204	219	17
-10	-9	1	318	310	13	-11	-5	10	386	398	12	-12	-1	5	820	776	20	-12	-8	2	347	331	13	-13	-5	6	626	614	16
-10	-10	7	246	217	12	-11	-5	9	123	90	17	-12	-1	4	897	899	21	-12	-8	1	184	166	17	-13	-5	4	422	416	12
-10	-10	6	125	33	19	-11	-5	7	329	320	11	-12	-1	3	180	183	15	-12	-9	7	319	302	13	-13	-5	3	417	405	12
-10	-10	5	441	430	13	-11	-5	6	864	819	21	-12	-1	1	397	360	12	-12	-9	5	452	439	13	-13	-5	2	470	481	13
-10	-10	3	436	448	13	-11	-5	3	372	383	12	-12	-2	12	378	380	14	-12	-9	3	269	275	16	-13	-5	1	540	541	14
-10	-10	1	608	631	16	-11	-5	2	711	705	16	-12	-2	11	290	308	13	-12	-9	1	289	286	15	-13	-6	10	247	268	15
-10	-11	3	230	217	15	-11	-5	1	790	758	21	-12	-2	10	250	271	14	-12	-10	7	308	316	16	-13	-6	9	291	296	14
-11	0	12	299	305	15	-11	-6	12	263	273	15	-12	-2	7	455	438	13	-12	-10	5	237	248	16	-13	-6	6	403	401	12
-11	0	10	195	212	17	-11	-6	11	138	114	19	-12	-2	6	483	489	13	-12	-10	3	494	479	13	-13	-6	4	662	694	17
-11	0	8	1029	1011	22	-11	-6	10	249	249	14	-12	-2	5	442	422	11	-12	-10	1	445	440	13	-13	-6	1	274	282	14
-11	0	6	627	644	15	-11	-6	9	224	223	14	-12	-2	3	668	679	16	-13	0	10	504	494	13	-13	-7	10	418	448	14
-11	0	4	1047	1102	21	-11	-6	8	288	288	12	-12	-2	2	613	631	16	-13	0	8	635	619	16	-13	-7	9	211	205	15
-11	0	2	115	89	17	-11	-6	5	149	144	17	-12	-2	1	547	543	15	-13	0	6	485	462	13	-13	-7	6	422	412	13
-11	-1	12	311	298	14	-11	-6	4	939	942	21	-12	-3	13	388	398	15	-13	0	4	906	896	22	-13	-7	5	119	94	20
-13	-7	2	368	356	13	-14	-5	8	438	431	13	-15	-4	5	516	506	13	-16	-4	2	227	240	18	-18	0	6	438	424	15
-13	-7	1	237	243	16	-14	-5	6	241	228	14	-15	-4	4	267	243	14	-16	-4	1	204	225	20	-18	0	4	448	445	14
-13	-8	9	349	370	14	-14	-5	5	353	341	13	-15	-4	3	185	186	19	-16	-5	10	180	202	20	-18	0	2	266	238	17
-13	-8	8	238	209	14	-14	-5	4	302	328	14	-15	-4	2	144	115	17	-16	-5	9	241	239	15	-18	-1	10	424	383	15
-13	-8	6	286	272	14	-14	-5	3	475	468	13	-15	-4	1	609	648	15	-16	-5	8	278	296	15	-18	-1	6	485	470	15
-13	-8	5	350	337	14	-14	-5	2	448	439	13	-15	-5	10	163	187	21	-16	-5	6	322	314	14	-18	-1	4	308	297	15
-13	-8	4	467	466	13	-14	-5	1	295	297	14	-15	-5	7	319	303	13	-16	-5	5	218	237	18	-18	-1	2	323	315	17
-13	-8	1	305	297	14	-14	-6	10	404	409	14	-15	-5	6	460	467	13	-16	-5	4	361	364	14	-18	-1	1	365	360	15
-13	-9	8	206	194	17	-14	-6	8	236	268	17	-15	-5	5	226	225	15	-16	-5	1	397	421	14	-18	-2	9	328	320	16
-13	-9	7	379	390	14	-14	-6	7	145	171	18	-15	-5	4	245	281	18	-16	-6	8	350	359	15	-18	-2	8	327	293	16
-13	-9	5	159	143	18	-14	-6	6	455	468	13	-15	-5	3	233	256	15	-16	-6	7	222	204	16	-18	-2	7	417	421	15
-13	-9	3	533	528	15	-14	-6	2	238	223	14	-15	-5	2	164	177	21	-16	-6	6	163	147	20	-18	-2	5	151	145	20
-13	-9	2	312	306	15	-14	-7	9	156	147	19	-15	-6	10	337	356	15	-16	-6	4	190	196	19	-18	-2	4	207	220	20
-14	0	12	446	437	14	-14	-7	8	290	274	14	-15	-6	8	274	263	14	-16	-6	2	211	254	19	-18	-2	3	328	331	17
-14	0	10	630	607	17	-14	-7	7	170	177	19	-15	-6	6	524	542	14	-16	-7	6	447	462	15	-18	-2	2	160	185	25
-14	0	6	691	649	17	-14	-7	6	452	464	13	-15	-6	5	157	132	18	-16	-7	4	383	394	15	-18	-3	9	388	409	18
-14	0	2	575	579	15	-14	-7	4	541	545	14	-15	-6	4	419	412	14	-16	-7	2	222	270	19	-18	-3	5	364	389	15
-14	-1	12	266	268	16	-14	-7	3	142	160	22	-15	-7	9	184	154	18	-16	-8	4	198	196	21	-18	-3	1	348	383	16
-14	-1	10	373	367	13	-14	-7	1	178	170	19	-15	-7	6	338	348	15	-16	-8	3	330	311	15	-18	-4	7	403	375	15
-14	-1	9	192	219	16	-14	-8	7	253	249	14	-15	-7	4	137	146	23	-16	-8	2	244	299	21	-18	-4	4	217	231	19
-14	-1	8	178	195	18	-14	-8	6	334	325	14	-15	-7	2	307	295	14	-17	0	6	582	572	15	-18	-4	3	602	607	15
-14	-1	7	174	179	17	-14	-8	3	345	323	14	-15	-8	5	342	332	15	-17	0	4	641	640	17	-18	-5	6	356	352	15
-14	-1	6	474	450	13	-14	-8	2	406	391	13	-15	-8	4	458	438	14	-17	0	2	620	605	17	-18	-5	5	228	225	17
-14	-1	5	687	676	17	-14	-9	5	398	412	15	-15	-8	2	238	238	17	-17	-1	11	206	189	20	-18	-5	4	378	356	15
-14	-1	4	678	686	17	-14	-9	1	279	300	17	-15	-8	1	298	308	16	-17	-1	10	286	237	16	-18	-5	1	271	292	17
-14	-1	1	210	203	16	-15	0	10	296	327	17	-15	-9	3	406	416	15	-17	-1	8	289	259	14	-19	0	8	162	172	26
-14	-2	12	256	254	17	-15	0	8	132	94	18	-16	0	10	233	198	17	-17	-1	7	294	278	15	-19	0	6	428	420	17
-14	-2	11	341	319	13	-15	0	6	687	692	18	-16	0	8	151	158	20	-17	-1	6	240	246	17	-19	0	4	295	289	18
-14	-2	10	225	258	18	-15	0	4	1020	1064	25	-16	0	6	593	592	15	-17	-1	4	255	279	16	-19	0	2	424	446	16
-14	-2	8	263	269	13	-15	0	2	610	619	16	-16	0	4	297	309	16	-17	-1	2	257	245	17	-19	-1	8	330	327	19
-14	-2	7	623	613	18	-15	-1	12	425	424	14	-16	0	2	469	458	14	-17	-2	10	318	321	17	-19	-1	7	237	235	19
-14	-2	6	367	372	13	-15	-1	10	337	337	15	-16	-1	10	474	463	15	-17	-2	9	447	448	15	-19	-1	6	152	119	24
-14	-2	4	210	191	14	-15	-1	9	217	217	18	-16	-1	9	264	263	16	-17	-2	7	159	200	23	-19	-1	4	372	379	16
-14	-2	3	491	484	12	-15	-1	8	327	311	13	-16	-1	8	266	259	16	-17	-2	6	256	289	16	-19	-1	3	293	274	15
-14	-2	2	348	350	13	-15	-1	7	432	432	13	-16	-1	6	351	328	14	-17	-2	5	183	206	18	-19	-1	2	163	131	20
-14	-2	1	348	358	14	-15	-1	6	371	384	15	-16	-1	5	338	346	14	-17	-2	4	190	171	16	-19	-2	7	216	224	23
-14	-3	9	634	636	17	-15	-1	3	290	321	16	-16	-1	4	431	441	14	-17	-2	1	324	325	15	-19	-2	6	258	246	19
-14	-3	8	396	383	12	-15	-1	2	536	551	15	-16	-1	2	277	269	15	-17	-3	9	270	252	16	-19	-2	4	160	152	25
-14	-3	7	236	260	15	-15	-2	12	175	159	20	-16	-1	1	304	275	14	-17	-3	7	488	495	15	-19	-2	1	318	319	17
-14	-3	5	407	388	12	-15	-2	10	186	239	20	-16	-2	11	324	335	16	-17	-3	3	566	567	16	-19	-3	7	402	384	15
-14	-3	4	166	164	18	-15	-2	9	567	580	14	-16	-2	10	174	166	19	-17	-4	9	235	249	18	-19	-3	5	262	223	20
-14	-3	3	198	217	17	-15	-2	8	302	304	14	-16	-2	9	201	202	19	-17	-4	5	511	499	14	-19	-3	3	482	500	16
-14	-3	1	472	467	13	-15	-2	6	305	296	13	-16	-2	8	354	345	15	-17	-4	2	237	226	17	-19	-3	2	156	149	24
-14	-4	11	300	311	15	-15	-2	5	442	440	12	-16	-2	7	613	582	15	-17	-4	1	428	461	15	-19	-4	5	391	405	16
-14	-4	10	153	106	15	-15	-2	4	229	253	17	-16	-2	4	193	226	20	-17	-5	8	275	274	16	-20	0	4	363	355	17
-14	-4	9	126	115	21	-15	-2	1	405	408	13	-16	-2	3	363	396	14	-17	-5	7	346	355	16	-20	-1	6	409	421	17
-14	-4	8	175	172	17	-15	-3	11	322	306	14	-16	-2	1	363	389	14	-17	-5	6	167	197	23						
-14	-4	7	581	583	14	-15	-3	9	267	255	15	-16	-3	9	466	469	14	-17	-5	4	198	205	19						

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
-14	-4	6	227	211	14	-15	-3	7	663	662	18	-16	-3	8	200	208	18	-17	-5	1	192	218	19						
-14	-4	5	157	158	19	-15	-3	6	234	226	14	-16	-3	5	397	411	14	-17	-6	6	447	474	15						
-14	-4	4	170	161	16	-15	-3	4	237	230	15	-16	-3	1	397	420	14	-17	-6	5	157	109	22						
-14	-4	3	952	988	25	-15	-3	3	789	810	19	-16	-4	8	138	117	19	-17	-6	4	170	196	23						
-14	-4	2	251	264	15	-15	-3	1	391	399	14	-16	-4	7	327	326	14	-17	-7	4	238	220	16						
-14	-4	1	506	522	13	-15	-4	9	408	406	14	-16	-4	4	198	235	19	-17	-7	2	237	246	16						
-14	-5	9	368	389	14	-15	-4	7	270	266	14	-16	-4	3	980	1028	27	-18	0	8	201	204	22						

APPENDIX 4.III

$[Te(S_2CO\text{-}3,3\text{-}Me_2Bu)_2]$

Table 4.III.1: Crystallographic Parameters for [Te($S_2COCH_2CH_2C(CH_3)_3)_2$]

Formula	$C_{14}H_{26}O_2S_4Te$
Formula weight	482.20
Crystal morphology / colour	needle / red
Crystal dimensions (mm)	0.06 x 0.16 x 0.32
Crystal system	monoclinic
Space group	$P2_1/c$ (#14)
a (Å)	16.744(6)
b (Å)	6.098(4)
c (Å)	21.334(3)
α (°)	90
β (°)	104.89(2)
γ (°)	90
V (Å^3)	2105(1)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.521
F(000)	968
Temperature (°K)	293
μ (cm^{-1})	18.11
θ limits, cell (°)	10.3 – 13.3
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 21, 0 – 7, -27 – 26
Range of transmission factors	0.917 – 1
Scan technique	ω:2θ
No. of data measured	5469
No. of unique data	5299
R_{amal}	0.135
No. of parameters	190
R (I≥0σ(I))	0.259
R_w (I≥0σ(I))	0.158
R (I≥3σ(I))	0.061
R_w (I≥3σ(I))	0.058
Maximum and minimum residual electron density (e Å^{-3})	4.70, -6.91 (located near the Te atom)

Table 4.III.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Te(S_2COCH_2CH_2C(CH_3)_3)_2]$

Atom	*x*	*y*	*z*
Te	-0.03061(6)	0.2439(2)	0.90036(3)
S(1)	0.0007(2)	0.0236(7)	0.8115(1)
S(2)	0.0900(3)	-0.0899(8)	0.9439(1)
S(3)	-0.1260(3)	0.4579(7)	0.8114(1)
S(4)	-0.1183(3)	0.5882(8)	0.9471(1)
O(1)	0.1081(6)	-0.275(2)	0.8363(3)
O(2)	-0.2136(6)	0.762(2)	0.8404(4)
C(1)	0.0688(10)	-0.127(2)	0.8615(6)
C(2)	0.1757(10)	-0.402(3)	0.8804(6)
C(3)	0.211(1)	-0.541(3)	0.8408(6)
C(4)	0.295(1)	-0.649(3)	0.8760(6)
C(5)	0.310(1)	-0.830(3)	0.8282(7)
C(6)	0.362(1)	-0.483(3)	0.8857(7)
C(7)	0.289(1)	-0.754(4)	0.9427(6)
C(8)	-0.1568(8)	0.616(3)	0.8691(5)
C(9)	-0.251(1)	0.898(3)	0.8766(6)
C(10)	-0.316(1)	1.037(3)	0.8348(5)
C(11)	-0.378(1)	1.142(3)	0.8592(8)
C(12)	-0.335(1)	1.281(4)	0.9237(6)
C(13)	-0.434(1)	0.984(4)	0.8842(8)
C(14)	-0.431(1)	1.290(4)	0.8130(6)

Table 4.III.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Te(S_2CO(CH_2CH_2C(CH_3)_3)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Te	0.0502(6)	0.0588(6)	0.0569(4)	0.009(1)	0.0148(3)	-0.0006(7)
S(1)	0.057(3)	0.071(3)	0.055(2)	0.015(3)	0.007(2)	0.001(2)
S(2)	0.083(4)	0.090(4)	0.052(2)	0.033(3)	0.013(2)	0.008(2)
S(3)	0.073(3)	0.081(4)	0.058(2)	0.028(3)	0.025(2)	0.006(2)
S(4)	0.070(4)	0.091(4)	0.059(2)	0.029(3)	0.010(2)	-0.008(2)
O(1)	0.071(8)	0.050(8)	0.060(4)	0.036(8)	0.019(5)	0.008(6)
O(2)	0.064(7)	0.084(8)	0.079(5)	0.03(1)	0.019(5)	0.010(8)
C(1)	0.06(1)	0.032(10)	0.084(9)	0.013(10)	0.027(9)	-0.006(8)
C(2)	0.07(1)	0.06(1)	0.074(8)	0.05(1)	0.021(8)	0.004(9)
C(3)	0.10(2)	0.06(1)	0.10(1)	0.02(1)	0.04(1)	0.02(1)
C(4)	0.04(1)	0.07(1)	0.076(9)	0.03(1)	0.004(9)	-0.002(9)
C(5)	0.10(2)	0.10(2)	0.12(1)	0.01(1)	-0.03(1)	0.00(1)
C(6)	0.07(1)	0.08(2)	0.14(1)	-0.01(1)	0.02(1)	0.00(1)
C(7)	0.11(2)	0.16(2)	0.085(9)	0.02(2)	-0.017(9)	0.04(1)
C(8)	0.03(1)	0.09(1)	0.047(7)	0.03(1)	0.013(7)	-0.004(8)
C(9)	0.08(1)	0.08(1)	0.068(8)	0.06(1)	0.008(9)	-0.006(9)
C(10)	0.10(2)	0.16(2)	0.046(7)	0.07(2)	0.021(8)	-0.014(10)
C(11)	0.05(1)	0.08(2)	0.11(1)	0.01(1)	0.02(1)	-0.01(1)
C(12)	0.13(2)	0.17(2)	0.094(9)	0.03(2)	0.02(1)	-0.08(1)
C(13)	0.08(2)	0.17(2)	0.18(2)	0.03(2)	0.01(1)	0.08(2)
C(14)	0.19(2)	0.24(3)	0.054(8)	0.13(2)	0.04(1)	0.03(1)

Table 4.III.4: Fractional atomic coordinates and B_{eq} values (Å^2) for the hydrogen atoms in [Te($S_2CO(CH_2CH_2C(CH_3)_3)_2$]*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.2172	-0.3031	0.9053	6.4014
H(2b)	0.1536	-0.4907	0.9098	6.4014
H(3a)	0.2205	-0.4531	0.8053	8.1774
H(3b)	0.1722	-0.6567	0.8236	8.1774
H(5a)	0.3113	-0.7628	0.7873	11.1472
H(5b)	0.3624	-0.9020	0.8469	11.1472
H(5c)	0.2658	-0.9373	0.8209	11.1472
H(6a)	0.3637	-0.4209	0.8442	9.1337
H(6b)	0.3528	-0.3681	0.9142	9.1337
H(6c)	0.4149	-0.5540	0.9051	9.1337
H(7a)	0.2448	-0.8598	0.9349	11.9927
H(7b)	0.3412	-0.8269	0.9627	11.9927
H(7c)	0.2794	-0.6396	0.9713	11.9927
H(9a)	-0.2754	0.8084	0.9041	7.4357
H(9b)	-0.2087	0.9919	0.9034	7.4357
H(10a)	-0.2870	1.1534	0.8184	9.5016
H(10b)	-0.3445	0.9451	0.7991	9.5016
H(12a)	-0.3773	1.3568	0.9390	12.5346
H(12b)	-0.3048	1.1828	0.9571	12.5346
H(12c)	-0.2972	1.3879	0.9135	12.5346
H(13a)	-0.4005	0.8929	0.9182	13.6826
H(13b)	-0.4728	1.0677	0.9013	13.6826
H(13c)	-0.4639	0.8922	0.8488	13.6826

Table 4.III.4: Cont.

Atom	x	y	z	B_{eq}
H(14a)	-0.4721	1.3527	0.8324	15.3756
H(14b)	-0.3976	1.4066	0.8018	15.3756
H(14c)	-0.4581	1.2094	0.7742	15.3756

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 4.III.5: Bond distances (Å) for $[Te(S_2COCH_2CH_2C(CH_3)_3)_2]$

Te — S(1)	2.487(4)	O(2) — C(9)	1.38(2)
Te — S(2)	2.850(4)	C(2) — C(3)	1.43(2)
Te — S(3)	2.509(4)	C(3) — C(4)	1.55(2)
Te — S(4)	2.883(4)	C(4) — C(5)	1.57(2)
S(1) — C(1)	1.63(1)	C(4) — C(6)	1.49(2)
S(2) — C(1)	1.72(1)	C(4) — C(7)	1.58(2)
S(3) — C(8)	1.74(1)	C(9) — C(10)	1.48(2)
S(4) — C(8)	1.63(1)	C(10) — C(11)	1.43(2)
O(1) — C(1)	1.31(1)	C(11) — C(12)	1.62(2)
O(1) — C(2)	1.49(1)	C(11) — C(13)	1.53(2)
O(2) — C(8)	1.33(1)	C(11) — C(14)	1.46(2)

Table 4.III.6: Bond angles (deg.) for [$Te(S_2COCH_2CH_2C(CH_3)_3)_2$]

S(1) — Te — S(2)	65.9(1)	C(3) — C(4) — C(5)	105(1)
S(1) — Te — S(3)	85.5(1)	C(3) — C(4) — C(6)	110(2)
S(1) — Te — S(4)	152.0(1)	C(3) — C(4) — C(7)	111(1)
S(2) — Te — S(3)	151.4(1)	C(5) — C(4) — C(6)	109(1)
S(2) — Te — S(4)	142.10(9)	C(5) — C(4) — C(7)	111(1)
S(3) — Te — S(4)	66.5(1)	C(6) — C(4) — C(7)	111(1)
Te — S(1) — C(1)	93.1(5)	S(3) — C(8) — S(4)	123.5(9)
Te — S(2) — C(1)	79.5(5)	S(3) — C(8) — O(2)	110.6(8)
Te — S(3) — C(8)	90.0(5)	S(4) — C(8) — O(2)	126(1)
Te — S(4) — C(8)	79.9(5)	O(2) — C(9) — C(10)	112(1)
C(1) — O(1) — C(2)	118.6(9)	C(9) — C(10) — C(11)	122(1)
C(8) — O(2) — C(9)	121(1)	C(10) — C(11) — C(12)	110(1)
S(1) — C(1) — S(2)	121.5(9)	C(10) — C(11) — C(13)	115(2)
S(1) — C(1) — O(1)	117.3(9)	C(10) — C(11) — C(14)	114(2)
S(2) — C(1) — O(1)	121(1)	C(12) — C(11) — C(13)	102(1)
O(1) — C(2) — C(3)	107(1)	C(12) — C(11) — C(14)	108(2)
C(2) — C(3) — C(4)	115(1)	C(13) — C(11) — C(14)	108(2)

Table 4.III.7: Observed and calculated structure factors for $[Te(S_2COCH_2CH_2C(CH_3)_3)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	4	3450	3570	99	0	2	17	49	110	99	0	4	22	-85	45	99	1	0	-20	396	419	99	1	1	8	1693	1579	99
0	0	6	347	360	99	0	2	18	193	185	99	0	4	23	45	31	99	1	0	-18	85	132	99	1	1	9	329	299	99
0	0	8	950	980	99	0	2	19	-128	12	99	0	5	1	84	72	99	1	0	-16	136	135	99	1	1	10	494	482	99
0	0	10	671	728	99	0	2	20	232	245	99	0	5	2	570	544	99	1	0	-14	666	779	99	1	1	11	-80	7	99
0	0	12	47	71	99	0	2	21	100	7	99	0	5	3	-55	32	99	1	0	-12	400	411	99	1	1	12	1335	1285	99
0	0	14	897	888	99	0	2	22	-112	19	99	0	5	4	-78	127	99	1	0	-10	681	742	99	1	1	13	253	257	99
0	0	16	-118	98	99	0	2	23	-73	4	99	0	5	5	-201	31	99	1	0	-8	907	894	99	1	1	14	486	439	99
0	0	18	242	268	99	0	2	24	88	60	99	0	5	6	232	178	99	1	0	-6	867	825	99	1	1	15	157	154	99
0	0	20	582	502	99	0	2	25	44	28	99	0	5	7	-60	83	99	1	0	-4	1554	1393	99	1	1	16	332	324	99
0	0	22	302	213	99	0	3	1	38	124	99	0	5	8	535	487	99	1	0	4	916	993	99	1	1	17	-205	100	99
0	0	24	309	268	99	0	3	2	1234	1209	99	0	5	9	-29	81	99	1	0	6	793	890	99	1	1	18	497	468	99
0	0	26	90	138	99	0	3	3	139	44	99	0	5	10	-139	98	99	1	0	8	347	373	99	1	1	19	141	89	99
0	1	1	66	4	99	0	3	4	1775	1699	99	0	5	11	113	90	99	1	0	10	952	1014	99	1	1	20	90	24	99
0	1	2	1405	1508	99	0	3	5	156	162	99	0	5	12	428	435	99	1	0	12	230	209	99	1	1	21	28	81	99
0	1	3	-99	117	99	0	3	6	486	457	99	0	5	13	-17	87	99	1	0	14	740	733	99	1	1	22	124	221	99
0	1	4	555	608	99	0	3	7	121	57	99	0	5	14	-136	109	99	1	0	16	180	96	99	1	1	23	-38	95	99
0	1	5	78	61	99	0	3	8	859	888	99	0	5	15	-65	33	99	1	0	18	152	229	99	1	1	24	-120	22	99
0	1	6	533	504	99	0	3	9	-119	37	99	0	5	16	71	69	99	1	0	20	707	622	99	1	1	25	-33	34	99
0	1	7	-103	2	99	0	3	10	-187	248	99	0	5	17	106	11	99	1	0	22	169	130	99	1	1	26	47	106	99
0	1	8	1655	1621	99	0	3	11	-209	35	99	0	5	18	106	111	99	1	0	24	359	286	99	1	2	-26	76	173	99
0	1	9	92	111	99	0	3	12	168	202	99	0	5	19	-134	13	99	1	0	26	16	122	99	1	2	-25	-150	61	99
0	1	10	109	169	99	0	3	13	98	70	99	0	5	20	59	63	99	1	1	-26	-68	96	99	1	2	-24	-46	32	99
0	1	11	60	40	99	0	3	14	129	25	99	0	6	0	399	424	99	1	1	-25	78	43	99	1	2	-23	-92	29	99
0	1	12	1325	1264	99	0	3	15	108	44	99	0	6	1	-96	72	99	1	1	-24	105	143	99	1	2	-22	147	14	99
0	1	13	-35	100	99	0	3	16	276	334	99	0	6	2	107	204	99	1	1	-23	97	188	99	1	2	-21	-220	78	99
0	1	14	547	498	99	0	3	17	-100	48	99	0	6	3	79	92	99	1	1	-22	68	216	99	1	2	-20	243	302	99
0	1	15	-166	11	99	0	3	18	260	317	99	0	6	4	242	252	99	1	1	-21	-124	32	99	1	2	-19	127	142	99
0	1	16	207	198	99	0	3	19	116	56	99	0	6	5	-135	18	99	1	1	-20	73	166	99	1	2	-18	-68	120	99
0	1	17	117	2	99	0	3	20	-127	83	99	0	6	6	304	295	99	1	1	-19	-92	50	99	1	2	-17	78	132	99
0	1	18	378	378	99	0	3	21	30	24	99	0	6	7	143	66	99	1	1	-18	352	438	99	1	2	-16	729	794	99
0	1	19	56	33	99	0	3	22	147	234	99	0	6	8	107	34	99	1	1	-17	-135	78	99	1	2	-15	-213	102	99
0	1	20	169	160	99	0	3	23	-140	21	99	0	6	9	-354	28	99	1	1	-16	179	152	99	1	2	-14	173	191	99
0	1	21	123	3	99	0	3	24	116	178	99	0	6	10	36	133	99	1	1	-15	227	299	99	1	2	-13	-121	78	99
0	1	22	227	240	99	0	4	0	837	861	99	0	6	11	47	25	99	1	1	-14	611	707	99	1	2	-12	442	466	99
0	1	23	26	42	99	0	4	1	155	164	99	0	6	12	7	41	99	1	1	-13	-126	162	99	1	2	-11	487	518	99
0	1	24	107	81	99	0	4	2	81	93	99	0	6	13	-121	43	99	1	1	-12	971	1030	99	1	2	-10	843	856	99
0	1	25	-163	28	99	0	4	3	164	51	99	0	6	14	-124	119	99	1	1	-11	201	257	99	1	2	-9	114	187	99
0	1	26	90	130	99	0	4	4	581	555	99	0	6	15	-32	2	99	1	1	-10	276	326	99	1	2	-8	874	817	99
0	2	0	648	676	99	0	4	5	-94	59	99	0	6	16	88	112	99	1	1	-9	274	320	99	1	2	-7	151	122	99
0	2	1	-74	31	99	0	4	6	314	297	99	0	6	17	45	30	99	1	1	-8	1493	1566	99	1	2	-6	1577	1590	99
0	2	2	668	669	99	0	4	7	-226	24	99	0	7	1	-65	16	99	1	1	-7	924	929	99	1	2	-5	223	182	99
0	2	3	-55	78	99	0	4	8	177	47	99	0	7	2	-47	56	99	1	1	-6	715	663	99	1	2	-4	1065	1093	99
0	2	4	1071	1074	99	0	4	9	95	102	99	0	7	3	18	43	99	1	1	-5	855	776	99	1	2	-3	279	254	99
0	2	5	-51	20	99	0	4	10	747	785	99	0	7	4	-53	180	99	1	1	-4	976	925	99	1	2	-2	793	827	99
0	2	6	1109	1145	99	0	4	11	-149	24	99	0	7	5	-45	90	99	1	1	-3	239	237	99	1	2	-1	230	257	99
0	2	7	-90	19	99	0	4	12	312	366	99	0	7	6	-135	134	99	1	1	-2	579	604	99	1	2	0	729	738	99
0	2	8	666	716	99	0	4	13	-126	76	99	0	7	7	-273	26	99	1	1	-1	77	145	99	1	2	1	312	287	99
0	2	9	-91	34	99	0	4	14	411	453	99	0	7	8	92	200	99	1	1	0	66	78	99	1	2	2	494	473	99
0	2	10	607	666	99	0	4	15	135	7	99	0	7	9	-78	59	99	1	1	1	60	162	99	1	2	3	401	439	99
0	2	11	85	9	99	0	4	16	265	316	99	0	7	10	122	34	99	1	1	2	605	632	99	1	2	4	1633	1687	99
0	2	12	536	558	99	0	4	17	-40	35	99	0	7	11	-121	18	99	1	1	3	144	96	99	1	2	5	152	122	99
0	2	13	73	100	99	0	4	18	103	2	99	0	7	12	89	115	99	1	1	4	607	614	99	1	2	6	721	759	99
0	2	14	259	285	99	0	4	19	-89	11	99	1	0	-26	111	159	99	1	1	5	845	830	99	1	2	7	-86	159	99
0	2	15	-56	9	99	0	4	20	140	197	99	1	0	-24	205	251	99	1	1	6	1319	1298	99	1	2	8	1163	1231	99
0	2	16	742	764	99	0	4	21	85	43	99	1	0	-22	309	286	99	1	1	7	438	427	99	1	2	9	293	318	99
1	2	10	644	686	99	1	3	14	40	121	99	1	4	21	72	35	99	1	6	-6	306	331	99	2	0	-14	765	824	99
1	2	11	305	235	99	1	3	15	-126	8	99	1	4	22	49	43	99	1	6	-5	170	11	99	2	0	-12	854	861	99
1	2	12	391	406	99	1	3	16	386	418	99	1	5	-21	-97	87	99	1	6	-4	291	246	99	2	0	-10	1595	1509	99
1	2	13	149	150	99	1	3	17	101	51	99	1	5	-20	-202	80	99	1	6	-3	-73	18	99	2	0	-8	838	805	99
1	2	14	548	551	99	1	3	18	140	328	99	1	5	-19	-85	22	99	1	6	-2	156	274	99	2	0	-6	1158	1197	99
1	2	15	-116	23	99	1	3	19	-168	66	99	1	5	-18	123	120	99	1	6	-1	-58	120	99	2	0	-4	301	301	99
1	2	16	699	742	99	1	3	20	-144	95	99	1	5	-17	210	75	99	1	6	0	403	415	99	2	0	2	63	118	99
1	2	17	70	32	99	1	3	21	-81	8	99	1	5	-16	143	99	99	1	6	1	72	66	99	2	0	4	853	863	99
1	2	18	318	336	99	1	3	22	61	219	99	1	5	-15	-160	38	99	1	6	2	152	100	99	2	0	6	1119	1171	99
1	2	19	145	99	99	1	3	23	48	9	99	1	5	-14	-218	181	99	1	6	3	126	138	99	2	0	8	367	399	99
1	2	20	189	210	99	1	3	24	67	174	99	1	5	-13	-208	132	99	1	6	4	207	310	99	2	0	10	1218	1209	99
1	2	21	89	3	99	1	4	-23	-136	39	99	1	5	-12	440	408	99	1	6	5	133	81	99	2	0	12	395	395	99
1	2	22	150	49	99	1	4	-22	-133	108	99	1	5	-11	64	26	99	1	6	6	-187	244	99	2	0	14	560	548	99
1	2	23	-230	18	99	1	4	-21	131	9	99	1	5	-10	164	183	99	1	6	7	189	34	99	2	0	16	151	111	99
1	2	24	-179	43	99	1	4	-20	-112	182	99	1	5	-9	49	123	99	1	6	8	-208	118	99	2	0	18	64	116	99
1	2	25	-71	27	99	1	4	-19	120	72	99	1	5	-8	419	418	99	1	6	9	158	2	99	2	0	20	620	546	99
1	3	-25	-36	30	99	1	4	-18	-30	42	99	1	5	-7	106	13	99	1	6	10	119	139	99	2	0	22	166	39	99
1	3	-24	137	160	99	1	4	-17	-181	22	99	1	5	-6	-29	209	99	1	6	11	186	6	99	2	0	24	278	309	99
1	3	-23	156	30	99	1	4	-16	380	313	99	1	5	-5	172	10	99	1	6	12	-172	7	99	2	0	26	-72	57	99
1	3	-22	209	207	99	1	4	-15	-216	31	99	1	5	-4	313	196	99	1	6	13	-137	45	99	2	1	-27	-83	7	99
1	3	-21	-88	6	99	1	4	-14	146	388	99	1	5	-3	167	62	99	1	6	14	145	128	99	2	1	-26	-108	38	99
1	3	-20	-306	55	99	1	4	-13	139	212	99	1	5	-2	673	643	99	1	6	15	-222	32	99	2	1	-25	22	68	99
1	3	-19	125	17	99	1	4	-12	442	405	99	1	5	-1	-63	155	99	1	6	16	64	109	99	2	1	-24	178	178	99
1	3	-18	475	420	99	1	4	-11	216	104	99	1	5	0	158	164	99	1	6	17	-49	23	99	2	1	-23	172	203	99
1	3	-17	129	14	99	1	4	-10	766	700	99	1	5	1	112	21	99	1	7	-12	59	100	99	2	1	-22	183	245	99
1	3	-16	223	245	99	1	4	-9	347	346	99	1	5	2	615	604	99	1	7	-11	-213	19	99	2	1	-21	53	56	99
1	3	-15	140	157	99	1	4	-8	-216	50	99	1	5	3	130	170	99	1	7	-10	-272	18	99	2	1	-20	121	213	99
1	3	-14	151	227	99	1	4	-7	181	110	99	1	5	4	-138	32	99	1	7	-9	-164	42	99	2	1	-19	-166	59	99
1	3	-13	106	66	99	1	4	-6	434	341	99	1	5	5	-243	124	99	1	7	-8	-106	207	99	2	1	-18	514	563	99
1	3	-12	263	265	99	1	4	-5	-101	0	99	1	5	6	343	314	99	1	7	-7	70	44	99	2	1	-17	-151	17	99
1	3	-11	108	132	99	1	4	-4	561	586	99	1	5	7	268	122	99	1	7	-6	131	116	99	2	1	-16	90	123	99
1	3	-10	-90	83	99	1	4	-3	233	253	99	1	5	8	439	445	99	1	7	-5	78	109	99	2	1	-15	522	572	99
1	3	-9	-54	87	99	1	4	-2	229	102	99	1	5	9	-270	79	99	1	7	-4	133	194	99	2	1	-14	751	814	99
1	3	-8	936	927	99	1	4	-1	91	198	99	1	5	10	149	108	99	1	7	-3	-157	33	99	2	1	-13	122	153	99
1	3	-7	99	10	99	1	4	0	825	827	99	1	5	11	214	158	99	1	7	-2	116	79	99	2	1	-12	855	904	99
1	3	-6	327	310	99	1	4	1	188	3	99	1	5	12	363	400	99	1	7	-1	-173	23	99	2	1	-11	125	196	99
1	3	-5	289	284	99	1	4	2	-128	237	99	1	5	13	145	38	99	1	7	0	129	35	99	2	1	-10	419	414	99
1	3	-4	1539	1496	99	1	4	3	-290	8	99	1	5	14	-131	29	99	1	7	1	-100	6	99	2	1	-9	32	7	99
1	3	-3	123	40	99	1	4	4	586	587	99	1	5	15	172	10	99	1	7	2	129	111	99	2	1	-8	1642	1433	99
1	3	-2	970	922	99	1	4	5	166	1	99	1	5	16	-111	56	99	1	7	3	-135	41	99	2	1	-7	832	729	99
1	3	-1	88	112	99	1	4	6	127	241	99	1	5	17	-108	29	99	1	7	4	-133	107	99	2	1	-6	805	766	99
1	3	0	214	102	99	1	4	7	-280	14	99	1	5	18	-82	120	99	1	7	5	163	32	99	2	1	-5	164	205	99
1	3	1	72	24	99	1	4	8	146	194	99	1	5	19	78	1	99	1	7	6	170	161	99	2	1	-4	1063	1047	99
1	3	2	1309	1283	99	1	4	9	174	145	99	1	5	20	39	53	99	1	7	7	61	12	99	2	1	-3	1409	1359	99
1	3	3	246	144	99	1	4	10	819	783	99	1	6	-17	72	12	99	1	7	8	151	146	99	2	1	-2	1365	1350	99
1	3	4	1257	1125	99	1	4	11	68	87	99	1	6	-16	160	142	99	1	7	9	87	38	99	2	1	-1	452	440	99
1	3	5	53	215	99	1	4	12	129	124	99	1	6	-15	180	55	99	1	7	10	65	32	99	2	1	0	813	788	99
1	3	6	810	748	99	1	4	13	-150	29	99	1	6	-14	148	126	99	1	7	11	123	26	99	2	1	1	1579	1629	99
1	3	7	128	42	99	1	4	14	368	455	99	1	6	-13	-219	35	99	1	7	12	-122	125	99	2	1	2	1419	1454	99
1	3	8	545	569	99	1	4	15	113	55	99	1	6	-12	172	81	99	2	0	-26	178	161	99	2	1	3	265	251	99
1	3	9	-170	127	99	1	4	16	-28	232	99	1	6	-11	-76	11	99	2	0	-24	204	225	99	2	1	4	50	62	99
1	3	10	149	208	99	1	4	17	-78	80	99	1	6	-10	146	175	99	2	0	-22	400	375	99	2	1	5	497	381	99
1	3	11	-158	108	99	1	4	18	-156	9	99	1	6	-9	173	66	99	2	0	-20	315	312	99	2	1	6	1398	1268	99
1	3	12	271	276	99	1	4	19	58	86	99	1	6	-8	-116	31	99	2	0	-18	117	142	99	2	1	7	401	381	99
1	3	13	43	38	99	1	4	20	164	174	99	1	6	-7	76	34	99	2	0	-16	425	434	99	2	1	8	1196	1070	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	1	9	-113	48	99	2	2	12	193	170	99	2	3	16	443	476	99	2	5	-21	44	73	99	2	6	-5	35	49	99
2	1	10	503	448	99	2	2	13	102	144	99	2	3	17	-166	15	99	2	5	-20	-36	110	99	2	6	-4	-47	139	99
2	1	11	-120	41	99	2	2	14	643	601	99	2	3	18	247	238	99	2	5	-19	-124	20	99	2	6	-3	94	17	99
2	1	12	1156	1044	99	2	2	15	-91	69	99	2	3	19	37	80	99	2	5	-18	282	142	99	2	6	-2	177	237	99
2	1	13	657	586	99	2	2	16	411	394	99	2	3	20	-142	124	99	2	5	-17	-212	65	99	2	6	-1	115	152	99
2	1	14	256	195	99	2	2	17	155	136	99	2	3	21	-79	15	99	2	5	-16	124	72	99	2	6	0	200	260	99
2	1	15	259	243	99	2	2	18	299	331	99	2	3	22	117	201	99	2	5	-15	159	58	99	2	6	1	-250	113	99
2	1	16	446	405	99	2	2	19	120	95	99	2	3	23	75	15	99	2	5	-14	328	235	99	2	6	2	73	74	99
2	1	17	-96	93	99	2	2	20	180	161	99	2	3	24	-23	99	99	2	5	-13	146	144	99	2	6	3	167	127	99
2	1	18	372	296	99	2	2	21	124	43	99	2	4	-23	73	20	99	2	5	-12	349	301	99	2	6	4	276	302	99
2	1	19	-149	75	99	2	2	22	46	13	99	2	4	-22	150	170	99	2	5	-11	-91	12	99	2	6	5	250	151	99
2	1	20	-218	63	99	2	2	23	45	19	99	2	4	-21	-128	14	99	2	5	-10	247	224	99	2	6	6	114	224	99
2	1	21	125	179	99	2	2	24	-90	112	99	2	4	-20	94	124	99	2	5	-9	66	91	99	2	6	7	-158	9	99
2	1	22	123	204	99	2	2	25	66	75	99	2	4	-19	84	128	99	2	5	-8	364	349	99	2	6	8	268	190	99
2	1	23	128	91	99	2	3	-25	9	26	99	2	4	-18	-244	76	99	2	5	-7	-178	20	99	2	6	9	-211	23	99
2	1	24	-95	20	99	2	3	-24	40	98	99	2	4	-17	169	13	99	2	5	-6	-137	162	99	2	6	10	250	166	99
2	1	25	-44	2	99	2	3	-23	-169	44	99	2	4	-16	-57	223	99	2	5	-5	-117	79	99	2	6	11	-247	9	99
2	2	-26	-35	145	99	2	3	-22	110	174	99	2	4	-15	139	53	99	2	5	-4	415	334	99	2	6	12	-225	4	99
2	2	-25	101	51	99	2	3	-21	154	47	99	2	4	-14	397	388	99	2	5	-3	-174	128	99	2	6	13	-151	51	99
2	2	-24	-228	27	99	2	3	-20	-178	72	99	2	4	-13	91	86	99	2	5	-2	564	588	99	2	6	14	81	136	99
2	2	-23	134	32	99	2	3	-19	24	35	99	2	4	-12	335	324	99	2	5	-1	-135	182	99	2	6	15	58	46	99
2	2	-22	124	106	99	2	3	-18	471	515	99	2	4	-11	374	312	99	2	5	0	314	276	99	2	6	16	-24	109	99
2	2	-21	-90	90	99	2	3	-17	-125	75	99	2	4	-10	801	782	99	2	5	1	142	74	99	2	7	-13	107	34	99
2	2	-20	358	394	99	2	3	-16	-116	5	99	2	4	-9	83	192	99	2	5	2	558	550	99	2	7	-12	-53	87	99
2	2	-19	240	213	99	2	3	-15	201	139	99	2	4	-8	161	95	99	2	5	3	240	258	99	2	7	-11	59	41	99
2	2	-18	124	60	99	2	3	-14	575	575	99	2	4	-7	131	168	99	2	5	4	-54	52	99	2	7	-10	-163	9	99
2	2	-17	-21	138	99	2	3	-13	339	339	99	2	4	-6	648	642	99	2	5	5	213	120	99	2	7	-9	192	39	99
2	2	-16	692	721	99	2	3	-12	335	320	99	2	4	-5	143	4	99	2	5	6	344	307	99	2	7	-8	31	200	99
2	2	-15	77	87	99	2	3	-11	-253	53	99	2	4	-4	444	484	99	2	5	7	111	135	99	2	7	-7	149	95	99
2	2	-14	45	168	99	2	3	-10	141	212	99	2	4	-3	410	421	99	2	5	8	444	402	99	2	7	-6	-21	91	99
2	2	-13	119	101	99	2	3	-9	141	81	99	2	4	-2	410	432	99	2	5	9	-148	74	99	2	7	-5	-171	128	99
2	2	-12	368	380	99	2	3	-8	891	817	99	2	4	-1	-239	123	99	2	5	10	-185	146	99	2	7	-4	156	201	99
2	2	-11	477	512	99	2	3	-7	312	206	99	2	4	0	831	823	99	2	5	11	303	211	99	2	7	-3	-218	64	99
2	2	-10	998	1000	99	2	3	-6	234	222	99	2	4	1	187	157	99	2	5	12	308	357	99	2	7	-2	136	139	99
2	2	-9	312	286	99	2	3	-5	486	503	99	2	4	2	195	277	99	2	5	13	-364	4	99	2	7	-1	189	67	99
2	2	-8	320	289	99	2	3	-4	965	929	99	2	4	3	56	20	99	2	5	14	-154	14	99	2	7	0	-141	78	99
2	2	-7	254	214	99	2	3	-3	188	191	99	2	4	4	759	698	99	2	5	15	173	6	99	2	7	1	-187	31	99
2	2	-6	1527	1543	99	2	3	-2	846	812	99	2	4	5	83	131	99	2	5	16	108	128	99	2	7	2	-242	208	99
2	2	-5	211	210	99	2	3	-1	315	275	99	2	4	6	298	292	99	2	5	17	115	17	99	2	7	3	-247	6	99
2	2	-4	470	449	99	2	3	0	321	339	99	2	4	7	190	174	99	2	5	18	67	130	99	2	7	4	-201	26	99
2	2	-3	405	413	99	2	3	1	165	277	99	2	4	8	454	413	99	2	5	19	-147	11	99	2	7	5	-75	33	99
2	2	-2	662	699	99	2	3	2	1310	1236	99	2	4	9	323	268	99	2	5	20	-53	25	99	2	7	6	-60	202	99
2	2	-1	595	622	99	2	3	3	307	299	99	2	4	10	663	703	99	2	6	-18	107	12	99	2	7	7	-184	23	99
2	2	0	778	798	99	2	3	4	287	247	99	2	4	11	283	280	99	2	6	-17	124	20	99	2	7	8	76	82	99
2	2	1	743	719	99	2	3	5	329	290	99	2	4	12	115	120	99	2	6	-16	160	168	99	2	7	9	69	11	99
2	2	2	279	264	99	2	3	6	733	728	99	2	4	13	99	57	99	2	6	-15	-264	43	99	2	7	10	34	48	99
2	2	3	308	357	99	2	3	7	-151	94	99	2	4	14	342	406	99	2	6	-14	91	79	99	2	7	11	-15	19	99
2	2	4	1499	1548	99	2	3	8	353	405	99	2	4	15	9	21	99	2	6	-13	-192	36	99	3	0	-26	124	181	99
2	2	5	360	348	99	2	3	9	427	439	99	2	4	16	148	97	99	2	6	-12	122	140	99	3	0	-24	-23	84	99
2	2	6	522	541	99	2	3	10	-76	26	99	2	4	17	38	149	99	2	6	-11	-99	12	99	3	0	-22	261	290	99
2	2	7	484	457	99	2	3	11	260	187	99	2	4	18	85	50	99	2	6	-10	-50	208	99	3	0	-20	103	81	99
2	2	8	959	978	99	2	3	12	520	520	99	2	4	19	83	111	99	2	6	-9	-196	142	99	3	0	-18	272	202	99
2	2	9	466	461	99	2	3	13	32	127	99	2	4	20	4	168	99	2	6	-8	-112	2	99	3	0	-16	699	656	99
2	2	10	632	609	99	2	3	14	240	197	99	2	4	21	-98	29	99	2	6	-7	86	10	99	3	0	-14	546	530	99
2	2	11	-27	157	99	2	3	15	87	19	99	2	4	22	65	6	99	2	6	-6	382	329	99	3	0	-12	1334	1307	99
3	0	-10	1229	1249	99	3	1	10	280	275	99	3	2	13	237	200	99	3	3	18	113	181	99	3	5	-17	106	79	99
3	0	-8	625	683	99	3	1	11	110	98	99	3	2	14	475	411	99	3	3	19	14	131	99	3	5	-16	-83	43	99
3	0	-6	1106	1121	99	3	1	12	742	689	99	3	2	15	-177	125	99	3	3	20	72	125	99	3	5	-15	138	114	99
3	0	-4	885	915	99	3	1	13	646	586	99	3	2	16	136	158	99	3	3	21	97	49	99	3	5	-14	302	295	99
3	0	-2	1513	1524	99	3	1	14	76	21	99	3	2	17	125	138	99	3	3	22	60	143	99	3	5	-13	127	91	99
3	0	0	1642	1669	99	3	1	15	188	196	99	3	2	18	295	298	99	3	3	23	76	8	99	3	5	-12	-53	126	99
3	0	2	903	804	99	3	1	16	505	482	99	3	2	19	-224	99	99	3	4	-23	-66	29	99	3	5	-11	173	112	99
3	0	4	1418	1346	99	3	1	17	-119	129	99	3	2	20	205	221	99	3	4	-22	-198	172	99	3	5	-10	251	271	99
3	0	6	906	893	99	3	1	18	201	204	99	3	2	21	-142	66	99	3	4	-21	87	23	99	3	5	-9	96	2	99
3	0	8	941	1010	99	3	1	19	98	75	99	3	2	22	62	37	99	3	4	-20	169	142	99	3	5	-8	261	274	99
3	0	10	1080	1146	99	3	1	20	199	198	99	3	2	23	-32	19	99	3	4	-19	-179	80	99	3	5	-7	-262	64	99
3	0	12	350	337	99	3	1	21	114	178	99	3	2	24	52	156	99	3	4	-18	149	51	99	3	5	-6	94	18	99
3	0	14	511	522	99	3	1	22	196	193	99	3	3	-25	-88	39	99	3	4	-17	-217	31	99	3	5	-5	194	172	99
3	0	16	-29	235	99	3	1	23	76	69	99	3	3	-24	56	67	99	3	4	-16	292	205	99	3	5	-4	491	509	99
3	0	18	125	166	99	3	1	24	-67	19	99	3	3	-23	-105	46	99	3	4	-15	126	102	99	3	5	-3	128	167	99
3	0	20	391	353	99	3	1	25	-72	11	99	3	3	-22	196	142	99	3	4	-14	277	254	99	3	5	-2	413	413	99
3	0	22	79	91	99	3	2	-26	116	169	99	3	3	-21	-157	57	99	3	4	-13	-93	39	99	3	5	-1	-142	161	99
3	0	24	208	194	99	3	2	-25	117	6	99	3	3	-20	176	165	99	3	4	-12	414	345	99	3	5	0	425	370	99
3	1	-27	97	11	99	3	2	-24	42	34	99	3	3	-19	-84	45	99	3	4	-11	331	261	99	3	5	1	163	148	99
3	1	-26	46	29	99	3	2	-23	75	33	99	3	3	-18	449	431	99	3	4	-10	624	550	99	3	5	2	474	474	99
3	1	-25	123	48	99	3	2	-22	281	234	99	3	3	-17	-136	54	99	3	4	-9	-219	38	99	3	5	3	321	343	99
3	1	-24	214	257	99	3	2	-21	127	57	99	3	3	-16	136	186	99	3	4	-8	411	336	99	3	5	4	-121	85	99
3	1	-23	132	164	99	3	2	-20	297	327	99	3	3	-15	-190	41	99	3	4	-7	149	252	99	3	5	5	157	9	99
3	1	-22	154	176	99	3	2	-19	228	230	99	3	3	-14	742	748	99	3	4	-6	683	719	99	3	5	6	152	286	99
3	1	-21	-167	88	99	3	2	-18	140	85	99	3	3	-13	352	307	99	3	4	-5	159	114	99	3	5	7	-173	47	99
3	1	-20	175	176	99	3	2	-17	252	109	99	3	3	-12	345	325	99	3	4	-4	115	206	99	3	5	8	402	317	99
3	1	-19	-196	137	99	3	2	-16	462	487	99	3	3	-11	241	248	99	3	4	-3	390	415	99	3	5	9	-143	9	99
3	1	-18	500	510	99	3	2	-15	43	118	99	3	3	-10	542	521	99	3	4	-2	619	637	99	3	5	10	176	149	99
3	1	-17	103	85	99	3	2	-14	268	236	99	3	3	-9	66	4	99	3	4	-1	-30	63	99	3	5	11	93	175	99
3	1	-16	-167	132	99	3	2	-13	346	250	99	3	3	-8	805	815	99	3	4	0	744	737	99	3	5	12	324	290	99
3	1	-15	525	507	99	3	2	-12	447	421	99	3	3	-7	302	320	99	3	4	1	45	217	99	3	5	13	154	25	99
3	1	-14	740	715	99	3	2	-11	413	397	99	3	3	-6	116	117	99	3	4	2	104	185	99	3	5	14	-154	21	99
3	1	-13	106	14	99	3	2	-10	895	884	99	3	3	-5	520	527	99	3	4	3	123	35	99	3	5	15	22	28	99
3	1	-12	312	307	99	3	2	-9	184	74	99	3	3	-4	770	726	99	3	4	4	746	680	99	3	5	16	96	202	99
3	1	-11	551	455	99	3	2	-8	541	545	99	3	3	-3	90	59	99	3	4	5	75	132	99	3	5	17	-58	40	99
3	1	-10	555	502	99	3	2	-7	564	585	99	3	3	-2	650	634	99	3	4	6	369	364	99	3	5	18	26	93	99
3	1	-9	473	447	99	3	2	-6	1710	1720	99	3	3	-1	162	125	99	3	4	7	216	114	99	3	5	19	-167	31	99
3	1	-8	885	816	99	3	2	-5	257	244	99	3	3	0	571	536	99	3	4	8	359	401	99	3	6	-18	-32	49	99
3	1	-7	939	910	99	3	2	-4	34	126	99	3	3	1	-57	68	99	3	4	9	202	290	99	3	6	-17	144	55	99
3	1	-6	554	585	99	3	2	-3	708	681	99	3	3	2	955	919	99	3	4	10	511	503	99	3	6	-16	-173	188	99
3	1	-5	480	530	99	3	2	-2	1264	1290	99	3	3	3	353	363	99	3	4	11	238	163	99	3	6	-15	156	3	99
3	1	-4	2144	2227	99	3	2	-1	472	483	99	3	3	4	143	106	99	3	4	12	-79	186	99	3	6	-14	133	37	99
3	1	-3	1467	1477	99	3	2	0	1281	1256	99	3	3	5	379	335	99	3	4	13	-138	31	99	3	6	-13	-169	27	99
3	1	-2	2353	2337	99	3	2	1	945	904	99	3	3	6	791	731	99	3	4	14	291	288	99	3	6	-12	247	217	99
3	1	-1	199	40	99	3	2	2	352	351	99	3	3	7	-219	28	99	3	4	15	136	10	99	3	6	-11	-142	13	99
3	1	0	2151	2211	99	3	2	3	-164	75	99	3	3	8	573	531	99	3	4	16	81	41	99	3	6	-10	163	229	99
3	1	1	1353	1360	99	3	2	4	1679	1687	99	3	3	9	48	295	99	3	4	17	-51	179	99	3	6	-9	99	162	99
3	1	2	2192	2240	99	3	2	5	690	674	99	3	3	10	92	158	99	3	4	18	-98	110	99	3	6	-8	145	64	99
3	1	3	627	634	99	3	2	6	760	757	99	3	3	11	-49	144	99	3	4	19	34	44	99	3	6	-7	-191	69	99
3	1	4	270	253	99	3	2	7	-33	71	99	3	3	12	703	674	99	3	4	20	149	170	99	3	6	-6	378	334	99
3	1	5	1044	1054	99	3	2	8	937	947	99	3	3	13	-185	29	99	3	4	21	-53	33	99	3	6	-5	-139	10	99
3	1	6	944	912	99	3	2	9	454	455	99	3	3	14	198	164	99	3	5	-21	-88	83	99	3	6	-4	-289	27	99
3	1	7	501	499	99	3	2	10	432	438	99	3	3	15	-113	89	99	3	5	-20	170	80	99	3	6	-3	136	54	99
3	1	8	701	652	99	3	2	11	335	374	99	3	3	16	350	390	99	3	5	-19	-326	12	99	3	6	-2	232	211	99
3	1	9	472	423	99	3	2	12	75	197	99	3	3	17	80	19	99	3	5	-18	124	205	99	3	6	-1	173	224	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	6	0	152	101	99	4	0	0	262	158	99	4	1	15	-89	47	99	4	2	19	-51	13	99	4	4	-23	-154	20	99
3	6	1	-148	113	99	4	0	2	392	373	99	4	1	16	694	643	99	4	2	20	147	257	99	4	4	-22	123	199	99
3	6	2	139	22	99	4	0	4	1474	1462	99	4	1	17	78	91	99	4	2	21	93	46	99	4	4	-21	22	26	99
3	6	3	-294	149	99	4	0	6	71	6	99	4	1	18	-93	164	99	4	2	22	91	69	99	4	4	-20	211	197	99
3	6	4	-345	283	99	4	0	8	1554	1604	99	4	1	19	-240	126	99	4	2	23	-107	17	99	4	4	-19	-200	15	99
3	6	5	131	140	99	4	0	10	1105	1124	99	4	1	20	130	257	99	4	2	24	-51	149	99	4	4	-18	-149	106	99
3	6	6	77	169	99	4	0	12	331	320	99	4	1	21	134	187	99	4	3	-25	114	10	99	4	4	-17	179	62	99
3	6	7	183	23	99	4	0	14	817	882	99	4	1	22	-95	211	99	4	3	-24	159	92	99	4	4	-16	-127	220	99
3	6	8	277	265	99	4	0	16	300	251	99	4	1	23	25	17	99	4	3	-23	-186	60	99	4	4	-15	-172	140	99
3	6	9	151	13	99	4	0	18	265	225	99	4	1	24	84	34	99	4	3	-22	161	69	99	4	4	-14	46	77	99
3	6	10	161	177	99	4	0	20	148	134	99	4	2	-26	40	187	99	4	3	-21	-87	104	99	4	4	-13	138	17	99
3	6	11	116	83	99	4	0	22	124	66	99	4	2	-25	-216	20	99	4	3	-20	298	240	99	4	4	-12	334	292	99
3	6	12	-175	30	99	4	0	24	-98	111	99	4	2	-24	93	12	99	4	3	-19	137	108	99	4	4	-11	163	99	99
3	6	13	134	30	99	4	1	-27	-106	49	99	4	2	-23	-129	73	99	4	3	-18	302	264	99	4	4	-10	371	310	99
3	6	14	-101	135	99	4	1	-26	114	100	99	4	2	-22	334	302	99	4	3	-17	-176	76	99	4	4	-9	-180	18	99
3	6	15	-120	95	99	4	1	-25	-180	15	99	4	2	-21	82	44	99	4	3	-16	297	242	99	4	4	-8	349	387	99
3	6	16	-153	91	99	4	1	-24	283	270	99	4	2	-20	294	290	99	4	3	-15	73	154	99	4	4	-7	367	289	99
3	7	-13	-35	23	99	4	1	-23	113	90	99	4	2	-19	131	164	99	4	3	-14	826	763	99	4	4	-6	671	679	99
3	7	-12	-76	69	99	4	1	-22	31	190	99	4	2	-18	-76	98	99	4	3	-13	378	359	99	4	4	-5	246	227	99
3	7	-11	-239	36	99	4	1	-21	-119	128	99	4	2	-17	81	32	99	4	3	-12	451	473	99	4	4	-4	98	76	99
3	7	-10	116	47	99	4	1	-20	291	228	99	4	2	-16	497	441	99	4	3	-11	157	27	99	4	4	-3	222	249	99
3	7	-9	-116	20	99	4	1	-19	237	208	99	4	2	-15	76	96	99	4	3	-10	670	642	99	4	4	-2	743	781	99
3	7	-8	-217	175	99	4	1	-18	617	524	99	4	2	-14	223	265	99	4	3	-9	158	22	99	4	4	-1	222	181	99
3	7	-7	75	74	99	4	1	-17	195	152	99	4	2	-13	358	328	99	4	3	-8	973	965	99	4	4	0	698	709	99
3	7	-6	-70	33	99	4	1	-16	139	48	99	4	2	-12	596	558	99	4	3	-7	-104	72	99	4	4	1	158	176	99
3	7	-5	52	96	99	4	1	-15	308	244	99	4	2	-11	240	266	99	4	3	-6	225	169	99	4	4	2	334	343	99
3	7	-4	262	206	99	4	1	-14	670	526	99	4	2	-10	711	722	99	4	3	-5	357	376	99	4	4	3	-70	152	99
3	7	-3	-125	34	99	4	1	-13	416	369	99	4	2	-9	447	422	99	4	3	-4	614	574	99	4	4	4	641	633	99
3	7	-2	-127	141	99	4	1	-12	112	81	99	4	2	-8	871	865	99	4	3	-3	406	380	99	4	4	5	116	20	99
3	7	-1	-61	73	99	4	1	-11	638	555	99	4	2	-7	344	311	99	4	3	-2	430	416	99	4	4	6	180	130	99
3	7	0	-158	107	99	4	1	-10	626	564	99	4	2	-6	1437	1495	99	4	3	-1	172	47	99	4	4	7	132	206	99
3	7	1	-219	1	99	4	1	-9	137	136	99	4	2	-5	323	348	99	4	3	0	552	589	99	4	4	8	228	293	99
3	7	2	-245	222	99	4	1	-8	911	928	99	4	2	-4	325	303	99	4	3	1	-38	138	99	4	4	9	335	264	99
3	7	3	157	30	99	4	1	-7	451	444	99	4	2	-3	428	416	99	4	3	2	632	594	99	4	4	10	313	288	99
3	7	4	-18	9	99	4	1	-6	412	423	99	4	2	-2	1234	1268	99	4	3	3	161	228	99	4	4	11	145	53	99
3	7	5	33	8	99	4	1	-5	276	286	99	4	2	-1	498	480	99	4	3	4	519	537	99	4	4	12	131	155	99
3	7	6	-216	184	99	4	1	-4	1989	2095	99	4	2	0	1234	1255	99	4	3	5	181	227	99	4	4	13	144	32	99
3	7	7	-282	35	99	4	1	-3	1330	1316	99	4	2	1	439	461	99	4	3	6	1003	979	99	4	4	14	218	256	99
3	7	8	19	70	99	4	1	-2	900	899	99	4	2	2	79	30	99	4	3	7	244	227	99	4	4	15	136	14	99
3	7	9	110	29	99	4	1	-1	440	439	99	4	2	3	380	329	99	4	3	8	437	384	99	4	4	16	-47	24	99
3	7	10	114	55	99	4	1	0	1264	1274	99	4	2	4	1616	1608	99	4	3	9	87	52	99	4	4	17	132	137	99
3	7	11	75	5	99	4	1	1	954	951	99	4	2	5	132	129	99	4	3	10	597	595	99	4	4	18	105	143	99
4	0	-26	108	96	99	4	1	2	1721	1710	99	4	2	6	382	390	99	4	3	11	62	280	99	4	4	19	111	15	99
4	0	-24	-124	60	99	4	1	3	364	364	99	4	2	7	60	93	99	4	3	12	720	727	99	4	4	20	110	171	99
4	0	-22	103	143	99	4	1	4	20	53	99	4	2	8	976	989	99	4	3	13	-121	131	99	4	4	21	73	29	99
4	0	-20	131	169	99	4	1	5	630	616	99	4	2	9	396	445	99	4	3	14	-73	48	99	4	5	-21	-66	76	99
4	0	-18	609	491	99	4	1	6	981	912	99	4	2	10	378	318	99	4	3	15	10	78	99	4	5	-20	88	83	99
4	0	-16	957	829	99	4	1	7	299	224	99	4	2	11	128	120	99	4	3	16	277	305	99	4	5	-19	-144	30	99
4	0	-14	-103	93	99	4	1	8	427	389	99	4	2	12	402	415	99	4	3	17	-169	13	99	4	5	-18	181	256	99
4	0	-12	1346	1310	99	4	1	9	69	82	99	4	2	13	147	60	99	4	3	18	-177	155	99	4	5	-17	161	80	99
4	0	-10	1303	1275	99	4	1	10	346	334	99	4	2	14	436	450	99	4	3	19	-26	124	99	4	5	-16	-204	4	99
4	0	-8	472	471	99	4	1	11	225	218	99	4	2	15	93	48	99	4	3	20	47	70	99	4	5	-15	-106	71	99
4	0	-6	1239	1289	99	4	1	12	645	639	99	4	2	16	67	76	99	4	3	21	-53	56	99	4	5	-14	-27	296	99
4	0	-4	-90	66	99	4	1	13	601	582	99	4	2	17	116	166	99	4	3	22	-121	75	99	4	5	-13	-179	31	99
4	0	-2	161	52	99	4	1	14	36	80	99	4	2	18	389	364	99	4	3	23	59	19	99	4	5	-12	168	87	99
4	5	-11	151	154	99	4	6	7	228	9	99	5	0	20	91	44	99	5	2	-26	-122	168	99	5	3	-20	305	254	99
4	5	-10	179	229	99	4	6	8	-22	315	99	5	0	22	-68	45	99	5	2	-25	96	15	99	5	3	-19	122	149	99
4	5	-9	-223	24	99	4	6	9	-97	19	99	5	0	24	59	109	99	5	2	-24	-218	25	99	5	3	-18	227	149	99
4	5	-8	268	318	99	4	6	10	212	161	99	5	1	-27	-34	97	99	5	2	-23	82	92	99	5	3	-17	143	147	99
4	5	-7	166	88	99	4	6	11	82	109	99	5	1	-26	-42	112	99	5	2	-22	362	350	99	5	3	-16	162	196	99
4	5	-6	168	57	99	4	6	12	-139	61	99	5	1	-25	51	17	99	5	2	-21	83	55	99	5	3	-15	-189	56	99
4	5	-5	-72	123	99	4	6	13	72	5	99	5	1	-24	324	310	99	5	2	-20	136	220	99	5	3	-14	913	878	99
4	5	-4	596	589	99	4	6	14	-101	153	99	5	1	-23	-91	29	99	5	2	-19	103	38	99	5	3	-13	394	386	99
4	5	-3	-187	50	99	4	6	15	-75	90	99	5	1	-22	-89	113	99	5	2	-18	-93	219	99	5	3	-12	473	470	99
4	5	-2	312	319	99	4	7	-12	54	45	99	5	1	-21	150	154	99	5	2	-17	217	211	99	5	3	-11	-91	165	99
4	5	-1	167	155	99	4	7	-11	11	12	99	5	1	-20	445	351	99	5	2	-16	670	604	99	5	3	-10	815	832	99
4	5	0	443	426	99	4	7	-10	-130	102	99	5	1	-19	292	268	99	5	2	-15	-84	19	99	5	3	-9	-81	7	99
4	5	1	-279	54	99	4	7	-9	125	14	99	5	1	-18	548	451	99	5	2	-14	-156	22	99	5	3	-8	909	910	99
4	5	2	481	524	99	4	7	-8	192	130	99	5	1	-17	68	80	99	5	2	-13	-219	115	99	5	3	-7	-84	70	99
4	5	3	-110	307	99	4	7	-7	-152	20	99	5	1	-16	-75	101	99	5	2	-12	811	817	99	5	3	-6	-51	187	99
4	5	4	320	52	99	4	7	-6	-49	42	99	5	1	-15	102	31	99	5	2	-11	148	35	99	5	3	-5	384	345	99
4	5	5	146	14	99	4	7	-5	-130	49	99	5	1	-14	695	645	99	5	2	-10	131	70	99	5	3	-4	598	643	99
4	5	6	206	353	99	4	7	-4	-132	203	99	5	1	-13	375	378	99	5	2	-9	-147	59	99	5	3	-3	317	364	99
4	5	7	156	17	99	4	7	-3	-222	17	99	5	1	-12	295	203	99	5	2	-8	471	509	99	5	3	-2	175	305	99
4	5	8	178	125	99	4	7	-2	140	95	99	5	1	-11	487	474	99	5	2	-7	101	79	99	5	3	-1	-235	37	99
4	5	9	-58	4	99	4	7	-1	-200	74	99	5	1	-10	850	936	99	5	2	-6	706	806	99	5	3	0	774	778	99
4	5	10	108	171	99	4	7	0	-166	138	99	5	1	-9	70	167	99	5	2	-5	80	97	99	5	3	1	-123	12	99
4	5	11	33	134	99	4	7	1	-281	2	99	5	1	-8	770	766	99	5	2	-4	246	224	99	5	3	2	127	286	99
4	5	12	148	228	99	4	7	2	80	173	99	5	1	-7	160	99	99	5	2	-3	331	313	99	5	3	3	-82	89	99
4	5	13	-76	19	99	4	7	3	130	57	99	5	1	-6	738	772	99	5	2	-2	1583	1550	99	5	3	4	658	671	99
4	5	14	33	51	99	4	7	4	-144	4	99	5	1	-5	482	505	99	5	2	-1	114	112	99	5	3	5	339	279	99
4	5	15	-95	26	99	4	7	5	-248	15	99	5	1	-4	1399	1435	99	5	2	0	547	510	99	5	3	6	1028	1022	99
4	5	16	132	228	99	4	7	6	-152	135	99	5	1	-3	101	270	99	5	2	1	51	255	99	5	3	7	416	396	99
4	5	17	-101	45	99	4	7	7	-314	45	99	5	1	-2	369	399	99	5	2	2	586	620	99	5	3	8	186	283	99
4	5	18	56	61	99	4	7	8	53	75	99	5	1	-1	391	395	99	5	2	3	94	94	99	5	3	9	153	42	99
4	6	-18	42	67	99	4	7	9	113	30	99	5	1	0	1096	1094	99	5	2	4	541	520	99	5	3	10	925	841	99
4	6	-17	-55	79	99	4	7	10	33	60	99	5	1	1	170	190	99	5	2	5	-123	37	99	5	3	11	225	274	99
4	6	-16	155	201	99	5	0	-26	-76	71	99	5	1	2	1244	1198	99	5	2	6	401	418	99	5	3	12	691	596	99
4	6	-15	129	4	99	5	0	-24	77	59	99	5	1	3	373	382	99	5	2	7	269	288	99	5	3	13	-219	103	99
4	6	-14	176	15	99	5	0	-22	90	198	99	5	1	4	-53	81	99	5	2	8	626	604	99	5	3	14	101	38	99
4	6	-13	161	34	99	5	0	-20	282	192	99	5	1	5	359	374	99	5	2	9	-201	28	99	5	3	15	-72	137	99
4	6	-12	62	245	99	5	0	-18	792	701	99	5	1	6	1020	970	99	5	2	10	498	455	99	5	3	16	107	205	99
4	6	-11	116	5	99	5	0	-16	924	837	99	5	1	7	352	323	99	5	2	11	341	324	99	5	3	17	-138	6	99
4	6	-10	268	250	99	5	0	-14	298	271	99	5	1	8	263	263	99	5	2	12	449	442	99	5	3	18	126	140	99
4	6	-9	161	183	99	5	0	-12	1265	1333	99	5	1	9	130	120	99	5	2	13	188	117	99	5	3	19	78	105	99
4	6	-8	-358	36	99	5	0	-10	1484	1535	99	5	1	10	573	535	99	5	2	14	488	410	99	5	3	20	92	86	99
4	6	-7	-67	73	99	5	0	-8	363	390	99	5	1	11	220	156	99	5	2	15	35	118	99	5	3	21	70	55	99
4	6	-6	350	348	99	5	0	-6	1561	1643	99	5	1	12	387	383	99	5	2	16	-128	4	99	5	3	22	66	37	99
4	6	-5	-253	45	99	5	0	-4	425	433	99	5	1	13	320	291	99	5	2	17	-152	77	99	5	4	-23	114	74	99
4	6	-4	155	81	99	5	0	-2	523	506	99	5	1	14	276	247	99	5	2	18	419	362	99	5	4	-22	248	214	99
4	6	-3	130	21	99	5	0	0	92	181	99	5	1	15	204	202	99	5	2	19	-213	2	99	5	4	-21	-139	22	99
4	6	-2	128	242	99	5	0	2	1427	1407	99	5	1	16	493	463	99	5	2	20	225	213	99	5	4	-20	253	172	99
4	6	-1	-256	122	99	5	0	4	1351	1382	99	5	1	17	-135	41	99	5	2	21	111	24	99	5	4	-19	-83	50	99
4	6	0	185	110	99	5	0	6	854	819	99	5	1	18	-198	116	99	5	2	22	90	123	99	5	4	-18	-173	175	99
4	6	1	196	89	99	5	0	8	1644	1667	99	5	1	19	145	91	99	5	2	23	80	0	99	5	4	-17	160	69	99
4	6	2	-213	139	99	5	0	10	929	891	99	5	1	20	140	247	99	5	3	-25	-74	57	99	5	4	-16	-183	232	99
4	6	3	81	25	99	5	0	12	431	465	99	5	1	21	-80	137	99	5	3	-24	92	125	99	5	4	-15	-40	173	99
4	6	4	235	303	99	5	0	14	646	817	99	5	1	22	121	243	99	5	3	-23	131	9	99	5	4	-14	-199	9	99
4	6	5	-201	54	99	5	0	16	211	94	99	5	1	23	98	58	99	5	3	-22	-127	50	99	5	4	-13	71	32	99
4	6	6	-266	9	99	5	0	18	190	101	99	5	1	24	-55	16	99	5	3	-21	-115	96	99	5	4	-12	343	302	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	4	-11	113	19	99	5	5	2	479	514	99	5	7	-7	155	10	99	6	1	-14	588	595	99	6	2	-9	-230	35	99
5	4	-10	348	281	99	5	5	3	219	251	99	5	7	-6	-115	65	99	6	1	-13	58	167	99	6	2	-8	301	321	99
5	4	-9	118	91	99	5	5	4	-206	53	99	5	7	-5	-213	19	99	6	1	-12	204	231	99	6	2	-7	126	147	99
5	4	-8	429	443	99	5	5	5	208	73	99	5	7	-4	84	219	99	6	1	-11	442	458	99	6	2	-6	1229	1232	99
5	4	-7	-283	174	99	5	5	6	426	439	99	5	7	-3	-186	61	99	6	1	-10	1075	1094	99	6	2	-5	173	184	99
5	4	-6	661	704	99	5	5	7	-290	54	99	5	7	-2	65	74	99	6	1	-9	470	467	99	6	2	-4	179	37	99
5	4	-5	296	261	99	5	5	8	-146	55	99	5	7	-1	-276	63	99	6	1	-8	791	838	99	6	2	-3	757	663	99
5	4	-4	-234	32	99	5	5	9	-173	15	99	5	7	0	-108	181	99	6	1	-7	313	297	99	6	2	-2	2401	2241	99
5	4	-3	70	6	99	5	5	10	209	199	99	5	7	1	-129	46	99	6	1	-6	1312	1342	99	6	2	-1	489	496	99
5	4	-2	820	896	99	5	5	11	-191	47	99	5	7	2	-282	152	99	6	1	-5	993	953	99	6	2	0	-48	194	99
5	4	-1	-101	307	99	5	5	12	-44	215	99	5	7	3	-50	74	99	6	1	-4	1619	1560	99	6	2	1	-64	158	99
5	4	0	609	671	99	5	5	13	-72	101	99	5	7	4	177	13	99	6	1	-3	183	42	99	6	2	2	1124	1085	99
5	4	1	192	66	99	5	5	14	133	65	99	5	7	5	-32	23	99	6	1	-2	126	151	99	6	2	3	-116	48	99
5	4	2	524	490	99	5	5	15	93	3	99	5	7	6	-137	135	99	6	1	-1	244	238	99	6	2	4	517	513	99
5	4	3	-237	163	99	5	5	16	40	237	99	5	7	7	94	50	99	6	1	0	1393	1417	99	6	2	5	-163	27	99
5	4	4	561	667	99	5	5	17	-87	52	99	5	7	8	-192	57	99	6	1	1	966	913	99	6	2	6	104	224	99
5	4	5	194	121	99	5	5	18	38	38	99	5	7	9	38	23	99	6	1	2	1654	1670	99	6	2	7	-157	124	99
5	4	6	-187	5	99	5	6	-18	89	100	99	6	0	-26	60	56	99	6	1	3	534	522	99	6	2	8	756	712	99
5	4	7	48	221	99	5	6	-17	133	53	99	6	0	-24	-170	40	99	6	1	4	611	585	99	6	2	9	261	194	99
5	4	8	357	316	99	5	6	-16	-151	171	99	6	0	-22	257	223	99	6	1	5	551	522	99	6	2	10	339	302	99
5	4	9	-155	172	99	5	6	-15	-231	8	99	6	0	-20	194	173	99	6	1	6	1224	1168	99	6	2	11	313	251	99
5	4	10	-247	205	99	5	6	-14	-135	34	99	6	0	-18	796	741	99	6	1	7	464	446	99	6	2	12	532	470	99
5	4	11	-70	18	99	5	6	-13	142	61	99	6	0	-16	449	471	99	6	1	8	-9	144	99	6	2	13	131	99	99
5	4	12	131	207	99	5	6	-12	205	230	99	6	0	-14	409	410	99	6	1	9	96	5	99	6	2	14	279	275	99
5	4	13	-28	3	99	5	6	-11	-350	43	99	6	0	-12	746	780	99	6	1	10	467	436	99	6	2	15	-203	179	99
5	4	14	233	264	99	5	6	-10	296	224	99	6	0	-10	984	1084	99	6	1	11	436	394	99	6	2	16	102	71	99
5	4	15	87	23	99	5	6	-9	100	202	99	6	0	-8	761	772	99	6	1	12	208	133	99	6	2	17	62	31	99
5	4	16	-99	68	99	5	6	-8	67	39	99	6	0	-6	1330	1288	99	6	1	13	150	20	99	6	2	18	333	341	99
5	4	17	66	66	99	5	6	-7	-114	78	99	6	0	-4	318	309	99	6	1	14	249	239	99	6	2	19	97	18	99
5	4	18	60	200	99	5	6	-6	147	344	99	6	0	-2	595	560	99	6	1	15	119	121	99	6	2	20	-129	97	99
5	4	19	-61	40	99	5	6	-5	170	134	99	6	0	0	588	572	99	6	1	16	363	364	99	6	2	21	-78	8	99
5	4	20	-26	116	99	5	6	-4	125	80	99	6	0	2	1258	1245	99	6	1	17	114	49	99	6	2	22	-117	145	99
5	5	-21	84	27	99	5	6	-3	-209	20	99	6	0	4	1194	1162	99	6	1	18	-25	8	99	6	3	-25	-105	24	99
5	5	-20	117	143	99	5	6	-2	138	268	99	6	0	6	881	801	99	6	1	19	152	45	99	6	3	-24	-17	156	99
5	5	-19	174	70	99	5	6	-1	180	61	99	6	0	8	828	842	99	6	1	20	243	255	99	6	3	-23	-341	10	99
5	5	-18	200	199	99	5	6	0	181	92	99	6	0	10	682	718	99	6	1	21	83	10	99	6	3	-22	179	92	99
5	5	-17	167	9	99	5	6	1	-245	60	99	6	0	12	232	231	99	6	1	22	125	176	99	6	3	-21	117	14	99
5	5	-16	63	91	99	5	6	2	222	233	99	6	0	14	826	811	99	6	1	23	-107	102	99	6	3	-20	88	227	99
5	5	-15	141	43	99	5	6	3	115	122	99	6	0	16	-185	75	99	6	2	-26	94	158	99	6	3	-19	129	85	99
5	5	-14	277	268	99	5	6	4	-281	261	99	6	0	18	145	168	99	6	2	-25	-204	28	99	6	3	-18	166	149	99
5	5	-13	70	29	99	5	6	5	-394	18	99	6	0	20	-237	39	99	6	2	-24	64	60	99	6	3	-17	170	99	99
5	5	-12	94	118	99	5	6	6	-274	89	99	6	0	22	98	46	99	6	2	-23	95	81	99	6	3	-16	283	233	99
5	5	-11	131	110	99	5	6	7	162	38	99	6	1	-27	60	86	99	6	2	-22	319	299	99	6	3	-15	100	29	99
5	5	-10	211	309	99	5	6	8	296	291	99	6	1	-26	153	147	99	6	2	-21	-137	30	99	6	3	-14	797	796	99
5	5	-9	-193	110	99	5	6	9	164	39	99	6	1	-25	95	4	99	6	2	-20	198	138	99	6	3	-13	245	147	99
5	5	-8	215	356	99	5	6	10	77	140	99	6	1	-24	286	241	99	6	2	-19	186	153	99	6	3	-12	-248	42	99
5	5	-7	-364	87	99	5	6	11	142	115	99	6	1	-23	139	109	99	6	2	-18	249	279	99	6	3	-11	94	139	99
5	5	-6	318	298	99	5	6	12	148	70	99	6	1	-22	109	21	99	6	2	-17	178	237	99	6	3	-10	845	860	99
5	5	-5	-319	62	99	5	6	13	120	7	99	6	1	-21	193	103	99	6	2	-16	667	625	99	6	3	-9	127	26	99
5	5	-4	367	410	99	5	6	14	101	163	99	6	1	-20	337	318	99	6	2	-15	78	106	99	6	3	-8	406	485	99
5	5	-3	-240	83	99	5	7	-12	-149	19	99	6	1	-19	164	166	99	6	2	-14	203	299	99	6	3	-7	-149	184	99
5	5	-2	123	97	99	5	7	-11	-184	10	99	6	1	-18	350	341	99	6	2	-13	211	262	99	6	3	-6	136	167	99
5	5	-1	208	177	99	5	7	-10	54	124	99	6	1	-17	-69	29	99	6	2	-12	799	776	99	6	3	-5	-57	52	99
5	5	0	86	225	99	5	7	-9	-133	18	99	6	1	-16	98	149	99	6	2	-11	273	259	99	6	3	-4	732	679	99
5	5	1	-227	34	99	5	7	-8	-110	96	99	6	1	-15	405	406	99	6	2	-10	-262	77	99	6	3	-3	391	341	99
6	3	-2	-132	85	99	6	4	8	143	219	99	6	6	-14	-27	79	99	7	0	-14	360	301	99	7	1	9	231	240	99
6	3	-1	251	219	99	6	4	9	-161	34	99	6	6	-13	-113	57	99	7	0	-12	518	506	99	7	1	10	636	593	99
6	3	0	690	676	99	6	4	10	-285	165	99	6	6	-12	262	212	99	7	0	-10	600	603	99	7	1	11	373	337	99
6	3	1	230	3	99	6	4	11	-117	30	99	6	6	-11	129	83	99	7	0	-8	1394	1414	99	7	1	12	277	249	99
6	3	2	110	326	99	6	4	12	-120	183	99	6	6	-10	-94	127	99	7	0	-6	806	783	99	7	1	13	-218	80	99
6	3	3	104	87	99	6	4	13	-155	45	99	6	6	-9	-246	99	99	7	0	-4	773	802	99	7	1	14	358	349	99
6	3	4	402	364	99	6	4	14	183	245	99	6	6	-8	-47	118	99	7	0	-2	803	786	99	7	1	15	-147	119	99
6	3	5	-127	132	99	6	4	15	-86	8	99	6	6	-7	-122	94	99	7	0	0	756	777	99	7	1	16	351	368	99
6	3	6	1000	965	99	6	4	16	104	147	99	6	6	-6	-271	296	99	7	0	2	1288	1237	99	7	1	17	-168	0	99
6	3	7	224	227	99	6	4	17	116	23	99	6	6	-5	120	69	99	7	0	4	828	856	99	7	1	18	127	37	99
6	3	8	-234	219	99	6	4	18	-156	197	99	6	6	-4	-230	10	99	7	0	6	670	656	99	7	1	19	155	69	99
6	3	9	86	2	99	6	4	19	62	59	99	6	6	-3	-339	29	99	7	0	8	494	506	99	7	1	20	-65	224	99
6	3	10	831	753	99	6	4	20	71	48	99	6	6	-2	272	288	99	7	0	10	605	599	99	7	1	21	89	73	99
6	3	11	-266	49	99	6	5	-21	90	8	99	6	6	-1	-126	84	99	7	0	12	493	519	99	7	1	22	-200	124	99
6	3	12	414	376	99	6	5	-20	-51	169	99	6	6	0	-88	62	99	7	0	14	730	748	99	7	2	-26	133	175	99
6	3	13	-190	28	99	6	5	-19	-138	65	99	6	6	1	-276	66	99	7	0	16	168	349	99	7	2	-25	166	34	99
6	3	14	-75	41	99	6	5	-18	43	137	99	6	6	2	230	229	99	7	0	18	168	213	99	7	2	-24	202	133	99
6	3	15	-200	161	99	6	5	-17	141	53	99	6	6	3	50	124	99	7	0	20	-31	13	99	7	2	-23	46	26	99
6	3	16	137	203	99	6	5	-16	200	170	99	6	6	4	-129	223	99	7	0	22	-111	47	99	7	2	-22	274	239	99
6	3	17	-182	55	99	6	5	-15	-290	107	99	6	6	5	-230	4	99	7	1	-27	84	66	99	7	2	-21	157	76	99
6	3	18	-64	111	99	6	5	-14	257	231	99	6	6	6	185	77	99	7	1	-26	60	104	99	7	2	-20	87	25	99
6	3	19	-191	65	99	6	5	-13	-107	51	99	6	6	7	89	16	99	7	1	-25	-148	56	99	7	2	-19	153	162	99
6	3	20	158	147	99	6	5	-12	-234	92	99	6	6	8	-188	263	99	7	1	-24	104	195	99	7	2	-18	-60	225	99
6	3	21	74	56	99	6	5	-11	-92	60	99	6	6	9	-142	13	99	7	1	-23	61	93	99	7	2	-17	160	70	99
6	4	-23	-54	30	99	6	5	-10	354	410	99	6	6	10	124	112	99	7	1	-22	20	12	99	7	2	-16	561	547	99
6	4	-22	-15	178	99	6	5	-9	179	159	99	6	6	11	-92	100	99	7	1	-21	-154	38	99	7	2	-15	-46	57	99
6	4	-21	-182	29	99	6	5	-8	259	302	99	6	6	12	58	99	99	7	1	-20	448	386	99	7	2	-14	357	356	99
6	4	-20	-132	173	99	6	5	-7	70	76	99	6	6	13	-97	14	99	7	1	-19	93	47	99	7	2	-13	141	183	99
6	4	-19	49	148	99	6	5	-6	481	477	99	6	7	-12	76	15	99	7	1	-18	114	214	99	7	2	-12	862	866	99
6	4	-18	253	226	99	6	5	-5	-107	28	99	6	7	-11	-87	3	99	7	1	-17	155	154	99	7	2	-11	462	504	99
6	4	-17	-210	36	99	6	5	-4	59	208	99	6	7	-10	-115	124	99	7	1	-16	401	334	99	7	2	-10	-60	113	99
6	4	-16	-133	220	99	6	5	-3	196	179	99	6	7	-9	-230	17	99	7	1	-15	450	457	99	7	2	-9	-53	205	99
6	4	-15	127	153	99	6	5	-2	175	45	99	6	7	-8	150	60	99	7	1	-14	586	594	99	7	2	-8	510	454	99
6	4	-14	190	120	99	6	5	-1	132	242	99	6	7	-7	99	4	99	7	1	-13	147	57	99	7	2	-7	-156	6	99
6	4	-13	73	8	99	6	5	0	76	120	99	6	7	-6	160	66	99	7	1	-12	152	55	99	7	2	-6	937	924	99
6	4	-12	150	293	99	6	5	1	236	90	99	6	7	-5	-153	15	99	7	1	-11	240	230	99	7	2	-5	173	147	99
6	4	-11	-174	103	99	6	5	2	526	467	99	6	7	-4	-74	225	99	7	1	-10	1178	1227	99	7	2	-4	110	239	99
6	4	-10	197	131	99	6	5	3	-210	215	99	6	7	-3	-100	80	99	7	1	-9	137	88	99	7	2	-3	486	465	99
6	4	-9	-141	56	99	6	5	4	-330	138	99	6	7	-2	158	42	99	7	1	-8	489	478	99	7	2	-2	1495	1504	99
6	4	-8	551	549	99	6	5	5	-125	152	99	6	7	-1	-129	23	99	7	1	-7	520	562	99	7	2	-1	305	285	99
6	4	-7	147	42	99	6	5	6	483	442	99	6	7	0	-47	204	99	7	1	-6	1393	1332	99	7	2	0	-18	146	99
6	4	-6	601	555	99	6	5	7	200	107	99	6	7	1	42	59	99	7	1	-5	568	535	99	7	2	1	172	143	99
6	4	-5	-157	242	99	6	5	8	-75	7	99	6	7	2	-208	124	99	7	1	-4	853	841	99	7	2	2	784	762	99
6	4	-4	185	263	99	6	5	9	210	8	99	6	7	3	-140	75	99	7	1	-3	133	22	99	7	2	3	-104	85	99
6	4	-3	-185	262	99	6	5	10	-309	200	99	6	7	4	146	22	99	7	1	-2	-98	51	99	7	2	4	569	558	99
6	4	-2	807	795	99	6	5	11	-331	50	99	6	7	5	-120	41	99	7	1	-1	-143	124	99	7	2	5	-126	155	99
6	4	-1	376	397	99	6	5	12	-145	191	99	6	7	6	54	146	99	7	1	0	1030	1072	99	7	2	6	165	30	99
6	4	0	531	500	99	6	5	13	155	144	99	6	7	7	-59	65	99	7	1	1	609	590	99	7	2	7	326	335	99
6	4	1	239	32	99	6	5	14	126	92	99	6	7	8	-52	32	99	7	1	2	1200	1219	99	7	2	8	1011	983	99
6	4	2	391	490	99	6	5	15	52	19	99	7	0	-26	47	24	99	7	1	3	517	513	99	7	2	9	281	306	99
6	4	3	190	13	99	6	5	16	88	192	99	7	0	-24	-76	25	99	7	1	4	798	783	99	7	2	10	93	71	99
6	4	4	612	576	99	6	5	17	37	50	99	7	0	-22	424	379	99	7	1	5	-60	133	99	7	2	11	150	20	99
6	4	5	41	163	99	6	6	-17	-242	4	99	7	0	-20	232	174	99	7	1	6	1060	1002	99	7	2	12	546	517	99
6	4	6	-216	48	99	6	6	-16	120	139	99	7	0	-18	782	745	99	7	1	7	140	254	99	7	2	13	-99	128	99
6	4	7	-257	144	99	6	6	-15	121	9	99	7	0	-16	90	94	99	7	1	8	108	198	99	7	2	14	252	209	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
7	2	15	-47	104	99	7	4	-23	79	14	99	7	5	-9	-126	164	99	7	6	12	114	105	99	8	1	-17	-107	133	99
7	2	16	53	13	99	7	4	-22	135	190	99	7	5	-8	151	321	99	7	6	13	67	2	99	8	1	-16	715	680	99
7	2	17	47	98	99	7	4	-21	-248	84	99	7	5	-7	101	158	99	7	7	-11	-65	11	99	8	1	-15	114	92	99
7	2	18	336	308	99	7	4	-20	-275	145	99	7	5	-6	223	384	99	7	7	-10	-168	131	99	8	1	-14	551	594	99
7	2	19	68	52	99	7	4	-19	-153	152	99	7	5	-5	-154	56	99	7	7	-9	-73	15	99	8	1	-13	135	138	99
7	2	20	-141	68	99	7	4	-18	153	285	99	7	5	-4	328	244	99	7	7	-8	73	42	99	8	1	-12	307	284	99
7	2	21	80	3	99	7	4	-17	72	26	99	7	5	-3	101	99	99	7	7	-7	-108	5	99	8	1	-11	-219	12	99
7	2	22	85	151	99	7	4	-16	92	191	99	7	5	-2	-155	26	99	7	7	-6	-124	75	99	8	1	-10	866	897	99
7	3	-25	36	37	99	7	4	-15	221	127	99	7	5	-1	159	154	99	7	7	-5	-206	32	99	8	1	-9	-135	243	99
7	3	-24	180	218	99	7	4	-14	150	120	99	7	5	0	-49	323	99	7	7	-4	88	217	99	8	1	-8	404	388	99
7	3	-23	158	44	99	7	4	-13	29	77	99	7	5	1	101	88	99	7	7	-3	137	93	99	8	1	-7	173	190	99
7	3	-22	-189	109	99	7	4	-12	367	334	99	7	5	2	-226	279	99	7	7	-2	-206	14	99	8	1	-6	656	598	99
7	3	-21	84	0	99	7	4	-11	-211	99	99	7	5	3	-204	34	99	7	7	-1	147	15	99	8	1	-5	447	409	99
7	3	-20	-108	225	99	7	4	-10	-141	188	99	7	5	4	227	381	99	7	7	0	171	206	99	8	1	-4	774	743	99
7	3	-19	104	25	99	7	4	-9	13	1	99	7	5	5	199	133	99	7	7	1	136	64	99	8	1	-3	273	221	99
7	3	-18	-187	142	99	7	4	-8	611	604	99	7	5	6	162	276	99	7	7	2	-191	69	99	8	1	-2	296	262	99
7	3	-17	-193	90	99	7	4	-7	-184	101	99	7	5	7	-195	63	99	7	7	3	128	62	99	8	1	-1	285	298	99
7	3	-16	187	176	99	7	4	-6	542	510	99	7	5	8	198	55	99	7	7	4	130	47	99	8	1	0	866	898	99
7	3	-15	-126	52	99	7	4	-5	-43	122	99	7	5	9	-177	14	99	7	7	5	-158	34	99	8	1	1	247	245	99
7	3	-14	605	550	99	7	4	-4	89	346	99	7	5	10	103	187	99	7	7	6	80	141	99	8	1	2	51	150	99
7	3	-13	172	65	99	7	4	-3	207	285	99	7	5	11	-189	112	99	8	0	-26	-131	40	99	8	1	3	372	369	99
7	3	-12	156	191	99	7	4	-2	869	772	99	7	5	12	-255	205	99	8	0	-24	138	78	99	8	1	4	767	772	99
7	3	-11	-100	83	99	7	4	-1	201	333	99	7	5	13	-252	119	99	8	0	-22	460	467	99	8	1	5	217	267	99
7	3	-10	683	660	99	7	4	0	108	103	99	7	5	14	-109	123	99	8	0	-20	19	119	99	8	1	6	750	682	99
7	3	-9	147	12	99	7	4	1	137	94	99	7	5	15	-180	30	99	8	0	-18	639	579	99	8	1	7	-186	84	99
7	3	-8	277	211	99	7	4	2	731	692	99	7	5	16	-135	140	99	8	0	-16	215	73	99	8	1	8	162	160	99
7	3	-7	309	321	99	7	4	3	-88	55	99	7	6	-17	94	4	99	8	0	-14	133	107	99	8	1	9	109	185	99
7	3	-6	413	387	99	7	4	4	431	401	99	7	6	-16	-242	122	99	8	0	-12	539	570	99	8	1	10	794	738	99
7	3	-5	275	193	99	7	4	5	60	178	99	7	6	-15	-121	46	99	8	0	-10	155	168	99	8	1	11	75	126	99
7	3	-4	900	851	99	7	4	6	187	277	99	7	6	-14	70	90	99	8	0	-8	1616	1571	99	8	1	12	326	281	99
7	3	-3	498	404	99	7	4	7	69	144	99	7	6	-13	-79	23	99	8	0	-6	451	423	99	8	1	13	27	80	99
7	3	-2	196	116	99	7	4	8	204	207	99	7	6	-12	198	187	99	8	0	-4	882	897	99	8	1	14	388	365	99
7	3	-1	371	351	99	7	4	9	-200	58	99	7	6	-11	96	76	99	8	0	-2	1081	1141	99	8	1	15	126	132	99
7	3	0	862	800	99	7	4	10	147	96	99	7	6	-10	-193	7	99	8	0	0	526	580	99	8	1	16	143	278	99
7	3	1	132	80	99	7	4	11	-220	33	99	7	6	-9	90	4	99	8	0	2	1357	1362	99	8	1	17	-138	7	99
7	3	2	-104	269	99	7	4	12	265	248	99	7	6	-8	147	168	99	8	0	4	601	513	99	8	1	18	123	43	99
7	3	3	-227	94	99	7	4	13	124	6	99	7	6	-7	-157	61	99	8	0	6	651	643	99	8	1	19	-124	105	99
7	3	4	275	314	99	7	4	14	237	220	99	7	6	-6	158	200	99	8	0	8	206	254	99	8	1	20	144	165	99
7	3	5	99	118	99	7	4	15	105	34	99	7	6	-5	-215	29	99	8	0	10	68	165	99	8	1	21	-58	56	99
7	3	6	781	749	99	7	4	16	81	178	99	7	6	-4	131	69	99	8	0	12	529	556	99	8	1	22	-48	67	99
7	3	7	48	155	99	7	4	17	101	69	99	7	6	-3	-362	24	99	8	0	14	319	342	99	8	2	-26	94	140	99
7	3	8	-254	36	99	7	4	18	125	145	99	7	6	-2	-263	295	99	8	0	16	377	371	99	8	2	-25	115	2	99
7	3	9	-148	30	99	7	4	19	-23	65	99	7	6	-1	-286	95	99	8	0	18	214	174	99	8	2	-24	141	229	99
7	3	10	618	633	99	7	5	-21	-43	8	99	7	6	0	210	52	99	8	0	20	126	71	99	8	2	-23	173	12	99
7	3	11	-226	51	99	7	5	-20	-112	188	99	7	6	1	227	70	99	8	0	22	90	93	99	8	2	-22	148	101	99
7	3	12	168	119	99	7	5	-19	127	70	99	7	6	2	240	204	99	8	1	-27	-86	26	99	8	2	-21	-217	85	99
7	3	13	-229	86	99	7	5	-18	145	73	99	7	6	3	131	86	99	8	1	-26	61	80	99	8	2	-20	81	86	99
7	3	14	-196	118	99	7	5	-17	-26	51	99	7	6	4	162	167	99	8	1	-25	121	56	99	8	2	-19	-37	59	99
7	3	15	133	75	99	7	5	-16	-179	207	99	7	6	5	30	41	99	8	1	-24	123	173	99	8	2	-18	282	252	99
7	3	16	134	214	99	7	5	-15	35	124	99	7	6	6	182	48	99	8	1	-23	72	76	99	8	2	-17	155	122	99
7	3	17	-212	27	99	7	5	-14	-155	192	99	7	6	7	-114	5	99	8	1	-22	109	58	99	8	2	-16	587	621	99
7	3	18	150	85	99	7	5	-13	-172	76	99	7	6	8	-163	197	99	8	1	-21	-123	9	99	8	2	-15	148	111	99
7	3	19	5	34	99	7	5	-12	-304	100	99	7	6	9	89	8	99	8	1	-20	539	475	99	8	2	-14	584	593	99
7	3	20	132	182	99	7	5	-11	-344	67	99	7	6	10	126	64	99	8	1	-19	-91	101	99	8	2	-13	201	314	99
7	3	21	-76	64	99	7	5	-10	391	396	99	7	6	11	-47	57	99	8	1	-18	-132	114	99	8	2	-12	1010	987	99
8	2	-11	289	336	99	8	3	-3	238	205	99	8	4	8	214	310	99	8	6	-9	199	5	99	9	0	10	-78	51	99
8	2	-10	107	181	99	8	3	-2	390	418	99	8	4	9	-83	30	99	8	6	-8	161	218	99	9	0	12	100	305	99
8	2	-9	121	131	99	8	3	-1	-132	30	99	8	4	10	-234	71	99	8	6	-7	178	47	99	9	0	14	75	96	99
8	2	-8	409	437	99	8	3	0	845	842	99	8	4	11	99	26	99	8	6	-6	50	137	99	9	0	16	332	363	99
8	2	-7	90	108	99	8	3	1	-139	99	99	8	4	12	256	286	99	8	6	-5	62	62	99	9	0	18	157	179	99
8	2	-6	848	807	99	8	3	2	224	204	99	8	4	13	174	38	99	8	6	-4	198	153	99	9	0	20	-153	40	99
8	2	-5	370	289	99	8	3	3	-104	164	99	8	4	14	192	225	99	8	6	-3	160	43	99	9	1	-27	-59	38	99
8	2	-4	148	352	99	8	3	4	-306	223	99	8	4	15	-220	2	99	8	6	-2	225	303	99	9	1	-26	-75	79	99
8	2	-3	421	420	99	8	3	5	-96	126	99	8	4	16	-170	161	99	8	6	-1	-206	117	99	9	1	-25	133	48	99
8	2	-2	1008	989	99	8	3	6	547	557	99	8	4	17	-126	62	99	8	6	0	12	34	99	9	1	-24	114	135	99
8	2	-1	234	190	99	8	3	7	223	189	99	8	4	18	-115	127	99	8	6	1	-271	49	99	9	1	-23	-131	17	99
8	2	0	483	500	99	8	3	8	144	137	99	8	5	-20	-103	196	99	8	6	2	237	191	99	9	1	-22	-144	150	99
8	2	1	171	34	99	8	3	9	74	87	99	8	5	-19	-149	60	99	8	6	3	163	64	99	9	1	-21	-218	11	99
8	2	2	536	555	99	8	3	10	464	457	99	8	5	-18	111	9	99	8	6	4	224	160	99	9	1	-20	476	463	99
8	2	3	-80	14	99	8	3	11	142	85	99	8	5	-17	-161	42	99	8	6	5	226	81	99	9	1	-19	172	49	99
8	2	4	526	506	99	8	3	12	33	20	99	8	5	-16	332	224	99	8	6	6	-300	54	99	9	1	-18	-67	108	99
8	2	5	-100	16	99	8	3	13	-137	2	99	8	5	-15	-175	104	99	8	6	7	-160	1	99	9	1	-17	163	12	99
8	2	6	396	348	99	8	3	14	241	186	99	8	5	-14	205	168	99	8	6	8	154	167	99	9	1	-16	695	712	99
8	2	7	326	354	99	8	3	15	92	2	99	8	5	-13	185	112	99	8	6	9	-192	17	99	9	1	-15	-62	115	99
8	2	8	1102	1081	99	8	3	16	254	227	99	8	5	-12	47	87	99	8	6	10	-224	12	99	9	1	-14	199	411	99
8	2	9	338	341	99	8	3	17	72	33	99	8	5	-11	-217	78	99	8	6	11	-31	24	99	9	1	-13	156	212	99
8	2	10	-20	137	99	8	3	18	112	11	99	8	5	-10	61	411	99	8	7	-10	111	108	99	9	1	-12	291	286	99
8	2	11	-35	42	99	8	3	19	-121	0	99	8	5	-9	-297	253	99	8	7	-9	81	10	99	9	1	-11	189	21	99
8	2	12	490	431	99	8	3	20	70	199	99	8	5	-8	89	318	99	8	7	-8	149	45	99	9	1	-10	895	864	99
8	2	13	63	122	99	8	4	-23	118	33	99	8	5	-7	304	227	99	8	7	-7	-103	33	99	9	1	-9	-181	252	99
8	2	14	-149	171	99	8	4	-22	123	190	99	8	5	-6	178	331	99	8	7	-6	-61	67	99	9	1	-8	400	416	99
8	2	15	174	118	99	8	4	-21	-149	84	99	8	5	-5	55	90	99	8	7	-5	106	37	99	9	1	-7	-283	170	99
8	2	16	-80	48	99	8	4	-20	-207	0	99	8	5	-4	124	281	99	8	7	-4	114	184	99	9	1	-6	765	725	99
8	2	17	80	94	99	8	4	-19	-202	34	99	8	5	-3	127	55	99	8	7	-3	114	83	99	9	1	-5	-193	188	99
8	2	18	126	277	99	8	4	-18	332	345	99	8	5	-2	-208	68	99	8	7	-2	71	57	99	9	1	-4	760	701	99
8	2	19	104	51	99	8	4	-17	156	68	99	8	5	-1	-284	19	99	8	7	-1	109	43	99	9	1	-3	194	27	99
8	2	20	87	1	99	8	4	-16	149	131	99	8	5	0	279	430	99	8	7	0	-247	158	99	9	1	-2	500	517	99
8	2	21	81	6	99	8	4	-15	172	69	99	8	5	1	-256	15	99	8	7	1	-136	29	99	9	1	-1	158	135	99
8	3	-25	-125	52	99	8	4	-14	-82	165	99	8	5	2	243	84	99	8	7	2	-161	28	99	9	1	0	891	965	99
8	3	-24	98	192	99	8	4	-13	-84	33	99	8	5	3	-106	111	99	8	7	3	-99	39	99	9	1	1	172	106	99
8	3	-23	-218	33	99	8	4	-12	474	445	99	8	5	4	499	488	99	8	7	4	-141	47	99	9	1	2	245	152	99
8	3	-22	172	128	99	8	4	-11	169	34	99	8	5	5	-247	161	99	8	7	5	-35	37	99	9	1	3	291	323	99
8	3	-21	-182	14	99	8	4	-10	-222	151	99	8	5	6	257	178	99	9	0	-26	108	20	99	9	1	4	861	866	99
8	3	-20	197	210	99	8	4	-9	140	81	99	8	5	7	-117	11	99	9	0	-24	128	138	99	9	1	5	171	78	99
8	3	-19	153	41	99	8	4	-8	695	629	99	8	5	8	-271	88	99	9	0	-22	347	414	99	9	1	6	544	515	99
8	3	-18	55	206	99	8	4	-7	177	83	99	8	5	9	-215	49	99	9	0	-20	-68	25	99	9	1	7	95	162	99
8	3	-17	-124	53	99	8	4	-6	-46	218	99	8	5	10	238	220	99	9	0	-18	270	302	99	9	1	8	-80	149	99
8	3	-16	200	194	99	8	4	-5	-262	81	99	8	5	11	100	124	99	9	0	-16	229	110	99	9	1	9	156	34	99
8	3	-15	-240	2	99	8	4	-4	143	273	99	8	5	12	151	186	99	9	0	-14	113	148	99	9	1	10	710	663	99
8	3	-14	469	399	99	8	4	-3	-303	9	99	8	5	13	134	79	99	9	0	-12	761	739	99	9	1	11	105	114	99
8	3	-13	146	9	99	8	4	-2	272	349	99	8	5	14	-126	155	99	9	0	-10	134	192	99	9	1	12	128	267	99
8	3	-12	-75	290	99	8	4	-1	257	217	99	8	5	15	55	32	99	9	0	-8	1880	1809	99	9	1	13	-203	33	99
8	3	-11	133	9	99	8	4	0	-149	264	99	8	6	-17	-167	7	99	9	0	-6	224	118	99	9	1	14	385	347	99
8	3	-10	-111	470	99	8	4	1	73	234	99	8	6	-16	109	107	99	9	0	-4	1106	1042	99	9	1	15	-261	30	99
8	3	-9	140	78	99	8	4	2	629	583	99	8	6	-15	-200	41	99	9	0	-2	1325	1305	99	9	1	16	229	181	99
8	3	-8	-176	198	99	8	4	3	-47	176	99	8	6	-14	118	91	99	9	0	0	682	647	99	9	1	17	-131	54	99
8	3	-7	-379	40	99	8	4	4	430	392	99	8	6	-13	-211	1	99	9	0	2	1716	1664	99	9	1	18	-213	105	99
8	3	-6	583	626	99	8	4	5	-223	154	99	8	6	-12	205	170	99	9	0	4	443	416	99	9	1	19	102	82	99
8	3	-5	-181	14	99	8	4	6	399	385	99	8	6	-11	-148	26	99	9	0	6	670	638	99	9	1	20	-51	102	99
8	3	-4	1076	1036	99	8	4	7	-296	53	99	8	6	-10	104	71	99	9	0	8	-184	131	99	9	1	21	-132	25	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	2	-26	-95	71	99	9	3	-17	114	17	99	9	4	-5	74	148	99	9	5	12	-164	127	99	10	0	-2	1263	1249	99
9	2	-25	-61	2	99	9	3	-16	332	275	99	9	4	-4	81	128	99	9	5	13	-183	71	99	10	0	0	180	246	99
9	2	-24	189	208	99	9	3	-15	-113	5	99	9	4	-3	133	233	99	9	5	14	80	145	99	10	0	2	1510	1426	99
9	2	-23	-87	8	99	9	3	-14	-301	174	99	9	4	-2	-302	45	99	9	6	-16	-84	94	99	10	0	4	415	336	99
9	2	-22	139	58	99	9	3	-13	93	45	99	9	4	-1	96	162	99	9	6	-15	-97	35	99	10	0	6	533	522	99
9	2	-21	-136	41	99	9	3	-12	161	341	99	9	4	0	-82	270	99	9	6	-14	145	94	99	10	0	8	-163	26	99
9	2	-20	133	87	99	9	3	-11	-78	87	99	9	4	1	146	200	99	9	6	-13	-139	28	99	10	0	10	161	192	99
9	2	-19	-234	0	99	9	3	-10	319	341	99	9	4	2	597	510	99	9	6	-12	-220	142	99	10	0	12	360	364	99
9	2	-18	333	344	99	9	3	-9	-117	98	99	9	4	3	186	244	99	9	6	-11	-228	13	99	10	0	14	-67	13	99
9	2	-17	-158	69	99	9	3	-8	-426	87	99	9	4	4	346	331	99	9	6	-10	159	117	99	10	0	16	357	388	99
9	2	-16	462	424	99	9	3	-7	165	156	99	9	4	5	228	46	99	9	6	-9	-186	12	99	10	0	18	76	204	99
9	2	-15	-352	42	99	9	3	-6	1030	928	99	9	4	6	362	393	99	9	6	-8	83	230	99	10	0	20	-164	14	99
9	2	-14	672	694	99	9	3	-5	186	156	99	9	4	7	-166	3	99	9	6	-7	-297	62	99	10	1	-26	48	118	99
9	2	-13	-308	174	99	9	3	-4	1064	957	99	9	4	8	317	317	99	9	6	-6	-188	103	99	10	1	-25	110	30	99
9	2	-12	755	758	99	9	3	-3	146	166	99	9	4	9	-260	48	99	9	6	-5	138	53	99	10	1	-24	41	101	99
9	2	-11	198	130	99	9	3	-2	685	657	99	9	4	10	-121	85	99	9	6	-4	273	222	99	10	1	-23	-183	98	99
9	2	-10	91	159	99	9	3	-1	155	122	99	9	4	11	105	80	99	9	6	-3	110	121	99	10	1	-22	-313	231	99
9	2	-9	120	124	99	9	3	0	966	923	99	9	4	12	336	274	99	9	6	-2	320	317	99	10	1	-21	-179	88	99
9	2	-8	580	579	99	9	3	1	216	303	99	9	4	13	-154	83	99	9	6	-1	181	95	99	10	1	-20	126	323	99
9	2	-7	165	127	99	9	3	2	223	174	99	9	4	14	150	193	99	9	6	0	180	2	99	10	1	-19	-264	6	99
9	2	-6	797	715	99	9	3	3	-121	54	99	9	4	15	-85	25	99	9	6	1	143	24	99	10	1	-18	190	174	99
9	2	-5	281	258	99	9	3	4	330	247	99	9	4	16	-158	136	99	9	6	2	-214	195	99	10	1	-17	-177	38	99
9	2	-4	687	616	99	9	3	5	250	3	99	9	4	17	-72	31	99	9	6	3	84	65	99	10	1	-16	631	597	99
9	2	-3	-204	57	99	9	3	6	431	354	99	9	5	-20	75	166	99	9	6	4	-162	164	99	10	1	-15	64	333	99
9	2	-2	842	838	99	9	3	7	-193	4	99	9	5	-19	61	25	99	9	6	5	-139	99	99	10	1	-14	302	357	99
9	2	-1	224	106	99	9	3	8	101	121	99	9	5	-18	-274	61	99	9	6	6	158	74	99	10	1	-13	129	113	99
9	2	0	455	505	99	9	3	9	136	111	99	9	5	-17	-125	15	99	9	6	7	-246	41	99	10	1	-12	531	460	99
9	2	1	158	140	99	9	3	10	213	261	99	9	5	-16	131	197	99	9	6	8	-164	153	99	10	1	-11	-264	35	99
9	2	2	704	719	99	9	3	11	39	32	99	9	5	-15	-310	55	99	9	6	9	148	5	99	10	1	-10	826	791	99
9	2	3	-126	2	99	9	3	12	-146	93	99	9	5	-14	168	149	99	9	6	10	-166	84	99	10	1	-9	-263	13	99
9	2	4	482	439	99	9	3	13	113	11	99	9	5	-13	170	71	99	9	7	-9	53	5	99	10	1	-8	-56	43	99
9	2	5	138	78	99	9	3	14	266	260	99	9	5	-12	-158	29	99	9	7	-8	90	31	99	10	1	-7	155	364	99
9	2	6	668	603	99	9	3	15	155	26	99	9	5	-11	-258	17	99	9	7	-7	-124	42	99	10	1	-6	653	681	99
9	2	7	90	248	99	9	3	16	130	150	99	9	5	-10	128	416	99	9	7	-6	120	56	99	10	1	-5	172	178	99
9	2	8	867	839	99	9	3	17	84	8	99	9	5	-9	192	181	99	9	7	-5	90	19	99	10	1	-4	418	394	99
9	2	9	-47	61	99	9	3	18	118	114	99	9	5	-8	119	130	99	9	7	-4	-109	124	99	10	1	-3	131	114	99
9	2	10	244	210	99	9	3	19	-44	1	99	9	5	-7	-155	114	99	9	7	-3	-179	54	99	10	1	-2	473	500	99
9	2	11	-293	3	99	9	4	-23	114	17	99	9	5	-6	314	321	99	9	7	-2	45	86	99	10	1	-1	-156	74	99
9	2	12	346	297	99	9	4	-22	94	152	99	9	5	-5	-132	94	99	9	7	-1	107	30	99	10	1	0	671	682	99
9	2	13	127	16	99	9	4	-21	81	47	99	9	5	-4	250	205	99	9	7	0	-152	90	99	10	1	1	119	266	99
9	2	14	180	141	99	9	4	-20	87	110	99	9	5	-3	-255	59	99	9	7	1	133	4	99	10	1	2	140	107	99
9	2	15	-60	137	99	9	4	-19	-261	73	99	9	5	-2	-135	100	99	9	7	2	-108	7	99	10	1	3	-71	152	99
9	2	16	-206	16	99	9	4	-18	321	351	99	9	5	-1	248	12	99	9	7	3	-137	32	99	10	1	4	756	778	99
9	2	17	142	64	99	9	4	-17	113	32	99	9	5	0	407	400	99	10	0	-26	-34	38	99	10	1	5	106	243	99
9	2	18	182	209	99	9	4	-16	-150	52	99	9	5	1	214	41	99	10	0	-24	78	176	99	10	1	6	513	545	99
9	2	19	-91	6	99	9	4	-15	-33	3	99	9	5	2	-161	5	99	10	0	-22	313	346	99	10	1	7	-52	36	99
9	2	20	72	67	99	9	4	-14	158	289	99	9	5	3	-128	41	99	10	0	-20	-190	54	99	10	1	8	403	348	99
9	3	-25	97	7	99	9	4	-13	-283	21	99	9	5	4	371	415	99	10	0	-18	204	228	99	10	1	9	-97	226	99
9	3	-24	34	134	99	9	4	-12	361	477	99	9	5	5	-210	102	99	10	0	-16	-181	176	99	10	1	10	733	698	99
9	3	-23	-103	69	99	9	4	-11	-197	157	99	9	5	6	-290	142	99	10	0	-14	-111	95	99	10	1	11	167	134	99
9	3	-22	-72	58	99	9	4	-10	156	108	99	9	5	7	181	36	99	10	0	-12	658	685	99	10	1	12	-129	78	99
9	3	-21	-259	9	99	9	4	-9	240	149	99	9	5	8	80	67	99	10	0	-10	741	675	99	10	1	13	-40	85	99
9	3	-20	298	245	99	9	4	-8	586	579	99	9	5	9	89	11	99	10	0	-8	1482	1413	99	10	1	14	370	352	99
9	3	-19	-100	88	99	9	4	-7	-85	31	99	9	5	10	153	219	99	10	0	-6	344	344	99	10	1	15	-72	26	99
9	3	-18	264	211	99	9	4	-6	232	163	99	9	5	11	33	99	99	10	0	-4	1021	1030	99	10	1	16	-204	132	99
10	1	17	153	65	99	10	3	-19	118	76	99	10	4	-5	-118	3	99	10	5	13	78	41	99	11	1	-26	48	147	99
10	1	18	-119	110	99	10	3	-18	-114	138	99	10	4	-4	-308	225	99	10	6	-15	-54	32	99	11	1	-25	-93	29	99
10	1	19	-75	57	99	10	3	-17	156	25	99	10	4	-3	-158	110	99	10	6	-14	-242	110	99	11	1	-24	129	33	99
10	1	20	-103	89	99	10	3	-16	177	278	99	10	4	-2	-196	221	99	10	6	-13	-203	56	99	11	1	-23	-231	114	99
10	2	-26	85	51	99	10	3	-15	116	62	99	10	4	-1	-153	78	99	10	6	-12	-18	115	99	11	1	-22	184	212	99
10	2	-25	62	40	99	10	3	-14	-189	86	99	10	4	0	-286	77	99	10	6	-11	-66	22	99	11	1	-21	-49	143	99
10	2	-24	248	211	99	10	3	-13	196	148	99	10	4	1	231	95	99	10	6	-10	45	126	99	11	1	-20	264	252	99
10	2	-23	-170	43	99	10	3	-12	229	299	99	10	4	2	614	600	99	10	6	-9	-115	7	99	11	1	-19	28	76	99
10	2	-22	-152	78	99	10	3	-11	108	36	99	10	4	3	60	90	99	10	6	-8	-104	201	99	11	1	-18	102	117	99
10	2	-21	126	27	99	10	3	-10	334	335	99	10	4	4	192	29	99	10	6	-7	157	79	99	11	1	-17	125	97	99
10	2	-20	-74	121	99	10	3	-9	238	149	99	10	4	5	-210	104	99	10	6	-6	157	82	99	11	1	-16	600	587	99
10	2	-19	-266	117	99	10	3	-8	-135	18	99	10	4	6	431	462	99	10	6	-5	199	40	99	11	1	-15	404	423	99
10	2	-18	341	338	99	10	3	-7	220	142	99	10	4	7	-122	27	99	10	6	-4	-145	263	99	11	1	-14	219	293	99
10	2	-17	171	12	99	10	3	-6	1087	998	99	10	4	8	-46	247	99	10	6	-3	136	151	99	11	1	-13	316	201	99
10	2	-16	-92	173	99	10	3	-5	239	163	99	10	4	9	-167	114	99	10	6	-2	262	274	99	11	1	-12	538	567	99
10	2	-15	180	103	99	10	3	-4	752	715	99	10	4	10	-275	21	99	10	6	-1	103	53	99	11	1	-11	-108	19	99
10	2	-14	713	643	99	10	3	-3	-174	149	99	10	4	11	127	11	99	10	6	0	205	86	99	11	1	-10	749	660	99
10	2	-13	202	16	99	10	3	-2	782	775	99	10	4	12	260	276	99	10	6	1	87	19	99	11	1	-9	215	135	99
10	2	-12	389	407	99	10	3	-1	145	206	99	10	4	13	165	89	99	10	6	2	-197	170	99	11	1	-8	-302	88	99
10	2	-11	114	19	99	10	3	0	876	831	99	10	4	14	-139	96	99	10	6	3	-365	69	99	11	1	-7	449	469	99
10	2	-10	139	280	99	10	3	1	227	233	99	10	4	15	-64	22	99	10	6	4	-157	99	99	11	1	-6	790	666	99
10	2	-9	-144	89	99	10	3	2	245	38	99	10	4	16	-36	115	99	10	6	5	-250	94	99	11	1	-5	-143	142	99
10	2	-8	528	503	99	10	3	3	88	98	99	10	5	-20	-123	126	99	10	6	6	-244	80	99	11	1	-4	-113	291	99
10	2	-7	-253	240	99	10	3	4	365	311	99	10	5	-19	-90	46	99	10	6	7	-153	76	99	11	1	-3	-187	171	99
10	2	-6	379	376	99	10	3	5	110	65	99	10	5	-18	168	46	99	10	6	8	-59	104	99	11	1	-2	635	597	99
10	2	-5	183	63	99	10	3	6	200	200	99	10	5	-17	-246	42	99	10	6	9	46	16	99	11	1	-1	195	143	99
10	2	-4	618	626	99	10	3	7	-167	38	99	10	5	-16	-149	152	99	10	7	-6	-125	79	99	11	1	0	502	536	99
10	2	-3	337	377	99	10	3	8	-230	179	99	10	5	-15	-259	55	99	10	7	-5	-114	10	99	11	1	1	320	276	99
10	2	-2	499	496	99	10	3	9	-200	57	99	10	5	-14	230	123	99	10	7	-4	29	82	99	11	1	2	312	346	99
10	2	-1	-147	67	99	10	3	10	162	172	99	10	5	-13	-189	12	99	10	7	-3	-165	38	99	11	1	3	-59	72	99
10	2	0	36	368	99	10	3	11	-197	66	99	10	5	-12	170	135	99	10	7	-2	-38	100	99	11	1	4	757	748	99
10	2	1	-211	15	99	10	3	12	175	153	99	10	5	-11	-80	31	99	10	7	-1	-94	15	99	11	1	5	421	422	99
10	2	2	507	494	99	10	3	13	170	111	99	10	5	-10	300	320	99	11	0	-26	-12	47	99	11	1	6	181	227	99
10	2	3	150	24	99	10	3	14	335	259	99	10	5	-9	-125	40	99	11	0	-24	201	195	99	11	1	7	-103	83	99
10	2	4	422	373	99	10	3	15	-26	22	99	10	5	-8	-278	26	99	11	0	-22	163	292	99	11	1	8	541	503	99
10	2	5	126	178	99	10	3	16	-160	98	99	10	5	-7	105	15	99	11	0	-20	-171	207	99	11	1	9	268	299	99
10	2	6	570	542	99	10	3	17	-160	36	99	10	5	-6	289	287	99	11	0	-18	182	405	99	11	1	10	478	476	99
10	2	7	36	105	99	10	3	18	-106	119	99	10	5	-5	179	97	99	11	0	-16	139	67	99	11	1	11	161	46	99
10	2	8	653	639	99	10	4	-22	88	121	99	10	5	-4	187	180	99	11	0	-14	474	437	99	11	1	12	125	42	99
10	2	9	-131	11	99	10	4	-21	-157	39	99	10	5	-3	216	49	99	11	0	-12	204	248	99	11	1	13	185	147	99
10	2	10	-108	247	99	10	4	-20	-204	128	99	10	5	-2	199	155	99	11	0	-10	568	548	99	11	1	14	282	260	99
10	2	11	181	35	99	10	4	-19	122	113	99	10	5	-1	-60	40	99	11	0	-8	670	736	99	11	1	15	-302	21	99
10	2	12	315	273	99	10	4	-18	309	296	99	10	5	0	198	356	99	11	0	-6	-230	125	99	11	1	16	-177	104	99
10	2	13	-246	47	99	10	4	-17	242	9	99	10	5	1	-380	57	99	11	0	-4	814	830	99	11	1	17	137	48	99
10	2	14	45	114	99	10	4	-16	-261	30	99	10	5	2	-203	57	99	11	0	-2	621	699	99	11	1	18	-139	80	99
10	2	15	156	73	99	10	4	-15	156	1	99	10	5	3	-302	41	99	11	0	0	349	231	99	11	1	19	-139	27	99
10	2	16	127	60	99	10	4	-14	-121	279	99	10	5	4	126	301	99	11	0	2	684	722	99	11	2	-25	-93	71	99
10	2	17	168	24	99	10	4	-13	212	40	99	10	5	5	64	50	99	11	0	4	-142	155	99	11	2	-24	-152	197	99
10	2	18	-88	197	99	10	4	-12	519	452	99	10	5	6	109	94	99	11	0	6	328	284	99	11	2	-23	-227	45	99
10	2	19	-112	45	99	10	4	-11	-337	264	99	10	5	7	-38	51	99	11	0	8	281	242	99	11	2	-22	77	108	99
10	3	-24	-81	115	99	10	4	-10	-90	89	99	10	5	8	156	67	99	11	0	10	-152	133	99	11	2	-21	130	60	99
10	3	-23	37	97	99	10	4	-9	-260	53	99	10	5	9	-111	2	99	11	0	12	439	413	99	11	2	-20	188	118	99
10	3	-22	-177	49	99	10	4	-8	597	531	99	10	5	10	-240	181	99	11	0	14	-93	3	99	11	2	-19	-157	115	99
10	3	-21	139	46	99	10	4	-7	179	97	99	10	5	11	31	42	99	11	0	16	158	325	99	11	2	-18	382	370	99
10	3	-20	172	263	99	10	4	-6	65	13	99	10	5	12	-101	62	99	11	0	18	-132	159	99	11	2	-17	-269	81	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
11	2	-16	-242	49	99	11	3	-4	77	212	99	11	4	11	-34	47	99	11	6	4	165	71	99	12	1	2	365	405	99
11	2	-15	-86	34	99	11	3	-3	204	253	99	11	4	12	276	269	99	11	6	5	150	83	99	12	1	3	229	117	99
11	2	-14	592	559	99	11	3	-2	389	372	99	11	4	13	143	106	99	11	6	6	68	109	99	12	1	4	649	690	99
11	2	-13	241	104	99	11	3	-1	168	72	99	11	4	14	-139	47	99	11	6	7	102	93	99	12	1	5	374	364	99
11	2	-12	452	294	99	11	3	0	544	566	99	11	4	15	97	21	99	12	0	-26	20	30	99	12	1	6	113	7	99
11	2	-11	280	186	99	11	3	1	207	325	99	11	5	-19	-97	68	99	12	0	-24	87	214	99	12	1	7	202	89	99
11	2	-10	182	299	99	11	3	2	-61	98	99	11	5	-18	85	32	99	12	0	-22	127	144	99	12	1	8	368	420	99
11	2	-9	86	21	99	11	3	3	-283	49	99	11	5	-17	-198	49	99	12	0	-20	-101	333	99	12	1	9	-94	208	99
11	2	-8	702	624	99	11	3	4	494	430	99	11	5	-16	-169	154	99	12	0	-18	408	389	99	12	1	10	-15	218	99
11	2	-7	-53	127	99	11	3	5	-204	5	99	11	5	-15	208	47	99	12	0	-16	-78	195	99	12	1	11	41	25	99
11	2	-6	260	203	99	11	3	6	227	188	99	11	5	-14	61	80	99	12	0	-14	537	534	99	12	1	12	-210	60	99
11	2	-5	-288	119	99	11	3	7	195	86	99	11	5	-13	-43	18	99	12	0	-12	261	237	99	12	1	13	190	190	99
11	2	-4	834	763	99	11	3	8	-318	229	99	11	5	-12	-298	195	99	12	0	-10	129	323	99	12	1	14	-101	191	99
11	2	-3	247	304	99	11	3	9	-303	25	99	11	5	-11	118	18	99	12	0	-8	738	706	99	12	1	15	-22	53	99
11	2	-2	491	430	99	11	3	10	-124	217	99	11	5	-10	213	226	99	12	0	-6	57	18	99	12	1	16	-75	67	99
11	2	-1	166	72	99	11	3	11	96	154	99	11	5	-9	-377	6	99	12	0	-4	868	895	99	12	1	17	-151	60	99
11	2	0	474	462	99	11	3	12	184	85	99	11	5	-8	-377	99	99	12	0	-2	207	290	99	12	1	18	-70	108	99
11	2	1	-174	184	99	11	3	13	181	99	99	11	5	-7	179	31	99	12	0	0	621	591	99	12	2	-25	78	30	99
11	2	2	532	516	99	11	3	14	289	263	99	11	5	-6	7	301	99	12	0	2	461	561	99	12	2	-24	184	161	99
11	2	3	109	120	99	11	3	15	-234	57	99	11	5	-5	-241	161	99	12	0	4	217	31	99	12	2	-23	-174	37	99
11	2	4	137	79	99	11	3	16	-129	94	99	11	5	-4	-262	150	99	12	0	6	502	465	99	12	2	-22	76	143	99
11	2	5	92	259	99	11	3	17	94	27	99	11	5	-3	44	48	99	12	0	8	290	268	99	12	2	-21	136	131	99
11	2	6	573	560	99	11	4	-22	-61	99	99	11	5	-2	199	206	99	12	0	10	185	177	99	12	2	-20	74	164	99
11	2	7	-242	7	99	11	4	-21	-196	11	99	11	5	-1	-248	91	99	12	0	12	341	322	99	12	2	-19	120	59	99
11	2	8	376	372	99	11	4	-20	170	163	99	11	5	0	431	298	99	12	0	14	116	21	99	12	2	-18	316	297	99
11	2	9	120	46	99	11	4	-19	93	143	99	11	5	1	-94	121	99	12	0	16	-133	247	99	12	2	-17	200	104	99
11	2	10	331	299	99	11	4	-18	284	242	99	11	5	2	-341	41	99	12	0	18	-68	47	99	12	2	-16	-107	57	99
11	2	11	-194	2	99	11	4	-17	-176	13	99	11	5	3	180	70	99	12	1	-26	78	144	99	12	2	-15	-308	6	99
11	2	12	282	273	99	11	4	-16	276	28	99	11	5	4	217	256	99	12	1	-25	-69	49	99	12	2	-14	133	383	99
11	2	13	-64	8	99	11	4	-15	208	18	99	11	5	5	-128	65	99	12	1	-24	-252	10	99	12	2	-13	178	121	99
11	2	14	176	45	99	11	4	-14	192	227	99	11	5	6	-161	74	99	12	1	-23	121	80	99	12	2	-12	88	224	99
11	2	15	102	1	99	11	4	-13	-225	105	99	11	5	7	83	25	99	12	1	-22	-77	195	99	12	2	-11	-276	115	99
11	2	16	25	123	99	11	4	-12	423	390	99	11	5	8	153	132	99	12	1	-21	-244	96	99	12	2	-10	454	377	99
11	2	17	-109	95	99	11	4	-11	218	321	99	11	5	9	-81	2	99	12	1	-20	-12	166	99	12	2	-9	154	88	99
11	2	18	75	143	99	11	4	-10	-165	30	99	11	5	10	-160	128	99	12	1	-19	184	52	99	12	2	-8	729	662	99
11	3	-24	-117	62	99	11	4	-9	94	57	99	11	5	11	-100	13	99	12	1	-18	-171	81	99	12	2	-7	182	230	99
11	3	-23	-67	62	99	11	4	-8	526	527	99	11	5	12	-101	13	99	12	1	-17	-227	228	99	12	2	-6	-246	33	99
11	3	-22	147	128	99	11	4	-7	232	139	99	11	6	-14	-176	152	99	12	1	-16	466	449	99	12	2	-5	183	310	99
11	3	-21	146	129	99	11	4	-6	-258	70	99	11	6	-13	145	50	99	12	1	-15	47	206	99	12	2	-4	872	841	99
11	3	-20	-177	240	99	11	4	-5	175	109	99	11	6	-12	-98	79	99	12	1	-14	-130	224	99	12	2	-3	491	441	99
11	3	-19	-181	20	99	11	4	-4	-311	330	99	11	6	-11	72	16	99	12	1	-13	209	226	99	12	2	-2	451	404	99
11	3	-18	122	26	99	11	4	-3	-92	50	99	11	6	-10	47	102	99	12	1	-12	530	571	99	12	2	-1	195	5	99
11	3	-17	-255	45	99	11	4	-2	188	187	99	11	6	-9	199	43	99	12	1	-11	327	182	99	12	2	0	519	535	99
11	3	-16	364	330	99	11	4	-1	114	70	99	11	6	-8	276	161	99	12	1	-10	686	585	99	12	2	1	135	1	99
11	3	-15	-162	21	99	11	4	0	159	255	99	11	6	-7	-221	102	99	12	1	-9	-79	286	99	12	2	2	520	462	99
11	3	-14	172	97	99	11	4	1	156	211	99	11	6	-6	147	69	99	12	1	-8	252	280	99	12	2	3	-317	74	99
11	3	-13	147	128	99	11	4	2	505	452	99	11	6	-5	136	20	99	12	1	-7	207	405	99	12	2	4	166	65	99
11	3	-12	366	346	99	11	4	3	87	13	99	11	6	-4	314	250	99	12	1	-6	828	763	99	12	2	5	103	143	99
11	3	-11	-297	140	99	11	4	4	178	104	99	11	6	-3	-117	126	99	12	1	-5	-312	143	99	12	2	6	372	336	99
11	3	-10	126	375	99	11	4	5	130	164	99	11	6	-2	204	180	99	12	1	-4	-169	198	99	12	2	7	205	137	99
11	3	-9	125	32	99	11	4	6	394	395	99	11	6	-1	268	7	99	12	1	-3	-17	204	99	12	2	8	92	218	99
11	3	-8	320	240	99	11	4	7	98	51	99	11	6	0	-240	123	99	12	1	-2	702	692	99	12	2	9	-128	104	99
11	3	-7	280	145	99	11	4	8	224	210	99	11	6	1	-136	36	99	12	1	-1	200	321	99	12	2	10	217	225	99
11	3	-6	715	645	99	11	4	9	222	158	99	11	6	2	166	134	99	12	1	0	538	570	99	12	2	11	-57	89	99
11	3	-5	292	230	99	11	4	10	131	60	99	11	6	3	22	60	99	12	1	1	232	248	99	12	2	12	-115	244	99
12	2	13	102	49	99	12	4	-11	-151	188	99	12	6	-12	-219	11	99	13	1	-9	398	347	99	13	2	4	-313	49	99
12	2	14	143	56	99	12	4	-10	-285	175	99	12	6	-11	85	21	99	13	1	-8	263	438	99	13	2	5	-181	120	99
12	2	15	-181	8	99	12	4	-9	137	125	99	12	6	-10	-221	77	99	13	1	-7	219	79	99	13	2	6	-190	231	99
12	2	16	-176	147	99	12	4	-8	286	453	99	12	6	-9	16	66	99	13	1	-6	737	677	99	13	2	7	145	58	99
12	2	17	-75	79	99	12	4	-7	-373	47	99	12	6	-8	59	88	99	13	1	-5	-77	212	99	13	2	8	-76	168	99
12	3	-23	110	10	99	12	4	-6	66	33	99	12	6	-7	99	91	99	13	1	-4	86	18	99	13	2	9	-190	71	99
12	3	-22	25	183	99	12	4	-5	-327	125	99	12	6	-6	64	45	99	13	1	-3	300	272	99	13	2	10	261	269	99
12	3	-21	-32	121	99	12	4	-4	-172	393	99	12	6	-5	-111	13	99	13	1	-2	676	614	99	13	2	11	-101	23	99
12	3	-20	-152	168	99	12	4	-3	-172	32	99	12	6	-4	136	172	99	13	1	-1	311	203	99	13	2	12	164	203	99
12	3	-19	-172	55	99	12	4	-2	12	138	99	12	6	-3	-211	56	99	13	1	0	447	459	99	13	2	13	-249	58	99
12	3	-18	40	186	99	12	4	-1	211	66	99	12	6	-2	146	70	99	13	1	1	139	151	99	13	2	14	-142	143	99
12	3	-17	131	44	99	12	4	0	-279	309	99	12	6	-1	-204	34	99	13	1	2	215	202	99	13	2	15	-267	49	99
12	3	-16	348	364	99	12	4	1	201	189	99	12	6	0	-118	106	99	13	1	3	204	21	99	13	2	16	78	142	99
12	3	-15	-203	53	99	12	4	2	368	332	99	12	6	1	-138	67	99	13	1	4	572	567	99	13	3	-23	-61	3	99
12	3	-14	-320	81	99	12	4	3	-101	19	99	12	6	2	193	78	99	13	1	5	170	265	99	13	3	-22	133	186	99
12	3	-13	290	104	99	12	4	4	225	109	99	12	6	3	-71	65	99	13	1	6	109	13	99	13	3	-21	-24	73	99
12	3	-12	448	465	99	12	4	5	-296	112	99	12	6	4	-160	73	99	13	1	7	-52	177	99	13	3	-20	-212	104	99
12	3	-11	358	264	99	12	4	6	161	303	99	12	6	5	-127	81	99	13	1	8	347	397	99	13	3	-19	196	74	99
12	3	-10	273	323	99	12	4	7	-290	66	99	13	0	-24	143	173	99	13	1	9	132	141	99	13	3	-18	69	257	99
12	3	-9	-196	86	99	12	4	8	-111	165	99	13	0	-22	152	20	99	13	1	10	-52	109	99	13	3	-17	-334	7	99
12	3	-8	391	391	99	12	4	9	57	153	99	13	0	-20	194	277	99	13	1	11	-58	27	99	13	3	-16	254	319	99
12	3	-7	-337	93	99	12	4	10	-77	90	99	13	0	-18	340	384	99	13	1	12	65	137	99	13	3	-15	-304	66	99
12	3	-6	213	263	99	12	4	11	147	51	99	13	0	-16	141	250	99	13	1	13	152	119	99	13	3	-14	-163	59	99
12	3	-5	-134	254	99	12	4	12	-67	208	99	13	0	-14	789	673	99	13	1	14	225	191	99	13	3	-13	-228	119	99
12	3	-4	-205	9	99	12	4	13	68	86	99	13	0	-12	-314	112	99	13	1	15	-28	47	99	13	3	-12	447	419	99
12	3	-3	61	294	99	12	5	-18	79	23	99	13	0	-10	172	306	99	13	1	16	89	38	99	13	3	-11	-212	214	99
12	3	-2	238	172	99	12	5	-17	-164	37	99	13	0	-8	603	509	99	13	1	17	14	32	99	13	3	-10	285	318	99
12	3	-1	233	50	99	12	5	-16	113	169	99	13	0	-6	152	91	99	13	2	-24	99	169	99	13	3	-9	274	11	99
12	3	0	505	490	99	12	5	-15	-111	38	99	13	0	-4	519	631	99	13	2	-23	-157	29	99	13	3	-8	-201	266	99
12	3	1	193	251	99	12	5	-14	-82	14	99	13	0	-2	-221	51	99	13	2	-22	149	141	99	13	3	-7	-254	10	99
12	3	2	169	103	99	12	5	-13	116	43	99	13	0	0	417	427	99	13	2	-21	140	126	99	13	3	-6	386	228	99
12	3	3	75	223	99	12	5	-12	72	243	99	13	0	2	510	516	99	13	2	-20	141	217	99	13	3	-5	186	98	99
12	3	4	521	515	99	12	5	-11	-338	21	99	13	0	4	231	28	99	13	2	-19	-214	15	99	13	3	-4	-132	10	99
12	3	5	108	7	99	12	5	-10	53	113	99	13	0	6	794	753	99	13	2	-18	-242	193	99	13	3	-3	249	164	99
12	3	6	-306	86	99	12	5	-9	87	15	99	13	0	8	-112	213	99	13	2	-17	-75	89	99	13	3	-2	-148	321	99
12	3	7	-38	15	99	12	5	-8	285	161	99	13	0	10	197	313	99	13	2	-16	-230	110	99	13	3	-1	223	103	99
12	3	8	77	241	99	12	5	-7	80	100	99	13	0	12	132	232	99	13	2	-15	-103	23	99	13	3	0	202	321	99
12	3	9	184	4	99	12	5	-6	-190	296	99	13	0	14	182	25	99	13	2	-14	290	267	99	13	3	1	-89	29	99
12	3	10	233	229	99	12	5	-5	274	180	99	13	0	16	-97	188	99	13	2	-13	97	93	99	13	3	2	129	381	99
12	3	11	-285	127	99	12	5	-4	-395	99	99	13	1	-25	-20	53	99	13	2	-12	219	121	99	13	3	3	225	160	99
12	3	12	-108	63	99	12	5	-3	-214	31	99	13	1	-24	100	42	99	13	2	-11	-342	8	99	13	3	4	430	434	99
12	3	13	106	55	99	12	5	-2	111	235	99	13	1	-23	98	43	99	13	2	-10	509	480	99	13	3	5	-290	31	99
12	3	14	151	202	99	12	5	-1	-119	99	99	13	1	-22	-38	179	99	13	2	-9	-163	106	99	13	3	6	-164	18	99
12	3	15	77	25	99	12	5	0	255	250	99	13	1	-21	162	78	99	13	2	-8	472	519	99	13	3	7	-254	61	99
12	3	16	24	35	99	12	5	1	133	114	99	13	1	-20	129	124	99	13	2	-7	-211	195	99	13	3	8	189	266	99
12	4	-21	-131	43	99	12	5	2	-216	5	99	13	1	-19	-173	59	99	13	2	-6	181	256	99	13	3	9	114	71	99
12	4	-20	162	161	99	12	5	3	219	96	99	13	1	-18	200	90	99	13	2	-5	158	326	99	13	3	10	200	221	99
12	4	-19	-48	82	99	12	5	4	221	229	99	13	1	-17	161	164	99	13	2	-4	775	771	99	13	3	11	83	98	99
12	4	-18	-193	176	99	12	5	5	181	79	99	13	1	-16	364	360	99	13	2	-3	464	327	99	13	3	12	-198	92	99
12	4	-17	-84	35	99	12	5	6	-242	75	99	13	1	-15	-69	64	99	13	2	-2	195	288	99	13	3	13	-57	71	99
12	4	-16	-242	61	99	12	5	7	61	17	99	13	1	-14	70	9	99	13	2	-1	147	37	99	13	3	14	129	135	99
12	4	-15	-314	31	99	12	5	8	181	166	99	13	1	-13	-277	194	99	13	2	0	-105	494	99	13	4	-21	81	23	99
12	4	-14	173	251	99	12	5	9	-67	8	99	13	1	-12	659	545	99	13	2	1	147	19	99	13	4	-20	-121	91	99
12	4	-13	-50	176	99	12	5	10	-65	66	99	13	1	-11	71	128	99	13	2	2	359	357	99	13	4	-19	-173	7	99
12	4	-12	-143	262	99	12	6	-13	-82	21	99	13	1	-10	314	266	99	13	2	3	102	109	99	13	4	-16	-136	135	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
13	4	-17	143	13	99	13	5	8	103	165	99	14	1	-7	-319	32	99	14	2	9	132	9	99	14	4	-7	207	14	99
13	4	-16	-337	58	99	13	5	9	34	7	99	14	1	-6	621	621	99	14	2	10	79	271	99	14	4	-6	210	170	99
13	4	-15	225	29	99	13	6	-11	-80	10	99	14	1	-5	-115	80	99	14	2	11	-231	32	99	14	4	-5	-282	15	99
13	4	-14	-203	227	99	13	6	-10	-175	80	99	14	1	-4	-70	137	99	14	2	12	116	168	99	14	4	-4	229	365	99
13	4	-13	138	149	99	13	6	-9	135	32	99	14	1	-3	-157	80	99	14	2	13	77	1	99	14	4	-3	80	118	99
13	4	-12	152	94	99	13	6	-8	145	103	99	14	1	-2	608	599	99	14	2	14	94	153	99	14	4	-2	-251	57	99
13	4	-11	196	40	99	13	6	-7	-103	80	99	14	1	-1	144	143	99	14	3	-22	112	210	99	14	4	-1	-336	76	99
13	4	-10	-51	227	99	13	6	-6	122	4	99	14	1	0	-207	244	99	14	3	-21	127	71	99	14	4	0	175	193	99
13	4	-9	28	100	99	13	6	-5	-129	1	99	14	1	1	-261	71	99	14	3	-20	115	25	99	14	4	1	214	86	99
13	4	-8	452	349	99	13	6	-4	17	149	99	14	1	2	-217	229	99	14	3	-19	-121	84	99	14	4	2	137	203	99
13	4	-7	-174	22	99	13	6	-3	-146	16	99	14	1	3	72	43	99	14	3	-18	168	278	99	14	4	3	164	40	99
13	4	-6	-276	89	99	13	6	-2	-34	4	99	14	1	4	328	335	99	14	3	-17	-168	12	99	14	4	4	-150	52	99
13	4	-5	109	72	99	13	6	-1	-73	32	99	14	1	5	-266	148	99	14	3	-16	188	237	99	14	4	5	-126	4	99
13	4	-4	221	447	99	13	6	0	206	143	99	14	1	6	193	60	99	14	3	-15	-349	85	99	14	4	6	-233	183	99
13	4	-3	-454	64	99	13	6	1	-87	26	99	14	1	7	81	106	99	14	3	-14	151	69	99	14	4	7	135	39	99
13	4	-2	-246	109	99	13	6	2	64	69	99	14	1	8	244	283	99	14	3	-13	178	95	99	14	4	8	-181	6	99
13	4	-1	-233	21	99	13	6	3	-103	53	99	14	1	9	55	31	99	14	3	-12	484	388	99	14	4	9	34	45	99
13	4	0	305	311	99	14	0	-24	110	93	99	14	1	10	-216	68	99	14	3	-11	-97	222	99	14	4	10	-94	103	99
13	4	1	-46	136	99	14	0	-22	89	56	99	14	1	11	136	7	99	14	3	-10	86	326	99	14	5	-16	-240	168	99
13	4	2	312	243	99	14	0	-20	169	244	99	14	1	12	124	154	99	14	3	-9	85	54	99	14	5	-15	-254	35	99
13	4	3	10	41	99	14	0	-18	214	383	99	14	1	13	168	55	99	14	3	-8	141	216	99	14	5	-14	-236	71	99
13	4	4	-99	107	99	14	0	-16	472	365	99	14	1	14	139	191	99	14	3	-7	-224	26	99	14	5	-13	-272	37	99
13	4	5	85	41	99	14	0	-14	683	618	99	14	1	15	146	62	99	14	3	-6	-158	208	99	14	5	-12	-136	150	99
13	4	6	152	217	99	14	0	-12	253	7	99	14	2	-23	35	42	99	14	3	-5	-254	18	99	14	5	-11	105	22	99
13	4	7	-303	42	99	14	0	-10	297	207	99	14	2	-22	124	72	99	14	3	-4	-256	24	99	14	5	-10	166	64	99
13	4	8	-127	57	99	14	0	-8	482	421	99	14	2	-21	-125	33	99	14	3	-3	-339	76	99	14	5	-9	-117	61	99
13	4	9	155	88	99	14	0	-6	-400	111	99	14	2	-20	183	254	99	14	3	-2	116	348	99	14	5	-8	28	130	99
13	4	10	-120	91	99	14	0	-4	405	413	99	14	2	-19	-11	68	99	14	3	-1	107	114	99	14	5	-7	-512	58	99
13	4	11	-173	49	99	14	0	-2	199	242	99	14	2	-18	-341	118	99	14	3	0	104	124	99	14	5	-6	341	293	99
13	4	12	79	128	99	14	0	0	203	354	99	14	2	-17	-157	22	99	14	3	1	103	62	99	14	5	-5	-124	139	99
13	5	-17	-249	14	99	14	0	2	118	338	99	14	2	-16	-258	96	99	14	3	2	473	473	99	14	5	-4	165	67	99
13	5	-16	-150	176	99	14	0	4	224	244	99	14	2	-15	-128	48	99	14	3	3	-79	156	99	14	5	-3	223	70	99
13	5	-15	130	63	99	14	0	6	700	695	99	14	2	-14	152	304	99	14	3	4	182	315	99	14	5	-2	227	238	99
13	5	-14	143	18	99	14	0	8	-262	44	99	14	2	-13	-225	34	99	14	3	5	-132	23	99	14	5	-1	-139	60	99
13	5	-13	-276	37	99	14	0	10	-174	256	99	14	2	-12	-241	66	99	14	3	6	-85	66	99	14	5	0	-162	93	99
13	5	-12	147	220	99	14	0	12	174	188	99	14	2	-11	209	56	99	14	3	7	107	22	99	14	5	1	-190	77	99
13	5	-11	20	24	99	14	0	14	-68	24	99	14	2	-10	568	591	99	14	3	8	249	306	99	14	5	2	83	34	99
13	5	-10	-305	74	99	14	0	16	57	136	99	14	2	-9	-131	7	99	14	3	9	-78	116	99	14	5	3	154	20	99
13	5	-9	-167	21	99	14	1	-24	66	38	99	14	2	-8	222	229	99	14	3	10	88	216	99	14	5	4	102	197	99
13	5	-8	-252	170	99	14	1	-23	-40	10	99	14	2	-7	-301	46	99	14	3	11	-182	65	99	14	5	5	-234	108	99
13	5	-7	209	132	99	14	1	-22	70	190	99	14	2	-6	309	308	99	14	3	12	-89	138	99	14	5	6	-148	14	99
13	5	-6	238	334	99	14	1	-21	-81	31	99	14	2	-5	218	7	99	14	3	13	-34	81	99	14	5	7	-61	30	99
13	5	-5	-232	195	99	14	1	-20	-237	135	99	14	2	-4	478	484	99	14	4	-20	111	81	99	14	6	-8	160	136	99
13	5	-4	211	10	99	14	1	-19	-201	90	99	14	2	-3	-56	55	99	14	4	-19	-80	14	99	14	6	-7	-107	76	99
13	5	-3	-146	110	99	14	1	-18	223	184	99	14	2	-2	232	279	99	14	4	-18	-226	127	99	14	6	-6	110	35	99
13	5	-2	-105	300	99	14	1	-17	27	85	99	14	2	-1	-435	158	99	14	4	-17	-327	33	99	14	6	-5	-123	39	99
13	5	-1	-124	123	99	14	1	-16	159	279	99	14	2	0	518	492	99	14	4	-16	178	94	99	14	6	-4	11	141	99
13	5	0	-139	172	99	14	1	-15	-226	12	99	14	2	1	-170	53	99	14	4	-15	-232	2	99	14	6	-3	50	34	99
13	5	1	-309	74	99	14	1	-14	220	172	99	14	2	2	322	314	99	14	4	-14	-221	193	99	14	6	-2	95	1	99
13	5	2	-155	49	99	14	1	-13	-362	60	99	14	2	3	149	168	99	14	4	-13	-157	62	99	15	0	-24	125	40	99
13	5	3	-99	34	99	14	1	-12	514	418	99	14	2	4	-140	185	99	14	4	-12	-161	36	99	15	0	-22	177	62	99
13	5	4	-299	206	99	14	1	-11	219	94	99	14	2	5	82	14	99	14	4	-11	108	48	99	15	0	-20	-186	200	99
13	5	5	-279	84	99	14	1	-10	220	132	99	14	2	6	226	195	99	14	4	-10	231	247	99	15	0	-18	234	288	99
13	5	6	63	11	99	14	1	-9	-234	140	99	14	2	7	161	30	99	14	4	-9	218	49	99	15	0	-16	245	354	99
13	5	7	-244	41	99	14	1	-8	519	461	99	14	2	8	-122	83	99	14	4	-8	289	230	99	15	0	-14	593	464	99
15	0	-12	-140	50	99	15	2	-21	93	54	99	15	3	-1	-228	90	99	15	5	0	-175	10	99	16	1	9	-65	39	99
15	0	-10	193	263	99	15	2	-20	190	227	99	15	3	0	-251	13	99	15	5	1	123	71	99	16	1	10	62	33	99
15	0	-8	482	527	99	15	2	-19	-329	79	99	15	3	1	-299	107	99	15	5	2	62	10	99	16	1	11	-266	74	99
15	0	-6	290	297	99	15	2	-18	-247	69	99	15	3	2	391	420	99	15	5	3	133	15	99	16	1	12	-128	176	99
15	0	-4	129	470	99	15	2	-17	-198	32	99	15	3	3	24	97	99	15	5	4	99	192	99	16	2	-22	-62	83	99
15	0	-2	319	322	99	15	2	-16	-251	97	99	15	3	4	127	185	99	16	0	-22	-194	40	99	16	2	-21	-85	79	99
15	0	0	431	434	99	15	2	-15	125	91	99	15	3	5	-183	15	99	16	0	-20	230	183	99	16	2	-20	134	204	99
15	0	2	247	255	99	15	2	-14	407	377	99	15	3	6	147	74	99	16	0	-18	254	165	99	16	2	-19	-299	44	99
15	0	4	410	446	99	15	2	-13	-240	38	99	15	3	7	-295	16	99	16	0	-16	271	367	99	16	2	-18	-265	31	99
15	0	6	484	545	99	15	2	-12	151	58	99	15	3	8	49	263	99	16	0	-14	222	234	99	16	2	-17	183	39	99
15	0	8	-261	133	99	15	2	-11	-269	41	99	15	3	9	250	61	99	16	0	-12	-256	93	99	16	2	-16	-344	132	99
15	0	10	-287	171	99	15	2	-10	568	563	99	15	3	10	120	145	99	16	0	-10	-81	261	99	16	2	-15	-375	63	99
15	0	12	157	123	99	15	2	-9	-158	41	99	15	3	11	129	57	99	16	0	-8	-262	314	99	16	2	-14	279	352	99
15	0	14	77	20	99	15	2	-8	185	49	99	15	4	-18	37	123	99	16	0	-6	345	361	99	16	2	-13	207	111	99
15	1	-24	-30	42	99	15	2	-7	-270	38	99	15	4	-17	-192	49	99	16	0	-4	255	285	99	16	2	-12	-161	104	99
15	1	-23	-36	42	99	15	2	-6	-189	199	99	15	4	-16	140	137	99	16	0	-2	211	179	99	16	2	-11	-279	22	99
15	1	-22	-124	189	99	15	2	-5	64	140	99	15	4	-15	130	33	99	16	0	0	212	231	99	16	2	-10	404	456	99
15	1	-21	31	29	99	15	2	-4	329	276	99	15	4	-14	-138	178	99	16	0	2	-90	299	99	16	2	-9	-102	12	99
15	1	-20	-135	94	99	15	2	-3	-281	14	99	15	4	-13	-172	16	99	16	0	4	-371	316	99	16	2	-8	-129	50	99
15	1	-19	-263	93	99	15	2	-2	225	236	99	15	4	-12	-288	117	99	16	0	6	243	423	99	16	2	-7	-333	41	99
15	1	-18	-163	219	99	15	2	-1	-153	95	99	15	4	-11	-155	94	99	16	0	8	135	147	99	16	2	-6	155	185	99
15	1	-17	-301	5	99	15	2	0	458	488	99	15	4	-10	154	261	99	16	0	10	85	155	99	16	2	-5	121	98	99
15	1	-16	-206	195	99	15	2	1	-88	99	99	15	4	-9	211	76	99	16	0	12	125	97	99	16	2	-4	233	300	99
15	1	-15	113	19	99	15	2	2	255	218	99	15	4	-8	254	165	99	16	1	-23	41	22	99	16	2	-3	-155	8	99
15	1	-14	-344	170	99	15	2	3	178	60	99	15	4	-7	-222	2	99	16	1	-22	-114	178	99	16	2	-2	123	39	99
15	1	-13	-179	5	99	15	2	4	-309	225	99	15	4	-6	-230	244	99	16	1	-21	94	47	99	16	2	-1	141	49	99
15	1	-12	259	345	99	15	2	5	244	53	99	15	4	-5	47	107	99	16	1	-20	-87	41	99	16	2	0	470	524	99
15	1	-11	211	0	99	15	2	6	79	144	99	15	4	-4	-315	344	99	16	1	-19	216	66	99	16	2	1	184	78	99
15	1	-10	294	152	99	15	2	7	130	62	99	15	4	-3	-270	122	99	16	1	-18	-118	252	99	16	2	2	-140	82	99
15	1	-9	-54	13	99	15	2	8	134	68	99	15	4	-2	-209	1	99	16	1	-17	238	69	99	16	2	3	181	43	99
15	1	-8	487	505	99	15	2	9	121	28	99	15	4	-1	34	25	99	16	1	-16	-88	131	99	16	2	4	-66	262	99
15	1	-7	-69	212	99	15	2	10	237	206	99	15	4	0	316	186	99	16	1	-15	246	18	99	16	2	5	210	90	99
15	1	-6	514	590	99	15	2	11	-229	28	99	15	4	1	-182	60	99	16	1	-14	-158	211	99	16	2	6	-149	163	99
15	1	-5	158	83	99	15	2	12	23	120	99	15	4	2	-147	193	99	16	1	-13	159	26	99	16	2	7	140	98	99
15	1	-4	192	309	99	15	2	13	79	35	99	15	4	3	116	60	99	16	1	-12	270	287	99	16	2	8	-147	11	99
15	1	-3	-76	168	99	15	3	-21	30	17	99	15	4	4	-209	82	99	16	1	-11	-141	54	99	16	2	9	-212	18	99
15	1	-2	545	585	99	15	3	-20	-166	49	99	15	4	5	-188	3	99	16	1	-10	-155	36	99	16	2	10	102	220	99
15	1	-1	-273	2	99	15	3	-19	-54	46	99	15	4	6	-217	176	99	16	1	-9	210	86	99	16	2	11	-112	55	99
15	1	0	-151	83	99	15	3	-18	-157	213	99	15	4	7	-110	11	99	16	1	-8	136	474	99	16	3	-20	-39	49	99
15	1	1	-353	17	99	15	3	-17	-179	5	99	15	4	8	135	77	99	16	1	-7	213	241	99	16	3	-19	-107	17	99
15	1	2	185	271	99	15	3	-16	92	193	99	15	4	9	49	13	99	16	1	-6	70	356	99	16	3	-18	176	138	99
15	1	3	134	73	99	15	3	-15	-351	99	99	15	5	-14	-51	150	99	16	1	-5	-217	65	99	16	3	-17	-144	19	99
15	1	4	220	233	99	15	3	-14	-166	17	99	15	5	-13	127	46	99	16	1	-4	191	334	99	16	3	-16	161	136	99
15	1	5	-257	3	99	15	3	-13	-494	20	99	15	5	-12	15	68	99	16	1	-3	19	199	99	16	3	-15	-234	59	99
15	1	6	-160	99	99	15	3	-12	89	412	99	15	5	-11	-198	48	99	16	1	-2	149	412	99	16	3	-14	175	70	99
15	1	7	-195	21	99	15	3	-11	43	196	99	15	5	-10	84	31	99	16	1	-1	-217	83	99	16	3	-13	-379	38	99
15	1	8	-156	215	99	15	3	-10	-56	193	99	15	5	-9	90	74	99	16	1	0	-416	65	99	16	3	-12	168	332	99
15	1	9	136	62	99	15	3	-9	-42	42	99	15	5	-8	-256	80	99	16	1	1	197	3	99	16	3	-11	-81	106	99
15	1	10	-174	18	99	15	3	-8	261	250	99	15	5	-7	144	8	99	16	1	2	251	234	99	16	3	-10	138	42	99
15	1	11	-26	31	99	15	3	-7	212	63	99	15	5	-6	-117	193	99	16	1	3	-296	97	99	16	3	-9	137	7	99
15	1	12	-77	157	99	15	3	-6	-165	180	99	15	5	-5	-190	60	99	16	1	4	306	259	99	16	3	-8	212	264	99
15	1	13	-145	38	99	15	3	-5	-277	42	99	15	5	-4	-293	112	99	16	1	5	197	1	99	16	3	-7	-143	83	99
15	1	14	-125	133	99	15	3	-4	167	76	99	15	5	-3	-164	38	99	16	1	6	149	116	99	16	3	-6	-114	183	99
15	2	-23	44	20	99	15	3	-3	-166	19	99	15	5	-2	-34	126	99	16	1	7	116	29	99	16	3	-5	172	37	99
15	2	-22	-78	31	99	15	3	-2	254	345	99	15	5	-1	127	26	99	16	1	8	-36	238	99	16	3	-4	-320	120	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
16	3	-1	-267	51	99	17	0	-16	170	315	99	17	2	-11	191	5	99	17	4	-7	-227	2	99	18	1	8	-110	135	99
16	3	-2	-60	330	99	17	0	-14	-201	101	99	17	2	-10	136	342	99	17	4	-6	-120	238	99	18	2	-19	92	11	99
16	3	-1	-240	53	99	17	0	-12	62	152	99	17	2	-9	-40	11	99	17	4	-5	-156	122	99	18	2	-18	142	28	99
16	3	0	-293	45	99	17	0	-10	150	324	99	17	2	-8	-376	17	99	17	4	-4	-142	179	99	18	2	-17	-117	30	99
16	3	1	41	54	99	17	0	-8	248	171	99	17	2	-7	247	58	99	17	4	-3	-57	50	99	18	2	-16	82	154	99
16	3	2	116	300	99	17	0	-6	447	474	99	17	2	-6	218	165	99	17	4	-2	136	78	99	18	2	-15	-151	76	99
16	3	3	179	42	99	17	0	-4	198	251	99	17	2	-5	-187	102	99	17	4	-1	-124	39	99	18	2	-14	-227	229	99
16	3	4	98	109	99	17	0	-2	153	207	99	17	2	-4	141	238	99	17	4	0	-211	142	99	18	2	-13	-384	119	99
16	3	5	162	7	99	17	0	0	107	215	99	17	2	-3	-105	14	99	17	4	1	-79	83	99	18	2	-12	138	122	99
16	3	6	-80	64	99	17	0	2	-146	118	99	17	2	-2	171	115	99	17	4	2	86	125	99	18	2	-11	-276	49	99
16	3	7	93	20	99	17	0	4	-208	265	99	17	2	-1	-181	69	99	17	4	3	98	87	99	18	2	-10	268	281	99
16	3	8	151	203	99	17	0	6	213	175	99	17	2	0	339	406	99	17	4	4	92	132	99	18	2	-9	187	50	99
16	3	9	60	45	99	17	0	8	156	153	99	17	2	1	-214	44	99	18	0	-20	-202	161	99	18	2	-8	-89	18	99
16	4	-17	-56	71	99	17	0	10	-25	108	99	17	2	2	-324	45	99	18	0	-18	-56	18	99	18	2	-7	-146	43	99
16	4	-16	71	142	99	17	1	-21	-93	24	99	17	2	3	-185	75	99	18	0	-16	312	198	99	18	2	-6	-74	195	99
16	4	-15	-187	18	99	17	1	-20	93	25	99	17	2	4	199	220	99	18	0	-14	-260	86	99	18	2	-5	-314	2	99
16	4	-14	103	130	99	17	1	-19	93	18	99	17	2	5	156	90	99	18	0	-12	75	128	99	18	2	-4	-85	152	99
16	4	-13	-50	7	99	17	1	-18	125	263	99	17	2	6	45	151	99	18	0	-10	413	415	99	18	2	-3	45	1	99
16	4	-12	-236	113	99	17	1	-17	-87	68	99	17	2	7	79	86	99	18	0	-8	65	73	99	18	2	-2	-169	203	99
16	4	-11	-125	71	99	17	1	-16	121	94	99	17	2	8	-40	7	99	18	0	-6	494	583	99	18	2	-1	-211	106	99
16	4	-10	151	224	99	17	1	-15	190	12	99	17	2	9	-144	39	99	18	0	-4	-149	207	99	18	2	0	-44	279	99
16	4	-9	134	113	99	17	1	-14	-365	240	99	17	3	-18	123	113	99	18	0	-2	-330	277	99	18	2	1	-163	23	99
16	4	-8	223	137	99	17	1	-13	-370	30	99	17	3	-17	98	43	99	18	0	0	-218	188	99	18	2	2	-199	97	99
16	4	-7	-250	17	99	17	1	-12	228	245	99	17	3	-16	-180	89	99	18	0	2	176	5	99	18	2	3	177	79	99
16	4	-6	-218	281	99	17	1	-11	160	71	99	17	3	-15	-232	16	99	18	0	4	212	195	99	18	2	4	160	192	99
16	4	-5	-73	194	99	17	1	-10	-443	78	99	17	3	-14	216	148	99	18	0	6	-100	49	99	18	2	5	-65	37	99
16	4	-4	291	297	99	17	1	-9	-308	129	99	17	3	-13	160	36	99	18	0	8	105	149	99	18	2	6	113	120	99
16	4	-3	-302	87	99	17	1	-8	79	339	99	17	3	-12	208	237	99	18	1	-20	127	67	99	18	2	7	-131	48	99
16	4	-2	-203	64	99	17	1	-7	170	26	99	17	3	-11	-71	18	99	18	1	-19	78	3	99	18	3	-17	-178	42	99
16	4	-1	-120	14	99	17	1	-6	-140	147	99	17	3	-10	-267	87	99	18	1	-18	225	230	99	18	3	-16	-103	62	99
16	4	0	171	191	99	17	1	-5	182	83	99	17	3	-9	-157	18	99	18	1	-17	-150	16	99	18	3	-15	153	48	99
16	4	1	177	67	99	17	1	-4	234	233	99	17	3	-8	31	266	99	18	1	-16	-84	78	99	18	3	-14	92	199	99
16	4	2	164	140	99	17	1	-3	-278	15	99	17	3	-7	44	68	99	18	1	-15	-88	29	99	18	3	-13	-238	19	99
16	4	3	-58	51	99	17	1	-2	120	302	99	17	3	-6	189	140	99	18	1	-14	211	232	99	18	3	-12	211	166	99
16	4	4	45	128	99	17	1	-1	-259	135	99	17	3	-5	-213	28	99	18	1	-13	-419	91	99	18	3	-11	176	8	99
16	4	5	133	22	99	17	1	0	-204	9	99	17	3	-4	-107	152	99	18	1	-12	-125	222	99	18	3	-10	-235	156	99
16	4	6	106	110	99	17	1	1	-232	74	99	17	3	-3	172	18	99	18	1	-11	203	90	99	18	3	-9	186	46	99
16	4	7	-116	51	99	17	1	2	-178	279	99	17	3	-2	215	269	99	18	1	-10	-243	105	99	18	3	-8	-36	277	99
16	5	-12	-196	85	99	17	1	3	58	79	99	17	3	-1	195	78	99	18	1	-9	-193	85	99	18	3	-7	120	101	99
16	5	-11	117	23	99	17	1	4	-377	163	99	17	3	0	143	41	99	18	1	-8	226	250	99	18	3	-6	-204	92	99
16	5	-10	125	66	99	17	1	5	120	79	99	17	3	1	-266	23	99	18	1	-7	-252	74	99	18	3	-5	-281	27	99
16	5	-9	136	72	99	17	1	6	-102	151	99	17	3	2	154	198	99	18	1	-6	162	66	99	18	3	-4	-119	197	99
16	5	-8	-166	124	99	17	1	7	108	52	99	17	3	3	-169	68	99	18	1	-5	224	98	99	18	3	-3	132	23	99
16	5	-7	-156	27	99	17	1	8	-65	190	99	17	3	4	-129	58	99	18	1	-4	200	205	99	18	3	-2	158	218	99
16	5	-6	148	142	99	17	1	9	97	22	99	17	3	5	107	4	99	18	1	-3	-337	76	99	18	3	-1	33	47	99
16	5	-5	134	23	99	17	1	10	57	22	99	17	3	6	-127	80	99	18	1	-2	-186	248	99	18	3	0	-56	39	99
16	5	-4	115	167	99	17	2	-20	-214	174	99	17	3	7	36	14	99	18	1	-1	-258	94	99	18	3	1	-197	50	99
16	5	-3	129	42	99	17	2	-19	-185	11	99	17	4	-15	-180	28	99	18	1	0	-17	88	99	18	3	2	137	151	99
16	5	-2	-205	110	99	17	2	-18	186	23	99	17	4	-14	114	66	99	18	1	1	-163	41	99	18	3	3	106	47	99
16	5	-1	70	20	99	17	2	-17	-167	18	99	17	4	-13	66	41	99	18	1	2	216	310	99	18	3	4	128	18	99
16	5	0	-69	37	99	17	2	-16	196	138	99	17	4	-12	-228	99	99	18	1	3	-213	60	99	18	3	5	73	9	99
16	5	1	-97	0	99	17	2	-15	223	64	99	17	4	-11	126	2	99	18	1	4	106	69	99	18	4	-12	132	66	99
17	0	-22	-104	13	99	17	2	-14	142	284	99	17	4	-10	98	150	99	18	1	5	-145	46	99	18	4	-11	-177	50	99
17	0	-20	-32	191	99	17	2	-13	-186	131	99	17	4	-9	217	65	99	18	1	6	-118	182	99	18	4	-10	15	87	99
17	0	-18	226	70	99	17	2	-12	-188	95	99	17	4	-8	97	87	99	18	1	7	-96	26	99	18	4	-9	134	66	99
18	4	-8	28	52	99	19	2	-9	73	49	99	20	1	-4	155	198	99												
18	4	-7	-152	14	99	19	2	-8	-287	38	99	20	1	-3	-78	61	99												
18	4	-6	114	179	99	19	2	-7	-121	1	99	20	1	-2	168	105	99												
18	4	-5	122	70	99	19	2	-6	151	209	99	20	1	-1	-73	17	99												
18	4	-4	155	65	99	19	2	-5	-67	65	99	20	1	0	98	169	99												
18	4	-3	-41	26	99	19	2	-4	93	102	99	20	1	1	88	60	99												
18	4	-2	-161	77	99	19	2	-3	152	10	99	20	1	2	28	176	99												
18	4	-1	9	53	99	19	2	-2	-135	200	99	20	1	3	-67	3	99												
18	4	0	-125	83	99	19	2	-1	113	87	99	20	2	-14	107	31	99												
19	0	-18	59	46	99	19	2	0	82	211	99	20	2	-13	-87	29	99												
19	0	-16	174	154	99	19	2	1	-287	46	99	20	2	-12	73	157	99												
19	0	-14	-340	26	99	19	2	2	-94	87	99	20	2	-11	47	46	99												
19	0	-12	-214	188	99	19	2	3	-97	35	99	20	2	-10	-168	139	99												
19	0	-10	187	288	99	19	2	4	96	183	99	20	2	-9	60	8	99												
19	0	-8	80	79	99	19	2	5	-133	3	99	20	2	-8	-230	76	99												
19	0	-6	379	417	99	19	3	-14	89	182	99	20	2	-7	-236	2	99												
19	0	-4	-40	120	99	19	3	-13	-51	19	99	20	2	-6	-139	170	99												
19	0	-2	-187	167	99	19	3	-12	-167	105	99	20	2	-5	-83	49	99												
19	0	0	-253	149	99	19	3	-11	157	31	99	20	2	-4	-216	41	99												
19	0	2	-247	64	99	19	3	-10	-138	157	99	20	2	-3	-47	31	99												
19	0	4	95	134	99	19	3	-9	-155	85	99	20	2	-2	39	134	99												
19	0	6	-130	81	99	19	3	-8	215	265	99	20	2	-1	99	24	99												
19	1	-18	95	193	99	19	3	-7	-208	116	99	20	2	0	-82	135	99												
19	1	-17	29	11	99	19	3	-6	177	44	99	20	2	1	-122	4	99												
19	1	-16	-119	22	99	19	3	-5	-123	71	99	20	3	-9	-86	32	99												
19	1	-15	-401	46	99	19	3	-4	17	221	99	20	3	-8	101	191	99												
19	1	-14	-246	219	99	19	3	-3	112	52	99	20	3	-7	66	61	99												
19	1	-13	-131	88	99	19	3	-2	-184	183	99	20	3	-6	-36	11	99												
19	1	-12	-44	150	99	19	3	-1	72	46	99	20	3	-5	-116	25	99												
19	1	-11	149	58	99	19	3	0	80	53	99	20	3	-4	-82	171	99												
19	1	-10	101	119	99	19	3	1	79	3	99	21	0	-12	-128	203	99												
19	1	-9	-52	4	99	19	3	2	75	149	99	21	0	-10	-110	47	99												
19	1	-8	34	169	99	20	0	-16	-28	156	99	21	0	-8	113	92	99												
19	1	-7	-62	66	99	20	0	-14	-119	9	99	21	0	-6	160	168	99												
19	1	-6	23	24	99	20	0	-12	143	227	99	21	0	-4	85	61	99												
19	1	-5	147	99	99	20	0	-10	-141	141	99	21	0	-2	93	190	99												
19	1	-4	133	175	99	20	0	-8	-65	124	99	21	0	0	-48	107	99												
19	1	-3	166	84	99	20	0	-6	38	270	99	21	1	-13	82	66	99												
19	1	-2	-229	188	99	20	0	-4	167	97	99	21	1	-12	74	116	99												
19	1	-1	104	25	99	20	0	-2	-121	182	99	21	1	-11	65	4	99												
19	1	0	-205	116	99	20	0	0	130	145	99	21	1	-10	-69	150	99												
19	1	1	147	60	99	20	0	2	-243	22	99	21	1	-9	-107	50	99												
19	1	2	-50	269	99	20	0	4	34	111	99	21	1	-8	80	184	99												
19	1	3	150	33	99	20	1	-16	-133	6	99	21	1	-7	-198	5	99												
19	1	4	96	48	99	20	1	-15	-31	23	99	21	1	-6	51	67	99												
19	1	5	-151	60	99	20	1	-14	-64	188	99	21	1	-5	46	33	99												
19	1	6	81	181	99	20	1	-13	-134	72	99	21	1	-4	-227	218	99												
19	2	-17	91	51	99	20	1	-12	75	117	99	21	1	-3	112	61	99												
19	2	-16	159	167	99	20	1	-11	-103	43	99	21	1	-2	144	18	99												
19	2	-15	163	69	99	20	1	-10	-192	123	99	21	1	-1	-57	68	99												
19	2	-14	140	135	99	20	1	-9	90	62	99	21	2	-9	92	10	99												
19	2	-13	42	62	99	20	1	-8	198	161	99	21	2	-8	111	127	99												
19	2	-12	102	151	99	20	1	-7	43	52	99	21	2	-7	-55	51	99												
19	2	-11	-288	75	99	20	1	-6	-149	9	99	21	2	-6	34	180	99												
19	2	-10	168	218	99	20	1	-5	-245	88	99	21	2	-5	-63	55	99												

APPENDIX 4.IV

$[Te(S_2COCH_2Ph)_2]$

Table 4.IV.1: Crystallographic Parameters for $[Te(S_2COCH_2C_6H_5)_2]$

Formula	$C_{16}H_{14}O_2S_4Te$
Formula weight	494.13
Crystal morphology / colour	block / red
Crystal dimensions (mm)	0.10 x 0.19 x 0.48
Crystal system	monoclinic
Space group	$P2_1/n$ (#14)
a (Å)	8.28(1)
b (Å)	5.66(1)
c (Å)	38.19(1)
α (°)	90
β (°)	91.7(1)
γ (°)	90
V (Å^3)	1789(3)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.834
$F(000)$	968
Temperature (°K)	200
μ (cm^{-1})	21.19
θ limits, cell (°)	26.0 — 27.5
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 10, 0 – 6, -35 – 35
Range of transmission factors	0.962 – 1
Scan technique	ω:2θ
No. of data measured	4260
No. of unique data	4012
R_{amal}	0.048
No. of parameters	208
R (I≥0σ(I))	0.068
R_w (I≥0σ(I))	0.104
R (I≥3σ(I))	0.037
R_w (I≥3σ(I))	0.054
Maximum and minimum residual electron density (e Å^{-3})	0.79, -0.90

Table 4.IV.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Te(S_2COCH_2C_6H_5)_2]$

Atom	*x*	*y*	*z*
Te	0.57513(3)	0.53630(5)	0.739625(8)
S(1)	0.3893(1)	0.8018(2)	0.77269(3)
S(2)	0.5275(2)	0.3842(2)	0.80870(4)
S(3)	0.5163(1)	0.8374(2)	0.69179(3)
S(4)	0.7151(1)	0.4216(2)	0.67406(4)
O(1)	0.3475(4)	0.6858(6)	0.83903(9)
O(2)	0.6458(4)	0.7897(6)	0.63275(9)
C(1)	0.4149(5)	0.6283(8)	0.8092(1)
C(2)	0.2404(6)	0.8905(9)	0.8400(1)
C(3)	0.2094(6)	0.9346(8)	0.8779(1)
C(4)	0.2704(6)	1.1380(9)	0.8944(1)
C(5)	0.2431(7)	1.1765(10)	0.9297(1)
C(6)	0.1571(7)	1.013(1)	0.9483(1)
C(7)	0.0956(7)	0.812(1)	0.9321(2)
C(8)	0.1208(6)	0.7753(9)	0.8972(1)
C(9)	0.6316(5)	0.6801(8)	0.6633(1)
C(10)	0.7474(6)	0.6786(9)	0.6073(1)
C(11)	0.7855(6)	0.8580(9)	0.5796(1)
C(12)	0.8799(7)	1.0553(10)	0.5881(1)
C(13)	0.9212(7)	1.2145(10)	0.5625(2)
C(14)	0.8712(7)	1.181(1)	0.5287(2)
C(15)	0.7782(8)	0.987(1)	0.5199(2)
C(16)	0.7348(7)	0.8260(10)	0.5454(1)

Table 4.IV.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Te(S_2COCH_2C_6H_5)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Te	0.0219(2)	0.0229(2)	0.0233(2)	-0.0008(1)	-0.0001(1)	-0.0002(1)
S(1)	0.0311(6)	0.0265(6)	0.0256(7)	0.0073(5)	0.0000(5)	0.0021(5)
S(2)	0.0326(7)	0.0274(6)	0.0303(8)	0.0107(5)	0.0030(5)	0.0044(5)
S(3)	0.0295(6)	0.0236(6)	0.0303(8)	0.0029(5)	0.0023(5)	0.0019(5)
S(4)	0.0278(6)	0.0218(6)	0.0326(8)	0.0022(4)	0.0012(5)	0.0030(5)
O(1)	0.029(2)	0.029(2)	0.025(2)	0.011(1)	0.004(1)	0.003(1)
O(2)	0.033(2)	0.027(2)	0.023(2)	0.004(1)	0.006(1)	0.004(1)
C(1)	0.021(2)	0.025(2)	0.019(3)	0.002(2)	0.003(2)	-0.003(2)
C(2)	0.029(2)	0.026(2)	0.030(3)	0.010(2)	0.000(2)	0.004(2)
C(3)	0.024(2)	0.028(2)	0.031(3)	0.009(2)	-0.003(2)	-0.001(2)
C(4)	0.033(3)	0.029(3)	0.042(4)	0.004(2)	0.000(2)	-0.001(2)
C(5)	0.053(4)	0.037(3)	0.030(4)	0.007(3)	-0.003(3)	-0.009(2)
C(6)	0.050(3)	0.054(4)	0.022(3)	0.015(3)	0.002(2)	0.001(3)
C(7)	0.039(3)	0.050(3)	0.034(4)	0.006(3)	0.007(2)	0.013(3)
C(8)	0.031(3)	0.035(3)	0.032(3)	0.001(2)	0.004(2)	0.001(2)
C(9)	0.025(2)	0.022(2)	0.017(3)	-0.003(2)	0.001(2)	0.002(2)
C(10)	0.040(3)	0.029(3)	0.028(3)	0.000(2)	0.010(2)	-0.002(2)
C(11)	0.029(3)	0.030(3)	0.027(3)	0.001(2)	0.006(2)	0.003(2)
C(12)	0.041(3)	0.037(3)	0.027(3)	-0.003(2)	-0.002(2)	-0.001(2)
C(13)	0.040(3)	0.034(3)	0.041(4)	-0.008(2)	0.008(2)	0.001(2)
C(14)	0.046(3)	0.040(3)	0.042(4)	-0.004(3)	0.012(3)	0.006(3)
C(15)	0.068(4)	0.055(4)	0.022(3)	-0.016(3)	-0.003(3)	0.007(3)
C(16)	0.049(3)	0.041(3)	0.028(3)	-0.012(3)	-0.002(2)	0.000(2)

Table 4.IV.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Te(S_2COCH_2C_6H_5)2]$*

Atom	*x*	*y*	*z*	*B*eq
H(2a)	0.2918	1.0270	0.8298	2.6770
H(2b)	0.1398	0.8573	0.8273	2.6770
H(4a)	0.3316	1.2520	0.8812	3.2669
H(5a)	0.2844	1.3179	0.9412	3.8070
H(6a)	0.1395	1.0391	0.9731	3.9554
H(7a)	0.0349	0.6981	0.9453	3.8681
H(8a)	0.0762	0.6356	0.8859	3.0730
H(10a)	0.8467	0.6240	0.6187	3.0587
H(10b)	0.6909	0.5454	0.5966	3.0587
H(12a)	0.9167	1.0807	0.6122	3.3102
H(13a)	0.9864	1.3514	0.5688	3.6168
H(14a)	0.9010	1.2932	0.5108	4.0069
H(15a)	0.7425	0.9631	0.4958	4.5960
H(16a)	0.6686	0.6904	0.5390	3.7344

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 4.IV.5: Bond distances (Å) for $[Te(S_2COCH_2C_6H_5)_2]$

Te — S(1)	2.518(2)	C(3) — C(4)	1.399(7)
Te — S(2)	2.814(1)	C(3) — C(8)	1.389(7)
Te — S(3)	2.535(1)	C(4) — C(5)	1.392(8)
Te — S(4)	2.866(2)	C(5) — C(6)	1.378(8)
S(1) — C(1)	1.713(5)	C(6) — C(7)	1.386(9)
S(2) — C(1)	1.667(5)	C(7) — C(8)	1.369(8)
S(3) — C(9)	1.719(5)	C(10) — C(11)	1.506(7)
S(4) — C(9)	1.665(5)	C(11) — C(12)	1.396(7)
O(1) — C(1)	1.324(5)	C(11) — C(16)	1.371(8)
O(1) — C(2)	1.460(5)	C(12) — C(13)	1.380(8)
O(2) — C(9)	1.328(5)	C(13) — C(14)	1.358(8)
O(2) — C(10)	1.449(6)	C(14) — C(15)	1.376(8)
C(2) — C(3)	1.499(7)	C(15) — C(16)	1.390(8)

Table 4.IV.6: Bond angles (deg.) for [Te($S_2COCH_2C_6H_5$)2]

S(1) — Te — S(2)	66.87(4)	C(4) — C(3) — C(8)	119.0(5)
S(1) — Te — S(3)	81.54(4)	C(3) — C(4) — C(5)	119.8(5)
S(1) — Te — S(4)	147.47(4)	C(4) — C(5) — C(6)	119.9(5)
S(2) — Te — S(3)	148.41(4)	C(5) — C(6) — C(7)	120.5(5)
S(2) — Te — S(4)	145.26(4)	C(6) — C(7) — C(8)	119.7(5)
S(3) — Te — S(4)	66.22(5)	C(3) — C(8) — C(7)	121.1(5)
Te — S(1) — C(1)	90.2(2)	S(3) — C(9) — S(4)	122.2(3)
Te — S(2) — C(1)	81.5(2)	S(3) — C(9) — O(2)	112.3(3)
Te — S(3) — C(9)	90.6(2)	S(4) — C(9) — O(2)	125.5(3)
Te — S(4) — C(9)	80.9(2)	O(2) — C(10) — C(11)	108.5(4)
C(1) — O(1) — C(2)	119.3(4)	C(10) — C(11) — C(12)	120.2(5)
C(9) — O(2) — C(10)	117.0(4)	C(10) — C(11) — C(16)	120.9(5)
S(1) — C(1) — S(2)	121.4(3)	C(12) — C(11) — C(16)	118.7(5)
S(1) — C(1) — O(1)	120.9(3)	C(11) — C(12) — C(13)	120.4(5)
S(2) — C(1) — O(1)	117.6(3)	C(12) — C(13) — C(14)	120.5(5)
O(1) — C(2) — C(3)	106.2(4)	C(13) — C(14) — C(15)	119.6(5)
C(2) — C(3) — C(4)	120.1(5)	C(14) — C(15) — C(16)	120.5(5)
C(2) — C(3) — C(8)	120.9(5)	C(11) — C(16) — C(15)	120.1(5)

Table 4.IV.7: Observed and calculated structure factors for $[Te(S_2COCH_2C_6H_5)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	6	1307	1222	99	0	2	5	871	866	99	0	3	25	933	954	99	0	5	9	541	534	99	0	6	28	163	151	99
0	0	8	190	147	99	0	2	6	816	826	99	0	3	26	291	285	99	0	5	10	724	731	99	0	7	1	67	97	99
0	0	10	966	903	99	0	2	7	1331	1386	99	0	3	27	648	676	99	0	5	11	278	288	99	0	7	2	139	133	99
0	0	12	1446	1406	99	0	2	8	1102	1143	99	0	3	28	205	207	99	0	5	12	835	837	99	0	7	3	280	259	99
0	0	14	1796	1788	99	0	2	9	1122	1132	99	0	3	29	282	265	99	0	5	13	316	321	99	0	7	4	133	127	99
0	0	16	1284	1272	99	0	2	10	860	863	99	0	3	30	46	132	99	0	5	14	711	701	99	0	7	5	287	287	99
0	0	18	362	346	99	0	2	11	562	593	99	0	3	31	399	404	99	0	5	15	228	215	99	0	7	6	103	126	99
0	0	20	66	71	99	0	2	12	1098	1115	99	0	3	32	56	120	99	0	5	16	496	496	99	0	7	7	135	141	99
0	0	22	-57	6	99	0	2	13	546	510	99	0	3	33	502	513	99	0	5	17	292	289	99	0	7	8	123	116	99
0	0	24	649	631	99	0	2	14	1069	1070	99	0	3	34	269	270	99	0	5	18	478	464	99	0	7	9	64	2	99
0	0	26	649	647	99	0	2	15	116	123	99	0	3	35	481	486	99	0	5	19	327	318	99	0	7	10	167	143	99
0	0	28	795	808	99	0	2	16	637	658	99	0	4	0	128	121	99	0	5	20	434	426	99	0	7	11	143	150	99
0	0	30	671	662	99	0	2	17	359	354	99	0	4	1	854	867	99	0	5	21	501	497	99	0	7	12	213	231	99
0	0	32	327	314	99	0	2	18	568	570	99	0	4	2	208	212	99	0	5	22	465	455	99	0	7	13	63	59	99
0	0	34	124	135	99	0	2	19	163	150	99	0	4	3	1024	1064	99	0	5	23	446	451	99	0	7	14	283	288	99
0	1	-17	1990	2039	99	0	2	20	307	295	99	0	4	4	723	758	99	0	5	24	473	473	99	0	7	15	91	76	99
0	1	-15	1880	1976	99	0	2	21	630	620	99	0	4	5	1233	1273	99	0	5	25	246	234	99	1	0	-35	524	494	99
0	1	-13	1637	1657	99	0	2	22	117	108	99	0	4	6	971	995	99	0	5	26	520	533	99	1	0	-33	124	74	99
0	1	-11	1551	1541	99	0	2	23	449	452	99	0	4	7	1080	1112	99	0	5	27	78	51	99	1	0	-31	666	682	99
0	1	1	133	124	94	0	2	24	390	383	99	0	4	8	1085	1141	99	0	5	28	565	573	99	1	0	-29	1215	1232	99
0	1	2	316	283	99	0	2	25	156	165	99	0	4	9	573	582	99	0	5	29	-35	13	99	1	0	-27	1379	1413	99
0	1	3	701	669	99	0	2	26	303	299	99	0	4	10	826	886	99	0	5	30	417	416	99	1	0	-25	1393	1451	99
0	1	4	185	167	99	0	2	27	318	302	99	0	4	11	319	320	99	0	5	31	-58	15	99	1	0	-23	962	968	99
0	1	5	92	80	91	0	2	28	145	146	99	0	4	12	320	325	99	0	5	32	465	458	99	1	0	-21	673	700	99
0	1	6	85	71	99	0	2	29	71	69	99	0	4	13	-31	53	99	0	5	33	20	10	99	1	0	-19	1344	1362	99
0	1	7	406	399	99	0	2	30	128	142	99	0	4	14	50	44	99	0	5	34	368	387	99	1	0	-17	1916	1983	99
0	1	8	308	288	99	0	2	31	142	147	99	0	4	15	253	241	99	0	5	35	94	114	99	1	0	-15	1362	1364	99
0	1	9	716	696	99	0	2	32	490	476	99	0	4	16	-56	37	99	0	6	0	296	305	99	1	0	-13	1771	1773	99
0	1	10	70	10	99	0	2	33	268	299	99	0	4	17	463	485	99	0	6	1	587	595	99	1	0	-11	1235	1175	99
0	1	12	612	602	99	0	2	34	768	780	99	0	4	18	99	83	99	0	6	2	70	86	99	1	0	-9	1128	1067	99
0	1	14	972	978	99	0	2	35	368	385	99	0	4	19	556	537	99	0	6	3	510	513	99	1	0	-7	101	85	99
0	1	16	409	397	99	0	3	1	291	286	99	0	4	20	-62	10	99	0	6	4	251	258	99	1	0	-5	705	617	99
0	1	18	197	174	99	0	3	2	34	76	99	0	4	21	-27	94	99	0	6	5	485	496	99	1	0	5	746	630	99
0	1	19	679	668	99	0	3	3	598	594	99	0	4	22	-59	25	99	0	6	6	227	230	99	1	0	7	299	244	99
0	1	20	914	870	99	0	3	4	53	18	99	0	4	23	403	410	99	0	6	7	246	258	99	1	0	9	164	137	99
0	1	21	544	539	99	0	3	5	866	881	99	0	4	24	130	108	99	0	6	8	-16	53	99	1	0	11	593	623	99
0	1	22	686	669	99	0	3	6	770	804	99	0	4	25	265	265	99	0	6	9	267	272	99	1	0	13	453	430	99
0	1	23	693	660	99	0	3	7	427	451	99	0	4	26	304	304	99	0	6	10	76	63	99	1	0	15	307	294	99
0	1	24	462	473	99	0	3	8	874	883	99	0	4	27	460	444	99	0	6	11	530	517	99	1	0	17	427	433	99
0	1	25	835	832	99	0	3	9	126	110	99	0	4	28	36	30	99	0	6	12	52	59	99	1	0	19	418	454	99
0	1	26	389	416	99	0	3	10	659	701	99	0	4	29	246	233	99	0	6	13	449	447	99	1	0	21	1355	1385	99
0	1	27	1090	1087	99	0	3	11	317	328	99	0	4	30	158	151	99	0	6	14	70	36	99	1	0	23	796	815	99
0	1	28	-204	26	99	0	3	12	584	591	99	0	4	31	190	189	99	0	6	15	313	328	99	1	0	25	494	523	99
0	1	29	1409	1395	99	0	3	13	192	174	99	0	4	32	303	295	99	0	6	16	47	28	99	1	0	27	827	851	99
0	1	30	156	279	99	0	3	14	491	504	99	0	4	33	123	128	99	0	6	17	375	360	99	1	0	29	1103	1131	99
0	1	31	1050	1044	99	0	3	15	73	75	99	0	4	34	427	421	99	0	6	18	161	138	99	1	0	31	1159	1182	99
0	1	32	-99	46	99	0	3	16	439	431	99	0	4	35	67	122	99	0	6	19	355	371	99	1	0	33	1161	1181	99
0	1	33	677	693	99	0	3	17	531	552	99	0	5	1	34	60	99	0	6	20	180	169	99	1	0	35	867	915	99
0	1	34	168	161	99	0	3	18	482	504	99	0	5	2	369	368	99	0	6	21	297	285	99	1	1	-35	209	127	99
0	1	35	331	357	99	0	3	19	1059	1064	99	0	5	3	-68	34	99	0	6	22	121	110	99	1	1	-34	705	697	99
0	2	0	463	462	99	0	3	20	701	717	99	0	5	4	58	14	99	0	6	23	220	197	99	1	1	-33	347	331	99
0	2	1	416	415	99	0	3	21	1217	1252	99	0	5	5	148	146	99	0	6	24	181	168	99	1	1	-32	649	636	99
0	2	2	1149	1175	99	0	3	22	1116	1146	99	0	5	6	139	128	99	0	6	25	-81	30	99	1	1	-31	225	192	99
0	2	3	34	34	99	0	3	23	781	774	99	0	5	7	591	603	99	0	6	26	255	240	99	1	1	-30	912	911	99
0	2	4	1375	1442	99	0	3	24	846	855	99	0	5	8	181	193	99	0	6	27	214	180	99	1	1	-29	237	133	99
1	1	-28	905	926	99	1	1	27	276	270	99	1	2	11	614	590	99	1	3	-5	743	768	99	1	4	-21	768	778	99
1	1	-27	389	368	99	1	1	28	356	341	99	1	2	12	678	672	99	1	3	-4	1065	1088	99	1	4	-20	982	987	99
1	1	-26	463	456	99	1	1	29	597	613	99	1	2	13	322	330	99	1	3	-3	747	767	99	1	4	-19	578	594	99
1	1	-25	557	548	99	1	1	30	459	445	99	1	2	14	654	638	99	1	3	-2	892	912	99	1	4	-18	959	986	99
1	1	-24	288	292	99	1	1	31	287	282	99	1	2	15	1183	1177	99	1	3	-1	438	437	99	1	4	-17	521	537	99
1	1	-23	280	287	99	1	1	32	76	77	99	1	2	16	741	736	99	1	3	0	1001	1033	99	1	4	-16	517	517	99
1	1	-22	153	142	99	1	1	33	243	243	99	1	2	17	1037	1014	99	1	3	1	132	144	99	1	4	-15	326	335	99
1	1	-21	463	475	99	1	1	34	86	97	99	1	2	18	492	502	99	1	3	2	1346	1376	99	1	4	-14	38	32	99
1	1	-20	144	119	99	1	1	35	227	240	99	1	2	19	970	932	99	1	3	3	190	196	99	1	4	-13	294	289	99
1	1	-19	-17	33	99	1	2	-35	-55	45	99	1	2	20	356	334	99	1	3	4	959	1013	99	1	4	-12	242	227	99
1	1	-18	8	18	99	1	2	-34	-36	32	99	1	2	21	732	723	99	1	3	5	798	797	99	1	4	-11	359	362	99
1	1	-17	64	71	99	1	2	-33	263	262	99	1	2	22	243	248	99	1	3	6	1339	1371	99	1	4	-10	530	532	99
1	1	-16	211	191	99	1	2	-32	361	359	99	1	2	23	852	852	99	1	3	7	1006	1032	99	1	4	-9	685	671	99
1	1	-15	393	371	99	1	2	-31	379	374	99	1	2	24	489	489	99	1	3	8	1437	1432	99	1	4	-8	646	625	99
1	1	-14	424	409	99	1	2	-30	181	159	99	1	2	25	904	903	99	1	3	9	842	843	99	1	4	-7	586	592	99
1	1	-13	303	287	99	1	2	-29	473	469	99	1	2	26	538	516	99	1	3	10	796	840	99	1	4	-6	825	840	99
1	1	-12	891	890	99	1	2	-28	121	76	99	1	2	27	673	679	99	1	3	11	842	842	99	1	4	-5	398	403	99
1	1	-11	257	242	99	1	2	-27	682	700	99	1	2	28	431	417	99	1	3	12	872	867	99	1	4	-4	356	361	99
1	1	-10	1222	1162	99	1	2	-26	217	178	99	1	2	29	746	737	99	1	3	13	653	640	99	1	4	-3	428	439	99
1	1	-9	220	190	99	1	2	-25	563	548	99	1	2	30	357	360	99	1	3	14	696	702	99	1	4	-2	410	405	99
1	1	-8	697	641	99	1	2	-24	230	227	99	1	2	31	807	806	99	1	3	15	84	68	99	1	4	-1	308	309	99
1	1	-7	14	30	99	1	2	-23	662	665	99	1	2	32	-122	54	99	1	3	16	720	716	99	1	4	0	160	143	99
1	1	-6	1169	1100	99	1	2	-22	609	620	99	1	2	33	740	741	99	1	3	17	159	162	99	1	4	1	53	76	99
1	1	-5	408	370	99	1	2	-21	624	643	99	1	2	34	248	273	99	1	3	18	836	824	99	1	4	2	156	167	99
1	1	-4	108	123	99	1	2	-20	568	561	99	1	2	35	459	458	99	1	3	19	566	565	99	1	4	3	50	8	99
1	1	-3	123	103	99	1	2	-19	593	605	99	1	3	-35	618	611	99	1	3	20	713	679	99	1	4	4	140	126	99
1	1	-2	1683	1791	99	1	2	-18	143	383	99	1	3	-34	407	407	99	1	3	21	542	537	99	1	4	5	-38	16	99
1	1	-1	644	618	99	1	2	-17	1176	1220	99	1	3	-33	598	590	99	1	3	22	33	26	99	1	4	6	83	96	99
1	1	0	2199	2388	99	1	2	-16	-204	326	99	1	3	-32	352	321	99	1	3	23	747	725	99	1	4	7	44	55	99
1	1	1	1705	1720	99	1	2	-15	1177	1193	99	1	3	-31	284	274	99	1	3	24	141	135	99	1	4	8	276	274	99
1	1	2	1119	1070	99	1	2	-14	574	563	99	1	3	-30	410	422	99	1	3	25	651	627	99	1	4	9	96	69	99
1	1	3	1624	1602	99	1	2	-13	1990	2014	99	1	3	-29	132	43	99	1	3	26	127	115	99	1	4	10	148	145	99
1	1	4	2460	2500	99	1	2	-12	597	585	99	1	3	-28	464	481	99	1	3	27	198	189	99	1	4	11	89	77	99
1	1	5	585	544	99	1	2	-11	1802	1829	99	1	3	-27	186	123	99	1	3	28	35	62	99	1	4	12	78	79	99
1	1	6	1311	1298	99	1	2	-10	904	881	99	1	3	-26	242	243	99	1	3	29	86	68	99	1	4	13	54	38	99
1	1	7	91	20	99	1	2	-9	808	814	99	1	3	-25	390	404	99	1	3	30	198	179	99	1	4	14	150	136	99
1	1	8	889	882	99	1	2	-8	1392	1378	99	1	3	-24	450	441	99	1	3	31	96	90	99	1	4	15	229	229	99
1	1	9	940	917	99	1	2	-7	1197	1199	99	1	3	-23	418	411	99	1	3	32	278	273	99	1	4	16	53	31	99
1	1	10	937	912	99	1	2	-6	1014	993	99	1	3	-22	546	553	99	1	3	33	69	13	99	1	4	17	209	198	99
1	1	11	842	831	99	1	2	-5	1230	1240	99	1	3	-21	70	37	99	1	3	34	105	86	99	1	4	18	151	132	99
1	1	12	1459	1412	99	1	2	-4	691	675	99	1	3	-20	437	465	99	1	3	35	-78	5	99	1	4	19	414	398	99
1	1	13	367	372	99	1	2	-3	943	959	99	1	3	-19	71	67	99	1	4	-35	221	204	99	1	4	20	343	335	99
1	1	14	1660	1626	99	1	2	-2	28	16	99	1	3	-18	209	225	99	1	4	-34	496	469	99	1	4	21	364	374	99
1	1	15	302	296	99	1	2	-1	959	966	99	1	3	-17	134	131	99	1	4	-33	309	250	99	1	4	22	676	639	99
1	1	16	1647	1617	99	1	2	0	103	92	99	1	3	-16	157	153	99	1	4	-32	339	333	99	1	4	23	436	417	99
1	1	17	226	207	99	1	2	1	947	936	99	1	3	-15	413	385	99	1	4	-31	284	241	99	1	4	24	536	484	99
1	1	18	1146	1143	99	1	2	2	572	538	99	1	3	-14	143	147	99	1	4	-30	333	327	99	1	4	25	444	441	99
1	1	19	-10	10	99	1	2	3	1004	975	99	1	3	-13	344	340	99	1	4	-29	184	127	99	1	4	26	605	597	99
1	1	20	819	799	99	1	2	4	212	211	99	1	3	-12	218	212	99	1	4	-28	279	279	99	1	4	27	314	306	99
1	1	21	115	96	99	1	2	5	83	61	99	1	3	-11	183	191	99	1	4	-27	322	324	99	1	4	28	654	669	99
1	1	22	540	535	99	1	2	6	326	320	99	1	3	-10	197	191	99	1	4	-26	297	266	99	1	4	29	427	406	99
1	1	23	61	19	99	1	2	7	92	98	99	1	3	-9	301	291	99	1	4	-25	376	357	99	1	4	30	315	311	99
1	1	24	362	355	99	1	2	8	385	369	99	1	3	-8	363	377	99	1	4	-24	944	941	99	1	4	31	283	275	99
1	1	25	161	164	99	1	2	9	536	521	99	1	3	-7	766	744	99	1	4	-23	557	535	99	1	4	32	230	246	99
1	1	26	292	290	99	1	2	10	277	292	99	1	3	-6	582	577	99	1	4	-22	958	975	99	1	4	33	171	189	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	4	34	411	418	99	1	5	18	201	220	99	1	6	9	216	213	99	2	0	-22	858	861	99	2	1	-8	45	57	99
1	4	35	404	410	99	1	5	19	387	387	99	1	6	10	407	403	99	2	0	-20	344	339	99	2	1	-7	1430	1420	99
1	5	-35	547	529	99	1	5	20	140	144	99	1	6	11	63	20	99	2	0	-18	165	147	99	2	1	-6	870	820	99
1	5	-34	467	410	99	1	5	21	359	341	99	1	6	12	338	349	99	2	0	-16	306	315	99	2	1	-5	1151	1148	99
1	5	-33	491	487	99	1	5	22	550	552	99	1	6	13	-36	74	99	2	0	-14	1167	1118	99	2	1	-4	1280	1294	99
1	5	-32	319	235	99	1	5	23	452	448	99	1	6	14	383	377	99	2	0	-12	1392	1352	99	2	1	-3	273	273	99
1	5	-31	299	294	99	1	5	24	603	576	99	1	6	15	108	82	99	2	0	-10	1141	1102	99	2	1	-2	704	674	99
1	5	-30	171	110	99	1	5	25	277	275	99	1	6	16	460	451	99	2	0	-8	428	368	99	2	1	-1	1116	1113	99
1	5	-29	320	325	99	1	5	26	476	473	99	1	6	17	50	15	99	2	0	-6	437	399	99	2	1	0	614	584	99
1	5	-28	96	76	99	1	5	27	186	177	99	1	6	18	370	358	99	2	0	-4	392	306	99	2	1	1	1923	2031	99
1	5	-27	244	229	99	1	5	28	127	119	99	1	6	19	-90	17	99	2	0	-2	1727	1782	99	2	1	2	709	680	99
1	5	-26	88	35	99	1	5	29	102	111	99	1	6	20	345	346	99	2	0	0	286	256	99	2	1	3	2182	2616	99
1	5	-25	135	122	99	1	5	30	89	69	99	1	6	21	145	135	99	2	0	2	2110	2384	99	2	1	4	1932	1996	99
1	5	-24	133	116	99	1	5	31	100	62	99	1	6	22	413	386	99	2	0	6	1385	1272	99	2	1	5	1486	1470	99
1	5	-23	305	314	99	1	5	32	-46	42	99	1	6	23	175	154	99	2	0	8	589	554	99	2	1	6	-54	27	99
1	5	-22	134	124	99	1	5	33	91	76	99	1	6	24	485	492	99	2	0	10	1058	986	99	2	1	7	991	970	99
1	5	-21	151	166	99	1	5	34	65	28	99	1	6	25	209	207	99	2	0	12	1502	1422	99	2	1	8	686	650	99
1	5	-20	151	144	99	1	5	35	111	109	99	1	6	26	531	519	99	2	0	14	1652	1662	99	2	1	9	-55	53	99
1	5	-19	86	102	99	1	6	-28	238	234	99	1	6	27	182	160	99	2	0	16	2444	2590	99	2	1	10	573	570	99
1	5	-18	69	66	99	1	6	-27	111	91	99	1	6	28	372	376	99	2	0	18	2253	2365	99	2	1	11	354	363	99
1	5	-17	-40	19	99	1	6	-26	232	222	99	1	7	-14	-79	19	99	2	0	20	1746	1807	99	2	1	12	518	496	99
1	5	-16	78	70	99	1	6	-25	80	64	99	1	7	-13	95	123	99	2	0	22	551	573	99	2	1	13	96	105	99
1	5	-15	92	94	99	1	6	-24	193	225	99	1	7	-12	163	178	99	2	0	24	38	53	99	2	1	14	320	300	99
1	5	-14	63	17	99	1	6	-23	289	295	99	1	7	-11	51	44	99	2	0	26	176	179	99	2	1	15	359	326	99
1	5	-13	157	140	99	1	6	-22	350	358	99	1	7	-10	189	175	99	2	0	28	58	125	99	2	1	16	398	362	99
1	5	-12	347	317	99	1	6	-21	401	401	99	1	7	-9	46	62	99	2	0	30	319	312	99	2	1	17	152	135	99
1	5	-11	202	177	99	1	6	-20	406	411	99	1	7	-8	-57	44	99	2	0	32	460	467	99	2	1	18	81	81	99
1	5	-10	469	458	99	1	6	-19	329	325	99	1	7	-7	149	139	99	2	0	34	284	276	99	2	1	19	357	329	99
1	5	-9	137	148	99	1	6	-18	469	484	99	1	7	-6	52	78	99	2	1	-35	-8	76	99	2	1	20	218	225	99
1	5	-8	304	306	99	1	6	-17	86	97	99	1	7	-5	243	248	99	2	1	-34	52	37	99	2	1	21	534	528	99
1	5	-7	658	671	99	1	6	-16	646	621	99	1	7	-4	134	130	99	2	1	-33	50	40	99	2	1	22	43	11	99
1	5	-6	574	581	99	1	6	-15	195	160	99	1	7	-3	402	393	99	2	1	-32	56	60	99	2	1	23	453	480	99
1	5	-5	750	769	99	1	6	-14	702	717	99	1	7	-2	102	101	99	2	1	-31	284	300	99	2	1	24	116	101	99
1	5	-4	162	138	99	1	6	-13	164	158	99	1	7	-1	644	630	99	2	1	-30	444	468	99	2	1	25	649	651	99
1	5	-3	655	655	99	1	6	-12	674	645	99	1	7	0	51	28	99	2	1	-29	317	311	99	2	1	26	62	74	99
1	5	-2	-59	27	99	1	6	-11	217	218	99	1	7	1	728	716	99	2	1	-28	187	169	99	2	1	27	773	744	99
1	5	-1	596	581	99	1	6	-10	560	531	99	1	7	2	-79	24	99	2	1	-27	561	573	99	2	1	28	169	168	99
1	5	0	53	38	99	1	6	-9	105	130	99	1	7	3	651	625	99	2	1	-26	640	653	99	2	1	29	824	774	99
1	5	1	402	406	99	1	6	-8	564	565	99	1	7	4	-54	4	99	2	1	-25	498	502	99	2	1	30	-117	76	99
1	5	2	233	216	99	1	6	-7	348	345	99	1	7	5	437	435	99	2	1	-24	400	412	99	2	1	31	947	927	99
1	5	3	389	401	99	1	6	-6	660	689	99	1	7	6	81	14	99	2	1	-23	481	501	99	2	1	32	-157	37	99
1	5	4	181	181	99	1	6	-5	292	290	99	1	7	7	274	280	99	2	1	-22	636	650	99	2	1	33	864	858	99
1	5	5	663	641	99	1	6	-4	468	482	99	1	7	8	218	197	99	2	1	-21	369	367	99	2	1	34	145	186	99
1	5	6	163	170	99	1	6	-3	105	113	99	1	7	9	321	323	99	2	1	-20	743	775	99	2	1	35	694	739	99
1	5	7	809	811	99	1	6	-2	275	261	99	1	7	10	239	238	99	2	1	-19	767	762	99	2	2	-35	901	895	99
1	5	8	438	432	99	1	6	-1	-11	20	99	1	7	11	393	380	99	2	1	-18	636	617	99	2	2	-34	730	735	99
1	5	9	1050	1055	99	1	6	0	438	424	99	1	7	12	-76	68	99	2	1	-17	596	618	99	2	2	-33	767	736	99
1	5	10	526	503	99	1	6	1	151	137	99	1	7	13	500	474	99	2	1	-16	475	438	99	2	2	-32	853	868	99
1	5	11	916	933	99	1	6	2	373	375	99	1	7	14	127	123	99	2	1	-15	1033	1054	99	2	2	-31	411	357	99
1	5	12	345	330	99	1	6	3	173	174	99	2	0	-34	231	247	99	2	1	-14	204	148	99	2	2	-30	1019	1073	99
1	5	13	501	496	99	1	6	4	142	147	99	2	0	-32	190	195	99	2	1	-13	2312	2515	99	2	2	-29	303	138	99
1	5	14	197	188	99	1	6	5	-72	48	99	2	0	-30	789	760	99	2	1	-12	630	602	99	2	2	-28	805	832	99
1	5	15	367	358	99	1	6	6	219	219	99	2	0	-28	1197	1202	99	2	1	-11	1988	2147	99	2	2	-27	227	87	99
1	5	16	56	54	99	1	6	7	75	38	99	2	0	-26	1598	1656	99	2	1	-10	67	56	99	2	2	-26	593	575	99
1	5	17	422	400	99	1	6	8	67	69	99	2	0	-24	1388	1426	99	2	1	-9	1627	1686	99	2	2	-25	174	107	99
2	2	-24	691	707	99	2	3	11	-75	27	99	2	3	15	309	329	99	2	4	-1	955	950	99	2	5	-17	198	200	99
2	2	-23	315	286	99	2	3	12	474	430	99	2	3	16	585	582	99	2	4	0	208	204	99	2	5	-16	809	803	99
2	2	-22	656	665	99	2	3	13	277	280	99	2	3	17	205	191	99	2	4	1	938	952	99	2	5	-15	225	239	99
2	2	-21	677	657	99	2	3	14	485	473	99	2	3	18	574	572	99	2	4	2	139	128	99	2	5	-14	772	735	99
2	2	-20	294	269	99	2	3	15	-7	5	99	2	3	19	126	139	99	2	4	3	555	565	99	2	5	-13	170	170	99
2	2	-19	516	510	99	2	3	-35	-16	33	99	2	3	20	306	316	99	2	4	4	329	328	99	2	5	-12	809	769	99
2	2	-18	471	479	99	2	3	-34	91	106	99	2	3	21	373	377	99	2	4	5	543	531	99	2	5	-11	166	155	99
2	2	-17	576	581	99	2	3	-33	49	31	99	2	3	22	273	265	99	2	4	6	684	670	99	2	5	-10	618	628	99
2	2	-16	525	512	99	2	3	-32	-39	16	99	2	3	23	777	789	99	2	4	7	637	664	99	2	5	-9	306	308	99
2	2	-15	271	264	99	2	3	-31	166	188	99	2	3	24	258	258	99	2	4	8	839	839	99	2	5	-8	726	732	99
2	2	-14	288	283	99	2	3	-30	128	131	99	2	3	25	219	233	99	2	4	9	877	890	99	2	5	-7	370	372	99
2	2	-13	74	71	99	2	3	-29	92	62	99	2	3	26	539	524	99	2	4	10	1003	1032	99	2	5	-6	618	615	99
2	2	-12	97	106	99	2	3	-28	53	25	99	2	3	27	172	183	99	2	4	11	1104	1134	99	2	5	-5	833	839	99
2	2	-11	982	960	99	2	3	-27	184	199	99	2	3	28	557	546	99	2	4	12	937	945	99	2	5	-4	329	323	99
2	2	-10	506	484	99	2	3	-26	101	45	99	2	3	29	250	260	99	2	4	13	969	931	99	2	5	-3	825	798	99
2	2	-9	973	954	99	2	3	-25	448	467	99	2	3	30	269	267	99	2	4	14	511	506	99	2	5	-2	693	664	99
2	2	-8	391	388	99	2	3	-24	314	308	99	2	3	31	188	200	99	2	4	15	705	726	99	2	5	-1	434	433	99
2	2	-7	280	278	99	2	3	-23	1077	1117	99	2	3	32	293	298	99	2	4	16	95	93	99	2	5	0	631	605	99
2	2	-6	714	679	99	2	3	-22	412	284	99	2	3	33	220	221	99	2	4	17	769	765	99	2	5	1	133	116	99
2	2	-5	142	145	99	2	3	-21	947	971	99	2	3	34	445	448	99	2	4	18	151	143	99	2	5	2	459	441	99
2	2	-4	717	708	99	2	3	-20	532	496	99	2	3	35	636	573	99	2	4	19	650	668	99	2	5	3	162	149	99
2	2	-3	215	198	99	2	3	-19	920	954	99	2	4	-35	313	282	99	2	4	20	368	360	99	2	5	4	593	606	99
2	2	-2	800	796	99	2	3	-18	685	676	99	2	4	-34	484	501	99	2	4	21	622	659	99	2	5	5	198	185	99
2	2	-1	27	13	99	2	3	-17	938	950	99	2	4	-33	377	342	99	2	4	22	422	419	99	2	5	6	696	708	99
2	2	0	363	367	99	2	3	-16	453	466	99	2	4	-32	468	499	99	2	4	23	554	548	99	2	5	7	378	372	99
2	2	1	-31	53	99	2	3	-15	554	571	99	2	4	-31	378	348	99	2	4	24	664	683	99	2	5	8	357	349	99
2	2	2	399	381	99	2	3	-14	350	346	99	2	4	-30	365	360	99	2	4	25	189	173	99	2	5	9	386	373	99
2	2	3	417	399	99	2	3	-13	398	384	99	2	4	-29	342	325	99	2	4	26	557	538	99	2	5	10	50	83	99
2	2	4	465	470	99	2	3	-12	519	511	99	2	4	-28	131	75	99	2	4	27	191	215	99	2	5	11	153	146	99
2	2	5	390	376	99	2	3	-11	402	389	99	2	4	-27	263	274	99	2	4	28	444	427	99	2	5	12	85	52	99
2	2	6	1374	1405	99	2	3	-10	473	454	99	2	4	-26	167	138	99	2	4	29	-47	67	99	2	5	13	50	39	99
2	2	7	427	429	99	2	3	-9	841	837	99	2	4	-25	440	450	99	2	4	30	39	89	99	2	5	14	276	267	99
2	2	8	1349	1326	99	2	3	-8	829	822	99	2	4	-24	179	104	99	2	4	31	-33	28	99	2	5	15	303	291	99
2	2	9	895	882	99	2	3	-7	1003	1023	99	2	4	-23	457	482	99	2	4	32	106	89	99	2	5	16	312	291	99
2	2	10	826	850	99	2	3	-6	1179	1235	99	2	4	-22	152	146	99	2	4	33	62	78	99	2	5	17	303	299	99
2	2	11	774	776	99	2	3	-5	843	862	99	2	4	-21	595	603	99	2	4	34	-66	81	99	2	5	18	71	126	99
2	2	12	700	706	99	2	3	-4	1409	1457	99	2	4	-20	560	575	99	2	4	35	61	12	99	2	5	19	315	307	99
2	2	13	568	578	99	2	3	-3	1026	1049	99	2	4	-19	846	867	99	2	5	-35	-48	54	99	2	5	20	-59	10	99
2	2	14	832	828	99	2	3	-2	1279	1311	99	2	4	-18	772	786	99	2	5	-34	51	8	99	2	5	21	206	195	99
2	2	15	150	144	99	2	3	-1	963	971	99	2	4	-17	324	338	99	2	5	-33	-86	62	99	2	5	22	-16	17	99
2	2	16	765	790	99	2	3	0	356	363	99	2	4	-16	473	474	99	2	5	-32	216	221	99	2	5	23	121	121	99
2	2	17	60	48	99	2	3	1	477	466	99	2	4	-15	83	56	99	2	5	-31	-84	36	99	2	5	24	139	145	99
2	2	18	974	986	99	2	3	2	135	139	99	2	4	-14	269	257	99	2	5	-30	389	399	99	2	5	25	306	302	99
2	2	19	210	210	99	2	3	3	45	29	99	2	4	-13	169	170	99	2	5	-29	178	64	99	2	5	26	314	328	99
2	2	20	926	931	99	2	3	4	140	135	99	2	4	-12	-53	65	99	2	5	-28	216	231	99	2	5	27	319	308	99
2	2	21	-64	41	99	2	3	5	261	246	99	2	4	-11	558	554	99	2	5	-27	111	27	99	2	5	28	512	510	99
2	2	22	908	900	99	2	3	6	474	463	99	2	4	-10	173	163	99	2	5	-26	122	138	99	2	5	29	196	192	99
2	2	23	939	972	99	2	3	7	199	175	99	2	4	-9	637	627	99	2	5	-25	94	67	99	2	5	30	673	635	99
2	2	24	869	910	99	2	3	8	788	779	99	2	4	-8	234	243	99	2	5	-24	157	173	99	2	5	31	79	110	99
2	2	25	1228	1255	99	2	3	9	87	85	99	2	4	-7	237	237	99	2	5	-23	68	16	99	2	5	32	447	447	99
2	2	26	235	277	99	2	3	10	579	590	99	2	4	-6	411	428	99	2	5	-22	64	64	99	2	5	33	154	142	99
2	2	27	539	546	99	2	3	11	740	746	99	2	4	-5	217	210	99	2	5	-21	98	72	99	2	5	34	344	324	99
2	2	28	832	837	99	2	3	12	347	340	99	2	4	-4	89	82	99	2	5	-20	301	292	99	2	6	-27	430	449	99
2	2	29	324	331	99	2	3	13	667	657	99	2	4	-3	474	465	99	2	5	-19	161	156	99	2	6	-26	182	103	99
2	2	30	700	691	99	2	3	14	42	17	99	2	4	-2	92	94	99	2	5	-18	639	620	99	2	6	-25	471	482	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	6	-24	159	130	99	2	7	-8	320	340	99	3	0	33	138	140	99	3	1	18	1077	1083	99	3	2	2	153	102	99
2	6	-23	456	479	99	2	7	-7	69	3	99	3	0	35	423	451	99	3	1	19	557	573	99	3	2	3	1423	1468	99
2	6	-22	227	240	99	2	7	-6	304	295	99	3	1	-35	254	199	99	3	1	20	1003	996	99	3	2	4	506	499	99
2	6	-21	167	186	99	2	7	-5	141	149	99	3	1	-34	544	589	99	3	1	21	513	500	99	3	2	5	1645	1675	99
2	6	-20	168	160	99	2	7	-4	355	363	99	3	1	-33	146	28	99	3	1	22	942	953	99	3	2	6	1122	1101	99
2	6	-19	21	31	99	2	7	-3	155	154	99	3	1	-32	612	628	99	3	1	23	344	340	99	3	2	7	1662	1695	99
2	6	-18	-51	17	99	2	7	-2	272	280	99	3	1	-31	224	189	99	3	1	24	981	989	99	3	2	8	652	673	99
2	6	-17	61	30	99	2	7	-1	124	100	99	3	1	-30	789	812	99	3	1	25	41	20	99	3	2	9	651	666	99
2	6	-16	92	61	99	2	7	0	415	412	99	3	1	-29	194	121	99	3	1	26	831	853	99	3	2	10	813	808	99
2	6	-15	74	15	99	2	7	1	100	153	99	3	1	-28	669	721	99	3	1	27	161	167	99	3	2	11	612	594	99
2	6	-14	55	61	99	2	7	2	408	392	99	3	1	-27	182	95	99	3	1	28	775	786	99	3	2	12	847	836	99
2	6	-13	54	80	99	2	7	3	-59	99	99	3	1	-26	1214	1259	99	3	1	29	312	321	99	3	2	13	409	408	99
2	6	-12	55	20	99	2	7	4	237	225	99	3	1	-25	290	79	99	3	1	30	591	603	99	3	2	14	200	199	99
2	6	-11	89	85	99	2	7	5	10	30	99	3	1	-24	1302	1388	99	3	1	31	125	181	99	3	2	15	476	479	99
2	6	-10	115	119	99	2	7	6	183	170	99	3	1	-23	486	340	99	3	1	32	680	668	99	3	2	16	294	287	99
2	6	-9	-72	30	99	2	7	7	152	167	99	3	1	-22	1038	1067	99	3	1	33	224	256	99	3	2	17	226	221	99
2	6	-8	248	254	99	2	7	8	-57	41	99	3	1	-21	316	183	99	3	1	34	677	681	99	3	2	18	353	353	99
2	6	-7	131	159	99	2	7	9	171	161	99	3	1	-20	610	631	99	3	1	35	-115	49	99	3	2	19	232	234	99
2	6	-6	232	214	99	2	7	10	10	39	99	3	1	-19	448	445	99	3	2	-35	147	127	99	3	2	20	362	364	99
2	6	-5	216	221	99	2	7	11	-103	40	99	3	1	-18	660	660	99	3	2	-34	289	296	99	3	2	21	60	23	99
2	6	-4	-24	73	99	2	7	12	47	111	99	3	1	-17	361	340	99	3	2	-33	155	147	99	3	2	22	-48	29	99
2	6	-3	380	372	99	3	0	-35	476	486	99	3	1	-16	632	643	99	3	2	-32	322	343	99	3	2	23	142	145	99
2	6	-2	250	238	99	3	0	-33	-86	18	99	3	1	-15	65	37	99	3	2	-31	159	157	99	3	2	24	98	106	99
2	6	-1	526	515	99	3	0	-31	141	123	99	3	1	-14	1067	1078	99	3	2	-30	90	118	99	3	2	25	317	321	99
2	6	0	236	238	99	3	0	-29	685	667	99	3	1	-13	144	146	99	3	2	-29	100	107	99	3	2	26	62	106	99
2	6	1	409	410	99	3	0	-27	332	347	99	3	1	-12	1190	1197	99	3	2	-28	356	367	99	3	2	27	631	662	99
2	6	2	427	410	99	3	0	-25	254	229	99	3	1	-11	211	196	99	3	2	-27	203	178	99	3	2	28	-80	65	99
2	6	3	367	377	99	3	0	-23	864	855	99	3	1	-10	1038	1039	99	3	2	-26	285	288	99	3	2	29	520	521	99
2	6	4	53	172	99	3	0	-21	765	765	99	3	1	-9	857	819	99	3	2	-25	193	183	99	3	2	30	328	345	99
2	6	5	287	297	99	3	0	-19	1050	1056	99	3	1	-8	43	65	99	3	2	-24	68	87	99	3	2	31	449	457	99
2	6	6	140	144	99	3	0	-17	871	880	99	3	1	-7	412	385	99	3	2	-23	-61	13	99	3	2	32	532	539	99
2	6	7	221	227	99	3	0	-15	1193	1173	99	3	1	-6	162	146	99	3	2	-22	149	154	99	3	2	33	353	348	99
2	6	8	-40	32	99	3	0	-13	1166	1153	99	3	1	-5	528	535	99	3	2	-21	194	191	99	3	2	34	478	475	99
2	6	9	315	301	99	3	0	-11	1163	1118	99	3	1	-4	404	376	99	3	2	-20	329	320	99	3	2	35	491	509	99
2	6	10	-41	77	99	3	0	-9	1660	1691	99	3	1	-3	959	956	99	3	2	-19	452	448	99	3	3	-35	326	333	99
2	6	11	269	265	99	3	0	-7	1727	1720	99	3	1	-2	390	385	99	3	2	-18	145	120	99	3	3	-34	224	204	99
2	6	12	179	179	99	3	0	-5	1347	1345	99	3	1	-1	370	352	99	3	2	-17	18	34	99	3	3	-33	482	541	99
2	6	13	516	484	99	3	0	-3	1005	948	99	3	1	0	453	420	99	3	2	-16	148	151	99	3	3	-32	273	222	99
2	6	14	269	250	99	3	0	-1	1168	1134	99	3	1	1	23	19	99	3	2	-15	454	454	99	3	3	-31	575	639	99
2	6	15	686	699	99	3	0	1	1472	1484	99	3	1	2	456	442	99	3	2	-14	266	266	99	3	3	-30	416	364	99
2	6	16	238	235	99	3	0	3	1427	1426	99	3	1	3	847	826	99	3	2	-13	804	818	99	3	3	-29	608	615	99
2	6	17	568	581	99	3	0	5	829	784	99	3	1	4	433	415	99	3	2	-12	578	570	99	3	3	-28	554	565	99
2	6	18	81	60	99	3	0	7	994	926	99	3	1	5	648	640	99	3	2	-11	857	869	99	3	3	-27	388	333	99
2	6	19	384	368	99	3	0	9	653	597	99	3	1	6	646	634	99	3	2	-10	687	679	99	3	3	-26	484	485	99
2	6	20	-74	19	99	3	0	11	915	855	99	3	1	7	654	634	99	3	2	-9	1139	1171	99	3	3	-25	224	154	99
2	6	21	328	330	99	3	0	13	92	99	99	3	1	8	963	978	99	3	2	-8	197	188	99	3	3	-24	567	553	99
2	6	22	-81	76	99	3	0	15	417	385	99	3	1	9	193	183	99	3	2	-7	1344	1400	99	3	3	-23	406	409	99
2	6	23	325	329	99	3	0	17	1284	1219	99	3	1	10	1111	1099	99	3	2	-6	819	823	99	3	3	-22	491	509	99
2	6	24	156	153	99	3	0	19	594	592	99	3	1	11	32	42	99	3	2	-5	874	901	99	3	3	-21	829	843	99
2	6	25	393	356	99	3	0	21	469	450	99	3	1	12	921	916	99	3	2	-4	903	883	99	3	3	-20	577	612	99
2	6	26	64	109	99	3	0	23	106	83	99	3	1	13	548	542	99	3	2	-3	1061	1071	99	3	3	-19	913	952	99
2	7	-12	423	400	99	3	0	25	403	376	99	3	1	14	915	926	99	3	2	-2	705	718	99	3	3	-18	735	749	99
2	7	-11	67	64	99	3	0	27	246	240	99	3	1	15	629	614	99	3	2	-1	1245	1274	99	3	3	-17	811	823	99
2	7	-10	407	407	99	3	0	29	287	281	99	3	1	16	1011	989	99	3	2	0	970	948	99	3	3	-16	642	657	99
2	7	-9	-106	48	99	3	0	31	51	54	99	3	1	17	815	807	99	3	2	1	1470	1493	99	3	3	-15	433	437	99
3	3	-14	427	431	99	3	4	-30	139	119	99	3	4	25	31	104	99	3	5	11	572	538	99	3	6	7	59	83	99
3	3	-13	-31	42	99	3	4	-29	-13	13	99	3	4	26	173	164	99	3	5	12	33	24	99	3	6	8	335	320	99
3	3	-12	232	242	99	3	4	-28	90	107	99	3	4	27	69	8	99	3	5	13	670	658	99	3	6	9	43	58	99
3	3	-11	199	204	99	3	4	-27	70	44	99	3	4	28	111	92	99	3	5	14	65	50	99	3	6	10	357	356	99
3	3	-10	835	838	99	3	4	-26	238	245	99	3	4	29	-29	21	99	3	5	15	716	722	99	3	6	11	340	336	99
3	3	-9	356	367	99	3	4	-25	209	211	99	3	4	30	-43	41	99	3	5	16	153	110	99	3	6	12	301	314	99
3	3	-8	793	828	99	3	4	-24	249	259	99	3	4	31	85	161	99	3	5	17	461	458	99	3	6	13	376	366	99
3	3	-7	249	244	99	3	4	-23	201	183	99	3	4	32	311	328	99	3	5	18	78	82	99	3	6	14	216	215	99
3	3	-6	664	679	99	3	4	-22	160	165	99	3	4	33	327	310	99	3	5	19	363	378	99	3	6	15	138	130	99
3	3	-5	624	635	99	3	4	-21	-153	17	99	3	4	34	349	343	99	3	5	20	50	12	99	3	6	16	232	237	99
3	3	-4	358	351	99	3	4	-20	480	510	99	3	4	35	310	292	99	3	5	21	441	446	99	3	6	17	-75	20	99
3	3	-3	186	199	99	3	4	-19	213	220	99	3	5	-33	395	377	99	3	5	22	64	16	99	3	6	18	153	126	99
3	3	-2	92	61	99	3	4	-18	630	655	99	3	5	-32	452	444	99	3	5	23	419	413	99	3	6	19	173	165	99
3	3	-1	276	264	99	3	4	-17	384	396	99	3	5	-31	586	606	99	3	5	24	287	289	99	3	6	20	-102	26	99
3	3	0	245	230	99	3	4	-16	606	609	99	3	5	-30	421	367	99	3	5	25	511	510	99	3	6	21	-63	62	99
3	3	1	363	371	99	3	4	-15	430	430	99	3	5	-29	540	572	99	3	5	26	507	477	99	3	6	22	-29	22	99
3	3	2	340	343	99	3	4	-14	707	696	99	3	5	-28	258	161	99	3	5	27	539	544	99	3	6	23	46	7	99
3	3	3	402	414	99	3	4	-13	364	351	99	3	5	-27	349	389	99	3	5	28	366	360	99	3	6	24	183	172	99
3	3	4	383	391	99	3	4	-12	545	529	99	3	5	-26	209	178	99	3	5	29	552	530	99	3	7	-7	236	231	99
3	3	5	500	504	99	3	4	-11	538	520	99	3	5	-25	340	359	99	3	5	30	308	268	99	3	7	-6	138	134	99
3	3	6	378	369	99	3	4	-10	236	230	99	3	5	-24	109	62	99	3	5	31	460	465	99	3	7	-5	105	93	99
3	3	7	441	427	99	3	4	-9	424	427	99	3	5	-23	241	242	99	3	5	32	154	124	99	3	7	-4	153	114	99
3	3	8	482	466	99	3	4	-8	784	785	99	3	5	-22	284	286	99	3	5	33	239	233	99	3	7	-3	28	57	99
3	3	9	393	390	99	3	4	-7	520	553	99	3	5	-21	400	418	99	3	6	-25	99	74	99	3	7	-2	206	177	99
3	3	10	890	931	99	3	4	-6	626	635	99	3	5	-20	484	513	99	3	6	-24	118	123	99	3	7	-1	73	114	99
3	3	11	300	312	99	3	4	-5	783	786	99	3	5	-19	615	610	99	3	6	-23	139	115	99	3	7	0	55	13	99
3	3	12	911	906	99	3	4	-4	895	888	99	3	5	-18	398	408	99	3	6	-22	113	86	99	3	7	1	134	99	99
3	3	13	191	196	99	3	4	-3	628	616	99	3	5	-17	620	629	99	3	6	-21	76	42	99	3	7	2	118	120	99
3	3	14	737	762	99	3	4	-2	964	978	99	3	5	-16	244	243	99	3	6	-20	59	100	99	3	7	3	231	225	99
3	3	15	422	429	99	3	4	-1	422	430	99	3	5	-15	619	597	99	3	6	-19	147	148	99	3	7	4	-67	46	99
3	3	16	677	677	99	3	4	0	538	537	99	3	5	-14	216	232	99	3	6	-18	207	195	99	3	7	5	236	210	99
3	3	17	587	586	99	3	4	1	465	461	99	3	5	-13	367	348	99	3	6	-17	145	129	99	3	7	6	46	8	99
3	3	18	1014	1009	99	3	4	2	525	540	99	3	5	-12	95	92	99	3	6	-16	288	266	99	4	0	-34	117	130	99
3	3	19	287	272	99	3	4	3	370	359	99	3	5	-11	288	281	99	3	6	-15	104	127	99	4	0	-32	639	619	99
3	3	20	793	835	99	3	4	4	92	71	99	3	5	-10	307	293	99	3	6	-14	384	384	99	4	0	-30	150	150	99
3	3	21	417	414	99	3	4	5	296	285	99	3	5	-9	78	59	99	3	6	-13	45	53	99	4	0	-28	242	234	99
3	3	22	1086	1077	99	3	4	6	58	25	99	3	5	-8	387	389	99	3	6	-12	481	480	99	4	0	-26	1110	1090	99
3	3	23	607	633	99	3	4	7	434	437	99	3	5	-7	168	148	99	3	6	-11	-129	46	99	4	0	-24	1144	1128	99
3	3	24	662	671	99	3	4	8	318	299	99	3	5	-6	54	47	99	3	6	-10	462	443	99	4	0	-22	899	902	99
3	3	25	503	504	99	3	4	9	465	469	99	3	5	-5	190	182	99	3	6	-9	-72	20	99	4	0	-20	889	910	99
3	3	26	193	197	99	3	4	10	508	524	99	3	5	-4	191	180	99	3	6	-8	257	266	99	4	0	-18	617	650	99
3	3	27	514	521	99	3	4	11	560	562	99	3	5	-3	23	2	99	3	6	-7	-22	6	99	4	0	-16	198	178	99
3	3	28	445	478	99	3	4	12	726	731	99	3	5	-2	32	53	99	3	6	-6	331	334	99	4	0	-14	655	642	99
3	3	29	510	502	99	3	4	13	220	213	99	3	5	-1	-25	82	99	3	6	-5	205	195	99	4	0	-12	1190	1196	99
3	3	30	169	163	99	3	4	14	629	612	99	3	5	0	-62	49	99	3	6	-4	548	555	99	4	0	-10	2120	2221	99
3	3	31	314	325	99	3	4	15	195	178	99	3	5	1	139	123	99	3	6	-3	398	406	99	4	0	-8	1980	2094	99
3	3	32	380	387	99	3	4	16	199	205	99	3	5	2	69	65	99	3	6	-2	695	721	99	4	0	-6	1501	1506	99
3	3	33	184	201	99	3	4	17	118	121	99	3	5	3	197	196	99	3	6	-1	269	257	99	4	0	-4	761	728	99
3	3	34	306	318	99	3	4	18	18	24	99	3	5	4	227	227	99	3	6	0	847	825	99	4	0	-2	105	47	99
3	3	35	59	110	99	3	4	19	82	40	99	3	5	5	206	205	99	3	6	1	60	7	99	4	0	0	245	223	99
3	4	-35	292	292	99	3	4	20	-54	5	99	3	5	6	313	309	99	3	6	2	702	692	99	4	0	2	555	529	99
3	4	-34	368	376	99	3	4	21	109	91	99	3	5	7	203	207	99	3	6	3	132	134	99	4	0	4	441	435	99
3	4	-33	265	229	99	3	4	22	28	62	99	3	5	8	171	154	99	3	6	4	787	765	99	4	0	6	357	350	99
3	4	-32	317	320	99	3	4	23	30	21	99	3	5	9	459	453	99	3	6	5	238	247	99	4	0	8	192	183	99
3	4	-31	185	163	99	3	4	24	52	100	99	3	5	10	85	51	99	3	6	6	640	625	99	4	0	10	297	271	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	0	12	697	662	99	4	1	8	682	675	99	4	2	-8	326	344	99	4	3	-24	104	96	99	4	3	31	215	196	99
4	0	14	1187	1191	99	4	1	9	1405	1445	99	4	2	-7	612	610	99	4	3	-23	57	96	99	4	3	32	315	316	99
4	0	16	1190	1211	99	4	1	10	380	382	99	4	2	-6	752	754	99	4	3	-22	-19	33	99	4	3	33	42	37	99
4	0	18	1213	1212	99	4	1	11	1119	1123	99	4	2	-5	187	190	99	4	3	-21	304	312	99	4	3	34	320	315	99
4	0	20	1298	1275	99	4	1	12	830	836	99	4	2	-4	222	218	99	4	3	-20	74	11	99	4	3	35	55	52	99
4	0	22	1129	1133	99	4	1	13	462	431	99	4	2	-3	536	528	99	4	3	-19	389	398	99	4	4	-35	103	24	99
4	0	24	916	935	99	4	1	14	209	219	99	4	2	-2	307	302	99	4	3	-18	199	177	99	4	4	-34	266	290	99
4	0	26	725	743	99	4	1	15	634	620	99	4	2	-1	796	775	99	4	3	-17	341	330	99	4	4	-33	155	46	99
4	0	28	671	693	99	4	1	16	144	141	99	4	2	0	173	147	99	4	3	-16	419	428	99	4	4	-32	229	257	99
4	0	30	758	769	99	4	1	17	651	656	99	4	2	1	713	696	99	4	3	-15	170	197	99	4	4	-31	161	115	99
4	0	32	689	692	99	4	1	18	-52	27	99	4	2	2	152	137	99	4	3	-14	114	79	99	4	4	-30	174	197	99
4	0	34	761	727	99	4	1	19	859	860	99	4	2	3	-31	36	99	4	3	-13	228	218	99	4	4	-29	339	366	99
4	1	-35	531	549	99	4	1	20	185	181	99	4	2	4	453	431	99	4	3	-12	236	242	99	4	4	-28	246	218	99
4	1	-34	396	381	99	4	1	21	917	919	99	4	2	5	723	727	99	4	3	-11	141	158	99	4	4	-27	477	521	99
4	1	-33	209	204	99	4	1	22	209	204	99	4	2	6	258	244	99	4	3	-10	466	455	99	4	4	-26	217	146	99
4	1	-32	553	540	99	4	1	23	581	583	99	4	2	7	1071	1056	99	4	3	-9	325	326	99	4	4	-25	384	401	99
4	1	-31	214	195	99	4	1	24	139	139	99	4	2	8	378	372	99	4	3	-8	548	566	99	4	4	-24	162	141	99
4	1	-30	443	446	99	4	1	25	173	163	99	4	2	9	319	318	99	4	3	-7	1024	1046	99	4	4	-23	266	291	99
4	1	-29	230	204	99	4	1	26	497	493	99	4	2	10	690	679	99	4	3	-6	368	363	99	4	4	-22	314	321	99
4	1	-28	396	382	99	4	1	27	282	270	99	4	2	11	21	8	99	4	3	-5	1114	1119	99	4	4	-21	295	313	99
4	1	-27	469	510	99	4	1	28	504	511	99	4	2	12	718	724	99	4	3	-4	505	498	99	4	4	-20	485	494	99
4	1	-26	318	300	99	4	1	29	427	410	99	4	2	13	343	330	99	4	3	-3	973	979	99	4	4	-19	203	230	99
4	1	-25	473	445	99	4	1	30	303	295	99	4	2	14	362	358	99	4	3	-2	542	525	99	4	4	-18	482	482	99
4	1	-24	401	380	99	4	1	31	132	130	99	4	2	15	139	142	99	4	3	-1	690	687	99	4	4	-17	565	594	99
4	1	-23	530	518	99	4	1	32	281	272	99	4	2	16	305	291	99	4	3	0	653	645	99	4	4	-16	729	726	99
4	1	-22	706	697	99	4	1	33	199	201	99	4	2	17	104	96	99	4	3	1	696	694	99	4	4	-15	685	680	99
4	1	-21	390	362	99	4	1	34	34	4	99	4	2	18	308	306	99	4	3	2	765	771	99	4	4	-14	578	573	99
4	1	-20	175	173	99	4	1	35	80	139	99	4	2	19	139	146	99	4	3	3	337	336	99	4	4	-13	612	599	99
4	1	-19	36	2	99	4	2	-35	314	336	99	4	2	20	121	115	99	4	3	4	702	698	99	4	4	-12	294	302	99
4	1	-18	18	8	99	4	2	-34	400	385	99	4	2	21	449	457	99	4	3	5	381	375	99	4	4	-11	430	405	99
4	1	-17	183	184	99	4	2	-33	369	340	99	4	2	22	704	716	99	4	3	6	608	601	99	4	4	-10	240	224	99
4	1	-16	158	166	99	4	2	-32	402	408	99	4	2	23	166	156	99	4	3	7	334	332	99	4	4	-9	348	349	99
4	1	-15	715	677	99	4	2	-31	496	505	99	4	2	24	674	676	99	4	3	8	578	564	99	4	4	-8	-66	41	99
4	1	-14	35	10	99	4	2	-30	608	666	99	4	2	25	215	215	99	4	3	9	500	495	99	4	4	-7	935	953	99
4	1	-13	292	286	99	4	2	-29	334	259	99	4	2	26	886	868	99	4	3	10	738	745	99	4	4	-6	355	358	99
4	1	-12	217	204	99	4	2	-28	639	713	99	4	2	27	721	687	99	4	3	11	743	743	99	4	4	-5	763	774	99
4	1	-11	430	424	99	4	2	-27	253	71	99	4	2	28	687	671	99	4	3	12	913	931	99	4	4	-4	288	282	99
4	1	-10	284	282	99	4	2	-26	615	636	99	4	2	29	545	543	99	4	3	13	699	727	99	4	4	-3	595	580	99
4	1	-9	895	860	99	4	2	-25	257	178	99	4	2	30	368	370	99	4	3	14	888	883	99	4	4	-2	492	491	99
4	1	-8	544	506	99	4	2	-24	781	835	99	4	2	31	137	147	99	4	3	15	729	727	99	4	4	-1	608	572	99
4	1	-7	738	742	99	4	2	-23	455	409	99	4	2	32	613	587	99	4	3	16	631	648	99	4	4	0	754	739	99
4	1	-6	982	988	99	4	2	-22	850	874	99	4	2	33	110	142	99	4	3	17	481	499	99	4	4	1	267	287	99
4	1	-5	668	690	99	4	2	-21	551	531	99	4	2	34	626	584	99	4	3	18	255	252	99	4	4	2	318	299	99
4	1	-4	190	204	99	4	2	-20	1066	1073	99	4	2	35	-4	52	99	4	3	19	278	284	99	4	4	3	269	254	99
4	1	-3	1205	1250	99	4	2	-19	913	944	99	4	3	-35	378	392	99	4	3	20	199	201	99	4	4	4	167	161	99
4	1	-2	734	727	99	4	2	-18	1098	1126	99	4	3	-34	367	378	99	4	3	21	-21	40	99	4	4	5	249	243	99
4	1	-1	1179	1225	99	4	2	-17	919	910	99	4	3	-33	501	507	99	4	3	22	115	100	99	4	4	6	138	145	99
4	1	0	340	337	99	4	2	-16	990	1031	99	4	3	-32	497	498	99	4	3	23	248	250	99	4	4	7	134	134	99
4	1	1	1134	1201	99	4	2	-15	647	653	99	4	3	-31	534	537	99	4	3	24	207	210	99	4	4	8	278	262	99
4	1	2	560	531	99	4	2	-14	799	812	99	4	3	-30	435	385	99	4	3	25	15	29	99	4	4	9	64	50	99
4	1	3	1052	1085	99	4	2	-13	525	514	99	4	3	-29	534	545	99	4	3	26	222	229	99	4	4	10	321	309	99
4	1	4	190	173	99	4	2	-12	937	955	99	4	3	-28	287	194	99	4	3	27	242	232	99	4	4	11	-49	20	99
4	1	5	1741	1836	99	4	2	-11	174	178	99	4	3	-27	436	455	99	4	3	28	212	223	99	4	4	12	133	128	99
4	1	6	507	495	99	4	2	-10	773	775	99	4	3	-26	219	139	99	4	3	29	371	398	99	4	4	13	128	128	99
4	1	7	1662	1788	99	4	2	-9	347	350	99	4	3	-25	144	141	99	4	3	30	50	46	99	4	4	14	136	150	99
4	4	15	612	613	99	4	5	3	389	386	99	4	6	5	-7	56	99	5	1	-33	64	34	99	5	1	22	240	251	99
4	4	16	283	272	99	4	5	4	908	892	99	4	6	6	290	300	99	5	1	-32	489	488	99	5	1	23	396	388	99
4	4	17	702	705	99	4	5	5	467	438	99	4	6	7	50	22	99	5	1	-31	169	99	99	5	1	24	333	325	99
4	4	18	251	267	99	4	5	6	709	748	99	4	6	8	-96	12	99	5	1	-30	406	423	99	5	1	25	312	291	99
4	4	19	823	818	99	4	5	7	379	380	99	4	6	9	95	29	99	5	1	-29	280	259	99	5	1	26	630	648	99
4	4	20	245	238	99	4	5	8	530	532	99	4	6	10	310	299	99	5	1	-28	490	494	99	5	1	27	114	88	99
4	4	21	736	753	99	4	5	9	378	359	99	4	6	11	118	122	99	5	1	-27	209	177	99	5	1	28	775	762	99
4	4	22	474	475	99	4	5	10	457	457	99	4	6	12	194	200	99	5	1	-26	339	328	99	5	1	29	56	25	99
4	4	23	621	624	99	4	5	11	478	479	99	4	6	13	210	207	99	5	1	-25	228	215	99	5	1	30	821	815	99
4	4	24	437	449	99	4	5	12	319	312	99	4	6	14	83	28	99	5	1	-24	189	198	99	5	1	31	213	198	99
4	4	25	404	395	99	4	5	13	417	414	99	4	6	15	316	308	99	5	1	-23	255	266	99	5	1	32	612	630	99
4	4	26	517	521	99	4	5	14	307	302	99	4	6	16	214	214	99	5	1	-22	596	589	99	5	1	33	299	293	99
4	4	27	245	253	99	4	5	15	435	445	99	4	6	17	373	380	99	5	1	-21	151	148	99	5	1	34	435	414	99
4	4	28	455	461	99	4	5	16	354	353	99	4	6	18	360	374	99	5	1	-20	1095	1104	99	5	1	35	172	142	99
4	4	29	381	373	99	4	5	17	185	190	99	4	6	19	324	328	99	5	1	-19	48	14	99	5	2	-35	416	411	99
4	4	30	421	424	99	4	5	18	378	396	99	4	6	20	340	323	99	5	1	-18	1078	1070	99	5	2	-34	236	222	99
4	4	31	484	479	99	4	5	19	71	53	99	4	6	21	224	239	99	5	1	-17	161	141	99	5	2	-33	453	472	99
4	4	32	256	286	99	4	5	20	390	397	99	5	0	-35	668	693	99	5	1	-16	1106	1088	99	5	2	-32	258	211	99
4	4	33	415	405	99	4	5	21	48	16	99	5	0	-33	697	663	99	5	1	-15	114	92	99	5	2	-31	331	339	99
4	4	34	-96	57	99	4	5	22	231	245	99	5	0	-31	781	752	99	5	1	-14	988	995	99	5	2	-30	325	301	99
4	4	35	361	348	99	4	5	23	48	20	99	5	0	-29	765	782	99	5	1	-13	162	162	99	5	2	-29	297	293	99
4	5	-31	215	187	99	4	5	24	199	189	99	5	0	-27	912	915	99	5	1	-12	1027	1038	99	5	2	-28	241	227	99
4	5	-30	211	208	99	4	5	25	135	122	99	5	0	-25	912	928	99	5	1	-11	115	78	99	5	2	-27	229	238	99
4	5	-29	112	44	99	4	5	26	58	89	99	5	0	-23	1107	1110	99	5	1	-10	1058	1093	99	5	2	-26	126	73	99
4	5	-28	77	82	99	4	5	27	148	116	99	5	0	-21	368	336	99	5	1	-9	381	377	99	5	2	-25	313	311	99
4	5	-27	35	4	99	4	5	28	-60	33	99	5	0	-19	153	146	99	5	1	-8	1041	1069	99	5	2	-24	153	118	99
4	5	-26	72	27	99	4	5	29	88	77	99	5	0	-17	51	14	99	5	1	-7	475	465	99	5	2	-23	606	621	99
4	5	-25	72	110	99	4	5	30	113	91	99	5	0	-15	427	393	99	5	1	-6	1117	1134	99	5	2	-22	128	101	99
4	5	-24	288	286	99	4	6	-22	83	86	99	5	0	-13	55	60	99	5	1	-5	521	533	99	5	2	-21	648	668	99
4	5	-23	57	2	99	4	6	-21	437	434	99	5	0	-11	87	69	99	5	1	-4	800	804	99	5	2	-20	138	89	99
4	5	-22	242	259	99	4	6	-20	75	19	99	5	0	-9	218	210	99	5	1	-3	243	258	99	5	2	-19	475	476	99
4	5	-21	142	125	99	4	6	-19	392	389	99	5	0	-7	157	143	99	5	1	-2	603	584	99	5	2	-18	488	496	99
4	5	-20	178	181	99	4	6	-18	31	25	99	5	0	-5	1197	1159	99	5	1	-1	571	557	99	5	2	-17	9	35	99
4	5	-19	127	131	99	4	6	-17	325	315	99	5	0	-3	1362	1357	99	5	1	0	522	532	99	5	2	-16	759	761	99
4	5	-18	231	210	99	4	6	-16	27	7	99	5	0	-1	1431	1431	99	5	1	1	612	630	99	5	2	-15	18	89	99
4	5	-17	305	310	99	4	6	-15	479	473	99	5	0	1	1175	1161	99	5	1	2	679	666	99	5	2	-14	438	457	99
4	5	-16	104	107	99	4	6	-14	-124	91	99	5	0	3	871	822	99	5	1	3	451	439	99	5	2	-13	168	168	99
4	5	-15	233	223	99	4	6	-13	555	564	99	5	0	5	695	629	99	5	1	4	779	774	99	5	2	-12	53	2	99
4	5	-14	537	544	99	4	6	-12	-61	105	99	5	0	7	432	426	99	5	1	5	16	68	99	5	2	-11	196	201	99
4	5	-13	55	36	99	4	6	-11	511	504	99	5	0	9	743	741	99	5	1	6	676	705	99	5	2	-10	343	329	99
4	5	-12	572	557	99	4	6	-10	113	143	99	5	0	11	920	891	99	5	1	7	105	103	99	5	2	-9	95	94	99
4	5	-11	230	243	99	4	6	-9	480	460	99	5	0	13	1229	1249	99	5	1	8	283	277	99	5	2	-8	670	675	99
4	5	-10	453	466	99	4	6	-8	150	117	99	5	0	15	1130	1109	99	5	1	9	145	138	99	5	2	-7	99	97	99
4	5	-9	216	209	99	4	6	-7	249	267	99	5	0	17	573	561	99	5	1	10	-68	13	99	5	2	-6	278	270	99
4	5	-8	316	328	99	4	6	-6	113	114	99	5	0	19	655	659	99	5	1	11	337	339	99	5	2	-5	40	42	99
4	5	-7	85	61	99	4	6	-5	128	149	99	5	0	21	732	705	99	5	1	12	220	226	99	5	2	-4	349	344	99
4	5	-6	193	188	99	4	6	-4	252	253	99	5	0	23	598	580	99	5	1	13	530	525	99	5	2	-3	567	559	99
4	5	-5	-46	48	99	4	6	-3	60	48	99	5	0	25	447	433	99	5	1	14	318	311	99	5	2	-2	-78	56	99
4	5	-4	321	319	99	4	6	-2	231	247	99	5	0	27	300	297	99	5	1	15	19	26	99	5	2	-1	671	642	99
4	5	-3	-62	121	99	4	6	-1	-95	42	99	5	0	29	541	541	99	5	1	16	434	423	99	5	2	0	160	159	99
4	5	-2	302	310	99	4	6	0	47	46	99	5	0	31	386	380	99	5	1	17	86	75	99	5	2	1	607	597	99
4	5	-1	291	279	99	4	6	1	77	73	99	5	0	33	135	124	99	5	1	18	168	160	99	5	2	2	342	339	99
4	5	0	681	673	99	4	6	2	14	25	99	5	0	35	486	478	99	5	1	19	541	537	99	5	2	3	619	627	99
4	5	1	431	434	99	4	6	3	-103	34	99	5	1	-35	21	33	99	5	1	20	142	102	99	5	2	4	714	709	99
4	5	2	936	935	99	4	6	4	176	169	99	5	1	-34	111	100	99	5	1	21	693	711	99	5	2	5	1106	1128	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	2	6	517	532	99	5	3	-10	357	357	99	5	4	-26	461	472	99	5	4	29	181	181	99	5	5	22	122	140	99
5	2	7	887	895	99	5	3	-9	310	309	99	5	4	-25	218	183	99	5	4	30	435	410	99	5	5	23	254	254	99
5	2	8	787	806	99	5	3	-8	808	773	99	5	4	-24	272	307	99	5	4	31	112	117	99	5	5	24	59	45	99
5	2	9	1142	1170	99	5	3	-7	425	405	99	5	4	-23	193	190	99	5	4	32	289	284	99	5	5	25	271	259	99
5	2	10	901	880	99	5	3	-6	1099	1101	99	5	4	-22	23	29	99	5	4	33	72	5	99	5	5	26	73	10	99
5	2	11	1136	1148	99	5	3	-5	330	309	99	5	4	-21	97	89	99	5	5	-28	126	90	99	5	5	27	362	356	99
5	2	12	498	469	99	5	3	-4	899	872	99	5	4	-20	51	42	99	5	5	-27	285	306	99	5	6	-17	173	146	99
5	2	13	884	892	99	5	3	-3	598	575	99	5	4	-19	313	324	99	5	5	-26	143	113	99	5	6	-16	-89	27	99
5	2	14	335	334	99	5	3	-2	961	965	99	5	4	-18	248	250	99	5	5	-25	367	169	99	5	6	-15	36	138	99
5	2	15	856	858	99	5	3	-1	870	853	99	5	4	-17	417	416	99	5	5	-24	238	222	99	5	6	-14	61	36	99
5	2	16	569	552	99	5	3	0	423	416	99	5	4	-16	209	229	99	5	5	-23	278	280	99	5	6	-13	184	160	99
5	2	17	909	932	99	5	3	1	491	488	99	5	4	-15	267	257	99	5	5	-22	360	381	99	5	6	-12	55	86	99
5	2	18	211	221	99	5	3	2	327	335	99	5	4	-14	51	45	99	5	5	-21	213	214	99	5	6	-11	-42	37	99
5	2	19	780	767	99	5	3	3	-44	18	99	5	4	-13	-28	88	99	5	5	-20	345	352	99	5	6	-10	-69	62	99
5	2	20	247	249	99	5	3	4	360	344	99	5	4	-12	69	16	99	5	5	-19	251	243	99	5	6	-9	188	172	99
5	2	21	681	673	99	5	3	5	142	134	99	5	4	-11	187	194	99	5	5	-18	292	269	99	5	6	-8	59	30	99
5	2	22	303	299	99	5	3	6	281	274	99	5	4	-10	314	306	99	5	5	-17	507	506	99	5	6	-7	195	177	99
5	2	23	730	735	99	5	3	7	129	138	99	5	4	-9	326	332	99	5	5	-16	399	385	99	5	6	-6	43	11	99
5	2	24	285	281	99	5	3	8	501	500	99	5	4	-8	381	381	99	5	5	-15	619	646	99	5	6	-5	157	155	99
5	2	25	536	526	99	5	3	9	197	209	99	5	4	-7	388	390	99	5	5	-14	318	318	99	5	6	-4	78	50	99
5	2	26	387	392	99	5	3	10	586	597	99	5	4	-6	545	540	99	5	5	-13	686	686	99	5	6	-3	-80	16	99
5	2	27	366	369	99	5	3	11	59	40	99	5	4	-5	233	227	99	5	5	-12	278	285	99	5	6	-2	270	254	99
5	2	28	196	177	99	5	3	12	122	120	99	5	4	-4	638	631	99	5	5	-11	633	638	99	5	6	-1	-115	7	99
5	2	29	57	50	99	5	3	13	259	259	99	5	4	-3	104	95	99	5	5	-10	336	351	99	5	6	0	424	429	99
5	2	30	125	109	99	5	3	14	185	179	99	5	4	-2	296	286	99	5	5	-9	489	504	99	5	6	1	71	93	99
5	2	31	-75	15	99	5	3	15	268	262	99	5	4	-1	165	180	99	5	5	-8	120	94	99	5	6	2	460	452	99
5	2	32	-111	21	99	5	3	16	407	403	99	5	4	0	422	427	99	5	5	-7	340	318	99	5	6	3	50	69	99
5	2	33	-40	76	99	5	3	17	-46	44	99	5	4	1	282	265	99	5	5	-6	71	14	99	5	6	4	558	530	99
5	2	34	199	190	99	5	3	18	281	296	99	5	4	2	499	486	99	5	5	-5	262	260	99	5	6	5	33	22	99
5	2	35	-57	7	99	5	3	19	305	292	99	5	4	3	370	354	99	5	5	-4	84	79	99	5	6	6	507	512	99
5	3	-35	107	115	99	5	3	20	436	434	99	5	4	4	555	541	99	5	5	-3	345	336	99	5	6	7	-106	5	99
5	3	-34	-28	10	99	5	3	21	472	466	99	5	4	5	593	604	99	5	5	-2	280	257	99	5	6	8	472	470	99
5	3	-33	94	49	99	5	3	22	591	587	99	5	4	6	464	465	99	5	5	-1	449	458	99	5	6	9	43	11	99
5	3	-32	63	83	99	5	3	23	376	365	99	5	4	7	490	463	99	5	5	0	371	367	99	5	6	10	385	394	99
5	3	-31	152	136	99	5	3	24	452	454	99	5	4	8	330	329	99	5	5	1	560	526	99	5	6	11	25	9	99
5	3	-30	-49	76	99	5	3	25	325	308	99	5	4	9	567	551	99	5	5	2	111	99	99	5	6	12	349	361	99
5	3	-29	45	29	99	5	3	26	575	590	99	5	4	10	384	371	99	5	5	3	440	435	99	5	6	13	127	118	99
5	3	-28	90	75	99	5	3	27	231	225	99	5	4	11	455	465	99	5	5	4	114	92	99	5	6	14	427	439	99
5	3	-27	270	279	99	5	3	28	324	330	99	5	4	12	377	381	99	5	5	5	329	334	99	5	6	15	167	161	99
5	3	-26	371	383	99	5	3	29	-66	27	99	5	4	13	358	349	99	5	5	6	83	129	99	5	6	16	572	597	99
5	3	-25	476	458	99	5	3	30	323	317	99	5	4	14	436	432	99	5	5	7	139	131	99	6	0	-34	276	259	99
5	3	-24	571	560	99	5	3	31	82	82	99	5	4	15	311	318	99	5	5	8	322	331	99	6	0	-32	-27	40	99
5	3	-23	543	519	99	5	3	32	373	366	99	5	4	16	462	483	99	5	5	9	-54	53	99	6	0	-30	280	272	99
5	3	-22	349	354	99	5	3	33	284	282	99	5	4	17	171	150	99	5	5	10	151	181	99	6	0	-28	584	569	99
5	3	-21	449	478	99	5	3	34	508	465	99	5	4	18	556	560	99	5	5	11	56	27	99	6	0	-26	110	83	99
5	3	-20	267	281	99	5	3	35	411	396	99	5	4	19	224	215	99	5	5	12	170	155	99	6	0	-24	63	57	99
5	3	-19	514	522	99	5	4	-35	315	327	99	5	4	20	260	271	99	5	5	13	143	144	99	6	0	-22	357	370	99
5	3	-18	340	338	99	5	4	-34	387	394	99	5	4	21	344	373	99	5	5	14	249	248	99	6	0	-20	186	180	99
5	3	-17	525	547	99	5	4	-33	329	320	99	5	4	22	177	178	99	5	5	15	40	36	99	6	0	-18	58	26	99
5	3	-16	367	381	99	5	4	-32	472	495	99	5	4	23	262	260	99	5	5	16	182	163	99	6	0	-16	666	654	99
5	3	-15	562	577	99	5	4	-31	374	307	99	5	4	24	220	215	99	5	5	17	-52	60	99	6	0	-14	634	640	99
5	3	-14	340	339	99	5	4	-30	575	620	99	5	4	25	226	233	99	5	5	18	-48	10	99	6	0	-12	619	587	99
5	3	-13	815	842	99	5	4	-29	411	341	99	5	4	26	105	93	99	5	5	19	134	161	99	6	0	-10	719	685	99
5	3	-12	714	731	99	5	4	-28	638	675	99	5	4	27	293	301	99	5	5	20	175	173	99	6	0	-8	989	962	99
5	3	-11	517	514	99	5	4	-27	350	243	99	5	4	28	389	383	99	5	5	21	209	203	99	6	0	-6	1398	1416	99
6	0	-4	921	909	99	6	1	0	-25	11	99	6	2	-16	753	752	99	6	3	-32	309	210	99	6	3	23	159	167	99
6	0	-2	809	803	99	6	1	1	602	622	99	6	2	-15	500	483	99	6	3	-31	540	568	99	6	3	24	389	382	99
6	0	0	1130	1098	99	6	1	2	77	32	99	6	2	-14	992	974	99	6	3	-30	438	397	99	6	3	25	341	343	99
6	0	2	758	736	99	6	1	3	789	823	99	6	2	-13	328	292	99	6	3	-29	617	615	99	6	3	26	287	289	99
6	0	4	1080	1071	99	6	1	4	-112	15	99	6	2	-12	999	1037	99	6	3	-28	424	379	99	6	3	27	379	368	99
6	0	6	1175	1189	99	6	1	5	558	562	99	6	2	-11	149	146	99	6	3	-27	575	594	99	6	3	28	361	367	99
6	0	8	973	968	99	6	1	6	23	22	99	6	2	-10	594	592	99	6	3	-26	315	262	99	6	3	29	364	370	99
6	0	10	1043	1029	99	6	1	7	377	371	99	6	2	-9	409	408	99	6	3	-25	522	541	99	6	3	30	269	255	99
6	0	12	1014	1017	99	6	1	8	240	221	99	6	2	-8	788	792	99	6	3	-24	255	227	99	6	3	31	469	482	99
6	0	14	297	284	99	6	1	9	543	526	99	6	2	-7	453	465	99	6	3	-23	298	311	99	6	3	32	275	261	99
6	0	16	214	208	99	6	1	10	289	280	99	6	2	-6	521	521	99	6	3	-22	147	125	99	6	3	33	409	373	99
6	0	18	158	153	99	6	1	11	717	688	99	6	2	-5	219	218	99	6	3	-21	395	414	99	6	3	34	218	211	99
6	0	20	259	244	99	6	1	12	119	84	99	6	2	-4	904	902	99	6	3	-20	142	125	99	6	3	35	229	209	99
6	0	22	53	51	99	6	1	13	984	1010	99	6	2	-3	328	337	99	6	3	-19	444	448	99	6	4	-31	95	140	99
6	0	24	106	81	99	6	1	14	293	283	99	6	2	-2	1097	1096	99	6	3	-18	314	328	99	6	4	-30	107	75	99
6	0	26	154	135	99	6	1	15	1000	1006	99	6	2	-1	587	600	99	6	3	-17	468	460	99	6	4	-29	171	164	99
6	0	28	409	404	99	6	1	16	209	189	99	6	2	0	797	794	99	6	3	-16	304	302	99	6	4	-28	123	136	99
6	0	30	811	802	99	6	1	17	945	955	99	6	2	1	509	488	99	6	3	-15	428	415	99	6	4	-27	48	27	99
6	0	32	771	791	99	6	1	18	260	248	99	6	2	2	746	763	99	6	3	-14	397	393	99	6	4	-26	69	2	99
6	0	34	590	584	99	6	1	19	759	767	99	6	2	3	453	445	99	6	3	-13	342	338	99	6	4	-25	309	316	99
6	1	-35	432	435	99	6	1	20	47	44	99	6	2	4	385	378	99	6	3	-12	588	610	99	6	4	-24	23	103	99
6	1	-34	195	112	99	6	1	21	706	731	99	6	2	5	356	360	99	6	3	-11	319	330	99	6	4	-23	385	401	99
6	1	-33	518	522	99	6	1	22	145	103	99	6	2	6	249	235	99	6	3	-10	243	256	99	6	4	-22	212	215	99
6	1	-32	329	272	99	6	1	23	736	730	99	6	2	7	66	65	99	6	3	-9	53	10	99	6	4	-21	234	237	99
6	1	-31	507	502	99	6	1	24	95	29	99	6	2	8	573	552	99	6	3	-8	112	133	99	6	4	-20	232	245	99
6	1	-30	433	405	99	6	1	25	670	699	99	6	2	9	516	515	99	6	3	-7	70	122	99	6	4	-19	13	66	99
6	1	-29	511	524	99	6	1	26	-42	27	99	6	2	10	433	423	99	6	3	-6	234	219	99	6	4	-18	317	296	99
6	1	-28	433	402	99	6	1	27	674	664	99	6	2	11	355	331	99	6	3	-5	286	282	99	6	4	-17	69	31	99
6	1	-27	391	380	99	6	1	28	-55	69	99	6	2	12	127	106	99	6	3	-4	92	92	99	6	4	-16	282	267	99
6	1	-26	480	454	99	6	1	29	567	573	99	6	2	13	101	101	99	6	3	-3	594	582	99	6	4	-15	-29	32	99
6	1	-25	648	629	99	6	1	30	431	412	99	6	2	14	54	79	99	6	3	-2	98	95	99	6	4	-14	248	231	99
6	1	-24	321	304	99	6	1	31	192	170	99	6	2	15	470	460	99	6	3	-1	512	493	99	6	4	-13	265	257	99
6	1	-23	857	862	99	6	1	32	302	287	99	6	2	16	-18	9	99	6	3	0	181	167	99	6	4	-12	270	256	99
6	1	-22	98	42	99	6	1	33	179	169	99	6	2	17	612	613	99	6	3	1	101	116	99	6	4	-11	437	435	99
6	1	-21	712	700	99	6	1	34	155	124	99	6	2	18	148	158	99	6	3	2	134	150	99	6	4	-10	168	149	99
6	1	-20	166	152	99	6	1	35	340	324	99	6	2	19	134	125	99	6	3	3	251	234	99	6	4	-9	616	611	99
6	1	-19	796	780	99	6	2	-35	148	64	99	6	2	20	-12	17	99	6	3	4	36	36	99	6	4	-8	338	343	99
6	1	-18	84	79	99	6	2	-34	251	235	99	6	2	21	63	44	99	6	3	5	316	310	99	6	4	-7	642	605	99
6	1	-17	564	556	99	6	2	-33	129	66	99	6	2	22	107	110	99	6	3	6	426	413	99	6	4	-6	354	356	99
6	1	-16	372	354	99	6	2	-32	102	91	99	6	2	23	342	342	99	6	3	7	144	114	99	6	4	-5	565	553	99
6	1	-15	390	379	99	6	2	-31	117	99	99	6	2	24	-16	90	99	6	3	8	791	811	99	6	4	-4	472	442	99
6	1	-14	514	484	99	6	2	-30	55	35	99	6	2	25	402	403	99	6	3	9	480	505	99	6	4	-3	573	575	99
6	1	-13	225	206	99	6	2	-29	236	240	99	6	2	26	265	257	99	6	3	10	625	617	99	6	4	-2	534	500	99
6	1	-12	121	312	99	6	2	-28	111	32	99	6	2	27	-16	54	99	6	3	11	538	557	99	6	4	-1	459	467	99
6	1	-11	159	158	99	6	2	-27	137	152	99	6	2	28	385	372	99	6	3	12	376	362	99	6	4	0	454	446	99
6	1	-10	56	63	99	6	2	-26	186	190	99	6	2	29	-18	75	99	6	3	13	580	576	99	6	4	1	389	374	99
6	1	-9	453	443	99	6	2	-25	137	134	99	6	2	30	324	308	99	6	3	14	336	344	99	6	4	2	471	456	99
6	1	-8	227	234	99	6	2	-24	86	116	99	6	2	31	-80	11	99	6	3	15	518	528	99	6	4	3	557	548	99
6	1	-7	496	482	99	6	2	-23	-34	57	99	6	2	32	233	224	99	6	3	16	383	388	99	6	4	4	453	466	99
6	1	-6	509	501	99	6	2	-22	98	89	99	6	2	33	35	24	99	6	3	17	370	371	99	6	4	5	627	660	99
6	1	-5	319	335	99	6	2	-21	406	398	99	6	2	34	215	201	99	6	3	18	478	486	99	6	4	6	263	255	99
6	1	-4	671	646	99	6	2	-20	385	364	99	6	2	35	-42	53	99	6	3	19	331	341	99	6	4	7	495	494	99
6	1	-3	247	234	99	6	2	-19	660	665	99	6	3	-35	237	245	99	6	3	20	556	547	99	6	4	8	72	111	99
6	1	-2	473	479	99	6	2	-18	740	745	99	6	3	-34	235	212	99	6	3	21	316	306	99	6	4	9	519	533	99
6	1	-1	330	335	99	6	2	-17	520	517	99	6	3	-33	509	530	99	6	3	22	564	550	99	6	4	10	220	219	99

h	k	l	Fo	Fc	sigF2
6	4	11	463	484	99
6	4	12	222	211	99
6	4	13	323	341	99
6	4	14	240	227	99
6	4	15	169	166	99
6	4	16	315	300	99
6	4	17	91	12	99
6	4	18	225	228	99
6	4	19	-31	8	99
6	4	20	-107	37	99
6	4	21	201	208	99
6	4	22	117	125	99
6	4	23	275	262	99
6	4	24	252	251	99
6	4	25	299	293	99
6	4	26	176	211	99
6	4	27	292	281	99
6	4	28	131	123	99
6	4	29	74	82	99
6	4	30	126	119	99
6	5	-24	379	405	99
6	5	-23	78	89	99
6	5	-22	405	407	99
6	5	-21	35	10	99
6	5	-20	540	550	99
6	5	-19	182	177	99
6	5	-18	341	337	99
6	5	-17	144	157	99
6	5	-16	219	202	99
6	5	-15	195	196	99
6	5	-14	245	252	99
6	5	-13	287	276	99
6	5	-12	122	132	99
6	5	-11	143	127	99
6	5	-10	77	55	99
6	5	-9	66	46	99
6	5	-8	57	67	99
6	5	-7	113	103	99
6	5	-6	140	119	99
6	5	-5	-32	14	99
6	5	-4	165	161	99
6	5	-3	281	283	99
6	5	-2	67	16	99
6	5	-1	263	252	99
6	5	0	-47	32	99
6	5	1	175	192	99
6	5	2	188	171	99
6	5	3	-58	45	99
6	5	4	515	534	99
6	5	5	143	126	99
6	5	6	554	567	99
6	5	7	392	384	99
6	5	8	488	501	99
6	5	9	428	442	99
6	5	10	407	423	99
6	5	11	226	233	99
6	5	12	243	256	99
6	5	13	81	124	99
6	5	14	182	176	99
6	5	15	44	98	99
6	5	16	315	318	99
6	5	17	222	221	99
6	5	18	466	493	99
6	5	19	336	353	99
6	5	20	535	526	99
6	5	21	341	354	99
6	5	22	574	607	99
6	5	23	329	317	99
6	6	-9	642	626	99
6	6	-8	294	271	99
6	6	-7	497	502	99
6	6	-6	303	293	99
6	6	-5	396	399	99
6	6	-4	54	92	99
6	6	-3	263	266	99
6	6	-2	44	41	99
6	6	-1	250	258	99
6	6	0	51	11	99
6	6	1	292	301	99
6	6	2	57	25	99
6	6	3	342	345	99
6	6	4	126	147	99
6	6	5	308	333	99
6	6	6	210	207	99
6	6	7	360	344	99
7	0	-35	51	17	99
7	0	-33	221	216	99
7	0	-31	548	561	99
7	0	-29	736	757	99
7	0	-27	790	810	99
7	0	-25	1099	1091	99
7	0	-23	702	735	99
7	0	-21	516	508	99
7	0	-19	681	652	99
7	0	-17	666	636	99
7	0	-15	937	940	99
7	0	-13	906	871	99
7	0	-11	761	756	99
7	0	-9	790	761	99
7	0	-7	481	469	99
7	0	-5	492	487	99
7	0	-3	113	75	99
7	0	-1	356	327	99
7	0	1	405	403	99
7	0	3	509	485	99
7	0	5	302	276	99
7	0	7	-64	28	99
7	0	9	168	151	99
7	0	11	267	252	99
7	0	13	585	561	99
7	1	15	937	932	99
7	0	17	980	987	99
7	0	19	609	632	99
7	0	21	338	336	99
7	0	23	161	125	99
7	0	25	162	182	99
7	0	27	405	405	99
7	0	29	532	521	99
7	0	31	581	564	99
7	0	33	801	801	99
7	0	35	468	443	99
7	1	-35	193	105	99
7	1	-34	371	377	99
7	1	-33	159	37	99
7	1	-32	325	325	99
7	1	-31	150	35	99
7	1	-30	179	197	99
7	1	-29	40	12	99
7	1	-28	94	68	99
7	1	-27	66	41	99
7	1	-26	55	108	99
7	1	-25	64	17	99
7	1	-24	107	145	99
7	1	-23	-45	6	99
7	1	-22	240	245	99
7	1	-21	251	263	99
7	1	-20	346	329	99
7	1	-19	294	283	99
7	1	-18	147	114	99
7	1	-17	129	107	99
7	1	-16	541	526	99
7	1	-15	234	212	99
7	1	-14	790	777	99
7	1	-13	369	359	99
7	1	-12	834	814	99
7	1	-11	275	263	99
7	1	-10	604	590	99
7	1	-9	104	87	99
7	1	-8	519	504	99
7	1	-7	265	251	99
7	1	-6	397	395	99
7	1	-5	508	507	99
7	1	-4	467	437	99
7	1	-3	281	274	99
7	1	-2	905	886	99
7	1	-1	142	122	99
7	1	0	1044	1080	99
7	1	1	84	153	99
7	1	2	1009	1028	99
7	1	3	146	149	99
7	1	4	941	974	99
7	1	5	282	299	99
7	1	6	685	734	99
7	1	7	358	357	99
7	1	8	615	612	99
7	1	9	350	344	99
7	1	10	496	502	99
7	1	11	388	379	99
7	1	12	444	455	99
7	1	13	316	319	99
7	1	14	317	319	99
7	1	15	479	465	99
7	1	16	545	549	99
7	1	17	238	234	99
7	1	18	450	451	99
7	1	19	-69	41	99
7	1	20	201	198	99
7	1	21	92	71	99
7	1	22	311	323	99
7	1	23	192	183	99
7	1	24	195	176	99
7	1	25	120	112	99
7	1	26	-29	74	99
7	1	27	35	7	99
7	1	28	-34	84	99
7	1	29	92	83	99
7	1	30	185	168	99
7	1	31	-29	5	99
7	1	32	248	230	99
7	1	33	183	165	99
7	1	34	272	255	99
7	1	35	230	211	99
7	2	-35	289	250	99
7	2	-34	311	294	99
7	2	-33	329	309	99
7	2	-32	283	264	99
7	2	-31	320	309	99
7	2	-30	145	36	99
7	2	-29	417	438	99
7	2	-28	177	63	99
7	2	-27	417	441	99
7	2	-26	135	28	99
7	2	-25	353	356	99
7	2	-24	159	138	99
7	2	-23	282	285	99
7	2	-22	296	284	99
7	2	-21	453	450	99
7	2	-20	450	422	99
7	2	-19	575	589	99
7	2	-18	297	281	99
7	2	-17	682	684	99
7	2	-16	95	65	99
7	2	-15	439	432	99
7	2	-14	314	333	99
7	2	-13	430	405	99
7	2	-12	312	312	99
7	2	-11	366	353	99
7	2	-10	218	207	99
7	2	-9	355	369	99
7	2	-8	139	114	99
7	2	-7	498	487	99
7	2	-6	76	25	99
7	2	-5	439	455	99
7	2	-4	-81	40	99
7	2	-3	579	577	99
7	2	-2	263	281	99
7	2	-1	424	431	99
7	2	0	506	521	99
7	2	1	68	152	99
7	2	2	425	427	99
7	2	3	199	179	99
7	2	4	176	171	99
7	2	5	-34	66	99
7	2	6	165	191	99
7	2	7	151	54	99
7	2	8	437	439	99
7	2	9	291	289	99
7	2	10	412	417	99
7	2	11	209	210	99
7	2	12	243	250	99
7	2	13	331	341	99
7	2	14	200	167	99
7	2	15	455	462	99
7	2	16	-6	62	99
7	2	17	573	598	99
7	2	18	20	93	99
7	2	19	700	685	99
7	2	20	320	341	99
7	2	21	642	644	99
7	2	22	399	395	99
7	2	23	568	570	99
7	2	24	549	546	99
7	2	25	590	578	99
7	2	26	471	463	99
7	2	27	564	565	99
7	2	28	372	366	99
7	2	29	594	581	99
7	2	30	190	186	99
7	2	31	437	426	99
7	2	32	-67	53	99
7	2	33	441	394	99
7	2	34	72	32	99
7	2	35	232	235	99
7	2	36	123	101	99
7	2	37	-47	7	99
7	2	38	265	248	99
7	2	39	192	198	99
7	2	40	161	172	99
7	3	-19	331	331	99
7	3	-18	14	64	99
7	3	-17	224	234	99
7	3	-16	209	223	99
7	3	-15	52	106	99
7	3	-14	-94	92	99
7	3	-13	65	54	99
7	3	-12	-43	26	99
7	3	-11	133	124	99
7	3	-10	251	249	99
7	3	-9	563	554	99
7	3	-8	521	521	99
7	3	-7	596	585	99
7	3	-6	355	330	99
7	3	-5	584	569	99
7	3	-4	696	664	99
7	3	-3	669	674	99
7	3	-2	516	510	99
7	3	-1	435	435	99
7	3	0	478	473	99
7	3	1	252	245	99
7	3	2	480	471	99
7	3	3	400	381	99
7	3	4	340	330	99
7	3	5	420	419	99
7	3	6	464	446	99
7	3	7	319	319	99
7	3	8	654	655	99
7	3	9	318	324	99
7	3	10	661	678	99
7	3	11	344	342	99
7	3	12	795	815	99
7	3	13	222	204	99
7	3	14	678	725	99
7	3	15	75	139	99
7	3	16	319	309	99
7	3	17	231	234	99
7	3	18	112	110	99
7	3	19	218	216	99
7	3	20	95	31	99
7	3	21	-77	50	99
7	3	22	-63	79	99
7	3	23	-23	28	99
7	3	24	-42	62	99
7	3	25	86	76	99
7	3	26	-116	22	99
7	3	27	20	54	99
7	3	28	-119	18	99
7	3	29	60	22	99
7	3	30	51	29	99
7	4	-27	153	32	99
7	4	-26	391	418	99
7	4	-25	234	215	99
7	4	-24	512	533	99
7	4	-23	275	271	99
7	4	-22	521	503	99
7	4	-21	399	410	99
7	4	-20	403	415	99
7	4	-19	463	471	99
7	4	-18	346	376	99
7	4	-17	429	431	99
7	4	-16	388	383	99
7	4	-15	417	414	99
7	4	-14	427	413	99
7	4	-13	318	319	99
7	4	-12	533	532	99
7	4	-11	167	162	99
7	4	-10	444	441	99
7	4	-9	143	139	99
7	4	-8	316	327	99
7	4	-7	29	77	99
7	4	-6	189	202	99
7	4	-5	96	96	99
7	4	-4	69	98	99
7	4	-3	169	179	99
7	4	-2	280	258	99
7	4	-1	234	213	99
7	4	0	131	136	99
7	4	1	284	273	99
7	4	2	43	47	99
7	4	3	53	43	99
7	4	4	126	99	99
7	4	5	101	104	99
7	4	6	142	150	99
7	4	7	369	393	99
7	4	8	311	328	99
7	4	9	430	434	99
7	4	10	271	279	99
7	4	11	229	225	99
7	4	12	352	377	99
7	4	13	203	211	99
7	4	14	301	333	99
7	4	15	-121	79	99
7	4	16	198	208	99
7	4	17	-55	19	99
7	4	18	18	101	99
7	4	19	185	165	99
7	4	20	213	193	99
7	4	21	244	247	99
7	4	22	357	396	99
7	4	23	397	384	99
7	4	24	231	247	99
7	4	25	412	420	99
7	5	-17	-116	125	99
7	5	-16	162	166	99
7	5	-15	180	161	99
7	5	-14	33	58	99
7	5	-13	317	323	99
7	5	-12	-102	6	99
7	5	-11	346	343	99
7	5	-10	83	121	99
7	5	-9	306	293	99
7	5	-8	332	328	99
7	5	-7	161	356	99
7	5	-6	515	493	99
7	5	-5	325	327	99
7	5	-4	336	322	99
7	5	-3	303	294	99
7	5	-2	256	242	99
7	5	-1	349	347	99
7	5	0	136	125	99
7	5	1	427	413	99
7	5	2	49	92	99
7	5	3	468	480	99
7	5	4	216	188	99
7	5	5	520	538	99
7	5	6	137	140	99
7	5	7	454	475	99
7	5	8	39	120	99
7	5	9	324	349	99
7	5	10	94	39	99
7	5	11	293	296	99
7	5	12	59	11	99
7	5	13	172	201	99
7	5	14	-75	31	99
7	5	15	109	129	99
7	5	16	187	187	99
8	0	-34	447	456	99
8	0	-32	462	464	99
8	0	-30	357	338	99
8	0	-28	197	197	99
8	0	-26	-44	45	99
8	0	-24	98	49	99
8	0	-22	263	287	99
8	0	-20	386	385	99
8	0	-18	204	200	99
8	0	-16	255	261	99
8	0	-14	103	69	99
8	0	-12	272	279	99
8	0	-10	349	329	99
8	0	-8	273	267	99
8	0	-6	14	102	99
8	0	-4	190	172	99
8	0	-2	378	353	99
8	0	0	124	118	99
8	0	2	530	513	99
8	0	4	944	940	99
8	0	6	914	939	99
8	0	8	747	789	99
8	0	10	729	744	99
8	0	12	547	534	99
8	0	14	614	608	99
8	0	16	971	1011	99
8	0	18	599	614	99
8	0	20	552	570	99
8	0	22	488	496	99
8	0	24	289	294	99
8	0	26	269	287	99
8	0	28	267	251	99
8	0	30	299	287	99
8	0	32	102	20	99
8	1	-33	58	20	99
8	1	-32	169	164	99
8	1	-31	48	128	99
8	1	-30	65	47	99
8	1	-29	263	259	99
8	1	-28	110	90	99
8	1	-27	471	483	99
8	1	-26	167	51	99
8	1	-25	532	544	99
8	1	-24	54	47	99
8	1	-23	358	378	99
8	1	-22	234	224	99
8	1	-21	431	459	99
8	1	-20	302	300	99
8	1	-19	490	496	99
8	1	-18	-46	29	99
8	1	-17	404	414	99
8	1	-16	248	221	99
8	1	-15	504	518	99
8	1	-14	471	452	99
8	1	-13	661	670	99
8	1	-12	337	320	99
8	1	-11	694	694	99
8	1	-10	388	384	99
8	1	-9	642	621	99
8	1	-8	226	222	99
8	1	-7	567	551	99
8	1	-6	180	165	99
8	1	-5	598	603	99
8	1	-4	68	42	99
8	1	-3	500	506	99
8	1	-2	208	201	99
8	1	-1	597	589	99
8	1	0	-74	28	99
8	1	1	478	477	99
8	1	2	-116	25	99
8	1	3	276	268	99
8	1	4	-55	48	99
8	1	5	-41	143	99
8	1	6	63	71	99
8	1	7	65	46	99
8	1	8	86	71	99
8	1	9	-65	57	99
8	1	10	158	161	99
8	1	11	127	138	99
8	1	12	206	217	99
8	1	13	124	138	99
8	1	14	315	311	99
8	1	15	174	167	99
8	1	16	163	151	99
8	1	17	373	367	99
8	1	18	-35	69	99
8	1	19	549	574	99
8	1	20	90	127	99
8	1	21	551	539	99
8	1	22	194	167	99
8	1	23	376	391	99
8	1	24	14	6	99
8	1	25	311	311	99
8	1	26	85	53	99
8	1	27	358	339	99
8	1	28	54	82	99
8	1	29	382	369	99
8	1	30	-126	51	99
8	1	31	579	534	99
8	2	-31	176	126	99
8	2	-30	427	459	99
8	2	-29	215	194	99
8	2	-28	428	436	99
8	2	-27	321	276	99
8	2	-26	409	407	99
8	2	-25	329	319	99
8	2	-24	347	348	99
8	2	-23	405	386	99
8	2	-22	290	288	99
8	2	-21	140	131	99
8	2	-20	214	222	99
8	2	-19	58	15	99
8	2	-18	192	233	99
8	2	-17	227	193	99
8	2	-16	91	89	99
8	2	-15	273	255	99
8	2	-14	188	179	99
8	2	-13	63	4	99
8	2	-12	-27	88	99
8	2	-11	27	11	99
8	2	-10	387	382	99
8	2	-9	133	123	99
8	2	-8	398	388	99
8	2	-7	97	45	99
8	2	-6	263	256	99
8	2	-5	416	426	99
8	2	-4	295	282	99
8	2	-3	512	515	99
8	2	-2	399	391	99
8	2	-1	368	366	99
8	2	0	727	765	99
8	2	1	373	382	99
8	2	2	791	642	99
8	2	3	287	293	99
8	2	4	660	669	99
8	2	5	74	76	99
8	2	6	602	596	99
8	2	7	155	160	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
8	2	8	414	442	99	8	3	6	215	207	99	8	4	15	363	362	99	9	1	-3	76	104	99	9	2	2	176	168	99
8	2	9	339	338	99	8	3	7	86	83	99	8	4	16	292	280	99	9	1	-2	75	60	99	9	2	3	495	499	99
8	2	10	269	272	99	8	3	8	246	249	99	8	4	17	225	222	99	9	1	-1	143	118	99	9	2	4	123	136	99
8	2	11	246	255	99	8	3	9	66	75	99	8	4	18	198	220	99	9	1	0	144	170	99	9	2	5	382	399	99
8	2	12	439	436	99	8	3	10	14	11	99	9	0	-27	244	240	99	9	1	1	70	102	99	9	2	6	145	133	99
8	2	13	65	98	99	8	3	11	80	83	99	9	0	-25	336	349	99	9	1	2	493	498	99	9	2	7	210	244	99
8	2	14	489	481	99	8	3	12	266	280	99	9	0	-23	355	340	99	9	1	3	393	384	99	9	2	8	83	108	99
8	2	15	138	116	99	8	3	13	268	284	99	9	0	-21	382	395	99	9	1	4	673	689	99	9	2	9	141	330	99
8	2	16	457	468	99	8	3	14	131	140	99	9	0	-19	208	204	99	9	1	5	207	219	99	9	2	10	143	116	99
8	2	17	155	152	99	8	3	15	227	230	99	9	0	-17	-88	28	99	9	1	6	663	689	99	9	2	11	248	241	99
8	2	18	389	406	99	8	3	16	85	13	99	9	0	-15	317	321	99	9	1	7	-80	102	99	9	2	12	159	134	99
8	2	19	284	272	99	8	3	17	208	212	99	9	0	-13	744	763	99	9	1	8	464	488	99	9	2	13	-96	192	99
8	2	20	335	324	99	8	3	18	37	21	99	9	0	-11	1123	1118	99	9	1	9	170	187	99	9	2	14	168	128	99
8	2	21	194	194	99	8	3	19	97	69	99	9	0	-9	1055	1061	99	9	1	10	343	355	99	9	2	15	186	183	99
8	2	22	262	266	99	8	3	20	55	93	99	9	0	-7	873	878	99	9	1	11	288	294	99	9	2	16	161	142	99
8	2	23	64	114	99	8	3	21	85	51	99	9	0	-5	556	567	99	9	1	12	199	201	99	9	2	17	147	142	99
8	2	24	165	143	99	8	3	22	246	220	99	9	0	-3	273	263	99	9	1	13	302	328	99	9	2	18	128	113	99
8	2	25	24	57	99	8	3	23	248	220	99	9	0	-1	259	271	99	9	1	14	328	341	99	9	2	19	126	70	99
8	2	26	165	124	99	8	3	24	339	310	99	9	0	1	366	371	99	9	1	15	165	170	99	9	2	20	58	10	99
8	2	27	61	64	99	8	3	25	166	174	99	9	0	3	607	605	99	9	1	16	445	469	99	9	2	21	166	170	99
8	2	28	193	189	99	8	4	-20	36	27	99	9	0	5	575	575	99	9	1	17	105	83	99	9	2	22	110	114	99
8	2	29	43	25	99	8	4	-19	-152	11	99	9	0	7	347	348	99	9	1	18	528	533	99	9	3	-19	304	306	99
8	3	-27	269	276	99	8	4	-18	86	45	99	9	0	9	127	155	99	9	1	19	147	116	99	9	3	-18	111	106	99
8	3	-26	122	119	99	8	4	-17	136	124	99	9	0	11	251	238	99	9	1	20	714	745	99	9	3	-17	243	233	99
8	3	-25	275	272	99	8	4	-16	99	39	99	9	0	13	67	19	99	9	1	21	91	90	99	9	3	-16	281	276	99
8	3	-24	151	156	99	8	4	-15	182	156	99	9	0	15	41	142	99	9	1	22	519	527	99	9	3	-15	-73	109	99
8	3	-23	274	299	99	8	4	-14	113	63	99	9	0	17	168	183	99	9	1	23	155	165	99	9	3	-14	392	386	99
8	3	-22	240	219	99	8	4	-13	-186	76	99	9	0	19	308	328	99	9	1	24	318	293	99	9	3	-13	122	88	99
8	3	-21	287	289	99	8	4	-12	114	107	99	9	0	21	199	172	99	9	1	25	182	188	99	9	3	-12	274	274	99
8	3	-20	381	371	99	8	4	-11	68	83	99	9	0	23	40	80	99	9	2	-24	9	80	99	9	3	-11	159	125	99
8	3	-19	308	299	99	8	4	-10	-88	18	99	9	0	25	89	13	99	9	2	-23	290	291	99	9	3	-10	47	48	99
8	3	-18	362	380	99	8	4	-9	39	96	99	9	1	-27	69	96	99	9	2	-22	-118	91	99	9	3	-9	77	121	99
8	3	-17	530	521	99	8	4	-8	48	24	99	9	1	-26	504	491	99	9	2	-21	289	262	99	9	3	-8	-86	21	99
8	3	-16	299	262	99	8	4	-7	206	192	99	9	1	-25	31	77	99	9	2	-20	235	238	99	9	3	-7	-77	33	99
8	3	-15	682	644	99	8	4	-6	148	139	99	9	1	-24	527	531	99	9	2	-19	231	216	99	9	3	-6	153	152	99
8	3	-14	266	245	99	8	4	-5	258	259	99	9	1	-23	143	108	99	9	2	-18	357	338	99	9	3	-5	184	162	99
8	3	-13	699	675	99	8	4	-4	310	286	99	9	1	-22	518	527	99	9	2	-17	268	258	99	9	3	-4	165	153	99
8	3	-12	184	173	99	8	4	-3	327	317	99	9	1	-21	149	122	99	9	2	-16	473	471	99	9	3	-3	233	226	99
8	3	-11	547	522	99	8	4	-2	321	316	99	9	1	-20	352	367	99	9	2	-15	388	358	99	9	3	-2	99	63	99
8	3	-10	208	191	99	8	4	-1	205	212	99	9	1	-19	21	135	99	9	2	-14	105	67	99	9	3	-1	247	263	99
8	3	-9	489	488	99	8	4	0	241	250	99	9	1	-18	364	361	99	9	2	-13	364	368	99	9	3	0	-130	36	99
8	3	-8	386	384	99	8	4	1	-50	118	99	9	1	-17	66	16	99	9	2	-12	178	154	99	9	3	1	327	337	99
8	3	-7	308	298	99	8	4	2	173	173	99	9	1	-16	234	258	99	9	2	-11	362	339	99	9	3	2	-50	11	99
8	3	-6	385	364	99	8	4	3	54	129	99	9	1	-15	-17	37	99	9	2	-10	-111	31	99	9	3	3	176	185	99
8	3	-5	238	263	99	8	4	4	190	169	99	9	1	-14	190	169	99	9	2	-9	432	417	99	9	3	4	81	25	99
8	3	-4	230	234	99	8	4	5	252	241	99	9	1	-13	64	77	99	9	2	-8	-37	24	99	9	3	5	-76	32	99
8	3	-3	280	279	99	8	4	6	222	194	99	9	1	-12	139	118	99	9	2	-7	391	397	99	9	3	6	140	162	99
8	3	-2	269	263	99	8	4	7	390	383	99	9	1	-11	-28	40	99	9	2	-6	240	246	99	9	3	7	125	150	99
8	3	-1	235	219	99	8	4	8	227	217	99	9	1	-10	61	31	99	9	2	-5	358	356	99	9	3	8	279	264	99
8	3	0	217	214	99	8	4	9	589	609	99	9	1	-9	150	130	99	9	2	-4	363	359	99	9	3	9	380	384	99
8	3	1	84	99	99	8	4	10	319	292	99	9	1	-8	62	23	99	9	2	-3	401	396	99	9	3	10	401	397	99
8	3	2	231	217	99	8	4	11	676	716	99	9	1	-7	-103	25	99	9	2	-2	464	453	99	9	3	11	423	448	99
8	3	3	174	153	99	8	4	12	402	417	99	9	1	-6	87	43	99	9	2	-1	515	517	99	9	3	12	534	555	99
8	3	4	248	239	99	8	4	13	559	559	99	9	1	-5	56	23	99	9	2	0	339	349	99	9	3	13	389	402	99
8	3	5	297	307	99	8	4	14	358	362	99	9	1	-4	63	26	99	9	2	1	480	473	99	9	3	14	509	495	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	3	15	326	332	99	10	1	5	489	520	99
9	3	16	472	461	99	10	1	6	194	150	99
9	3	17	194	195	99	10	1	7	475	496	99
9	4	-6	426	410	99	10	1	8	79	10	99
9	4	-5	375	378	99	10	1	9	456	484	99
9	4	-4	452	456	99	10	1	10	-96	34	99
9	4	-3	417	395	99	10	1	11	339	349	99
9	4	-2	425	420	99	10	1	12	-21	31	99
9	4	-1	406	413	99	10	1	13	172	189	99
9	4	0	232	195	99	10	1	14	68	40	99
9	4	1	351	352	99	10	1	15	255	263	99
9	4	2	91	102	99	10	2	-14	336	329	99
9	4	3	257	243	99	10	2	-13	135	76	99
9	4	4	136	119	99	10	2	-12	388	374	99
10	0	-18	334	350	99	10	2	-11	53	94	99
10	0	-16	269	280	99	10	2	-10	342	343	99
10	0	-14	326	335	99	10	2	-9	116	114	99
10	0	-12	266	252	99	10	2	-8	289	318	99
10	0	-10	222	207	99	10	2	-7	-111	119	99
10	0	-8	207	195	99	10	2	-6	135	141	99
10	0	-6	165	173	99	10	2	-5	201	171	99
10	0	-4	-77	118	99	10	2	-4	73	24	99
10	0	-2	142	150	99	10	2	-3	81	72	99
10	0	0	142	132	99	10	2	-2	25	52	99
10	0	2	159	122	99	10	2	-1	164	135	99
10	0	4	65	80	99	10	2	0	24	7	99
10	0	6	84	75	99	10	2	1	188	170	99
10	0	8	338	348	99	10	2	2	149	139	99
10	0	10	388	412	99	10	2	3	94	84	99
10	0	12	221	231	99	10	2	4	234	238	99
10	0	14	273	286	99	10	2	5	191	188	99
10	0	16	123	132	99	10	2	6	271	272	99
10	1	-18	84	80	99	10	2	7	76	108	99
10	1	-17	88	99	99	10	2	8	205	216	99
10	1	-16	170	171	99	10	2	9	-33	26	99
10	1	-15	170	166	99	10	2	10	218	266	99
10	1	-14	-122	14	99	10	2	11	119	137	99
10	1	-13	139	143	99						
10	1	-12	217	200	99						
10	1	-11	290	292	99						
10	1	-10	183	233	99						
10	1	-9	491	471	99						
10	1	-8	106	152	99						
10	1	-7	550	556	99						
10	1	-6	153	172	99						
10	1	-5	458	451	99						
10	1	-4	155	171	99						
10	1	-3	377	396	99						
10	1	-2	226	243	99						
10	1	-1	327	334	99						
10	1	0	75	101	99						
10	1	1	325	347	99						
10	1	2	79	81	99						
10	1	3	495	508	99						
10	1	4	213	212	99						

APPENDIX 4.V

$[Te(S_2CNCy_2)_2]$

Table 4.V.1: Crystallographic Parameters for [Te($S_2CN(CH(CH_2)_5)_2)_2$]

Formula	$C_{26}H_{44}N_2S_4Te$
Formula weight	640.49
Crystal morphology / colour	needle / red
Crystal dimensions (mm)	0.10 x 0.11 x 0.42
Crystal system	monoclinic
Space group	$P2_1/n$ (#14)
a (Å)	9.417(3)
b (Å)	27.11(1)
c (Å)	11.745(3)
α (°)	90
β (°)	102.10(2)
γ (°)	90
V (Å^3)	2932(1)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.451
F(000)	1320
Temperature (°K)	200
μ (cm^{-1})	13.17
θ limits, cell (°)	16.4 – 18.6
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 11, 0 – 35, -13 – 13
Range of transmission factors	0.935 – 1
Scan technique	ω:2θ
No. of data measured	5612
No. of unique data	5279
R_{amal}	0.208
No. of parameters	298
R (I≥0σ(I))	0.138
R_w (I≥0σ(I))	0.153
R (I≥3σ(I))	0.054
R_w (I≥3σ(I))	0.052
Maximum and minimum residual electron density (e Å^{-3})	1.66, -2.69

Table 4.V.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Te(S_2CN(CH(CH_2)_5)_2)_2]$

Atom	*x*	*y*	*z*
Te	0.01453(7)	0.12251(2)	0.39911(6)
S(1)	0.2019(3)	0.06822(10)	0.3399(2)
S(2)	-0.1022(3)	0.0418(1)	0.2563(2)
S(3)	0.2387(3)	0.16611(10)	0.5065(2)
S(4)	-0.0406(3)	0.2069(1)	0.5285(2)
N(1)	0.1180(9)	-0.0158(3)	0.2275(7)
N(2)	0.2137(8)	0.2472(3)	0.6309(7)
C(1)	0.075(1)	0.0258(3)	0.2706(8)
C(2)	0.271(1)	-0.0339(4)	0.2524(9)
C(3)	0.365(1)	-0.0088(4)	0.1830(9)
C(4)	0.514(1)	-0.0346(5)	0.201(1)
C(5)	0.577(1)	-0.0412(5)	0.327(1)
C(6)	0.481(1)	-0.0688(4)	0.393(1)
C(7)	0.336(1)	-0.0424(5)	0.379(1)
C(8)	0.007(1)	-0.0514(4)	0.1669(9)
C(9)	0.029(1)	-0.0707(4)	0.0527(9)
C(10)	-0.095(1)	-0.1018(4)	-0.0052(9)
C(11)	-0.127(1)	-0.1444(5)	0.073(1)
C(12)	-0.141(1)	-0.1244(5)	0.189(1)
C(13)	-0.021(1)	-0.0907(4)	0.2477(9)
C(14)	0.143(1)	0.2112(3)	0.5639(8)
C(15)	0.375(1)	0.2488(4)	0.6765(9)
C(16)	0.459(1)	0.2601(4)	0.5841(9)
C(17)	0.623(1)	0.2631(4)	0.637(1)

Table 4.V.2: Cont.

Atom	*x*	*y*	*z*
C(18)	0.677(1)	0.2189(5)	0.7064(10)
C(19)	0.592(1)	0.2097(4)	0.8023(9)
C(20)	0.432(1)	0.2052(4)	0.7531(8)
C(21)	0.127(1)	0.2889(3)	0.6690(8)
C(22)	0.124(1)	0.2860(4)	0.7947(8)
C(23)	0.035(1)	0.3282(5)	0.830(1)
C(24)	0.078(1)	0.3784(4)	0.7933(10)
C(25)	0.074(1)	0.3793(4)	0.6593(10)
C(26)	0.168(1)	0.3380(4)	0.6284(9)

Table 4.V.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Te(S_2CN(CH(CH_2)_5)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Te	0.0361(4)	0.0341(3)	0.0339(3)	0.0016(4)	0.0071(3)	-0.0042(4)
S(1)	0.032(2)	0.038(2)	0.053(2)	0.001(1)	0.005(1)	-0.012(1)
S(2)	0.033(2)	0.045(2)	0.055(2)	0.001(1)	0.007(1)	-0.015(1)
S(3)	0.031(2)	0.042(2)	0.047(2)	0.002(1)	0.009(1)	-0.014(1)
S(4)	0.036(2)	0.043(2)	0.053(2)	-0.001(1)	0.014(1)	-0.014(1)
N(1)	0.033(5)	0.031(5)	0.047(5)	-0.001(4)	0.010(4)	-0.002(4)
N(2)	0.034(5)	0.028(4)	0.043(5)	0.001(4)	0.014(4)	-0.004(4)
C(1)	0.038(7)	0.030(5)	0.034(6)	-0.005(5)	0.009(5)	0.000(4)
C(2)	0.052(8)	0.046(7)	0.042(7)	0.013(6)	0.012(6)	-0.002(5)
C(3)	0.045(8)	0.056(7)	0.055(7)	0.000(6)	0.012(6)	0.002(6)
C(4)	0.039(8)	0.10(1)	0.10(1)	0.009(8)	0.031(8)	-0.020(9)
C(5)	0.041(8)	0.09(1)	0.09(1)	0.018(8)	0.014(8)	0.001(9)
C(6)	0.047(8)	0.056(7)	0.070(8)	0.015(7)	-0.007(7)	0.003(7)
C(7)	0.045(8)	0.069(8)	0.066(8)	0.005(7)	0.000(6)	0.017(7)
C(8)	0.059(8)	0.034(6)	0.038(6)	-0.011(6)	0.015(5)	-0.008(5)
C(9)	0.095(10)	0.055(8)	0.035(6)	-0.023(8)	0.007(6)	0.000(6)
C(10)	0.090(10)	0.049(7)	0.041(7)	-0.017(7)	0.003(6)	-0.001(6)
C(11)	0.09(1)	0.065(8)	0.063(9)	-0.032(8)	0.015(7)	-0.024(7)
C(12)	0.10(1)	0.079(9)	0.069(8)	-0.037(9)	0.038(8)	-0.024(8)
C(13)	0.055(8)	0.058(7)	0.032(6)	-0.018(6)	0.011(5)	-0.006(5)
C(14)	0.040(7)	0.018(5)	0.042(6)	-0.001(5)	0.020(5)	0.000(4)
C(15)	0.026(7)	0.039(6)	0.064(7)	-0.005(5)	0.008(5)	0.001(6)
C(16)	0.043(8)	0.048(6)	0.044(7)	0.001(6)	0.013(6)	0.003(5)
C(17)	0.052(8)	0.049(7)	0.079(9)	-0.015(7)	0.028(7)	-0.005(7)

Table 4.V.3: Cont.

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(18)	0.037(7)	0.083(9)	0.056(8)	0.011(7)	0.013(6)	0.005(7)
C(19)	0.050(8)	0.068(8)	0.043(7)	0.011(7)	0.007(6)	-0.001(6)
C(20)	0.027(6)	0.038(6)	0.048(6)	0.003(5)	0.012(5)	-0.007(5)
C(21)	0.042(7)	0.025(5)	0.047(6)	-0.004(5)	0.002(5)	-0.012(5)
C(22)	0.051(7)	0.051(7)	0.035(6)	0.006(6)	0.020(5)	-0.004(5)
C(23)	0.054(8)	0.064(8)	0.091(10)	0.002(7)	0.046(7)	-0.013(7)
C(24)	0.043(7)	0.050(7)	0.079(8)	0.002(7)	0.031(6)	-0.024(7)
C(25)	0.047(7)	0.042(6)	0.072(8)	0.000(6)	0.008(6)	-0.007(7)
C(26)	0.067(9)	0.056(8)	0.040(6)	0.013(7)	0.012(6)	-0.002(6)

Table 4.V.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Te(S_2CN(CH(CH_2)_5)_2)_2]$*

Atom	x	*y*	*z*	*B*eq
H(2a)	0.2617	-0.0670	0.2204	4.3836
H(3a)	0.3189	-0.0099	0.1012	4.9471
H(3b)	0.3796	0.0252	0.2080	4.9471
H(4a)	0.5018	-0.0666	0.1630	7.2815
H(4b)	0.5791	-0.0146	0.1658	7.2815
H(5a)	0.5974	-0.0089	0.3614	6.9402
H(5b)	0.6678	-0.0594	0.3338	6.9402
H(6a)	0.4659	-0.1021	0.3631	5.7196
H(6b)	0.5279	-0.0699	0.4749	5.7196
H(7a)	0.3502	-0.0109	0.4186	5.8330
H(7b)	0.2702	-0.0625	0.4126	5.8330
H(8a)	-0.0823	-0.0326	0.1482	4.0794
H(9a)	0.0385	-0.0430	0.0025	5.9477
H(9b)	0.1170	-0.0903	0.0657	5.9477
H(10a)	-0.0722	-0.1157	-0.0754	5.8184
H(10b)	-0.1806	-0.0812	-0.0257	5.8184
H(11a)	-0.0486	-0.1682	0.0834	6.7927
H(11b)	-0.2174	-0.1603	0.0361	6.7927
H(12a)	-0.1438	-0.1522	0.2406	7.4608
H(12b)	-0.2314	-0.1063	0.1785	7.4608
H(13a)	-0.0492	-0.0754	0.3144	4.5724
H(13b)	0.0666	-0.1098	0.2736	4.5724
H(15a)	0.3911	0.2771	0.7281	4.0973
H(16a)	0.4259	0.2914	0.5480	4.2025

Table 4.V.4: Cont.

Atom	x	*y*	*z*	*B*eq
H(16b)	0.4414	0.2342	0.5258	4.2025
H(17a)	0.6408	0.2920	0.6865	5.4992
H(17b)	0.6744	0.2663	0.5739	5.4992
H(18a)	0.7784	0.2237	0.7418	5.4757
H(18b)	0.6663	0.1904	0.6553	5.4757
H(19a)	0.6269	0.1794	0.8426	5.1061
H(19b)	0.6090	0.2370	0.8569	5.1061
H(20a)	0.4141	0.1752	0.7072	3.5074
H(20b)	0.3812	0.2035	0.8168	3.5074
H(21a)	0.0274	0.2835	0.6280	3.6907
H(22a)	0.2221	0.2877	0.8400	4.1801
H(22b)	0.0801	0.2549	0.8099	4.1801
H(23a)	-0.0663	0.3227	0.7955	6.1466
H(23b)	0.0484	0.3280	0.9145	6.1466
H(24a)	0.0107	0.4029	0.8113	5.1659
H(24b)	0.1754	0.3862	0.8352	5.1659
H(25a)	0.1097	0.4108	0.6382	5.1582
H(25b)	-0.0256	0.3747	0.6169	5.1582
H(26a)	0.2686	0.3447	0.6647	5.1563
H(26b)	0.1578	0.3370	0.5445	5.1563

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 4.V.5: Bond distances (Å) for [Te($S_2CN(CH(CH_2)_5)_2)_2$]

Te — S(1)	2.506(3)	C(6) — C(7)	1.52(1)
Te — S(2)	2.835(3)	C(8) — C(9)	1.49(1)
Te — S(3)	2.516(3)	C(8) — C(13)	1.49(1)
Te — S(4)	2.854(3)	C(9) — C(10)	1.48(1)
S(1) — C(1)	1.734(9)	C(10) — C(11)	1.54(2)
S(2) — C(1)	1.70(1)	C(11) — C(12)	1.50(2)
S(3) — C(14)	1.735(9)	C(12) — C(13)	1.50(2)
S(4) — C(14)	1.70(1)	C(15) — C(16)	1.50(1)
N(1) — C(1)	1.34(1)	C(15) — C(20)	1.51(1)
N(1) — C(2)	1.49(1)	C(16) — C(17)	1.54(1)
N(1) — C(8)	1.49(1)	C(17) — C(18)	1.48(2)
N(2) — C(14)	1.34(1)	C(18) — C(19)	1.53(1)
N(2) — C(15)	1.50(1)	C(19) — C(20)	1.51(1)
N(2) — C(21)	1.52(1)	C(21) — C(22)	1.49(1)
C(2) — C(3)	1.49(1)	C(21) — C(26)	1.49(1)
C(2) — C(7)	1.50(1)	C(22) — C(23)	1.52(1)
C(3) — C(4)	1.54(2)	C(23) — C(24)	1.51(2)
C(4) — C(5)	1.49(2)	C(24) — C(25)	1.57(1)
C(5) — C(6)	1.51(2)	C(25) — C(26)	1.52(1)

Table 4.V.6: Bond angles (deg.) for [Te($S_2CN(CH(CH_2)_5)_2)_2$]

S(1) — Te — S(2)	65.85(8)	N(1) — C(8) — C(9)	116.2(9)
S(1) — Te — S(3)	81.34(8)	N(1) — C(8) — C(13)	111.1(8)
S(1) — Te — S(4)	146.72(8)	C(9) — C(8) — C(13)	113.6(8)
S(2) — Te — S(3)	147.14(8)	C(8) — C(9) — C(10)	112(1)
S(2) — Te — S(4)	147.41(8)	C(9) — C(10) — C(11)	112.7(9)
S(3) — Te — S(4)	65.38(8)	C(10) — C(11) — C(12)	110(1)
Te — S(1) — C(1)	93.6(3)	C(11) — C(12) — C(13)	116(1)
Te — S(2) — C(1)	83.5(3)	C(8) — C(13) — C(12)	111.2(9)
Te — S(3) — C(14)	94.4(3)	S(3) — C(14) — S(4)	116.2(5)
Te — S(4) — C(14)	84.0(3)	S(3) — C(14) — N(2)	120.5(7)
C(1) — N(1) — C(2)	124.2(8)	S(4) — C(14) — N(2)	123.3(7)
C(1) — N(1) — C(8)	119.4(8)	N(2) — C(15) — C(16)	113.2(8)
C(2) — N(1) — C(8)	115.6(8)	N(2) — C(15) — C(20)	113.1(8)
C(14) — N(2) — C(15)	124.8(8)	C(16) — C(15) — C(20)	114.6(8)
C(14) — N(2) — C(21)	119.0(7)	C(15) — C(16) — C(17)	110.7(9)
C(15) — N(2) — C(21)	116.1(7)	C(16) — C(17) — C(18)	112.2(9)
S(1) — C(1) — S(2)	116.4(5)	C(17) — C(18) — C(19)	111.6(9)
S(1) — C(1) — N(1)	120.3(7)	C(18) — C(19) — C(20)	111.4(9)
S(2) — C(1) — N(1)	123.3(7)	C(15) — C(20) — C(19)	111.4(9)
N(1) — C(2) — C(3)	114.0(9)	N(2) — C(21) — C(22)	112.3(8)
N(1) — C(2) — C(7)	115.0(8)	N(2) — C(21) — C(26)	112.2(8)
C(3) — C(2) — C(7)	116(1)	C(22) — C(21) — C(26)	115.1(8)
C(2) — C(3) — C(4)	111(1)	C(21) — C(22) — C(23)	111.1(9)
C(3) — C(4) — C(5)	110.7(9)	C(22) — C(23) — C(24)	113.9(8)
C(4) — C(5) — C(6)	115(1)	C(23) — C(24) — C(25)	110.5(9)
C(5) — C(6) — C(7)	109(1)	C(24) — C(25) — C(26)	109.6(9)

Table 4.V.6: Cont.

C(2) — C(7) — C(6)	111(1)	C(21) — C(26) — C(25)	112.0(9)

Table 4.V.7: Observed and calculated structure factors for $[Te(S_2CN(CH(CH_2)_5)_2)_2]$

h	k	l	Fo	Fc	sigF2
0	0	2	1498	1426	99
0	0	4	565	549	99
0	0	6	421	399	99
0	0	8	645	615	99
0	0	10	525	535	99
0	0	12	379	375	99
0	0	14	324	333	99
0	1	2	392	374	99
0	1	3	490	474	99
0	1	4	184	168	99
0	1	5	970	981	99
0	1	6	368	374	99
0	1	7	-114	10	99
0	1	8	976	956	99
0	1	9	651	630	99
0	1	10	266	213	99
0	1	11	294	299	99
0	1	12	77	239	99
0	1	13	-213	25	99
0	2	2	1532	1523	99
0	2	3	1300	1317	99
0	2	4	143	167	99
0	2	5	802	813	99
0	2	6	514	487	99
0	2	7	1124	1140	99
0	2	8	217	180	99
0	2	9	437	438	99
0	2	10	168	270	99
0	2	11	267	239	99
0	2	12	28	184	99
0	2	13	352	351	99
0	3	3	-412	513	99
0	3	4	-274	382	99
0	3	5	-256	90	99
0	3	6	-82	146	99
0	3	7	-106	112	99
0	3	8	-205	362	99
0	3	9	196	575	99
0	3	10	17	30	99
0	3	11	150	426	99
0	3	12	-90	241	99
0	3	13	-130	138	99
0	4	-10	570	810	99
0	4	0	-145	382	99
0	4	1	-164	130	99
0	4	3	-199	261	99
0	4	5	-414	667	99
0	4	6	-355	626	99
0	4	7	-126	109	99
0	4	8	-89	327	99
0	4	9	-57	269	99
0	4	11	-232	9	99
0	4	12	157	180	99
0	4	13	117	141	99
0	5	1	-34	200	99
0	5	6	-211	700	99
0	5	7	163	292	99
0	5	8	223	733	99
0	5	9	252	351	99
0	5	10	-152	46	99
0	5	11	165	397	99
0	5	12	173	414	99
0	5	13	-166	122	99
0	6	2	-270	254	99
0	6	4	-661	844	99
0	6	5	-116	56	99
0	6	6	130	78	99
0	6	7	181	632	99
0	6	8	-69	154	99
0	6	9	160	413	99
0	6	10	160	158	99
0	6	11	381	576	99
0	6	12	-20	51	99
0	6	13	203	352	99
0	7	-9	434	550	99
0	7	1	82	107	99
0	7	2	-202	563	99
0	7	3	119	186	99
0	7	4	-646	1097	99
0	7	5	-375	854	99
0	7	6	-91	511	99
0	7	7	46	148	99
0	7	8	334	528	99
0	7	10	-45	42	99
0	7	11	240	345	99
0	7	12	357	498	99
0	7	13	-182	70	99
0	8	-6	-212	1084	99
0	8	0	-450	846	99
0	8	1	-123	78	99
0	8	2	97	200	99
0	8	3	129	534	99
0	8	5	165	677	99
0	8	7	147	129	99
0	8	8	129	157	99
0	8	9	237	331	99
0	8	10	771	850	99
0	8	11	140	48	99
0	8	12	-196	9	99
0	8	13	39	75	99
0	9	-5	-542	1265	99
0	9	-4	-450	675	99
0	9	-2	-480	529	99
0	9	1	413	428	99
0	9	3	71	107	99
0	9	6	-142	82	99
0	9	7	517	658	99
0	9	8	550	635	99
0	9	9	358	411	99
0	9	10	106	209	99
0	9	11	-135	134	99
0	9	12	126	263	99
0	9	13	179	259	99
0	10	-4	-90	399	99
0	10	0	205	278	99
0	10	1	675	625	99
0	10	2	239	300	99
0	10	5	262	297	99
0	10	6	151	94	99
0	10	7	1000	1181	99
0	10	8	214	250	99
0	10	9	287	385	99
0	10	10	209	193	99
0	10	11	322	363	99
0	10	12	-67	84	99
0	11	-2	-547	1069	99
0	11	1	531	551	99
0	11	3	63	256	99
0	11	4	-120	197	99
0	11	5	519	575	99
0	11	6	486	541	99
0	11	7	234	249	99
0	11	8	1058	1144	99
0	11	9	470	490	99
0	11	10	96	228	99
0	11	11	-153	61	99
0	11	12	355	355	99
0	12	0	1976	1954	99
0	12	1	187	211	99
0	12	2	441	441	99
0	12	3	408	414	99
0	12	4	382	394	99
0	12	5	239	282	99
0	12	6	1109	1113	99
0	12	7	101	142	99
0	12	8	186	141	99
0	12	9	206	175	99
0	12	10	371	386	99
0	12	11	-22	155	99
0	12	12	-123	28	99
0	13	1	916	903	99
0	13	2	895	861	99
0	13	3	288	239	99
0	13	4	176	99	99
0	13	5	1127	1136	99
0	13	6	649	615	99
0	13	7	551	564	99
0	13	8	335	321	99
0	13	9	542	530	99
0	13	10	-121	63	99
0	13	11	98	123	99
0	13	12	208	216	99
0	14	0	226	204	99
0	14	1	866	844	99
0	14	2	240	237	99
0	14	3	638	661	99
0	14	4	63	28	99
0	14	5	136	64	99
0	14	6	382	370	99
0	14	7	919	904	99
0	14	8	506	476	99
0	14	9	271	237	99
0	14	10	176	150	99
0	14	11	275	218	99
0	14	12	200	157	99
0	15	1	690	658	99
0	15	2	798	760	99
0	15	3	335	317	99
0	15	4	732	705	99
0	15	5	842	816	99
0	15	6	320	317	99
0	15	7	101	59	99
0	15	8	437	372	99
0	15	9	-46	78	99
0	15	10	-156	47	99
0	15	11	-197	113	99
0	15	12	352	383	99
0	16	0	793	790	99
0	16	1	581	576	99
0	16	2	272	275	99
0	16	3	277	254	99
0	16	4	1660	1580	99
0	16	5	710	682	99
0	16	6	429	365	99
0	16	7	381	326	99
0	16	8	105	34	99
0	16	9	167	35	99
0	16	10	394	387	99
0	16	11	-160	37	99
0	17	1	666	629	99
0	17	2	750	718	99
0	17	3	455	447	99
0	17	4	-134	164	99
0	17	5	778	737	99
0	17	6	121	94	99
0	17	7	-142	15	99
0	17	8	167	118	99
0	17	9	462	401	99
0	17	10	-117	82	99
0	17	11	389	394	99
0	18	0	526	524	99
0	18	1	745	754	99
0	18	2	373	347	99
0	18	3	1229	1192	99
0	18	4	231	114	99
0	18	5	-226	137	99
0	18	6	258	205	99
0	18	7	354	319	99
0	18	8	-45	103	99
0	18	9	164	180	99
0	18	10	342	285	99
0	18	11	305	246	99
0	19	1	129	64	99
0	19	2	1177	1150	99
0	19	3	557	611	99
0	19	4	238	219	99
0	19	5	432	374	99
0	19	6	372	338	99
0	19	7	-147	26	99
0	19	8	-214	259	99
0	19	9	164	171	99
0	19	10	147	52	99
0	19	11	184	146	99
0	20	0	908	833	99
0	20	1	116	132	99
0	20	2	-176	125	99
0	20	3	307	260	99
0	20	4	612	652	99
0	20	5	469	478	99
0	20	6	371	348	99
0	20	7	117	150	99
0	20	8	122	110	99
0	20	9	118	175	99
0	20	10	527	500	99
0	21	1	1129	1100	99
0	21	2	470	463	99
0	21	3	-52	65	99
0	21	4	340	333	99
0	21	5	372	333	99
0	21	6	-138	46	99
0	21	7	217	53	99
0	21	8	-75	111	99
0	21	9	469	415	99
0	21	10	-58	174	99
0	22	0	946	925	99
0	22	1	677	664	99
0	22	2	275	317	99
0	22	3	420	451	99
0	22	4	65	230	99
0	22	5	116	129	99
0	22	6	73	127	99
0	22	7	511	471	99
0	22	8	-98	25	99
0	22	9	124	251	99
0	23	1	301	352	99
0	23	2	417	397	99
0	23	3	91	121	99
0	23	4	173	140	99
0	23	5	120	197	99
0	23	6	284	295	99
0	23	7	114	96	99
0	23	8	616	610	99
0	23	9	346	324	99
0	24	0	1322	1305	99
0	24	1	334	334	99
0	24	2	195	193	99
0	24	3	191	175	99
0	24	4	-51	148	99
0	24	5	163	128	99
0	24	6	272	279	99
0	24	7	-85	151	99
0	24	8	162	268	99
0	24	9	137	165	99
0	25	1	600	573	99
0	25	2	-221	11	99
0	25	3	-131	40	99
0	25	4	99	44	99
0	25	5	160	328	99
0	25	6	197	203	99
0	25	7	25	142	99
0	25	8	287	307	99
0	26	0	149	21	99
0	26	1	184	195	99
0	26	2	-109	92	99
0	26	3	479	488	99
0	26	4	263	233	99
0	26	5	-79	29	99
0	26	6	345	348	99
0	26	7	549	584	99
0	26	8	111	29	99
0	27	1	306	301	99
0	27	2	471	443	99
0	27	3	338	298	99
0	27	4	337	319	99
0	27	5	157	104	99
0	27	6	119	183	99
0	27	7	-90	99	99
0	28	0	226	230	99
0	28	1	179	137	99
0	28	2	278	196	99
0	28	3	110	136	99
0	28	4	286	294	99
0	28	5	236	288	99
0	28	6	317	299	99
0	29	1	149	135	99
0	29	2	-210	192	99
0	29	3	-94	56	99
0	29	4	-95	7	99
0	29	5	438	506	99
0	30	0	51	68	99
0	30	1	188	214	99
0	30	2	139	91	99
0	30	3	511	476	99
0	30	4	142	203	99
0	30	5	-140	9	99
0	31	1	85	112	99
0	31	2	284	294	99
0	31	3	42	207	99
0	32	0	323	267	99
0	32	1	79	25	99
1	0	-13	150	222	99
1	0	-11	296	323	99
1	0	-9	795	761	99
1	0	-7	-153	42	99
1	0	-5	1045	1036	99
1	0	-3	-60	156	99
1	0	1	1021	947	99
1	0	3	193	182	99
1	0	5	1310	1253	99
1	0	7	242	112	99
1	0	9	593	595	99
1	0	11	355	323	99
1	0	13	67	130	99
1	1	-13	354	370	99
1	1	-12	300	249	99
1	1	-11	261	302	99
1	1	-10	403	347	99
1	1	-9	426	427	99
1	1	-8	354	346	99
1	1	-7	783	733	99
1	1	-6	768	730	99
1	1	-5	251	226	99
1	1	-4	174	150	99
1	1	-3	681	692	99
1	1	-2	159	191	99
1	1	1	71	83	99
1	1	2	1130	1114	99
1	1	3	773	770	99
1	1	4	-120	34	99
1	1	5	190	157	99
1	1	6	1406	1387	99
1	1	7	1418	1445	99
1	1	8	561	551	99
1	1	9	444	446	99
1	1	10	131	155	99
1	1	11	-202	71	99
1	1	12	170	190	99
1	1	13	-57	186	99
1	2	-13	-249	76	99
1	2	-12	589	588	99
1	2	-11	-202	140	99
1	2	-10	119	114	99
1	2	-9	45	58	99
1	2	-8	876	851	99
1	2	-7	383	363	99
1	2	-6	665	693	99
1	2	-5	273	236	99
1	2	-4	989	988	99
1	2	-3	1066	1053	99
1	2	-2	3143	3209	99
1	2	1	500	494	99
1	2	2	1325	1402	99
1	2	3	322	317	99
1	2	4	667	671	99
1	2	5	295	256	99
1	2	6	1304	1372	99
1	2	7	93	180	99
1	2	8	943	904	99
1	2	9	80	104	99
1	2	10	239	195	99
1	2	11	-91	16	99
1	2	12	157	190	99
1	2	13	-223	83	99
1	3	-13	353	367	99
1	3	-12	167	18	99
1	3	-11	418	391	99
1	3	-10	644	622	99
1	3	-9	274	229	99
1	3	-8	-45	225	99
1	3	-7	696	680	99
1	3	-6	537	534	99
1	3	-5	215	206	99
1	3	-4	894	880	99
1	3	-3	915	981	99
1	3	-2	1487	1533	99
1	3	-1	556	545	99
1	3	0	791	832	99
1	3	1	602	624	99
1	3	2	2065	2063	99
1	3	3	1539	1580	99
1	3	4	1075	1073	99
1	3	5	102	76	99
1	3	6	470	446	99
1	3	7	864	813	99
1	3	8	-133	31	99
1	3	9	111	32	99
1	3	10	559	537	99
1	3	11	322	342	99
1	3	12	-127	19	99
1	3	13	339	292	99
1	4	-13	35	165	99
1	4	-12	-65	85	99
1	4	-11	575	550	99
1	4	-10	-75	29	99
1	4	-9	671	687	99
1	4	-8	228	252	99
1	4	-7	-99	18	99
1	4	-6	926	888	99
1	4	-5	1598	1600	99
1	4	-4	696	709	99
1	4	-3	1121	1143	99
1	4	-2	714	728	99
1	4	-1	1573	1629	99
1	4	0	76	14	99
1	4	1	699	733	99
1	4	2	1661	1671	99
1	4	3	521	516	99
1	4	4	828	810	99
1	4	5	1823	1784	99
1	4	6	186	181	99
1	4	7	288	297	99
1	4	8	469	456	99
1	4	9	557	551	99
1	4	10	-186	161	99
1	4	11	322	385	99
1	4	12	148	93	99
1	4	13	-347	108	99
1	5	-13	36	182	99
1	5	-12	254	189	99
1	5	-11	390	391	99
1	5	-10	736	693	99
1	5	-9	113	148	99
1	5	-8	114	128	99
1	5	-7	322	316	99
1	5	-6	585	556	99
1	5	-5	104	15	99
1	5	-4	700	715	99
1	5	-3	2011	2006	99
1	5	-2	1061	1022	99
1	5	-1	902	793	99
1	5	0	1746	1714	99
1	5	1	1080	1008	99
1	5	2	220	161	99
1	5	3	340	359	99
1	5	4	1283	1266	99
1	5	5	0	50	99
1	5	6	567	544	99
1	5	7	557	536	99
1	5	8	12	67	99
1	5	9	702	666	99
1	5	10	439	450	99
1	5	11	266	249	99
1	5	12	182	172	99
1	5	13	184	189	99
1	6	-13	-100	28	99
1	6	-12	597	610	99
1	6	-11	141	59	99
1	6	-10	252	211	99
1	6	-9	145	117	99
1	6	-8	580	568	99
1	6	-7	190	178	99
1	6	-6	863	812	99
1	6	-5	-81	52	99
1	6	-4	1731	1708	99
1	6	-3	551	531	99
1	6	-2	1355	1349	99
1	6	-1	574	531	99
1	6	0	1033	1015	99
1	6	1	390	389	99
1	6	2	1992	1984	99
1	6	3	263	269	99
1	6	4	768	710	99
1	6	5	326	294	99
1	6	6	-93	129	99
1	6	7	139	191	99
1	6	8	849	782	99
1	6	9	150	92	99
1	6	10	70	55	99
1	6	11	142	37	99
1	6	12	588	554	99
1	6	13	174	54	99
1	7	-13	96	191	99
1	7	-12	-211	40	99
1	7	-11	258	267	99
1	7	-10	637	639	99
1	7	-9	521	532	99
1	7	-8	533	524	99
1	7	-7	665	662	99
1	7	-6	729	716	99
1	7	-5	889	860	99
1	7	-4	1234	1270	99
1	7	-3	1690	1727	99
1	7	-2	319	285	99
1	7	-1	369	337	99
1	7	0	559	521	99
1	7	1	358	334	99
1	7	2	505	486	99
1	7	3	2383	2295	99
1	7	4	388	399	99
1	7	5	364	329	99
1	7	6	820	780	99
1	7	7	267	250	99
1	7	8	128	79	99
1	7	9	354	342	99
1	7	10	562	578	99
1	7	11	439	415	99
1	7	12	161	8	99
1	7	13	347	332	99
1	8	-13	208	214	99
1	8	-12	-166	114	99
1	8	-11	404	371	99
1	8	-10	552	534	99
1	8	-9	647	635	99
1	8	-8	-141	78	99
1	8	-7	178	171	99
1	8	-6	856	836	99
1	8	-5	2063	1965	99
1	8	-4	365	329	99
1	8	-3	443	426	99
1	8	-2	794	791	99
1	8	-1	1402	1382	99
1	8	0	85	16	99
1	8	1	719	736	99
1	8	2	217	215	99
1	8	3	888	821	99
1	8	4	283	246	99
1	8	5	949	941	99
1	8	6	-66	17	99
1	8	7	545	503	99
1	8	8	-90	169	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	8	9	537	523	99	1	10	12	484	472	99	1	13	-9	403	383	99	1	15	-3	1040	993	99	1	17	5	238	235	99						
1	8	10	160	36	99	1	11	-13	112	184	99	1	13	-8	335	351	99	1	15	-2	246	226	99	1	17	6	496	507	99						
1	8	11	514	470	99	1	11	-12	64	67	99	1	13	-7	932	915	99	1	15	-1	774	793	99	1	17	7	137	140	99						
1	8	12	-92	34	99	1	11	-11	232	167	99	1	13	-6	768	709	99	1	15	0	524	541	99	1	17	8	-134	68	99						
1	9	-13	121	210	99	1	11	-10	37	239	99	1	13	-5	420	411	99	1	15	1	703	686	99	1	17	9	-119	134	99						
1	9	-12	-125	99	99	1	11	-9	461	449	99	1	13	-4	665	683	99	1	15	2	872	872	99	1	17	10	193	410	99						
1	9	-11	-196	184	99	1	11	-8	270	305	99	1	13	-3	-135	18	99	1	15	3	903	865	99	1	17	11	135	221	99						
1	9	-10	583	557	99	1	11	-7	1479	1409	99	1	13	-2	357	321	99	1	15	4	675	676	99	1	18	-11	216	186	99						
1	9	-9	166	132	99	1	11	-6	629	578	99	1	13	-1	235	169	99	1	15	5	540	481	99	1	18	-10	-147	76	99						
1	9	-8	384	381	99	1	11	-5	419	429	99	1	13	0	1111	1041	99	1	15	6	103	76	99	1	18	-9	96	114	99						
1	9	-7	503	475	99	1	11	-4	649	684	99	1	13	1	688	715	99	1	15	7	754	722	99	1	18	-8	252	291	99						
1	9	-6	927	879	99	1	11	-3	814	792	99	1	13	2	361	350	99	1	15	8	149	143	99	1	18	-7	121	9	99						
1	9	-5	342	364	99	1	11	-2	-112	45	99	1	13	3	409	433	99	1	15	9	-152	225	99	1	18	-6	116	79	99						
1	9	-4	1060	1078	99	1	11	-1	102	49	99	1	13	4	240	276	99	1	15	10	270	208	99	1	18	-5	245	211	99						
1	9	-3	887	925	99	1	11	0	1134	1101	99	1	13	5	110	182	99	1	15	11	191	165	99	1	18	-4	490	481	99						
1	9	-2	1546	1562	99	1	11	1	1332	1257	99	1	13	6	666	680	99	1	16	-12	151	140	99	1	18	-3	-70	66	99						
1	9	-1	1082	1046	99	1	11	2	399	378	99	1	13	7	813	793	99	1	16	-11	389	392	99	1	18	-2	710	688	99						
1	9	0	1253	1188	99	1	11	3	504	505	99	1	13	8	236	289	99	1	16	-10	145	245	99	1	18	-1	140	198	99						
1	9	1	901	969	99	1	11	4	560	564	99	1	13	9	148	134	99	1	16	-9	381	388	99	1	18	0	510	512	99						
1	9	2	694	698	99	1	11	5	550	537	99	1	13	10	506	517	99	1	16	-8	-149	77	99	1	18	1	200	227	99						
1	9	3	665	652	99	1	11	6	516	544	99	1	13	11	216	113	99	1	16	-7	147	111	99	1	18	2	1192	1177	99						
1	9	4	678	672	99	1	11	7	538	496	99	1	13	12	120	176	99	1	16	-6	389	348	99	1	18	3	190	87	99						
1	9	5	397	393	99	1	11	8	199	198	99	1	14	-12	349	347	99	1	16	-5	968	927	99	1	18	4	774	765	99						
1	9	6	529	516	99	1	11	9	399	327	99	1	14	-11	153	63	99	1	16	-4	399	371	99	1	18	5	497	488	99						
1	9	7	534	521	99	1	11	10	255	230	99	1	14	-10	150	190	99	1	16	-3	541	562	99	1	18	6	256	292	99						
1	9	8	296	256	99	1	11	11	186	195	99	1	14	-9	370	350	99	1	16	-2	628	640	99	1	18	7	86	49	99						
1	9	9	61	213	99	1	11	12	176	148	99	1	14	-8	721	739	99	1	16	-1	481	467	99	1	18	8	495	498	99						
1	9	10	709	616	99	1	12	-12	131	29	99	1	14	-7	-84	192	99	1	16	0	64	70	99	1	18	9	-40	9	99						
1	9	11	244	187	99	1	12	-11	-143	75	99	1	14	-6	1089	1037	99	1	16	1	835	824	99	1	18	10	-259	191	99						
1	9	12	-122	156	99	1	12	-10	149	239	99	1	14	-5	714	693	99	1	16	2	143	169	99	1	18	11	177	138	99						
1	10	-13	124	118	99	1	12	-9	501	468	99	1	14	-4	114	20	99	1	16	3	-26	114	99	1	19	-11	251	286	99						
1	10	-12	242	204	99	1	12	-8	251	307	99	1	14	-3	96	129	99	1	16	4	101	29	99	1	19	-10	271	270	99						
1	10	-11	112	26	99	1	12	-7	237	189	99	1	14	-2	1057	1014	99	1	16	5	1022	1032	99	1	19	-9	168	181	99						
1	10	-10	161	48	99	1	12	-6	290	242	99	1	14	-1	243	256	99	1	16	6	265	250	99	1	19	-8	125	114	99						
1	10	-9	254	232	99	1	12	-5	925	899	99	1	14	0	65	147	99	1	16	7	-14	16	99	1	19	-7	335	309	99						
1	10	-8	1008	995	99	1	12	-4	342	322	99	1	14	1	592	568	99	1	16	8	106	53	99	1	19	-6	492	508	99						
1	10	-7	-126	70	99	1	12	-3	642	589	99	1	14	2	1605	1589	99	1	16	9	471	447	99	1	19	-5	112	61	99						
1	10	-6	1107	1135	99	1	12	-2	146	109	99	1	14	3	-138	68	99	1	16	10	207	175	99	1	19	-4	542	520	99						
1	10	-5	369	383	99	1	12	-1	1885	1833	99	1	14	4	766	779	99	1	16	11	261	276	99	1	19	-3	1074	1076	99						
1	10	-4	229	203	99	1	12	0	399	381	99	1	14	5	136	140	99	1	17	-11	-243	111	99	1	19	-2	242	266	99						
1	10	-3	173	142	99	1	12	1	1337	1357	99	1	14	6	615	569	99	1	17	-10	515	517	99	1	19	-1	586	569	99						
1	10	-2	1492	1448	99	1	12	2	169	109	99	1	14	7	494	483	99	1	17	-9	290	257	99	1	19	0	389	403	99						
1	10	-1	647	617	99	1	12	3	224	255	99	1	14	8	357	356	99	1	17	-8	146	148	99	1	19	1	192	213	99						
1	10	0	891	885	99	1	12	4	70	110	99	1	14	9	80	147	99	1	17	-7	306	272	99	1	19	2	166	205	99						
1	10	1	1184	1155	99	1	12	5	975	934	99	1	14	10	183	112	99	1	17	-6	518	480	99	1	19	3	969	982	99						
1	10	2	762	780	99	1	12	6	175	14	99	1	14	11	-14	11	99	1	17	-5	378	383	99	1	19	4	491	445	99						
1	10	3	215	159	99	1	12	7	457	439	99	1	15	-12	171	123	99	1	17	-4	951	908	99	1	19	5	212	227	99						
1	10	4	966	899	99	1	12	8	386	335	99	1	15	-11	-62	249	99	1	17	-3	215	176	99	1	19	6	236	224	99						
1	10	5	-51	100	99	1	12	9	617	606	99	1	15	-10	218	214	99	1	17	-2	-162	31	99	1	19	7	552	578	99						
1	10	6	-177	257	99	1	12	10	-141	88	99	1	15	-9	116	86	99	1	17	-1	258	264	99	1	19	8	70	43	99						
1	10	7	125	59	99	1	12	11	541	499	99	1	15	-8	-57	316	99	1	17	0	659	633	99	1	19	9	312	306	99						
1	10	8	714	674	99	1	12	12	195	66	99	1	15	-7	679	666	99	1	17	1	224	213	99	1	19	10	-143	162	99						
1	10	9	33	88	99	1	13	-12	-115	8	99	1	15	-6	141	54	99	1	17	2	118	160	99	1	20	-10	155	179	99						
1	10	10	74	50	99	1	13	-11	-156	94	99	1	15	-5	270	239	99	1	17	3	1194	1216	99	1	20	-9	329	329	99						
1	10	11	237	244	99	1	13	-10	373	352	99	1	15	-4	504	487	99	1	17	4	919	909	99	1	20	-8	-74	9	99						
1	20	-7	-171	55	99	1	22	6	471	449	99	1	25	6	460	472	99	1	29	2	189	86	99	2	1	6	657	687	99						
1	20	-6	385	326	99	1	22	7	211	8	99	1	25	7	306	280	99	1	29	3	120	102	99	2	1	7	302	257	99						
1	20	-5	702	687	99	1	22	8	382	428	99	1	25	8	120	31	99	1	29	4	315	298	99	2	1	8	581	608	99						
1	20	-4	286	277	99	1	22	9	94	47	99	1	26	-8	208	241	99	1	29	5	-238	99	99	2	1	9	488	507	99						
1	20	-3	443	410	99	1	23	-9	264	288	99	1	26	-7	227	170	99	1	30	-5	336	356	99	2	1	10	-70	109	99						
1	20	-2	413	461	99	1	23	-8	302	297	99	1	26	-6	412	405	99	1	30	-4	265	309	99	2	1	11	-61	286	99						
1	20	-1	259	249	99	1	23	-7	388	440	99	1	26	-5	85	50	99	1	30	-3	113	52	99	2	1	12	314	280	99						
1	20	0	247	201	99	1	23	-6	270	259	99	1	26	-4	310	284	99	1	30	-2	356	389	99	2	2	-11	333	386	99						
1	20	1	976	938	99	1	23	-5	66	11	99	1	26	-3	322	306	99	1	30	-1	263	292	99	2	2	-12	122	67	99						
1	20	2	156	158	99	1	23	-4	156	151	99	1	26	-2	605	562	99	1	30	0	-134	80	99	2	2	-11	548	542	99						
1	20	3	352	392	99	1	23	-3	375	357	99	1	26	-1	156	30	99	1	30	1	-181	20	99	2	2	-10	305	272	99						
1	20	4	-120	58	99	1	23	-2	153	135	99	1	26	0	150	45	99	1	30	2	405	456	99	2	2	-9	461	441	99						
1	20	5	709	666	99	1	23	-1	803	780	99	1	26	1	159	117	99	1	30	3	130	4	99	2	2	-8	99	66	99						
1	20	6	349	328	99	1	23	0	161	185	99	1	26	2	212	210	99	1	30	4	-74	163	99	2	2	-7	1353	1319	99						
1	20	7	146	165	99	1	23	1	152	128	99	1	26	3	-184	64	99	1	31	-3	344	385	99	2	2	-6	359	367	99						
1	20	8	317	328	99	1	23	2	127	26	99	1	26	4	-47	52	99	1	31	-2	134	173	99	2	2	-5	217	251	99						
1	20	9	405	415	99	1	23	3	334	343	99	1	26	5	249	246	99	1	31	-1	57	68	99	2	2	-4	251	270	99						
1	20	10	86	79	99	1	23	4	72	9	99	1	26	6	340	339	99	1	31	0	-95	26	99	2	2	-3	1106	1100	99						
1	21	-10	421	420	99	1	23	5	127	21	99	1	26	7	-221	89	99	1	31	1	18	89	99	2	2	-2	492	491	99						
1	21	-9	108	60	99	1	23	6	364	291	99	1	27	-7	396	407	99	1	31	2	-138	32	99	2	2	-1	634	661	99						
1	21	-8	77	18	99	1	23	7	741	753	99	1	27	-6	125	68	99	1	31	3	462	467	99	2	2	0	344	328	99						
1	21	-7	255	267	99	1	23	8	165	184	99	1	27	-5	67	92	99	1	32	-1	236	236	99	2	2	1	783	764	99						
1	21	-6	232	201	99	1	23	9	290	269	99	1	27	-4	231	200	99	1	32	0	-180	62	99	2	2	2	63	16	99						
1	21	-5	141	112	99	1	24	-9	456	461	99	1	27	-3	676	670	99	2	0	-12	185	198	99	2	2	3	1408	1397	99						
1	21	-4	259	255	99	1	24	-8	-61	216	99	1	27	-2	216	247	99	2	0	-10	806	797	99	2	2	4	163	188	99						
1	21	-3	616	602	99	1	24	-7	101	28	99	1	27	-1	118	233	99	2	0	-8	194	133	99	2	2	5	385	342	99						
1	21	-2	267	265	99	1	24	-6	46	46	99	1	27	0	307	292	99	2	0	-6	1795	1775	99	2	2	6	338	306	99						
1	21	-1	208	188	99	1	24	-5	544	527	99	1	27	1	336	316	99	2	0	-4	435	428	99	2	2	7	951	914	99						
1	21	0	525	528	99	1	24	-4	107	29	99	1	27	2	80	98	99	2	0	-2	489	413	99	2	2	8	303	281	99						
1	21	1	415	427	99	1	24	-3	119	137	99	1	27	3	323	332	99	2	0	0	2864	2750	99	2	2	9	554	557	99						
1	21	2	770	761	99	1	24	-2	128	98	99	1	27	4	120	78	99	2	0	2	612	609	99	2	2	10	-133	29	99						
1	21	3	44	56	99	1	24	-1	1055	1082	99	1	27	5	-150	112	99	2	0	4	1051	1080	99	2	2	11	381	356	99						
1	21	4	645	662	99	1	24	0	148	218	99	1	27	6	79	72	99	2	0	6	1083	1025	99	2	2	12	-227	41	99						
1	21	5	290	211	99	1	24	1	432	396	99	1	27	7	232	268	99	2	0	8	-87	57	99	2	3	-13	356	369	99						
1	21	6	424	482	99	1	24	2	380	382	99	1	28	-6	-115	82	99	2	0	10	358	349	99	2	3	-12	519	523	99						
1	21	7	-80	212	99	1	24	3	199	99	99	1	28	-5	561	526	99	2	0	12	264	238	99	2	3	-11	-24	105	99						
1	21	8	-122	190	99	1	24	4	193	185	99	1	28	-4	171	121	99	2	1	-13	101	214	99	2	3	-10	279	260	99						
1	21	9	-277	23	99	1	24	5	367	411	99	1	28	-3	131	115	99	2	1	-12	298	252	99	2	3	-9	100	23	99						
1	21	10	243	294	99	1	24	6	230	230	99	1	28	-2	304	319	99	2	1	-11	172	171	99	2	3	-8	681	663	99						
1	22	-10	179	161	99	1	24	7	193	128	99	1	28	-1	347	316	99	2	1	-10	280	264	99	2	3	-7	108	60	99						
1	22	-9	9	30	99	1	24	8	154	129	99	1	28	0	281	277	99	2	1	-9	691	683	99	2	3	-6	-55	81	99						
1	22	-8	440	455	99	1	25	-8	67	188	99	1	28	1	418	351	99	2	1	-8	923	904	99	2	3	-5	926	939	99						
1	22	-7	-176	43	99	1	25	-7	305	274	99	1	28	2	253	242	99	2	1	-7	716	709	99	2	3	-4	939	931	99						
1	22	-6	391	378	99	1	25	-6	363	393	99	1	28	3	-111	53	99	2	1	-6	378	363	99	2	3	-3	956	945	99						
1	22	-5	166	147	99	1	25	-5	111	8	99	1	28	4	322	306	99	2	1	-5	835	829	99	2	3	-2	1419	1383	99						
1	22	-4	442	419	99	1	25	-4	429	425	99	1	28	5	398	418	99	2	1	-4	655	600	99	2	3	-1	396	410	99						
1	22	-3	48	80	99	1	25	-3	265	254	99	1	28	6	-108	50	99	2	1	-3	534	558	99	2	3	0	471	440	99						
1	22	-2	1007	964	99	1	25	-2	152	222	99	1	29	-6	219	297	99	2	1	-2	932	953	99	2	3	1	1438	1436	99						
1	22	-1	359	341	99	1	25	-1	248	127	99	1	29	-5	126	22	99	2	1	-1	277	243	99	2	3	2	276	297	99						
1	22	0	-84	12	99	1	25	0	603	620	99	1	29	-4	434	430	99	2	1	0	1719	1722	99	2	3	3	654	677	99						
1	22	1	564	562	99	1	25	1	213	176	99	1	29	-3	332	321	99	2	1	1	736	724	99	2	3	4	1289	1301	99						
1	22	2	511	481	99	1	25	2	266	219	99	1	29	-2	-27	46	99	2	1	2	1415	1406	99	2	3	5	987	962	99						
1	22	3	139	215	99	1	25	3	-193	25	99	1	29	-1	135	122	99	2	1	3	86	85	99	2	3	6	281	315	99						
1	22	4	256	261	99	1	25	4	368	320	99	1	29	0	313	336	99	2	1	4	834	872	99	2	3	7	427	435	99						
1	22	5	103	53	99	1	25	5	112	27	99	1	29	1	-141	25	99	2	1	5	1413	1432	99	2	3	8	673	656	99						

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	3	9	319	314	99	2	5	12	122	253	99	2	8	-11	-135	13	99	2	10	-8	406	386	99	2	12	-4	796	780	99
2	3	10	52	5	99	2	6	-13	349	352	99	2	8	-10	846	841	99	2	10	-7	1465	1413	99	2	12	-3	373	336	99
2	3	11	124	187	99	2	6	-12	107	149	99	2	8	-9	531	510	99	2	10	-6	98	83	99	2	12	-2	540	550	99
2	3	12	256	251	99	2	6	-11	556	559	99	2	8	-8	740	703	99	2	10	-5	381	422	99	2	12	-1	827	840	99
2	4	-13	-65	19	99	2	6	-10	248	246	99	2	8	-7	448	452	99	2	10	-4	133	125	99	2	12	0	2156	2173	99
2	4	-12	-92	86	99	2	6	-9	272	245	99	2	8	-6	683	675	99	2	10	-3	1320	1359	99	2	12	1	532	526	99
2	4	-11	-151	107	99	2	6	-8	286	282	99	2	8	-5	745	746	99	2	10	-2	487	473	99	2	12	2	923	774	99
2	4	-10	577	574	99	2	6	-7	279	276	99	2	8	-4	1239	1261	99	2	10	-1	1309	1385	99	2	12	3	236	224	99
2	4	-9	-186	11	99	2	6	-6	237	215	99	2	8	-3	124	91	99	2	10	0	868	878	99	2	12	4	286	290	99
2	4	-8	680	661	99	2	6	-5	388	354	99	2	8	-2	152	129	99	2	10	1	1525	1516	99	2	12	5	-116	95	99
2	4	-7	167	168	99	2	6	-4	730	747	99	2	8	-1	288	307	99	2	10	2	342	332	99	2	12	6	177	193	99
2	4	-6	1027	1009	99	2	6	-3	1744	1832	99	2	8	0	1385	1373	99	2	10	3	1035	1041	99	2	12	7	-92	91	99
2	4	-5	510	483	99	2	6	-2	862	884	99	2	8	1	220	186	99	2	10	4	185	187	99	2	12	8	344	313	99
2	4	-4	1707	1715	99	2	6	-1	1287	1286	99	2	8	2	680	696	99	2	10	5	223	206	99	2	12	9	108	157	99
2	4	-3	514	501	99	2	6	0	598	606	99	2	8	3	555	532	99	2	10	6	184	42	99	2	12	10	696	708	99
2	4	-2	414	381	99	2	6	1	1269	1322	99	2	8	4	859	873	99	2	10	7	621	616	99	2	12	11	116	27	99
2	4	-1	140	81	99	2	6	2	729	724	99	2	8	5	256	235	99	2	10	8	215	252	99	2	13	-12	53	167	99
2	4	0	1440	1437	99	2	6	3	1575	1590	99	2	8	6	564	536	99	2	10	9	660	603	99	2	13	-11	252	186	99
2	4	1	849	879	99	2	6	4	228	230	99	2	8	7	-168	133	99	2	10	10	270	226	99	2	13	-10	-232	5	99
2	4	2	380	410	99	2	6	5	130	111	99	2	8	8	-75	30	99	2	10	11	132	151	99	2	13	-9	644	616	99
2	4	3	140	136	99	2	6	6	208	137	99	2	8	9	130	285	99	2	10	12	-151	75	99	2	13	-8	1043	991	99
2	4	4	1269	1257	99	2	6	7	481	431	99	2	8	10	551	551	99	2	11	-13	-320	95	99	2	13	-7	121	229	99
2	4	5	616	593	99	2	6	8	249	236	99	2	8	11	-160	37	99	2	11	-12	137	232	99	2	13	-6	353	357	99
2	4	6	1117	1156	99	2	6	9	366	381	99	2	8	12	370	314	99	2	11	-11	140	139	99	2	13	-5	666	648	99
2	4	7	440	417	99	2	6	10	252	215	99	2	9	-13	83	162	99	2	11	-10	-196	67	99	2	13	-4	62	8	99
2	4	8	108	5	99	2	6	11	261	290	99	2	9	-12	-229	187	99	2	11	-9	634	627	99	2	13	-3	485	482	99
2	4	9	24	172	99	2	6	12	103	94	99	2	9	-11	130	355	99	2	11	-8	1292	1234	99	2	13	-2	-63	58	99
2	4	10	554	550	99	2	7	-13	-252	9	99	2	9	-10	317	328	99	2	11	-7	155	208	99	2	13	-1	1266	1256	99
2	4	11	101	165	99	2	7	-12	402	412	99	2	9	-9	383	336	99	2	11	-6	711	667	99	2	13	0	304	302	99
2	4	12	102	36	99	2	7	-11	130	164	99	2	9	-8	196	204	99	2	11	-5	90	24	99	2	13	1	959	960	99
2	5	-13	124	110	99	2	7	-10	145	45	99	2	9	-7	525	500	99	2	11	-4	54	15	99	2	13	2	560	560	99
2	5	-12	509	547	99	2	7	-9	302	252	99	2	9	-6	498	499	99	2	11	-3	-110	35	99	2	13	3	-152	123	99
2	5	-11	468	496	99	2	7	-8	385	387	99	2	9	-5	881	835	99	2	11	-2	812	840	99	2	13	4	617	616	99
2	5	-10	86	46	99	2	7	-7	194	218	99	2	9	-4	87	49	99	2	11	-1	789	808	99	2	13	5	564	550	99
2	5	-9	969	942	99	2	7	-6	871	851	99	2	9	-3	307	286	99	2	11	0	204	139	99	2	13	6	322	298	99
2	5	-8	301	277	99	2	7	-5	1147	1114	99	2	9	-2	1837	1788	99	2	11	1	349	380	99	2	13	7	-64	123	99
2	5	-7	240	278	99	2	7	-4	1150	1151	99	2	9	-1	1078	1081	99	2	11	2	1003	1025	99	2	13	8	179	221	99
2	5	-6	922	899	99	2	7	-3	1172	1189	99	2	9	0	-128	48	99	2	11	3	447	459	99	2	13	9	206	151	99
2	5	-5	906	916	99	2	7	-2	276	296	99	2	9	1	1880	1874	99	2	11	4	277	291	99	2	13	10	259	211	99
2	5	-4	1082	1095	99	2	7	-1	733	752	99	2	9	2	726	694	99	2	11	5	830	793	99	2	13	11	362	379	99
2	5	-3	883	903	99	2	7	0	839	855	99	2	9	3	163	92	99	2	11	6	572	506	99	2	14	-12	115	146	99
2	5	-2	1023	1008	99	2	7	1	570	595	99	2	9	4	482	503	99	2	11	7	-156	136	99	2	14	-11	303	305	99
2	5	-1	645	671	99	2	7	2	1168	1179	99	2	9	5	107	81	99	2	11	8	590	540	99	2	14	-10	90	189	99
2	5	0	850	870	99	2	7	3	1252	1249	99	2	9	6	217	203	99	2	11	9	385	289	99	2	14	-9	272	332	99
2	5	1	832	845	99	2	7	4	392	374	99	2	9	7	255	226	99	2	11	10	422	366	99	2	14	-8	129	142	99
2	5	2	1199	1235	99	2	7	5	583	596	99	2	9	8	308	294	99	2	11	11	340	326	99	2	14	-7	926	888	99
2	5	3	-74	36	99	2	7	6	360	325	99	2	9	9	591	553	99	2	11	12	166	184	99	2	14	-6	-82	125	99
2	5	4	183	165	99	2	7	7	720	698	99	2	9	10	149	108	99	2	12	-12	-95	15	99	2	14	-5	440	470	99
2	5	5	1030	1053	99	2	7	8	730	707	99	2	9	11	445	405	99	2	12	-11	76	126	99	2	14	-4	491	491	99
2	5	6	113	139	99	2	7	9	120	69	99	2	9	12	165	359	99	2	12	-10	386	423	99	2	14	-3	714	696	99
2	5	7	379	367	99	2	7	10	144	43	99	2	10	-13	228	276	99	2	12	-9	124	53	99	2	14	-2	341	362	99
2	5	8	413	426	99	2	7	11	247	237	99	2	10	-12	119	65	99	2	12	-8	617	637	99	2	14	-1	715	724	99
2	5	9	447	450	99	2	7	12	299	239	99	2	10	-11	35	133	99	2	12	-7	183	183	99	2	14	0	256	229	99
2	5	10	-76	18	99	2	8	-13	132	112	99	2	10	-10	53	189	99	2	12	-6	197	211	99	2	14	1	393	357	99
2	5	11	373	385	99	2	8	-12	166	131	99	2	10	-9	-197	39	99	2	12	-5	367	391	99	2	14	2	558	541	99
2	14	3	902	918	99	2	16	10	522	465	99	2	19	-2	263	255	99	2	22	-8	96	80	99	2	25	-7	162	201	99
2	14	4	279	321	99	2	16	11	-126	24	99	2	19	-1	203	140	99	2	22	-7	571	554	99	2	25	-6	285	280	99
2	14	5	267	247	99	2	17	-11	254	346	99	2	19	0	683	651	99	2	22	-6	418	419	99	2	25	-5	418	392	99
2	14	6	166	128	99	2	17	-10	146	7	99	2	19	1	397	390	99	2	22	-5	158	162	99	2	25	-4	156	213	99
2	14	7	939	952	99	2	17	-9	487	476	99	2	19	2	786	772	99	2	22	-4	84	40	99	2	25	-3	496	471	99
2	14	8	190	233	99	2	17	-8	251	256	99	2	19	3	108	133	99	2	22	-3	526	552	99	2	25	-2	480	459	99
2	14	9	494	433	99	2	17	-7	265	241	99	2	19	4	625	617	99	2	22	-2	154	154	99	2	25	-1	465	484	99
2	14	10	143	87	99	2	17	-6	426	413	99	2	19	5	145	233	99	2	22	-1	665	701	99	2	25	0	154	31	99
2	14	11	-293	138	99	2	17	-5	788	780	99	2	19	6	165	155	99	2	22	0	60	115	99	2	25	1	209	340	99
2	15	-12	259	285	99	2	17	-4	360	335	99	2	19	7	97	124	99	2	22	1	276	336	99	2	25	2	333	321	99
2	15	-11	361	323	99	2	17	-3	641	656	99	2	19	8	399	443	99	2	22	2	331	327	99	2	25	3	-198	47	99
2	15	-10	115	125	99	2	17	-2	44	37	99	2	19	9	299	210	99	2	22	3	483	457	99	2	25	4	99	45	99
2	15	-9	438	406	99	2	17	-1	118	112	99	2	19	10	98	32	99	2	22	4	181	107	99	2	25	5	489	522	99
2	15	-8	295	266	99	2	17	0	-108	144	99	2	20	-10	359	406	99	2	22	5	52	111	99	2	25	6	269	267	99
2	15	-7	135	148	99	2	17	1	497	466	99	2	20	-9	209	171	99	2	22	6	270	276	99	2	25	7	121	90	99
2	15	-6	509	458	99	2	17	2	459	426	99	2	20	-8	304	247	99	2	22	7	360	418	99	2	26	-8	104	68	99
2	15	-5	445	452	99	2	17	3	133	203	99	2	20	-7	306	294	99	2	22	8	117	45	99	2	26	-7	410	400	99
2	15	-4	210	212	99	2	17	4	368	353	99	2	20	-6	460	484	99	2	22	9	88	192	99	2	26	-6	-109	118	99
2	15	-3	528	539	99	2	17	5	883	882	99	2	20	-5	-85	82	99	2	23	-9	158	205	99	2	26	-5	318	291	99
2	15	-2	1353	1338	99	2	17	6	207	146	99	2	20	-4	840	799	99	2	23	-8	554	518	99	2	26	-4	267	263	99
2	15	-1	511	494	99	2	17	7	495	498	99	2	20	-3	133	46	99	2	23	-7	-16	50	99	2	26	-3	635	682	99
2	15	0	99	169	99	2	17	8	387	417	99	2	20	-2	-87	10	99	2	23	-6	407	375	99	2	26	-2	-381	103	99
2	15	1	1132	1098	99	2	17	9	268	276	99	2	20	-1	-66	7	99	2	23	-5	207	121	99	2	26	-1	381	379	99
2	15	2	639	626	99	2	17	10	-70	164	99	2	20	0	572	550	99	2	23	-4	177	149	99	2	26	0	61	193	99
2	15	3	320	356	99	2	18	-11	352	372	99	2	20	1	53	128	99	2	23	-3	504	476	99	2	26	1	349	355	99
2	15	4	645	629	99	2	18	-10	58	22	99	2	20	2	329	310	99	2	23	-2	478	441	99	2	26	2	-123	135	99
2	15	5	152	210	99	2	18	-9	165	152	99	2	20	3	241	232	99	2	23	-1	558	522	99	2	26	3	369	424	99
2	15	6	458	456	99	2	18	-8	138	9	99	2	20	4	805	819	99	2	23	0	-130	207	99	2	26	4	136	154	99
2	15	7	-149	69	99	2	18	-7	526	564	99	2	20	5	-132	25	99	2	23	1	91	11	99	2	26	5	143	38	99
2	15	8	570	532	99	2	18	-6	247	219	99	2	20	6	709	702	99	2	23	2	663	644	99	2	26	6	65	208	99
2	15	9	661	612	99	2	18	-5	-167	115	99	2	20	7	102	13	99	2	23	3	87	34	99	2	26	7	188	221	99
2	15	10	-95	60	99	2	18	-4	412	404	99	2	20	8	129	76	99	2	23	4	486	516	99	2	27	-7	52	49	99
2	15	11	-142	178	99	2	18	-3	744	716	99	2	20	9	168	215	99	2	23	5	365	366	99	2	27	-6	-103	181	99
2	16	-12	102	26	99	2	18	-2	-57	110	99	2	21	-10	109	143	99	2	23	6	134	256	99	2	27	-5	275	275	99
2	16	-11	223	153	99	2	18	-1	861	860	99	2	21	-9	322	308	99	2	23	7	163	74	99	2	27	-4	-143	119	99
2	16	-10	678	652	99	2	18	0	-63	36	99	2	21	-8	220	191	99	2	23	8	396	447	99	2	27	-3	-95	86	99
2	16	-9	155	39	99	2	18	1	-93	199	99	2	21	-7	200	153	99	2	24	-9	189	102	99	2	27	-2	655	652	99
2	16	-8	239	258	99	2	18	2	149	140	99	2	21	-6	149	128	99	2	24	-8	-179	133	99	2	27	-1	-222	64	99
2	16	-7	-124	24	99	2	18	3	873	853	99	2	21	-5	853	804	99	2	24	-7	217	226	99	2	27	0	127	100	99
2	16	-6	657	656	99	2	18	4	444	464	99	2	21	-4	-128	174	99	2	24	-6	444	451	99	2	27	1	295	291	99
2	16	-5	195	166	99	2	18	5	111	31	99	2	21	-3	131	203	99	2	24	-5	-77	102	99	2	27	2	417	375	99
2	16	-4	607	596	99	2	18	6	291	280	99	2	21	-2	426	441	99	2	24	-4	449	484	99	2	27	3	189	181	99
2	16	-3	492	504	99	2	18	7	495	515	99	2	21	-1	123	33	99	2	24	-3	104	124	99	2	27	4	427	380	99
2	16	-2	158	91	99	2	18	8	-193	134	99	2	21	0	-247	30	99	2	24	-2	127	21	99	2	27	5	143	65	99
2	16	-1	574	567	99	2	18	9	187	328	99	2	21	1	963	918	99	2	24	-1	262	151	99	2	27	6	213	226	99
2	16	0	906	935	99	2	18	10	-96	93	99	2	21	2	325	329	99	2	24	0	682	665	99	2	28	-6	280	261	99
2	16	1	474	456	99	2	19	-11	222	194	99	2	21	3	294	294	99	2	24	1	-90	66	99	2	28	-5	107	76	99
2	16	2	938	922	99	2	19	-10	122	16	99	2	21	4	-86	155	99	2	24	2	-216	14	99	2	28	-4	560	588	99
2	16	3	172	157	99	2	19	-9	331	354	99	2	21	5	605	654	99	2	24	3	149	151	99	2	28	-3	176	262	99
2	16	4	719	696	99	2	19	-8	473	500	99	2	21	6	132	58	99	2	24	4	463	428	99	2	28	-2	136	100	99
2	16	5	271	259	99	2	19	-7	110	71	99	2	21	7	344	368	99	2	24	5	113	103	99	2	28	-1	182	229	99
2	16	6	678	657	99	2	19	-6	166	116	99	2	21	8	99	119	99	2	24	6	158	285	99	2	28	0	521	492	99
2	16	7	145	78	99	2	19	-5	368	320	99	2	21	9	380	399	99	2	24	7	89	237	99	2	28	1	162	152	99
2	16	8	167	116	99	2	19	-4	638	630	99	2	22	-10	120	143	99	2	24	8	-235	16	99	2	28	2	-154	42	99
2	16	9	150	69	99	2	19	-3	148	168	99	2	22	-9	138	141	99	2	25	-8	143	187	99	2	28	3	88	132	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	28	4	311	331	99	3	1	3	1585	1589	99	3	3	6	434	473	99	3	5	9	74	62	99	3	7	12	91	128	99
2	28	5	-103	53	99	3	1	4	216	229	99	3	3	7	524	537	99	3	5	10	183	283	99	3	8	-13	215	174	99
2	29	-5	432	451	99	3	1	5	501	486	99	3	3	8	339	300	99	3	5	11	147	177	99	3	8	-12	-131	114	99
2	29	-4	81	127	99	3	1	6	810	806	99	3	3	9	482	485	99	3	5	12	203	146	99	3	8	-11	576	534	99
2	29	-3	242	232	99	3	1	7	411	430	99	3	3	10	387	385	99	3	6	-13	68	36	99	3	8	-10	71	47	99
2	29	-2	-50	15	99	3	1	8	127	26	99	3	3	11	441	452	99	3	6	-12	499	551	99	3	8	-9	303	313	99
2	29	-1	323	337	99	3	1	9	256	266	99	3	3	12	-185	96	99	3	6	-11	124	94	99	3	8	-8	161	62	99
2	29	0	-44	111	99	3	1	10	477	453	99	3	4	-13	379	324	99	3	6	-10	391	387	99	3	8	-7	374	374	99
2	29	1	368	385	99	3	1	11	213	133	99	3	4	-12	-168	84	99	3	6	-9	-87	185	99	3	8	-6	253	271	99
2	29	2	126	177	99	3	1	12	-233	127	99	3	4	-11	520	503	99	3	6	-8	501	499	99	3	8	-5	861	859	99
2	29	3	-202	133	99	3	2	-13	117	127	99	3	4	-10	386	412	99	3	6	-7	253	241	99	3	8	-4	639	615	99
2	29	4	8	47	99	3	2	-12	446	450	99	3	4	-9	641	622	99	3	6	-6	796	777	99	3	8	-3	908	939	99
2	30	-4	132	86	99	3	2	-11	-117	25	99	3	4	-8	198	82	99	3	6	-5	252	210	99	3	8	-2	552	591	99
2	30	-3	367	317	99	3	2	-10	273	198	99	3	4	-7	54	44	99	3	6	-4	584	598	99	3	8	-1	716	727	99
2	30	-2	90	93	99	3	2	-9	593	566	99	3	4	-6	633	653	99	3	6	-3	366	332	99	3	8	0	106	11	99
2	30	-1	315	322	99	3	2	-8	978	989	99	3	4	-5	1797	1725	99	3	6	-2	1912	1841	99	3	8	1	1902	2002	99
2	30	0	296	308	99	3	2	-7	112	80	99	3	4	-4	859	806	99	3	6	-1	314	312	99	3	8	2	128	179	99
2	30	1	-163	162	99	3	2	-6	1489	1472	99	3	4	-3	734	717	99	3	6	0	892	937	99	3	8	3	812	796	99
2	30	2	-87	44	99	3	2	-5	565	547	99	3	4	-2	883	890	99	3	6	1	336	339	99	3	8	4	249	270	99
2	30	3	387	357	99	3	2	-4	636	585	99	3	4	-1	1071	1031	99	3	6	2	1027	1052	99	3	8	5	949	954	99
2	31	-3	87	235	99	3	2	-3	112	131	99	3	4	0	329	335	99	3	6	3	362	350	99	3	8	6	-51	77	99
2	31	-2	383	355	99	3	2	-2	949	959	99	3	4	1	1238	1186	99	3	6	4	577	547	99	3	8	7	554	537	99
2	31	-1	-130	31	99	3	2	-1	-59	46	99	3	4	2	608	601	99	3	6	5	48	4	99	3	8	8	644	619	99
2	31	0	158	170	99	3	2	0	540	529	99	3	4	3	92	124	99	3	6	6	409	353	99	3	8	9	402	399	99
2	31	1	-124	11	99	3	2	1	423	408	99	3	4	4	-171	36	99	3	6	7	136	133	99	3	8	10	117	3	99
2	31	2	486	514	99	3	2	2	951	915	99	3	4	5	1025	1017	99	3	6	8	655	636	99	3	8	11	275	291	99
3	0	-13	346	311	99	3	2	3	146	111	99	3	4	6	319	318	99	3	6	9	189	106	99	3	9	-13	263	238	99
3	0	-11	207	150	99	3	2	4	1429	1370	99	3	4	7	601	581	99	3	6	10	117	23	99	3	9	-12	85	144	99
3	0	-9	936	929	99	3	2	5	275	307	99	3	4	8	-118	34	99	3	6	11	-305	107	99	3	9	-11	374	356	99
3	0	-7	487	511	99	3	2	6	-53	57	99	3	4	9	395	342	99	3	6	12	255	331	99	3	9	-10	628	648	99
3	0	-5	946	934	99	3	2	7	130	85	99	3	4	10	280	217	99	3	7	-13	377	371	99	3	9	-9	92	56	99
3	0	-3	1349	1264	99	3	2	8	821	778	99	3	4	11	363	424	99	3	7	-12	-18	106	99	3	9	-8	139	111	99
3	0	-1	2070	1985	99	3	2	9	56	167	99	3	4	12	-123	118	99	3	7	-11	392	418	99	3	9	-7	262	268	99
3	0	1	137	60	99	3	2	10	152	124	99	3	5	-13	-285	227	99	3	7	-10	451	398	99	3	9	-6	165	153	99
3	0	3	926	904	99	3	2	11	100	15	99	3	5	-12	140	124	99	3	7	-9	173	149	99	3	9	-5	193	124	99
3	0	5	796	796	99	3	2	12	365	396	99	3	5	-11	82	28	99	3	7	-8	379	413	99	3	9	-4	575	592	99
3	0	7	497	468	99	3	3	-13	-147	147	99	3	5	-10	489	484	99	3	7	-7	564	566	99	3	9	-3	785	780	99
3	0	9	649	674	99	3	3	-12	-143	161	99	3	5	-9	136	37	99	3	7	-6	434	395	99	3	9	-2	326	334	99
3	0	11	695	718	99	3	3	-11	497	515	99	3	5	-8	780	788	99	3	7	-5	227	235	99	3	9	-1	986	1021	99
3	1	-13	53	101	99	3	3	-10	279	312	99	3	5	-7	423	387	99	3	7	-4	1155	1118	99	3	9	0	1422	1499	99
3	1	-12	37	160	99	3	3	-9	247	238	99	3	5	-6	920	890	99	3	7	-3	1522	1505	99	3	9	1	398	342	99
3	1	-11	349	330	99	3	3	-8	257	258	99	3	5	-5	778	752	99	3	7	-2	330	320	99	3	9	2	589	605	99
3	1	-10	371	404	99	3	3	-7	578	538	99	3	5	-4	400	400	99	3	7	-1	1402	1350	99	3	9	3	707	729	99
3	1	-9	624	623	99	3	3	-6	610	627	99	3	5	-3	385	390	99	3	7	0	553	604	99	3	9	4	415	407	99
3	1	-8	434	401	99	3	3	-5	340	319	99	3	5	-2	102	67	99	3	7	1	282	244	99	3	9	5	87	51	99
3	1	-7	1412	1417	99	3	3	-4	850	835	99	3	5	-1	928	921	99	3	7	2	584	594	99	3	9	6	591	598	99
3	1	-6	465	471	99	3	3	-3	1165	1175	99	3	5	0	441	439	99	3	7	3	853	838	99	3	9	7	320	304	99
3	1	-5	648	630	99	3	3	-2	417	426	99	3	5	1	1300	1339	99	3	7	4	1043	1078	99	3	9	8	51	216	99
3	1	-4	1504	1452	99	3	3	-1	407	430	99	3	5	2	484	481	99	3	7	5	-104	51	99	3	9	9	205	167	99
3	1	-3	649	642	99	3	3	0	1124	1104	99	3	5	3	1228	1197	99	3	7	6	581	534	99	3	9	10	313	363	99
3	1	-2	650	634	99	3	3	1	79	53	99	3	5	4	678	699	99	3	7	7	658	644	99	3	9	11	-79	95	99
3	1	-1	148	74	99	3	3	2	605	618	99	3	5	5	335	340	99	3	7	8	-153	156	99	3	10	-13	-150	99	99
3	1	0	856	853	99	3	3	3	787	783	99	3	5	6	1093	1084	99	3	7	9	313	341	99	3	10	-12	485	509	99
3	1	1	809	856	99	3	3	4	330	301	99	3	5	7	418	423	99	3	7	10	150	172	99	3	10	-11	-95	70	99
3	1	2	487	476	99	3	3	5	411	389	99	3	5	8	92	81	99	3	7	11	-50	29	99	3	10	-10	209	75	99
3	10	-9	118	120	99	3	12	-3	1131	1176	99	3	14	4	581	570	99	3	17	-9	260	240	99	3	19	3	524	583	99
3	10	-8	343	339	99	3	12	-2	204	220	99	3	14	5	504	506	99	3	17	-8	357	345	99	3	19	4	207	221	99
3	10	-7	158	60	99	3	12	-1	1854	1842	99	3	14	6	417	415	99	3	17	-7	538	553	99	3	19	5	418	460	99
3	10	-6	714	784	99	3	12	0	301	272	99	3	14	7	127	5	99	3	17	-6	577	545	99	3	19	6	529	531	99
3	10	-5	345	325	99	3	12	1	995	1006	99	3	14	8	687	698	99	3	17	-5	310	269	99	3	19	7	-138	329	99
3	10	-4	69	105	99	3	12	2	256	259	99	3	14	9	204	173	99	3	17	-4	715	726	99	3	19	8	119	84	99
3	10	-3	179	233	99	3	12	3	-169	222	99	3	14	10	330	285	99	3	17	-3	604	607	99	3	19	9	290	228	99
3	10	-2	1794	1794	99	3	12	4	20	7	99	3	15	-12	-95	101	99	3	17	-2	197	214	99	3	20	-10	-117	170	99
3	10	-1	81	58	99	3	12	5	894	896	99	3	15	-11	511	496	99	3	17	-1	568	567	99	3	20	-9	464	480	99
3	10	0	643	612	99	3	12	6	235	199	99	3	15	-10	232	219	99	3	17	0	505	487	99	3	20	-8	299	368	99
3	10	1	888	932	99	3	12	7	182	54	99	3	15	-9	267	257	99	3	17	1	99	22	99	3	20	-7	210	225	99
3	10	2	770	772	99	3	12	8	127	108	99	3	15	-8	81	214	99	3	17	2	263	286	99	3	20	-6	450	449	99
3	10	3	83	95	99	3	12	9	357	299	99	3	15	-7	394	471	99	3	17	3	-151	48	99	3	20	-5	874	868	99
3	10	4	638	625	99	3	12	10	-258	82	99	3	15	-6	159	167	99	3	17	4	474	469	99	3	20	-4	117	145	99
3	10	5	232	227	99	3	12	11	187	412	99	3	15	-5	183	162	99	3	17	5	46	5	99	3	20	-3	356	345	99
3	10	6	744	760	99	3	13	-12	158	75	99	3	15	-4	214	236	99	3	17	6	731	738	99	3	20	-2	139	47	99
3	10	7	121	78	99	3	13	-11	204	289	99	3	15	-3	821	875	99	3	17	7	516	503	99	3	20	-1	297	325	99
3	10	8	639	596	99	3	13	-10	458	471	99	3	15	-2	226	222	99	3	17	8	61	220	99	3	20	0	402	393	99
3	10	9	-116	109	99	3	13	-9	-218	194	99	3	15	-1	569	584	99	3	17	9	288	297	99	3	20	1	547	531	99
3	10	10	135	194	99	3	13	-8	236	208	99	3	15	0	500	500	99	3	17	10	245	325	99	3	20	2	185	258	99
3	10	11	179	33	99	3	13	-7	242	274	99	3	15	1	155	75	99	3	18	-11	-218	68	99	3	20	3	35	253	99
3	11	-13	364	364	99	3	13	-6	190	218	99	3	15	2	427	403	99	3	18	-10	311	325	99	3	20	4	307	377	99
3	11	-12	-221	70	99	3	13	-5	115	129	99	3	15	3	691	682	99	3	18	-9	204	235	99	3	20	5	356	417	99
3	11	-11	215	168	99	3	13	-4	839	862	99	3	15	4	-143	58	99	3	18	-8	313	337	99	3	20	6	352	361	99
3	11	-10	470	509	99	3	13	-3	521	536	99	3	15	5	292	223	99	3	18	-7	33	156	99	3	20	7	503	486	99
3	11	-9	338	331	99	3	13	-2	168	100	99	3	15	6	298	205	99	3	18	-6	626	629	99	3	20	8	194	286	99
3	11	-8	156	194	99	3	13	-1	557	576	99	3	15	7	444	469	99	3	18	-5	330	335	99	3	20	9	270	293	99
3	11	-7	240	208	99	3	13	0	1035	1063	99	3	15	8	35	9	99	3	18	-4	727	715	99	3	21	-10	244	269	99
3	11	-6	118	60	99	3	13	1	-138	19	99	3	15	9	241	252	99	3	18	-3	113	38	99	3	21	-9	67	52	99
3	11	-5	401	438	99	3	13	2	825	820	99	3	15	10	-85	316	99	3	18	-2	864	907	99	3	21	-8	221	212	99
3	11	-4	781	783	99	3	13	3	296	272	99	3	16	-12	-278	35	99	3	18	-1	141	51	99	3	21	-7	75	131	99
3	11	-3	184	160	99	3	13	4	787	797	99	3	16	-11	323	317	99	3	18	0	171	171	99	3	21	-6	402	408	99
3	11	-2	115	110	99	3	13	5	64	113	99	3	16	-10	121	29	99	3	18	1	90	20	99	3	21	-5	156	227	99
3	11	-1	1372	1364	99	3	13	6	427	466	99	3	16	-9	534	543	99	3	18	2	624	631	99	3	21	-4	487	485	99
3	11	0	619	661	99	3	13	7	624	611	99	3	16	-8	172	216	99	3	18	3	126	22	99	3	21	-3	445	465	99
3	11	1	402	383	99	3	13	8	124	198	99	3	16	-7	141	224	99	3	18	4	460	475	99	3	21	-2	119	153	99
3	11	2	492	503	99	3	13	9	407	433	99	3	16	-6	151	173	99	3	18	5	102	186	99	3	21	-1	374	354	99
3	11	3	959	984	99	3	13	10	266	268	99	3	16	-5	929	973	99	3	18	6	74	149	99	3	21	0	523	539	99
3	11	4	406	356	99	3	13	11	83	47	99	3	16	-4	214	208	99	3	18	7	187	96	99	3	21	1	-149	78	99
3	11	5	142	127	99	3	14	-12	423	419	99	3	16	-3	323	289	99	3	18	8	498	526	99	3	21	2	349	350	99
3	11	6	220	243	99	3	14	-11	160	169	99	3	16	-2	395	412	99	3	18	9	-83	104	99	3	21	3	247	219	99
3	11	7	583	554	99	3	14	-10	298	286	99	3	16	-1	375	389	99	3	19	-11	-38	144	99	3	21	4	0	169	99
3	11	8	35	73	99	3	14	-9	104	14	99	3	16	0	-128	70	99	3	19	-10	195	235	99	3	21	5	62	33	99
3	11	9	464	455	99	3	14	-8	660	671	99	3	16	1	738	712	99	3	19	-9	-170	70	99	3	21	6	500	503	99
3	11	10	291	327	99	3	14	-7	-212	35	99	3	16	2	179	162	99	3	19	-8	423	427	99	3	21	7	147	113	99
3	11	11	65	110	99	3	14	-6	603	610	99	3	16	3	124	40	99	3	19	-7	794	873	99	3	21	8	129	122	99
3	12	-12	-118	162	99	3	14	-5	130	45	99	3	16	4	367	362	99	3	19	-6	350	363	99	3	22	-10	-151	8	99
3	12	-11	-122	160	99	3	14	-4	285	326	99	3	16	5	638	610	99	3	19	-5	52	84	99	3	22	-9	-180	15	99
3	12	-10	164	119	99	3	14	-3	644	635	99	3	16	6	-132	167	99	3	19	-4	38	196	99	3	22	-8	493	514	99
3	12	-9	871	882	99	3	14	-2	1295	1359	99	3	16	7	565	568	99	3	19	-3	445	470	99	3	22	-7	157	54	99
3	12	-8	-81	9	99	3	14	-1	299	326	99	3	16	8	140	267	99	3	19	-2	-40	94	99	3	22	-6	680	682	99
3	12	-7	-117	160	99	3	14	0	148	176	99	3	16	9	298	284	99	3	19	-1	491	454	99	3	22	-5	398	404	99
3	12	-6	74	133	99	3	14	1	155	148	99	3	16	10	-105	54	99	3	19	0	89	71	99	3	22	-4	247	201	99
3	12	-5	588	602	99	3	14	2	515	534	99	3	17	-11	247	294	99	3	19	1	384	357	99	3	22	-3	103	117	99
3	12	-4	46	29	99	3	14	3	202	155	99	3	17	-10	513	517	99	3	19	2	108	215	99	3	22	-2	410	407	99

h	k	l	Fo	Fc	sigF2
3	22	-1	95	46	99
3	22	0	145	96	99
3	22	1	180	200	99
3	22	2	593	599	99
3	22	3	163	80	99
3	22	4	721	731	99
3	22	5	310	243	99
3	22	6	-127	12	99
3	22	7	-180	225	99
3	22	8	279	362	99
3	23	-9	275	302	99
3	23	-8	-66	76	99
3	23	-7	601	597	99
3	23	-6	-218	166	99
3	23	-5	432	463	99
3	23	-4	357	331	99
3	23	-3	340	373	99
3	23	-2	-173	134	99
3	23	-1	329	313	99
3	23	0	382	407	99
3	23	1	511	453	99
3	23	2	123	42	99
3	23	3	632	651	99
3	23	4	170	352	99
3	23	5	169	197	99
3	23	6	-88	106	99
3	23	7	320	326	99
3	23	8	201	177	99
3	24	-9	81	285	99
3	24	-8	185	131	99
3	24	-7	164	95	99
3	24	-6	148	215	99
3	24	-5	351	303	99
3	24	-4	295	273	99
3	24	-3	642	649	99
3	24	-2	72	24	99
3	24	-1	651	670	99
3	24	0	-64	20	99
3	24	1	362	312	99
3	24	2	181	206	99
3	24	3	286	259	99
3	24	4	138	144	99
3	24	5	460	492	99
3	24	6	-157	11	99
3	24	7	-93	15	99
3	25	-8	-52	78	99
3	25	-7	268	264	99
3	25	-6	351	294	99
3	25	-5	225	248	99
3	25	-4	655	635	99
3	25	-3	-144	104	99
3	25	-2	-137	81	99
3	25	-1	70	142	99
3	25	0	587	546	99
3	25	1	151	211	99
3	25	2	497	465	99
3	25	3	486	499	99
3	25	4	267	289	99
3	25	5	-113	28	99
3	25	6	383	372	99
3	25	7	-230	54	99
3	26	-7	-96	95	99
3	26	-6	327	392	99
3	26	-5	21	182	99
3	26	-4	246	289	99
3	26	-3	279	311	99
3	26	-2	443	445	99
3	26	-1	228	289	99
3	26	0	82	122	99
3	26	1	-87	54	99
3	26	2	570	557	99
3	26	3	132	56	99
3	26	4	410	395	99
3	26	5	329	346	99
3	26	6	233	189	99
3	27	-7	98	158	99
3	27	-6	158	124	99
3	27	-5	166	139	99
3	27	-4	276	197	99
3	27	-3	351	365	99
3	27	-2	148	105	99
3	27	-1	422	425	99
3	27	0	144	270	99
3	27	1	132	59	99
3	27	2	-207	160	99
3	27	3	415	421	99
3	27	4	-85	116	99
3	27	5	117	36	99
3	28	-6	169	142	99
3	28	-5	389	426	99
3	28	-4	42	12	99
3	28	-3	273	264	99
3	28	-2	547	541	99
3	28	-1	22	145	99
3	28	0	180	78	99
3	28	1	581	577	99
3	28	2	56	48	99
3	28	3	104	170	99
3	28	4	-280	196	99
3	29	-5	130	161	99
3	29	-4	446	394	99
3	29	-3	37	11	99
3	29	-2	-18	111	99
3	29	-1	-75	17	99
3	29	0	493	466	99
3	29	1	-137	161	99
3	29	2	89	172	99
3	29	3	-137	126	99
3	30	-4	166	181	99
3	30	-3	120	99	99
3	30	-2	334	302	99
3	30	-1	120	119	99
3	30	0	227	279	99
3	30	1	243	242	99
3	30	2	343	373	99
3	31	-1	463	482	99
4	0	-12	115	69	99
4	0	-10	402	388	99
4	0	-8	939	972	99
4	0	-6	488	483	99
4	0	-4	1516	1473	99
4	0	-2	739	725	99
4	0	0	921	982	99
4	0	2	2019	1985	99
4	0	4	322	294	99
4	0	6	342	342	99
4	0	8	-134	76	99
4	0	10	699	699	99
4	1	-13	130	145	99
4	1	-12	182	228	99
4	1	-11	242	187	99
4	1	-10	-178	86	99
4	1	-9	684	686	99
4	1	-8	507	494	99
4	1	-7	204	153	99
4	1	-6	965	923	99
4	1	-5	830	824	99
4	1	-4	225	249	99
4	1	-3	517	534	99
4	1	-2	770	769	99
4	1	-1	777	815	99
4	1	0	687	633	99
4	1	1	1432	1413	99
4	1	2	1068	1049	99
4	1	3	123	148	99
4	1	4	516	552	99
4	1	5	374	363	99
4	1	6	280	291	99
4	1	7	-199	90	99
4	1	8	247	300	99
4	1	9	255	233	99
4	1	10	353	324	99
4	1	11	445	479	99
4	2	-13	-167	152	99
4	2	-12	123	0	99
4	2	-11	386	406	99
4	2	-10	65	31	99
4	2	-9	418	377	99
4	2	-8	74	178	99
4	2	-7	1165	1168	99
4	2	-6	352	345	99
4	2	-5	1011	1039	99
4	2	-4	556	571	99
4	2	-3	1212	1189	99
4	2	-2	446	416	99
4	2	-1	518	541	99
4	2	0	-135	35	99
4	2	1	449	455	99
4	2	2	820	850	99
4	2	3	1270	1298	99
4	2	4	447	448	99
4	2	5	308	295	99
4	2	6	-114	85	99
4	2	7	374	356	99
4	2	8	419	455	99
4	2	9	710	710	99
4	2	10	-17	26	99
4	2	11	-117	140	99
4	3	-13	289	223	99
4	3	-12	328	322	99
4	3	-11	310	305	99
4	3	-10	393	365	99
4	3	-9	433	448	99
4	3	-8	239	243	99
4	3	-7	224	196	99
4	3	-6	811	828	99
4	3	-5	568	544	99
4	3	-4	436	457	99
4	3	-3	307	290	99
4	3	-2	1447	1488	99
4	3	-1	978	1038	99
4	3	0	465	483	99
4	3	1	1651	1695	99
4	3	2	438	453	99
4	3	3	241	224	99
4	3	4	461	435	99
4	3	5	133	176	99
4	3	6	-244	25	99
4	3	7	-99	75	99
4	3	8	442	443	99
4	3	9	478	439	99
4	3	10	170	193	99
4	3	11	274	306	99
4	4	-13	135	95	99
4	4	-12	-143	25	99
4	4	-11	187	232	99
4	4	-10	578	601	99
4	4	-9	228	174	99
4	4	-8	758	752	99
4	4	-7	-154	57	99
4	4	-6	423	426	99
4	4	-5	118	120	99
4	4	-4	862	906	99
4	4	-3	1026	1080	99
4	4	-2	147	87	99
4	4	-1	269	235	99
4	4	0	1917	1892	99
4	4	1	546	528	99
4	4	2	-35	46	99
4	4	3	238	180	99
4	4	4	411	411	99
4	4	5	456	430	99
4	4	6	855	852	99
4	4	7	444	420	99
4	4	8	135	26	99
4	4	9	118	116	99
4	4	10	461	462	99
4	4	11	136	135	99
4	5	-13	170	91	99
4	5	-12	380	362	99
4	5	-11	227	194	99
4	5	-10	-125	163	99
4	5	-9	782	757	99
4	5	-8	680	702	99
4	5	-7	97	18	99
4	5	-6	601	609	99
4	5	-5	932	953	99
4	5	-4	174	188	99
4	5	-3	731	734	99
4	5	-2	195	193	99
4	5	-1	739	750	99
4	5	0	1315	1297	99
4	5	1	387	375	99
4	5	2	689	666	99
4	5	3	-167	83	99
4	5	4	807	798	99
4	5	5	1013	1032	99
4	5	6	310	298	99
4	5	7	560	546	99
4	5	8	629	609	99
4	5	9	-326	77	99
4	5	10	144	162	99
4	5	11	308	285	99
4	6	-13	368	310	99
4	6	-12	129	68	99
4	6	-11	350	415	99
4	6	-10	128	174	99
4	6	-9	116	39	99
4	6	-8	-108	154	99
4	6	-7	946	916	99
4	6	-6	549	535	99
4	6	-5	125	153	99
4	6	-4	613	617	99
4	6	-3	516	506	99
4	6	-2	186	169	99
4	6	-1	2049	2038	99
4	6	0	211	230	99
4	6	1	350	354	99
4	6	2	611	627	99
4	6	3	997	1007	99
4	6	4	237	218	99
4	6	5	393	386	99
4	6	6	372	362	99
4	6	7	707	686	99
4	6	8	328	291	99
4	6	9	232	292	99
4	6	10	110	69	99
4	6	11	177	121	99
4	7	-13	147	186	99
4	7	-12	432	414	99
4	7	-11	401	359	99
4	7	-10	258	252	99
4	7	-9	690	646	99
4	7	-8	360	307	99
4	7	-7	-128	149	99
4	7	-6	466	429	99
4	7	-5	-111	94	99
4	7	-4	613	634	99
4	7	-3	147	199	99
4	7	-2	679	672	99
4	7	-1	144	150	99
4	7	0	953	951	99
4	7	1	1146	1156	99
4	7	2	676	724	99
4	7	3	-149	41	99
4	7	4	406	405	99
4	7	5	770	765	99
4	7	6	201	68	99
4	7	7	430	416	99
4	7	8	671	664	99
4	7	9	250	190	99
4	7	10	-379	34	99
4	7	11	217	122	99
4	8	-13	-147	133	99
4	8	-12	-228	17	99
4	8	-11	-51	8	99
4	8	-10	518	558	99
4	8	-9	112	42	99
4	8	-8	694	699	99
4	8	-7	339	297	99
4	8	-6	820	785	99
4	8	-5	-163	64	99
4	8	-4	998	1001	99
4	8	-3	151	28	99
4	8	-2	342	359	99
4	8	-1	-93	117	99
4	8	0	402	402	99
4	8	1	328	336	99
4	8	2	777	783	99
4	8	3	142	98	99
4	8	4	739	749	99
4	8	5	442	404	99
4	8	6	1141	1180	99
4	8	7	190	139	99
4	8	8	119	54	99
4	8	9	140	31	99
4	8	10	349	327	99
4	8	11	116	80	99
4	9	-13	274	295	99
4	9	-12	367	368	99
4	9	-11	82	157	99
4	9	-10	72	93	99
4	9	-9	111	187	99
4	9	-8	432	394	99
4	9	-7	189	108	99
4	9	-6	377	347	99
4	9	-5	815	771	99
4	9	-4	360	317	99
4	9	-3	832	858	99
4	9	-2	771	762	99
4	9	-1	152	126	99
4	9	0	382	346	99
4	9	1	1264	1229	99
4	9	2	273	290	99
4	9	3	328	349	99
4	9	4	390	389	99
4	9	5	560	587	99
4	9	6	404	410	99
4	9	7	390	383	99
4	9	8	136	183	99
4	9	9	126	262	99
4	9	10	-166	9	99
4	9	11	219	187	99
4	10	-13	317	323	99
4	10	-12	107	6	99
4	10	-11	595	557	99
4	10	-10	142	119	99
4	10	-9	283	250	99
4	10	-8	109	57	99
4	10	-7	862	859	99
4	10	-6	746	722	99
4	10	-5	151	179	99
4	10	-4	110	135	99
4	10	-3	1014	1024	99
4	10	-2	-111	9	99
4	10	-1	687	708	99
4	10	0	-86	97	99
4	10	1	203	225	99
4	10	2	-112	68	99
4	10	3	1371	1367	99
4	10	4	136	45	99
4	10	5	300	279	99
4	10	6	-210	164	99
4	10	7	564	566	99
4	10	8	198	162	99
4	10	9	385	425	99
4	10	10	69	50	99
4	11	-12	472	431	99
4	11	-11	72	22	99
4	11	-10	-200	109	99
4	11	-9	291	316	99
4	11	-8	486	466	99
4	11	-7	-188	34	99
4	11	-6	624	623	99
4	11	-5	673	683	99
4	11	-4	204	200	99
4	11	-3	363	400	99
4	11	-2	650	664	99
4	11	-1	-127	19	99
4	11	0	569	517	99
4	11	1	480	447	99
4	11	2	647	655	99
4	11	3	125	83	99
4	11	4	1212	1203	99
4	11	5	804	755	99
4	11	6	581	577	99
4	11	7	-190	157	99
4	11	8	526	485	99
4	11	9	-142	78	99
4	11	10	155	139	99
4	12	-12	309	250	99
4	12	-11	160	95	99
4	12	-10	411	415	99
4	12	-9	113	95	99
4	12	-8	191	226	99
4	12	-7	-43	35	99
4	12	-6	697	714	99
4	12	-5	55	68	99
4	12	-4	1235	1257	99
4	12	-3	225	157	99
4	12	-2	-12	49	99
4	12	-1	244	276	99
4	12	0	337	363	99
4	12	1	158	112	99
4	12	2	765	805	99
4	12	3	460	467	99
4	12	4	679	723	99
4	12	5	175	91	99
4	12	6	433	422	99
4	12	7	228	132	99
4	12	8	112	43	99
4	12	9	119	36	99
4	12	10	364	366	99
4	13	-12	-83	37	99
4	13	-11	255	238	99
4	13	-10	373	295	99
4	13	-9	379	359	99
4	13	-8	261	264	99
4	13	-7	206	183	99
4	13	-6	567	553	99
4	13	-5	598	663	99
4	13	-4	-76	155	99
4	13	-3	459	449	99
4	13	-2	614	626	99
4	13	-1	87	130	99
4	13	0	103	190	99
4	13	1	876	882	99
4	13	2	433	449	99
4	13	3	369	324	99
4	13	4	485	503	99
4	13	5	879	872	99
4	13	6	10	119	99
4	13	7	330	293	99
4	13	8	138	241	99
4	13	9	-220	153	99
4	13	10	249	204	99
4	14	-12	121	121	99
4	14	-11	543	545	99
4	14	-10	345	390	99
4	14	-9	173	38	99
4	14	-8	111	130	99
4	14	-7	777	755	99
4	14	-6	175	188	99
4	14	-5	390	375	99
4	14	-4	20	32	99
4	14	-3	923	964	99
4	14	-2	283	277	99
4	14	-1	432	468	99
4	14	0	226	208	99
4	14	1	282	298	99
4	14	2	459	450	99
4	14	3	843	825	99
4	14	4	189	258	99
4	14	5	116	115	99
4	14	6	317	306	99
4	14	7	354	431	99
4	14	8	137	81	99
4	14	9	428	369	99
4	14	10	71	86	99
4	15	-12	360	362	99
4	15	-11	24	46	99
4	15	-10	155	255	99
4	15	-9	185	120	99
4	15	-8	484	494	99
4	15	-7	69	78	99
4	15	-6	240	228	99
4	15	-5	866	834	99
4	15	-4	-141	176	99
4	15	-3	687	743	99
4	15	-2	1103	1120	99
4	15	-1	324	269	99
4	15	0	356	353	99
4	15	1	324	268	99
4	15	2	508	511	99
4	15	3	312	274	99
4	15	4	369	370	99
4	15	5	114	78	99
4	15	6	127	184	99
4	15	7	323	382	99
4	15	8	284	315	99
4	15	9	-132	93	99
4	15	10	-44	84	99
4	16	-11	168	194	99
4	16	-10	100	340	99
4	16	-9	298	287	99
4	16	-8	469	509	99
4	16	-7	-65	33	99
4	16	-6	438	455	99
4	16	-5	79	70	99
4	16	-4	1137	1129	99
4	16	-3	428	413	99
4	16	-2	124	126	99
4	16	-1	-189	40	99
4	16	0	894	938	99
4	16	1	362	370	99
4	16	2	158	162	99
4	16	3	425	416	99
4	16	4	484	472	99
4	16	5	153	58	99
4	16	6	658	713	99
4	16	7	49	6	99
4	16	8	126	168	99
4	16	9	125	32	99
4	17	-11	97	172	99
4	17	-10	143	236	99
4	17	-9	611	697	99
4	17	-8	-184	39	99
4	17	-7	156	102	99
4	17	-6	384	389	99
4	17	-5	353	371	99
4	17	-4	289	336	99
4	17	-3	414	452	99
4	17	-2	271	210	99
4	17	-1	533	528	99
4	17	0	185	209	99
4	17	1	672	666	99
4	17	2	275	261	99
4	17	3	-194	172	99
4	17	4	-136	89	99
4	17	5	586	622	99
4	17	6	98	78	99
4	17	7	143	267	99
4	17	8	322	277	99
4	17	9	173	181	99
4	18	-11	293	291	99
4	18	-10	259	228	99
4	18	-9	215	205	99
4	18	-8	135	198	99
4	18	-7	724	713	99
4	18	-6	116	6	99
4	18	-5	-199	12	99
4	18	-4	115	52	99
4	18	-3	528	504	99
4	18	-2	269	277	99
4	18	-1	1231	1240	99
4	18	0	353	358	99
4	18	1	367	359	99
4	18	2	226	258	99
4	18	3	173	156	99
4	18	4	-160	6	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	18	5	273	251	99	4	21	2	220	166	99	4	24	6	272	253	99	4	29	2	-111	170	99	5	2	3	249	249	99
4	18	6	125	64	99	4	21	3	155	77	99	4	25	-8	171	243	99	4	30	-2	139	67	99	5	2	4	552	523	99
4	18	7	188	197	99	4	21	4	295	339	99	4	25	-7	98	11	99	4	30	-1	399	391	99	5	2	5	42	65	99
4	18	8	121	14	99	4	21	5	144	34	99	4	25	-6	-134	137	99	5	0	-13	160	250	99	5	2	6	333	341	99
4	18	9	85	252	99	4	21	6	-65	127	99	4	25	-5	325	316	99	5	0	-11	172	213	99	5	2	7	227	255	99
4	19	-10	-163	97	99	4	21	7	227	112	99	4	25	-4	120	136	99	5	0	-9	666	675	99	5	2	8	754	719	99
4	19	-9	109	174	99	4	21	8	138	172	99	4	25	-3	304	301	99	5	0	-7	280	298	99	5	2	9	134	111	99
4	19	-8	173	237	99	4	22	-9	-64	123	99	4	25	-2	-115	61	99	5	0	-5	1071	1079	99	5	2	10	256	278	99
4	19	-7	140	133	99	4	22	-8	184	241	99	4	25	-1	314	333	99	5	0	-3	1064	1110	99	5	3	-13	193	140	99
4	19	-6	770	712	99	4	22	-7	411	391	99	4	25	0	-185	19	99	5	0	-1	1175	1135	99	5	3	-12	142	40	99
4	19	-5	366	365	99	4	22	-6	227	236	99	4	25	1	545	530	99	5	0	1	1358	1359	99	5	3	-11	402	393	99
4	19	-4	380	384	99	4	22	-5	444	421	99	4	25	2	192	300	99	5	0	3	218	230	99	5	3	-10	367	352	99
4	19	-3	370	329	99	4	22	-4	269	277	99	4	25	3	221	164	99	5	0	5	425	421	99	5	3	-9	266	229	99
4	19	-2	651	655	99	4	22	-3	596	556	99	4	25	4	286	273	99	5	0	7	75	50	99	5	3	-8	520	536	99
4	19	-1	-99	37	99	4	22	-2	304	248	99	4	25	5	192	384	99	5	0	9	257	258	99	5	3	-7	379	346	99
4	19	0	71	325	99	4	22	-1	312	292	99	4	25	6	144	161	99	5	1	-13	282	221	99	5	3	-6	528	523	99
4	19	1	164	196	99	4	22	0	448	426	99	4	26	-7	386	381	99	5	1	-12	-68	19	99	5	3	-5	708	689	99
4	19	2	569	578	99	4	22	1	-50	84	99	4	26	-6	-164	65	99	5	1	-11	447	456	99	5	3	-4	482	483	99
4	19	3	306	294	99	4	22	2	257	221	99	4	26	-5	132	176	99	5	1	-10	197	328	99	5	3	-3	1131	1146	99
4	19	4	431	478	99	4	22	3	684	688	99	4	26	-4	204	242	99	5	1	-9	98	107	99	5	3	-2	372	365	99
4	19	5	450	457	99	4	22	4	234	178	99	4	26	-3	-90	113	99	5	1	-8	208	186	99	5	3	-1	1258	1301	99
4	19	6	-332	53	99	4	22	5	-113	108	99	4	26	-2	-53	48	99	5	1	-7	490	482	99	5	3	0	1240	1228	99
4	19	7	281	291	99	4	22	6	-267	29	99	4	26	-1	252	305	99	5	1	-6	249	263	99	5	3	1	163	176	99
4	19	8	359	384	99	4	22	7	245	286	99	4	26	0	30	152	99	5	1	-5	401	380	99	5	3	2	103	117	99
4	20	-10	249	345	99	4	23	-9	285	251	99	4	26	1	142	76	99	5	1	-4	1223	1216	99	5	3	3	931	929	99
4	20	-9	115	26	99	4	23	-8	451	424	99	4	26	2	135	36	99	5	1	-3	575	552	99	5	3	4	442	423	99
4	20	-8	542	581	99	4	23	-7	-218	21	99	4	26	3	523	512	99	5	1	-2	176	153	99	5	3	5	295	294	99
4	20	-7	450	475	99	4	23	-6	493	497	99	4	26	4	-154	121	99	5	1	-1	618	655	99	5	3	6	639	700	99
4	20	-6	246	272	99	4	23	-5	208	127	99	4	26	5	111	113	99	5	1	0	676	698	99	5	3	7	156	276	99
4	20	-5	160	78	99	4	23	-4	-125	29	99	4	27	-6	325	276	99	5	1	1	-149	9	99	5	3	8	138	218	99
4	20	-4	513	503	99	4	23	-3	-53	212	99	4	27	-5	94	7	99	5	1	2	717	721	99	5	3	9	260	193	99
4	20	-3	-138	207	99	4	23	-2	449	419	99	4	27	-4	255	61	99	5	1	3	765	748	99	5	3	10	290	254	99
4	20	-2	-27	202	99	4	23	-1	133	54	99	4	27	-3	-208	6	99	5	1	4	742	754	99	5	4	-13	139	166	99
4	20	-1	215	164	99	4	23	0	-187	83	99	4	27	-2	427	416	99	5	1	5	-88	78	99	5	4	-12	109	10	99
4	20	0	783	793	99	4	23	1	253	260	99	4	27	-1	96	112	99	5	1	6	-287	40	99	5	4	-11	297	317	99
4	20	1	495	488	99	4	23	2	527	572	99	4	27	0	158	258	99	5	1	7	358	327	99	5	4	-10	-120	285	99
4	20	2	233	203	99	4	23	3	297	288	99	4	27	1	448	420	99	5	1	8	-171	317	99	5	4	-9	915	891	99
4	20	3	-137	34	99	4	23	4	352	414	99	4	27	2	307	232	99	5	1	9	607	557	99	5	4	-8	212	151	99
4	20	4	266	288	99	4	23	5	261	307	99	4	27	3	-231	67	99	5	1	10	262	277	99	5	4	-7	19	219	99
4	20	5	242	229	99	4	23	6	-209	89	99	4	27	4	398	399	99	5	2	-13	111	15	99	5	4	-6	353	310	99
4	20	6	-161	401	99	4	23	7	121	60	99	4	28	-5	-71	4	99	5	2	-12	487	522	99	5	4	-5	625	598	99
4	20	7	-254	168	99	4	24	-8	-101	256	99	4	28	-4	226	239	99	5	2	-11	157	233	99	5	4	-4	94	25	99
4	20	8	153	76	99	4	24	-7	258	264	99	4	28	-3	328	307	99	5	2	-10	401	375	99	5	4	-3	792	813	99
4	21	-10	29	105	99	4	24	-6	174	104	99	4	28	-2	103	43	99	5	2	-9	-185	170	99	5	4	-2	390	379	99
4	21	-9	376	376	99	4	24	-5	215	182	99	4	28	-1	170	230	99	5	2	-8	229	174	99	5	4	-1	463	468	99
4	21	-8	-29	70	99	4	24	-4	380	346	99	4	28	0	443	432	99	5	2	-7	304	285	99	5	4	0	82	96	99
4	21	-7	307	319	99	4	24	-3	256	220	99	4	28	1	94	80	99	5	2	-6	857	878	99	5	4	1	1203	1231	99
4	21	-6	-111	100	99	4	24	-2	-221	58	99	4	28	2	335	304	99	5	2	-5	44	99	99	5	4	2	319	323	99
4	21	-5	628	658	99	4	24	-1	171	70	99	4	28	3	176	174	99	5	2	-4	255	204	99	5	4	3	399	353	99
4	21	-4	-184	42	99	4	24	0	470	461	99	4	29	-4	-26	3	99	5	2	-3	107	129	99	5	4	4	190	193	99
4	21	-3	203	220	99	4	24	1	-181	60	99	4	29	-3	117	201	99	5	2	-2	1431	1463	99	5	4	5	812	767	99
4	21	-2	412	411	99	4	24	2	813	805	99	4	29	-2	113	29	99	5	2	-1	118	76	99	5	4	6	-87	60	99
4	21	-1	417	472	99	4	24	3	137	51	99	4	29	-1	-190	28	99	5	2	0	551	554	99	5	4	7	637	625	99
4	21	0	349	345	99	4	24	4	136	96	99	4	29	0	-114	133	99	5	2	1	190	172	99	5	4	8	395	346	99
4	21	1	764	832	99	4	24	5	-158	26	99	4	29	1	300	313	99	5	2	2	1030	1005	99	5	4	9	236	203	99
5	4	10	144	25	99	5	7	-7	781	753	99	5	9	1	507	509	99	5	12	-12	186	228	99	5	14	-1	134	227	99
5	5	-13	10	231	99	5	7	-6	279	240	99	5	9	2	563	530	99	5	12	-11	208	134	99	5	14	0	111	72	99
5	5	-12	-131	3	99	5	7	-5	356	332	99	5	9	3	428	422	99	5	12	-10	-132	13	99	5	14	1	-162	91	99
5	5	-11	420	390	99	5	7	-4	131	156	99	5	9	4	109	66	99	5	12	-9	434	438	99	5	14	2	821	836	99
5	5	-10	333	336	99	5	7	-3	-83	92	99	5	9	5	491	478	99	5	12	-8	142	176	99	5	14	3	229	196	99
5	5	-9	140	139	99	5	7	-2	284	296	99	5	9	6	675	730	99	5	12	-7	283	260	99	5	14	4	790	795	99
5	5	-8	475	486	99	5	7	-1	946	933	99	5	9	7	193	301	99	5	12	-6	281	254	99	5	14	5	167	151	99
5	5	-7	599	613	99	5	7	0	169	156	99	5	9	8	-89	113	99	5	12	-5	1050	1097	99	5	14	6	141	62	99
5	5	-6	87	75	99	5	7	1	333	349	99	5	9	9	354	301	99	5	12	-4	371	359	99	5	14	7	224	204	99
5	5	-5	252	257	99	5	7	2	508	506	99	5	9	10	291	344	99	5	12	-3	493	543	99	5	14	8	406	410	99
5	5	-4	683	659	99	5	7	3	671	680	99	5	10	-12	413	415	99	5	12	-2	-104	212	99	5	14	9	106	65	99
5	5	-3	655	655	99	5	7	4	512	518	99	5	10	-11	132	124	99	5	12	-1	42	81	99	5	15	-11	394	421	99
5	5	-2	415	409	99	5	7	5	665	665	99	5	10	-10	-47	219	99	5	12	0	213	239	99	5	15	-10	-195	88	99
5	5	-1	941	983	99	5	7	6	745	691	99	5	10	-9	73	101	99	5	12	1	917	836	99	5	15	-9	-26	132	99
5	5	0	939	926	99	5	7	7	309	281	99	5	10	-8	775	755	99	5	12	2	223	209	99	5	15	-8	-81	73	99
5	5	1	194	198	99	5	7	8	108	7	99	5	10	-7	497	433	99	5	12	3	425	426	99	5	15	-7	412	395	99
5	5	2	78	74	99	5	7	9	108	168	99	5	10	-6	966	913	99	5	12	4	350	350	99	5	15	-6	-296	138	99
5	5	3	-121	74	99	5	7	10	235	243	99	5	10	-5	200	218	99	5	12	5	473	480	99	5	15	-5	311	282	99
5	5	4	533	536	99	5	8	-13	302	364	99	5	10	-4	104	86	99	5	12	6	127	74	99	5	15	-4	502	485	99
5	5	5	252	206	99	5	8	-12	155	33	99	5	10	-3	165	115	99	5	12	7	322	307	99	5	15	-3	615	614	99
5	5	6	947	931	99	5	8	-11	-72	202	99	5	10	-2	268	274	99	5	12	8	153	141	99	5	15	-2	526	554	99
5	5	7	537	549	99	5	8	-10	130	10	99	5	10	-1	80	14	99	5	12	9	265	278	99	5	15	-1	557	563	99
5	5	8	-182	40	99	5	8	-9	838	826	99	5	10	0	132	191	99	5	13	-12	153	171	99	5	15	0	895	892	99
5	5	9	228	243	99	5	8	-8	472	438	99	5	10	1	-113	9	99	5	13	-11	249	213	99	5	15	1	362	350	99
5	5	10	-192	92	99	5	8	-7	166	85	99	5	10	2	721	741	99	5	13	-10	296	370	99	5	15	2	-88	46	99
5	6	-13	-66	59	99	5	8	-6	-178	8	99	5	10	3	616	638	99	5	13	-9	145	138	99	5	15	3	686	717	99
5	6	-12	388	409	99	5	8	-5	849	835	99	5	10	4	1056	1010	99	5	13	-8	-70	126	99	5	15	4	-153	40	99
5	6	-11	-113	21	99	5	8	-4	470	468	99	5	10	5	84	69	99	5	13	-7	481	452	99	5	15	5	245	229	99
5	6	-10	341	351	99	5	8	-3	551	586	99	5	10	6	112	31	99	5	13	-6	435	411	99	5	15	6	93	175	99
5	6	-9	-34	38	99	5	8	-2	225	215	99	5	10	7	72	7	99	5	13	-5	704	664	99	5	15	7	368	363	99
5	6	-8	585	598	99	5	8	-1	679	700	99	5	10	8	498	472	99	5	13	-4	1082	1085	99	5	15	8	117	122	99
5	6	-7	84	93	99	5	8	0	561	545	99	5	10	9	258	162	99	5	13	-3	-117	83	99	5	15	9	229	270	99
5	6	-6	686	693	99	5	8	1	913	882	99	5	10	10	-190	97	99	5	13	-2	122	169	99	5	16	-11	-237	34	99
5	6	-5	-159	30	99	5	8	2	798	792	99	5	11	-12	-175	114	99	5	13	-1	344	335	99	5	16	-10	10	171	99
5	6	-4	428	360	99	5	8	3	79	64	99	5	11	-11	428	424	99	5	13	0	320	355	99	5	16	-9	518	473	99
5	6	-3	443	417	99	5	8	4	-195	22	99	5	11	-10	348	333	99	5	13	1	595	628	99	5	16	-8	73	68	99
5	6	-2	1585	1609	99	5	8	5	878	834	99	5	11	-9	29	174	99	5	13	2	653	648	99	5	16	-7	-159	65	99
5	6	-1	-234	19	99	5	8	6	351	366	99	5	11	-8	-307	68	99	5	13	3	1004	977	99	5	16	-6	131	43	99
5	6	0	422	403	99	5	8	7	592	582	99	5	11	-7	819	783	99	5	13	4	381	378	99	5	16	-5	478	527	99
5	6	1	54	181	99	5	8	8	-62	84	99	5	11	-6	-64	158	99	5	13	5	-119	38	99	5	16	-4	-134	171	99
5	6	2	-87	68	99	5	8	9	333	307	99	5	11	-5	539	554	99	5	13	6	365	349	99	5	16	-3	850	852	99
5	6	3	397	361	99	5	8	10	83	86	99	5	11	-4	913	948	99	5	13	7	-156	24	99	5	16	-2	672	694	99
5	6	4	775	736	99	5	9	-12	242	154	99	5	11	-3	40	45	99	5	13	8	-323	64	99	5	16	-1	380	448	99
5	6	5	114	27	99	5	9	-11	347	313	99	5	11	-2	145	174	99	5	13	9	193	102	99	5	16	0	331	293	99
5	6	6	-45	37	99	5	9	-10	309	302	99	5	11	-1	168	126	99	5	14	-12	239	331	99	5	16	1	666	658	99
5	6	7	271	232	99	5	9	-9	249	155	99	5	11	0	281	261	99	5	14	-11	146	205	99	5	16	2	438	416	99
5	6	8	635	641	99	5	9	-8	335	266	99	5	11	1	612	563	99	5	14	-10	47	183	99	5	16	3	99	220	99
5	6	9	159	116	99	5	9	-7	401	386	99	5	11	2	525	540	99	5	14	-9	-173	190	99	5	16	4	139	84	99
5	6	10	34	38	99	5	9	-6	844	819	99	5	11	3	1117	1088	99	5	14	-8	526	514	99	5	16	5	469	460	99
5	7	-13	143	205	99	5	9	-5	61	99	99	5	11	4	382	361	99	5	14	-7	122	172	99	5	16	6	61	140	99
5	7	-12	103	36	99	5	9	-4	791	770	99	5	11	5	505	450	99	5	14	-6	779	788	99	5	16	7	191	283	99
5	7	-11	215	192	99	5	9	-3	503	528	99	5	11	6	207	124	99	5	14	-5	-122	175	99	5	16	8	-116	173	99
5	7	-10	616	585	99	5	9	-2	747	766	99	5	11	7	292	251	99	5	14	-4	315	299	99	5	17	-11	-261	12	99
5	7	-9	252	249	99	5	9	-1	644	668	99	5	11	8	-129	138	99	5	14	-3	328	370	99	5	17	-10	413	426	99
5	7	-8	630	603	99	5	9	0	830	833	99	5	11	9	309	320	99	5	14	-2	775	792	99	5	17	-9	182	31	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	17	-8	431	395	99	5	20	-9	314	321	99	5	23	-3	309	328	99	5	28	-3	176	152	99	6	2	3	1172	1179	99
5	17	-7	405	361	99	5	20	-8	57	85	99	5	23	-2	105	147	99	5	28	-2	193	191	99	6	2	4	466	486	99
5	17	-6	121	18	99	5	20	-7	316	289	99	5	23	-1	407	411	99	5	28	-1	243	226	99	6	2	5	187	209	99
5	17	-5	157	340	99	5	20	-6	-92	39	99	5	23	0	50	66	99	5	28	0	-165	98	99	6	2	6	173	181	99
5	17	-4	558	581	99	5	20	-5	441	395	99	5	23	1	-80	138	99	5	28	1	254	212	99	6	2	7	435	395	99
5	17	-3	-47	9	99	5	20	-4	-133	39	99	5	23	2	142	171	99	6	0	-12	159	196	99	6	2	8	80	99	99
5	17	-2	235	141	99	5	20	-3	528	514	99	5	23	3	412	420	99	6	0	-10	397	373	99	6	2	9	349	338	99
5	17	-1	600	601	99	5	20	-2	336	364	99	5	23	4	-206	29	99	6	0	-8	112	82	99	6	3	-13	138	216	99
5	17	0	822	781	99	5	20	-1	168	241	99	5	23	5	183	11	99	6	0	-6	377	381	99	6	3	-12	409	443	99
5	17	1	457	433	99	5	20	0	189	173	99	5	23	6	143	114	99	6	0	-4	1873	1815	99	6	3	-11	-102	22	99
5	17	2	360	319	99	5	20	1	551	564	99	5	24	-8	166	47	99	6	0	-2	388	362	99	6	3	-10	178	78	99
5	17	3	203	221	99	5	20	2	375	344	99	5	24	-7	140	21	99	6	0	0	491	469	99	6	3	-9	87	199	99
5	17	4	307	348	99	5	20	3	17	79	99	5	24	-6	196	167	99	6	0	2	983	1017	99	6	3	-8	124	95	99
5	17	5	284	289	99	5	20	4	-190	28	99	5	24	-5	409	426	99	6	0	4	877	858	99	6	3	-7	133	201	99
5	17	6	505	556	99	5	20	5	371	367	99	5	24	-4	29	34	99	6	0	6	549	557	99	6	3	-6	480	503	99
5	17	7	-211	151	99	5	20	6	118	47	99	5	24	-3	238	275	99	6	0	8	85	145	99	6	3	-5	750	718	99
5	17	8	162	74	99	5	20	7	303	301	99	5	24	-2	252	258	99	6	1	-13	326	303	99	6	3	-4	67	57	99
5	18	-10	-174	152	99	5	21	-9	175	35	99	5	24	-1	174	231	99	6	1	-12	435	440	99	6	3	-3	992	1030	99
5	18	-9	-43	307	99	5	21	-8	292	309	99	5	24	0	142	30	99	6	1	-11	265	238	99	6	3	-2	742	765	99
5	18	-8	125	176	99	5	21	-7	131	94	99	5	24	1	445	462	99	6	1	-10	228	185	99	6	3	-1	189	162	99
5	18	-7	81	94	99	5	21	-6	140	116	99	5	24	2	116	119	99	6	1	-9	340	324	99	6	3	0	1028	1067	99
5	18	-6	451	490	99	5	21	-5	-67	87	99	5	24	3	-37	210	99	6	1	-8	-68	46	99	6	3	1	351	381	99
5	18	-5	-135	62	99	5	21	-4	469	489	99	5	24	4	-89	107	99	6	1	-7	17	15	99	6	3	2	733	732	99
5	18	-4	189	202	99	5	21	-3	283	313	99	5	24	5	271	279	99	6	1	-6	524	497	99	6	3	3	53	17	99
5	18	-3	139	42	99	5	21	-2	213	118	99	5	25	-7	-141	92	99	6	1	-5	737	758	99	6	3	4	269	275	99
5	18	-2	1052	1120	99	5	21	-1	339	352	99	5	25	-6	112	100	99	6	1	-4	-163	112	99	6	3	5	285	254	99
5	18	-1	106	148	99	5	21	0	771	782	99	5	25	-5	-167	34	99	6	1	-3	534	548	99	6	3	6	-14	54	99
5	18	0	256	275	99	5	21	1	-127	162	99	5	25	-4	440	436	99	6	1	-2	293	302	99	6	3	7	416	453	99
5	18	1	148	132	99	5	21	2	314	315	99	5	25	-3	41	155	99	6	1	-1	222	209	99	6	3	8	334	326	99
5	18	2	419	443	99	5	21	3	274	266	99	5	25	-2	141	30	99	6	1	0	250	243	99	6	3	9	50	53	99
5	18	3	225	177	99	5	21	4	170	101	99	5	25	-1	-77	86	99	6	1	1	969	996	99	6	4	-13	64	89	99
5	18	4	193	282	99	5	21	5	-24	31	99	5	25	0	400	404	99	6	1	2	635	635	99	6	4	-12	-119	150	99
5	18	5	-179	158	99	5	21	6	-62	230	99	5	25	1	-236	105	99	6	1	3	114	85	99	6	4	-11	93	99	99
5	18	6	-78	126	99	5	21	7	-137	27	99	5	25	2	435	402	99	6	1	4	677	659	99	6	4	-10	390	367	99
5	18	7	-82	151	99	5	22	-9	132	74	99	5	25	3	165	115	99	6	1	5	712	731	99	6	4	-9	278	302	99
5	18	8	164	250	99	5	22	-8	235	250	99	5	25	4	-31	134	99	6	1	6	-119	162	99	6	4	-8	650	657	99
5	19	-10	-49	117	99	5	22	-7	126	4	99	5	26	-6	265	305	99	6	1	7	104	109	99	6	4	-7	-116	116	99
5	19	-9	-37	95	99	5	22	-6	347	358	99	5	26	-5	177	156	99	6	1	8	365	329	99	6	4	-6	440	460	99
5	19	-8	246	258	99	5	22	-5	-254	109	99	5	26	-4	152	111	99	6	1	9	130	136	99	6	4	-5	119	90	99
5	19	-7	441	421	99	5	22	-4	125	145	99	5	26	-3	54	63	99	6	2	-13	306	331	99	6	4	-4	570	600	99
5	19	-6	-192	7	99	5	22	-3	291	342	99	5	26	-2	345	323	99	6	2	-12	169	131	99	6	4	-3	156	190	99
5	19	-5	102	60	99	5	22	-2	536	558	99	5	26	-1	-104	97	99	6	2	-11	597	631	99	6	4	-2	557	560	99
5	19	-4	-149	256	99	5	22	-1	223	168	99	5	26	0	14	210	99	6	2	-10	-255	102	99	6	4	-1	61	8	99
5	19	-3	393	462	99	5	22	0	234	300	99	5	26	1	56	97	99	6	2	-9	-193	41	99	6	4	0	834	822	99
5	19	-2	130	71	99	5	22	1	393	411	99	5	26	2	-137	139	99	6	2	-8	-99	159	99	6	4	1	573	595	99
5	19	-1	1102	1120	99	5	22	2	232	273	99	5	26	3	-190	92	99	6	2	-7	574	568	99	6	4	2	299	355	99
5	19	0	-43	175	99	5	22	3	47	13	99	5	27	-5	197	107	99	6	2	-6	410	416	99	6	4	3	210	232	99
5	19	1	445	437	99	5	22	4	434	410	99	5	27	-4	134	138	99	6	2	-5	483	477	99	6	4	4	531	504	99
5	19	2	243	283	99	5	22	5	-40	54	99	5	27	-3	280	342	99	6	2	-4	230	228	99	6	4	5	-125	194	99
5	19	3	185	172	99	5	22	6	-221	102	99	5	27	-2	-160	74	99	6	2	-3	421	419	99	6	4	6	905	908	99
5	19	4	294	321	99	5	23	-8	56	99	99	5	27	-1	257	321	99	6	2	-2	263	274	99	6	4	7	85	88	99
5	19	5	118	11	99	5	23	-7	272	267	99	5	27	0	189	247	99	6	2	-1	970	964	99	6	4	8	-204	36	99
5	19	6	58	333	99	5	23	-6	-130	40	99	5	27	1	98	135	99	6	2	0	-246	69	99	6	4	9	91	38	99
5	19	7	317	371	99	5	23	-5	208	248	99	5	27	2	152	128	99	6	2	1	329	319	99	6	5	-12	135	217	99
5	20	-10	-145	69	99	5	23	-4	217	276	99	5	28	-4	165	5	99	6	2	2	305	291	99	6	5	-11	321	246	99
6	5	-10	465	537	99	6	7	1	219	206	99	6	10	-10	-79	69	99	6	12	3	149	31	99	6	15	-2	811	777	99
6	5	-9	701	720	99	6	7	2	347	408	99	6	10	-9	82	61	99	6	12	4	185	139	99	6	15	-1	210	167	99
6	5	-8	454	474	99	6	7	3	103	68	99	6	10	-8	-122	11	99	6	12	5	31	40	99	6	15	0	585	605	99
6	5	-7	439	433	99	6	7	4	722	745	99	6	10	-7	924	920	99	6	12	6	139	211	99	6	15	1	798	760	99
6	5	-6	96	271	99	6	7	5	631	586	99	6	10	-6	437	326	99	6	12	7	-231	40	99	6	15	2	455	440	99
6	5	-5	201	173	99	6	7	6	110	222	99	6	10	-5	681	613	99	6	12	8	67	14	99	6	15	3	267	266	99
6	5	-4	206	192	99	6	7	7	392	399	99	6	10	-4	109	75	99	6	13	-11	-19	103	99	6	15	4	307	313	99
6	5	-3	345	362	99	6	7	8	326	297	99	6	10	-3	561	577	99	6	13	-10	121	147	99	6	15	5	163	112	99
6	5	-2	1047	1103	99	6	7	9	198	140	99	6	10	-2	-188	121	99	6	13	-9	364	338	99	6	15	6	124	61	99
6	5	-1	337	354	99	6	8	-12	-156	17	99	6	10	-1	246	244	99	6	13	-8	188	153	99	6	15	7	-73	82	99
6	5	0	-56	93	99	6	8	-11	138	14	99	6	10	0	225	226	99	6	13	-7	475	452	99	6	15	8	183	311	99
6	5	1	902	922	99	6	8	-10	396	406	99	6	10	1	103	91	99	6	13	-6	524	506	99	6	16	-10	112	142	99
6	5	2	121	88	99	6	8	-9	150	127	99	6	10	2	119	161	99	6	13	-5	886	853	99	6	16	-9	56	33	99
6	5	3	143	121	99	6	8	-8	981	992	99	6	10	3	793	803	99	6	13	-4	413	348	99	6	16	-8	447	494	99
6	5	4	446	470	99	6	8	-7	266	195	99	6	10	4	311	351	99	6	13	-3	210	179	99	6	16	-7	160	36	99
6	5	5	656	637	99	6	8	-6	101	128	99	6	10	5	329	387	99	6	13	-2	251	292	99	6	16	-6	146	96	99
6	5	6	-92	81	99	6	8	-5	243	228	99	6	10	6	124	36	99	6	13	-1	256	228	99	6	16	-5	-52	11	99
6	5	7	111	146	99	6	8	-4	874	820	99	6	10	7	242	222	99	6	13	0	-70	212	99	6	16	-4	421	436	99
6	5	8	342	308	99	6	8	-3	470	488	99	6	10	8	-156	128	99	6	13	1	868	854	99	6	16	-3	583	567	99
6	5	9	120	100	99	6	8	-2	229	188	99	6	10	9	396	400	99	6	13	2	380	342	99	6	16	-2	152	127	99
6	6	-12	151	104	99	6	8	-1	101	5	99	6	11	-12	129	318	99	6	13	3	229	227	99	6	16	-1	79	173	99
6	6	-11	431	417	99	6	8	0	705	703	99	6	11	-11	-46	124	99	6	13	4	521	529	99	6	16	0	749	744	99
6	6	-10	246	209	99	6	8	1	387	371	99	6	11	-10	149	146	99	6	13	5	239	225	99	6	16	1	345	340	99
6	6	-9	85	119	99	6	8	2	350	316	99	6	11	-9	278	258	99	6	13	6	-18	44	99	6	16	2	522	477	99
6	6	-8	-143	58	99	6	8	3	65	190	99	6	11	-8	229	244	99	6	13	7	247	272	99	6	16	3	87	91	99
6	6	-7	973	960	99	6	8	4	204	162	99	6	11	-7	419	378	99	6	13	8	263	190	99	6	16	4	-53	123	99
6	6	-6	-107	111	99	6	8	5	252	231	99	6	11	-6	1334	1259	99	6	14	-11	321	293	99	6	16	5	112	35	99
6	6	-5	188	199	99	6	8	6	691	648	99	6	11	-5	663	661	99	6	14	-10	80	134	99	6	16	6	420	455	99
6	6	-4	225	223	99	6	8	7	206	152	99	6	11	-4	106	146	99	6	14	-9	66	55	99	6	16	7	-111	8	99
6	6	-3	1108	1105	99	6	8	8	255	238	99	6	11	-3	105	91	99	6	14	-8	285	262	99	6	17	-10	141	125	99
6	6	-2	83	36	99	6	8	9	130	16	99	6	11	-2	469	457	99	6	14	-7	658	713	99	6	17	-9	425	439	99
6	6	-1	1121	1141	99	6	9	-12	218	188	99	6	11	-1	109	121	99	6	14	-6	118	96	99	6	17	-8	235	224	99
6	6	0	415	412	99	6	9	-11	-96	25	99	6	11	0	307	269	99	6	14	-5	458	442	99	6	17	-7	170	80	99
6	6	1	102	48	99	6	9	-10	110	36	99	6	11	1	714	659	99	6	14	-4	447	412	99	6	17	-6	185	161	99
6	6	2	272	241	99	6	9	-9	600	552	99	6	11	2	554	494	99	6	14	-3	216	216	99	6	17	-5	220	264	99
6	6	3	416	395	99	6	9	-8	-341	16	99	6	11	3	89	62	99	6	14	-2	213	183	99	6	17	-4	212	238	99
6	6	4	191	144	99	6	9	-7	139	175	99	6	11	4	512	503	99	6	14	-1	344	324	99	6	17	-3	296	161	99
6	6	5	442	421	99	6	9	-6	558	537	99	6	11	5	253	159	99	6	14	0	252	217	99	6	17	-2	244	276	99
6	6	6	-94	1	99	6	9	-5	531	522	99	6	11	6	168	152	99	6	14	1	118	167	99	6	17	-1	-156	77	99
6	6	7	462	414	99	6	9	-4	440	418	99	6	11	7	204	222	99	6	14	2	70	43	99	6	17	0	255	319	99
6	6	8	218	165	99	6	9	-3	493	523	99	6	11	8	287	337	99	6	14	3	671	679	99	6	17	1	494	513	99
6	6	9	333	362	99	6	9	-2	584	578	99	6	12	-11	-135	75	99	6	14	4	-182	133	99	6	17	2	309	329	99
6	7	-12	157	87	99	6	9	-1	950	955	99	6	12	-10	426	423	99	6	14	5	329	316	99	6	17	3	118	130	99
6	7	-11	-144	5	99	6	9	0	594	556	99	6	12	-9	73	27	99	6	14	6	124	89	99	6	17	4	435	408	99
6	7	-10	331	330	99	6	9	1	659	637	99	6	12	-8	220	254	99	6	14	7	166	291	99	6	17	5	658	622	99
6	7	-9	562	582	99	6	9	2	392	369	99	6	12	-7	247	210	99	6	14	8	318	331	99	6	17	6	130	230	99
6	7	-8	620	603	99	6	9	3	390	430	99	6	12	-6	-186	68	99	6	15	-11	-152	50	99	6	17	7	193	250	99
6	7	-7	398	340	99	6	9	4	70	88	99	6	12	-5	204	5	99	6	15	-10	149	102	99	6	18	-10	172	53	99
6	7	-6	538	547	99	6	9	5	165	52	99	6	12	-4	1051	1042	99	6	15	-9	225	252	99	6	18	-9	-159	87	99
6	7	-5	445	410	99	6	9	6	-132	31	99	6	12	-3	292	337	99	6	15	-8	253	300	99	6	18	-8	74	77	99
6	7	-4	-157	104	99	6	9	7	-157	160	99	6	12	-2	254	247	99	6	15	-7	205	41	99	6	18	-7	398	441	99
6	7	-3	338	333	99	6	9	8	-166	296	99	6	12	-1	59	128	99	6	15	-6	435	374	99	6	18	-6	140	99	99
6	7	-2	884	882	99	6	9	9	147	191	99	6	12	0	533	581	99	6	15	-5	97	49	99	6	18	-5	145	201	99
6	7	-1	81	52	99	6	10	-12	134	30	99	6	12	1	248	201	99	6	15	-4	93	20	99	6	18	-4	303	294	99
6	7	0	144	202	99	6	10	-11	310	347	99	6	12	2	1076	1111	99	6	15	-3	521	521	99	6	18	-3	267	235	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	18	-2	342	325	99	6	21	5	439	462	99	7	0	-11	-224	72	99	7	3	-9	216	255	99	7	5	4	207	245	99						
6	18	-1	910	935	99	6	22	-8	-133	79	99	7	0	-9	267	296	99	7	3	-8	132	100	99	7	5	5	216	141	99						
6	18	0	104	125	99	6	22	-7	329	385	99	7	0	-7	216	243	99	7	3	-7	527	473	99	7	5	6	514	532	99						
6	18	1	191	208	99	6	22	-6	286	261	99	7	0	-5	1016	981	99	7	3	-6	157	198	99	7	5	7	-125	23	99						
6	18	2	-147	24	99	6	22	-5	36	182	99	7	0	-3	540	541	99	7	3	-5	219	157	99	7	5	8	174	82	99						
6	18	3	487	503	99	6	22	-4	255	238	99	7	0	-1	327	354	99	7	3	-4	668	673	99	7	6	-12	275	277	99						
6	18	4	-166	202	99	6	22	-3	277	303	99	7	0	1	797	802	99	7	3	-3	298	385	99	7	6	-11	-219	159	99						
6	18	5	257	239	99	6	22	-2	105	146	99	7	0	3	445	419	99	7	3	-2	499	453	99	7	6	-10	327	360	99						
6	18	6	329	290	99	6	22	-1	327	317	99	7	0	5	523	487	99	7	3	-1	581	558	99	7	6	-9	322	280	99						
6	18	7	423	388	99	6	22	0	129	113	99	7	0	7	372	371	99	7	3	0	574	549	99	7	6	-8	470	494	99						
6	19	-9	311	308	99	6	22	1	149	24	99	7	1	-12	217	118	99	7	3	1	346	395	99	7	6	-7	187	208	99						
6	19	-8	259	232	99	6	22	2	201	172	99	7	1	-11	406	374	99	7	3	2	267	163	99	7	6	-6	371	327	99						
6	19	-7	-66	189	99	6	22	3	445	461	99	7	1	-10	212	113	99	7	3	3	545	513	99	7	6	-5	211	181	99						
6	19	-6	301	257	99	6	22	4	239	128	99	7	1	-9	146	56	99	7	3	4	129	63	99	7	6	-4	309	294	99						
6	19	-5	-156	38	99	6	22	5	165	55	99	7	1	-8	316	325	99	7	3	5	264	145	99	7	6	-3	451	492	99						
6	19	-4	-243	2	99	6	23	-7	-144	106	99	7	1	-7	683	591	99	7	3	6	339	371	99	7	6	-2	1294	1393	99						
6	19	-3	154	98	99	6	23	-6	233	278	99	7	1	-6	313	421	99	7	3	7	346	316	99	7	6	-1	210	254	99						
6	19	-2	704	713	99	6	23	-5	300	325	99	7	1	-5	920	897	99	7	3	8	126	37	99	7	6	0	396	377	99						
6	19	-1	74	181	99	6	23	-4	-194	51	99	7	1	-4	404	397	99	7	4	-12	203	147	99	7	6	1	100	182	99						
6	19	0	427	415	99	6	23	-3	98	149	99	7	1	-3	235	189	99	7	4	-11	-93	28	99	7	6	2	117	56	99						
6	19	1	204	233	99	6	23	-2	261	274	99	7	1	-2	456	476	99	7	4	-10	-245	105	99	7	6	3	374	314	99						
6	19	2	256	201	99	6	23	-1	131	42	99	7	1	-1	-43	124	99	7	4	-9	738	801	99	7	6	4	554	632	99						
6	19	3	80	20	99	6	23	0	307	264	99	7	1	0	185	257	99	7	4	-8	44	77	99	7	6	5	255	124	99						
6	19	4	420	434	99	6	23	1	-81	144	99	7	1	1	205	188	99	7	4	-7	287	276	99	7	6	6	217	67	99						
6	19	5	247	309	99	6	23	2	345	321	99	7	1	2	639	642	99	7	4	-6	115	35	99	7	6	7	229	78	99						
6	19	6	10	155	99	6	23	3	-66	12	99	7	1	3	796	773	99	7	4	-5	566	602	99	7	6	8	307	341	99						
6	20	-9	112	44	99	6	23	4	410	422	99	7	1	4	159	206	99	7	4	-4	694	697	99	7	7	-12	211	69	99						
6	20	-8	274	317	99	6	24	-7	152	137	99	7	1	5	473	447	99	7	4	-3	840	844	99	7	7	-11	452	325	99						
6	20	-7	108	60	99	6	24	-6	301	279	99	7	1	6	363	448	99	7	4	-2	-47	135	99	7	7	-10	299	253	99						
6	20	-6	178	133	99	6	24	-5	46	29	99	7	1	7	-171	98	99	7	4	-1	318	282	99	7	7	-9	290	198	99						
6	20	-5	-155	26	99	6	24	-4	704	724	99	7	1	8	-206	126	99	7	4	0	680	708	99	7	7	-8	384	354	99						
6	20	-4	377	330	99	6	24	-3	111	33	99	7	2	-12	438	464	99	7	4	1	699	684	99	7	7	-7	367	420	99						
6	20	-3	-136	90	99	6	24	-2	60	36	99	7	2	-11	267	274	99	7	4	2	58	157	99	7	7	-6	233	173	99						
6	20	-2	284	296	99	6	24	-1	312	277	99	7	2	-10	243	254	99	7	4	3	291	242	99	7	7	-5	322	249	99						
6	20	-1	228	203	99	6	24	0	137	155	99	7	2	-9	146	112	99	7	4	4	274	133	99	7	7	-4	635	668	99						
6	20	0	373	414	99	6	24	1	113	4	99	7	2	-8	483	482	99	7	4	5	573	533	99	7	7	-3	446	426	99						
6	20	1	74	183	99	6	24	2	307	281	99	7	2	-7	334	362	99	7	4	6	-57	95	99	7	7	-2	-50	66	99						
6	20	2	430	406	99	6	24	3	220	237	99	7	2	-6	890	911	99	7	4	7	362	391	99	7	7	-1	1203	1207	99						
6	20	3	159	188	99	6	25	-6	118	245	99	7	2	-5	256	298	99	7	4	8	203	294	99	7	7	0	556	545	99						
6	20	4	331	338	99	6	25	-5	517	550	99	7	2	-4	187	38	99	7	5	-12	221	91	99	7	7	1	-136	17	99						
6	20	5	-35	115	99	6	25	-4	104	45	99	7	2	-3	-38	19	99	7	5	-11	89	75	99	7	7	2	-59	81	99						
6	20	6	432	478	99	6	25	-3	146	167	99	7	2	-2	243	209	99	7	5	-10	598	617	99	7	7	3	242	207	99						
6	21	-8	-271	101	99	6	25	-2	157	130	99	7	2	-1	117	66	99	7	5	-9	173	90	99	7	7	4	283	275	99						
6	21	-7	173	131	99	6	25	-1	108	28	99	7	2	0	371	333	99	7	5	-8	470	383	99	7	7	5	-107	102	99						
6	21	-6	299	324	99	6	25	0	-61	66	99	7	2	1	179	138	99	7	5	-7	399	467	99	7	7	6	245	253	99						
6	21	-5	380	385	99	6	25	1	323	348	99	7	2	2	863	886	99	7	5	-6	321	256	99	7	7	7	409	321	99						
6	21	-4	87	205	99	6	25	2	-234	78	99	7	2	3	44	88	99	7	5	-5	370	358	99	7	7	8	-163	127	99						
6	21	-3	698	696	99	6	26	-4	-172	43	99	7	2	4	767	788	99	7	5	-4	512	446	99	7	8	-11	148	144	99						
6	21	-2	197	253	99	6	26	-3	326	294	99	7	2	5	183	10	99	7	5	-3	-53	15	99	7	8	-10	160	201	99						
6	21	-1	174	38	99	6	26	-2	105	79	99	7	2	6	250	182	99	7	5	-2	-53	54	99	7	8	-9	672	657	99						
6	21	0	271	241	99	6	26	-1	-210	245	99	7	2	7	304	182	99	7	5	-1	564	560	99	7	8	-8	130	173	99						
6	21	1	402	444	99	6	26	0	82	91	99	7	2	8	431	395	99	7	5	0	544	575	99	7	8	-7	322	289	99						
6	21	2	121	98	99	6	26	1	131	56	99	7	3	-12	226	239	99	7	5	1	294	348	99	7	8	-6	139	264	99						
6	21	3	69	56	99	6	27	-2	386	425	99	7	3	-11	448	406	99	7	5	2	406	374	99	7	8	-5	247	281	99						
6	21	4	151	13	99	6	27	-1	-132	35	99	7	3	-10	199	42	99	7	5	3	361	381	99	7	8	-4	85	309	99						
7	8	-3	667	586	99	7	11	-7	298	237	99	7	14	-7	88	230	99	7	17	-3	315	223	99	7	21	-4	325	348	99						
7	8	-2	274	195	99	7	11	-6	-96	50	99	7	14	-6	361	378	99	7	17	-2	217	190	99	7	21	-3	-171	145	99						
7	8	-1	593	564	99	7	11	-5	479	501	99	7	14	-5	-117	105	99	7	17	-1	551	491	99	7	21	-2	276	202	99						
7	8	0	-21	43	99	7	11	-4	378	377	99	7	14	-4	-83	68	99	7	17	0	345	335	99	7	21	-1	197	265	99						
7	8	1	591	594	99	7	11	-3	653	569	99	7	14	-3	161	60	99	7	17	1	195	97	99	7	21	0	199	177	99						
7	8	2	-167	96	99	7	11	-2	171	207	99	7	14	-2	620	615	99	7	17	2	402	337	99	7	21	1	84	68	99						
7	8	3	159	120	99	7	11	-1	315	335	99	7	14	-1	122	115	99	7	17	3	124	143	99	7	21	2	315	336	99						
7	8	4	187	158	99	7	11	0	460	417	99	7	14	0	587	567	99	7	17	4	262	149	99	7	21	3	122	113	99						
7	8	5	377	428	99	7	11	1	148	67	99	7	14	1	156	121	99	7	17	5	169	20	99	7	21	4	206	118	99						
7	8	6	184	133	99	7	11	2	433	451	99	7	14	2	352	326	99	7	17	6	369	407	99	7	22	-7	313	303	99						
7	8	7	312	292	99	7	11	3	417	418	99	7	14	3	146	217	99	7	18	-9	224	86	99	7	22	-6	571	545	99						
7	8	8	-142	49	99	7	11	4	294	159	99	7	14	4	335	388	99	7	18	-8	474	446	99	7	22	-5	337	197	99						
7	9	-11	159	170	99	7	11	5	100	58	99	7	14	5	-161	11	99	7	18	-7	-243	33	99	7	22	-4	-54	108	99						
7	9	-10	220	242	99	7	11	6	136	145	99	7	14	6	-177	8	99	7	18	-6	113	134	99	7	22	-3	230	158	99						
7	9	-9	284	92	99	7	11	7	-169	113	99	7	14	7	256	214	99	7	18	-5	202	248	99	7	22	-2	306	194	99						
7	9	-8	515	523	99	7	12	-11	171	109	99	7	15	-10	331	267	99	7	18	-4	182	36	99	7	22	-1	199	49	99						
7	9	-7	193	239	99	7	12	-10	168	53	99	7	15	-9	-196	59	99	7	18	-3	-166	135	99	7	22	0	130	235	99						
7	9	-6	385	347	99	7	12	-9	195	292	99	7	15	-8	190	134	99	7	18	-2	635	637	99	7	22	1	238	19	99						
7	9	-5	560	536	99	7	12	-8	-162	4	99	7	15	-7	434	500	99	7	18	-1	-241	23	99	7	22	2	255	339	99						
7	9	-4	556	545	99	7	12	-7	375	344	99	7	15	-6	179	183	99	7	18	0	249	318	99	7	22	3	284	296	99						
7	9	-3	465	470	99	7	12	-6	117	287	99	7	15	-5	89	177	99	7	18	1	-143	161	99	7	23	-6	252	1	99						
7	9	-2	140	266	99	7	12	-5	602	657	99	7	15	-4	-94	121	99	7	18	2	100	58	99	7	23	-5	328	355	99						
7	9	-1	764	779	99	7	12	-4	166	9	99	7	15	-3	424	359	99	7	18	3	-94	102	99	7	23	-4	145	276	99						
7	9	0	812	788	99	7	12	-3	492	499	99	7	15	-2	172	60	99	7	18	4	477	524	99	7	23	-3	-135	123	99						
7	9	1	200	48	99	7	12	-2	171	139	99	7	15	-1	734	782	99	7	18	5	-63	67	99	7	23	-2	219	23	99						
7	9	2	446	423	99	7	12	-1	173	50	99	7	15	0	212	279	99	7	19	-8	325	341	99	7	23	-1	-221	137	99						
7	9	3	229	286	99	7	12	0	82	116	99	7	15	1	-149	100	99	7	19	-7	476	428	99	7	23	0	242	209	99						
7	9	4	182	116	99	7	12	1	1079	1036	99	7	15	2	395	334	99	7	19	-6	250	192	99	7	23	1	170	157	99						
7	9	5	-36	16	99	7	12	2	183	132	99	7	15	3	211	353	99	7	19	-5	314	185	99	7	23	2	95	41	99						
7	9	6	-96	219	99	7	12	3	-149	73	99	7	15	4	135	85	99	7	19	-4	156	75	99	7	24	-5	451	469	99						
7	9	7	287	35	99	7	12	4	-138	15	99	7	15	5	241	108	99	7	19	-3	107	61	99	7	24	-4	-186	122	99						
7	9	8	-137	37	99	7	12	5	307	188	99	7	15	6	64	272	99	7	19	-2	36	34	99	7	24	-3	60	339	99						
7	10	-11	231	86	99	7	12	6	-31	76	99	7	16	-10	-170	161	99	7	19	-1	374	359	99	7	24	-2	104	43	99						
7	10	-10	360	292	99	7	12	7	363	287	99	7	16	-9	607	604	99	7	19	0	209	192	99	7	24	-1	-321	20	99						
7	10	-9	-204	47	99	7	13	-10	191	234	99	7	16	-8	206	57	99	7	19	1	-175	8	99	7	24	0	176	20	99						
7	10	-8	89	114	99	7	13	-9	116	65	99	7	16	-7	162	65	99	7	19	2	159	256	99	7	24	1	423	423	99						
7	10	-7	205	14	99	7	13	-8	412	341	99	7	16	-6	356	369	99	7	19	3	452	389	99	7	25	-2	321	258	99						
7	10	-6	714	669	99	7	13	-7	394	349	99	7	16	-5	258	178	99	7	19	4	244	100	99	7	25	-1	63	23	99						
7	10	-5	-121	113	99	7	13	-6	145	66	99	7	16	-4	238	140	99	7	19	5	462	391	99	8	0	-10	255	275	99						
7	10	-4	143	115	99	7	13	-5	55	64	99	7	16	-3	292	215	99	7	20	-8	477	320	99	8	0	-8	415	426	99						
7	10	-3	469	459	99	7	13	-4	672	683	99	7	16	-2	218	198	99	7	20	-7	124	149	99	8	0	-6	-99	193	99						
7	10	-2	773	705	99	7	13	-3	58	35	99	7	16	-1	-200	22	99	7	20	-6	99	46	99	8	0	-4	687	689	99						
7	10	-1	494	459	99	7	13	-2	190	174	99	7	16	0	293	17	99	7	20	-5	175	288	99	8	0	-2	225	176	99						
7	10	0	642	616	99	7	13	-1	138	149	99	7	16	1	497	446	99	7	20	-4	254	291	99	8	0	0	665	668	99						
7	10	1	101	91	99	7	13	0	733	686	99	7	16	2	-123	161	99	7	20	-3	423	404	99	8	0	2	430	449	99						
7	10	2	484	487	99	7	13	1	-94	208	99	7	16	3	390	372	99	7	20	-2	207	17	99	8	0	4	290	232	99						
7	10	3	369	148	99	7	13	2	294	265	99	7	16	4	-56	32	99	7	20	-1	-296	179	99	8	0	6	365	356	99						
7	10	4	382	259	99	7	13	3	291	308	99	7	16	5	514	406	99	7	20	0	-84	88	99	8	1	-11	-86	66	99						
7	10	5	172	109	99	7	13	4	139	142	99	7	16	6	204	152	99	7	20	1	344	348	99	8	1	-10	214	203	99						
7	10	6	150	2	99	7	13	5	197	199	99	7	17	-9	-141	9	99	7	20	2	75	149	99	8	1	-9	326	357	99						
7	10	7	124	155	99	7	13	6	200	141	99	7	17	-8	451	284	99	7	20	3	217	153	99	8	1	-8	330	333	99						
7	11	-11	347	390	99	7	13	7	194	284	99	7	17	-7	175	97	99	7	20	4	397	361	99	8	1	-7	359	334	99						
7	11	-10	149	152	99	7	14	-10	271	299	99	7	17	-6	194	130	99	7	21	-7	191	204	99	8	1	-6	605	583	99						
7	11	-9	224	114	99	7	14	-9	139	70	99	7	17	-5	-220	97	99	7	21	-6	388	392	99	8	1	-5	764	776	99						
7	11	-8	172	203	99	7	14	-8	61	168	99	7	17	-4	378	431	99	7	21	-5	167	47	99	8	1	-4	190	95	99						

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
8	1	-3	130	59	99	8	4	-5	160	157	99	8	7	-7	555	558	99	8	10	-4	373	341	99	8	13	2	-184	96	99
8	1	-2	57	123	99	8	4	-4	456	475	99	8	7	-6	344	370	99	8	10	-3	299	277	99	8	13	3	132	96	99
8	1	-1	-65	59	99	8	4	-3	446	428	99	8	7	-5	-31	50	99	8	10	-2	146	142	99	8	13	4	331	220	99
8	1	0	-244	59	99	8	4	-2	94	50	99	8	7	-4	271	266	99	8	10	-1	865	779	99	8	13	5	91	165	99
8	1	1	438	386	99	8	4	-1	-265	14	99	8	7	-3	402	444	99	8	10	0	272	76	99	8	14	-9	270	235	99
8	1	2	406	427	99	8	4	0	371	406	99	8	7	-2	692	634	99	8	10	1	78	50	99	8	14	-8	190	222	99
8	1	3	333	307	99	8	4	1	446	439	99	8	7	-1	253	240	99	8	10	2	116	64	99	8	14	-7	436	381	99
8	1	4	508	498	99	8	4	2	792	725	99	8	7	0	-190	181	99	8	10	3	684	562	99	8	14	-6	-238	133	99
8	1	5	-114	122	99	8	4	3	188	161	99	8	7	1	640	615	99	8	10	4	254	179	99	8	14	-5	-62	131	99
8	1	6	204	229	99	8	4	4	176	70	99	8	7	2	-67	16	99	8	10	5	34	140	99	8	14	-4	93	135	99
8	1	7	142	267	99	8	4	5	230	58	99	8	7	3	201	151	99	8	10	6	-104	34	99	8	14	-3	369	179	99
8	2	-11	411	425	99	8	4	6	443	440	99	8	7	4	387	378	99	8	11	-10	236	222	99	8	14	-2	150	214	99
8	2	-10	-180	30	99	8	4	7	199	142	99	8	7	5	271	249	99	8	11	-9	165	67	99	8	14	-1	611	563	99
8	2	-9	65	42	99	8	5	-11	74	60	99	8	7	6	172	103	99	8	11	-8	-169	17	99	8	14	0	-154	280	99
8	2	-8	265	288	99	8	5	-10	-215	83	99	8	8	-11	146	214	99	8	11	-7	-134	183	99	8	14	1	79	14	99
8	2	-7	733	751	99	8	5	-9	416	493	99	8	8	-10	243	265	99	8	11	-6	310	302	99	8	14	2	241	196	99
8	2	-6	268	316	99	8	5	-8	168	205	99	8	8	-9	-53	105	99	8	11	-5	444	505	99	8	14	3	286	344	99
8	2	-5	464	483	99	8	5	-7	304	312	99	8	8	-8	304	352	99	8	11	-4	233	302	99	8	14	4	183	4	99
8	2	-4	216	260	99	8	5	-6	387	403	99	8	8	-7	-118	13	99	8	11	-3	158	81	99	8	14	5	243	337	99
8	2	-3	152	152	99	8	5	-5	308	315	99	8	8	-6	202	148	99	8	11	-2	576	589	99	8	15	-9	189	224	99
8	2	-2	85	105	99	8	5	-4	273	403	99	8	8	-5	-93	27	99	8	11	-1	-51	193	99	8	15	-8	54	51	99
8	2	-1	477	415	99	8	5	-3	602	508	99	8	8	-4	609	637	99	8	11	0	413	410	99	8	15	-7	-115	84	99
8	2	0	-116	23	99	8	5	-2	514	525	99	8	8	-3	71	76	99	8	11	1	407	332	99	8	15	-6	363	424	99
8	2	1	237	69	99	8	5	-1	292	279	99	8	8	-2	580	623	99	8	11	2	365	433	99	8	15	-5	524	423	99
8	2	2	324	269	99	8	5	0	243	269	99	8	8	-1	-209	221	99	8	11	3	122	89	99	8	15	-4	233	157	99
8	2	3	633	549	99	8	5	1	310	314	99	8	8	0	475	549	99	8	11	4	343	341	99	8	15	-3	472	449	99
8	2	4	156	77	99	8	5	2	281	250	99	8	8	1	242	141	99	8	11	5	172	113	99	8	15	-2	280	409	99
8	2	5	453	494	99	8	5	3	214	105	99	8	8	2	603	587	99	8	11	6	-132	31	99	8	15	-1	177	26	99
8	2	6	261	165	99	8	5	4	494	482	99	8	8	3	-60	25	99	8	12	-10	89	80	99	8	15	0	435	360	99
8	2	7	-105	165	99	8	5	5	334	291	99	8	8	4	292	290	99	8	12	-9	137	42	99	8	15	1	-17	111	99
8	3	-11	185	39	99	8	5	6	-267	172	99	8	8	5	100	99	99	8	12	-8	77	148	99	8	15	2	249	234	99
8	3	-10	223	151	99	8	5	7	370	342	99	8	8	6	411	422	99	8	12	-7	-136	124	99	8	15	3	157	134	99
8	3	-9	315	354	99	8	6	-11	200	242	99	8	9	-10	236	46	99	8	12	-6	256	294	99	8	15	4	-275	225	99
8	3	-8	189	27	99	8	6	-10	103	98	99	8	9	-9	175	111	99	8	12	-5	-47	81	99	8	15	5	315	217	99
8	3	-7	-49	36	99	8	6	-9	157	30	99	8	9	-8	212	147	99	8	12	-4	873	846	99	8	16	-8	310	399	99
8	3	-6	631	649	99	8	6	-8	220	85	99	8	9	-7	-177	22	99	8	12	-3	237	152	99	8	16	-7	163	158	99
8	3	-5	-159	17	99	8	6	-7	341	319	99	8	9	-6	284	280	99	8	12	-2	380	379	99	8	16	-6	174	71	99
8	3	-4	-101	19	99	8	6	-6	-187	98	99	8	9	-5	372	377	99	8	12	-1	93	115	99	8	16	-5	-24	41	99
8	3	-3	639	642	99	8	6	-5	527	516	99	8	9	-4	-159	32	99	8	12	0	263	259	99	8	16	-4	516	498	99
8	3	-2	463	491	99	8	6	-4	264	310	99	8	9	-3	907	850	99	8	12	1	17	28	99	8	16	-3	-149	15	99
8	3	-1	258	290	99	8	6	-3	548	615	99	8	9	-2	527	507	99	8	12	2	334	237	99	8	16	-2	267	213	99
8	3	0	477	486	99	8	6	-2	-139	52	99	8	9	-1	-115	142	99	8	12	3	298	282	99	8	16	-1	204	275	99
8	3	1	401	567	99	8	6	-1	561	591	99	8	9	0	406	394	99	8	12	4	96	186	99	8	16	0	199	194	99
8	3	2	253	192	99	8	6	0	150	189	99	8	9	1	249	212	99	8	12	5	-282	64	99	8	16	1	124	10	99
8	3	3	347	334	99	8	6	1	225	255	99	8	9	2	284	266	99	8	13	-9	263	178	99	8	16	2	374	386	99
8	3	4	287	256	99	8	6	2	136	127	99	8	9	3	160	100	99	8	13	-8	-265	57	99	8	16	3	261	109	99
8	3	5	309	197	99	8	6	3	436	434	99	8	9	4	165	122	99	8	13	-7	332	234	99	8	16	4	30	94	99
8	3	6	-173	151	99	8	6	4	151	37	99	8	9	5	617	527	99	8	13	-6	306	333	99	8	17	-8	199	52	99
8	3	7	194	23	99	8	6	5	186	162	99	8	9	6	211	104	99	8	13	-5	427	497	99	8	17	-7	344	274	99
8	4	-11	-139	16	99	8	6	6	284	223	99	8	10	-10	175	35	99	8	13	-4	140	1	99	8	17	-6	189	102	99
8	4	-10	402	450	99	8	6	7	250	309	99	8	10	-9	179	184	99	8	13	-3	405	429	99	8	17	-5	143	196	99
8	4	-9	128	117	99	8	7	-11	298	163	99	8	10	-8	251	217	99	8	13	-2	266	267	99	8	17	-4	-30	193	99
8	4	-8	621	589	99	8	7	-10	-18	298	99	8	10	-7	369	311	99	8	13	-1	122	129	99	8	17	-3	164	158	99
8	4	-7	-135	52	99	8	7	-9	312	270	99	8	10	-6	218	86	99	8	13	0	235	177	99	8	17	-2	285	313	99
8	4	-6	253	174	99	8	7	-8	57	237	99	8	10	-5	535	478	99	8	13	1	697	572	99	8	17	-1	267	254	99
8	17	0	47	10	99	9	1	-10	-93	47	99	9	4	-3	436	407	99	9	7	5	-192	126	99	9	11	2	173	143	99
8	17	1	336	372	99	9	1	-9	279	229	99	9	4	-2	-57	2	99	9	8	-9	493	395	99	9	11	3	582	588	99
8	17	2	64	184	99	9	1	-8	540	561	99	9	4	-1	-86	131	99	9	8	-8	-113	38	99	9	11	4	207	80	99
8	17	3	284	226	99	9	1	-7	192	232	99	9	4	0	215	126	99	9	8	-7	-209	94	99	9	12	-8	221	115	99
8	17	4	218	222	99	9	1	-6	86	80	99	9	4	1	475	527	99	9	8	-6	263	184	99	9	12	-7	-223	19	99
8	18	-7	221	333	99	9	1	-5	222	272	99	9	4	2	266	120	99	9	8	-5	254	171	99	9	12	-6	182	64	99
8	18	-6	-320	31	99	9	1	-4	370	413	99	9	4	3	321	304	99	9	8	-4	-96	44	99	9	12	-5	566	451	99
8	18	-5	335	327	99	9	1	-3	316	342	99	9	4	4	-143	177	99	9	8	-3	179	382	99	9	12	-4	-67	115	99
8	18	-4	199	31	99	9	1	-2	195	249	99	9	4	5	127	226	99	9	8	-2	86	83	99	9	12	-3	565	551	99
8	18	-3	544	531	99	9	1	-1	390	410	99	9	5	-10	252	192	99	9	8	-1	-144	53	99	9	12	-2	241	38	99
8	18	-2	-130	145	99	9	1	0	488	547	99	9	5	-9	198	73	99	9	8	0	-188	155	99	9	12	-1	237	240	99
8	18	-1	232	211	99	9	1	1	-60	47	99	9	5	-8	402	372	99	9	8	1	561	547	99	9	12	0	-199	117	99
8	18	0	214	186	99	9	1	2	212	112	99	9	5	-7	208	59	99	9	8	2	203	226	99	9	12	1	374	401	99
8	18	1	356	306	99	9	1	3	234	203	99	9	5	-6	-102	42	99	9	8	3	265	273	99	9	12	2	122	27	99
8	18	2	230	137	99	9	1	4	163	111	99	9	5	-5	308	272	99	9	8	4	178	217	99	9	12	3	-285	18	99
8	18	3	216	239	99	9	1	5	169	164	99	9	5	-4	408	409	99	9	8	5	616	491	99	9	13	-8	288	209	99
8	19	-7	191	198	99	9	2	-10	346	372	99	9	5	-3	311	282	99	9	9	-9	150	21	99	9	13	-7	327	327	99
8	19	-6	371	307	99	9	2	-9	178	132	99	9	5	-2	-82	62	99	9	9	-8	206	75	99	9	13	-6	366	320	99
8	19	-5	73	89	99	9	2	-8	191	51	99	9	5	-1	445	430	99	9	9	-7	310	306	99	9	13	-5	340	251	99
8	19	-4	-219	164	99	9	2	-7	-250	27	99	9	5	0	380	331	99	9	9	-6	268	226	99	9	13	-4	205	218	99
8	19	-3	236	176	99	9	2	-6	534	553	99	9	5	1	305	322	99	9	9	-5	94	85	99	9	13	-3	108	44	99
8	19	-2	344	379	99	9	2	-5	68	10	99	9	5	2	359	325	99	9	9	-4	427	466	99	9	13	-2	456	443	99
8	19	-1	157	91	99	9	2	-4	131	79	99	9	5	3	323	361	99	9	9	-3	209	133	99	9	13	-1	-99	75	99
8	19	0	75	107	99	9	2	-3	-34	37	99	9	5	4	68	66	99	9	9	-2	368	384	99	9	13	0	307	236	99
8	19	1	-83	74	99	9	2	-2	592	582	99	9	5	5	-147	14	99	9	9	-1	477	463	99	9	13	1	174	158	99
8	19	2	-118	10	99	9	2	-1	111	41	99	9	6	-10	285	208	99	9	9	0	104	14	99	9	13	2	-202	298	99
8	19	3	-207	47	99	9	2	0	374	388	99	9	6	-9	160	34	99	9	9	1	-98	87	99	9	13	3	64	281	99
8	20	-6	188	18	99	9	2	1	208	141	99	9	6	-8	296	314	99	9	9	2	317	340	99	9	14	-7	64	27	99
8	20	-5	117	126	99	9	2	2	148	204	99	9	6	-7	-120	26	99	9	9	3	240	80	99	9	14	-6	429	489	99
8	20	-4	340	285	99	9	2	3	112	65	99	9	6	-6	424	366	99	9	9	4	176	124	99	9	14	-5	-162	33	99
8	20	-3	167	21	99	9	2	4	319	276	99	9	6	-5	219	231	99	9	10	-9	108	73	99	9	14	-4	-234	138	99
8	20	-2	168	69	99	9	2	5	-110	34	99	9	6	-4	282	231	99	9	10	-8	279	355	99	9	14	-3	92	80	99
8	20	-1	53	111	99	9	3	-10	-152	214	99	9	6	-3	297	235	99	9	10	-7	-106	174	99	9	14	-2	301	262	99
8	20	0	265	213	99	9	3	-9	258	200	99	9	6	-2	414	434	99	9	10	-6	416	370	99	9	14	-1	126	8	99
8	20	1	-159	57	99	9	3	-8	333	304	99	9	6	-1	135	88	99	9	10	-5	176	161	99	9	14	0	10	226	99
8	20	2	271	347	99	9	3	-7	372	457	99	9	6	0	588	658	99	9	10	-4	190	221	99	9	14	1	269	317	99
8	21	-5	292	278	99	9	3	-6	-156	21	99	9	6	1	139	100	99	9	10	-3	309	269	99	9	14	2	377	349	99
8	21	-4	141	73	99	9	3	-5	236	237	99	9	6	2	248	148	99	9	10	-2	-67	159	99	9	14	3	185	96	99
8	21	-3	280	276	99	9	3	-4	429	369	99	9	6	3	144	54	99	9	10	-1	100	112	99	9	15	-7	347	379	99
8	21	-2	192	224	99	9	3	-3	330	283	99	9	6	4	406	401	99	9	10	0	462	410	99	9	15	-6	130	114	99
8	21	-1	-151	271	99	9	3	-2	225	140	99	9	6	5	120	32	99	9	10	1	217	80	99	9	15	-5	259	60	99
8	21	0	298	310	99	9	3	-1	484	550	99	9	7	-9	56	103	99	9	10	2	305	280	99	9	15	-4	434	434	99
8	21	1	262	285	99	9	3	0	-192	213	99	9	7	-8	-69	259	99	9	10	3	215	17	99	9	15	-3	-134	17	99
8	22	-4	280	234	99	9	3	1	172	152	99	9	7	-7	300	331	99	9	10	4	615	612	99	9	15	-2	137	185	99
8	22	-3	30	21	99	9	3	2	433	433	99	9	7	-6	-79	112	99	9	11	-9	-156	5	99	9	15	-1	605	502	99
8	22	-2	92	113	99	9	3	3	99	21	99	9	7	-5	433	421	99	9	11	-8	248	253	99	9	15	0	112	18	99
8	22	-1	376	346	99	9	3	4	36	67	99	9	7	-4	-90	112	99	9	11	-7	321	249	99	9	15	1	66	34	99
9	0	-9	295	277	99	9	3	5	201	193	99	9	7	-3	164	107	99	9	11	-6	202	149	99	9	15	2	111	12	99
9	0	-7	478	448	99	9	4	-10	252	41	99	9	7	-2	195	23	99	9	11	-5	262	306	99	9	16	-6	199	29	99
9	0	-5	382	477	99	9	4	-9	548	570	99	9	7	-1	337	281	99	9	11	-4	299	223	99	9	16	-5	402	395	99
9	0	-3	586	599	99	9	4	-8	-96	45	99	9	7	0	246	297	99	9	11	-3	-194	13	99	9	16	-4	289	171	99
9	0	-1	90	176	99	9	4	-7	294	296	99	9	7	1	132	129	99	9	11	-2	439	353	99	9	16	-3	290	359	99
9	0	1	555	520	99	9	4	-6	338	274	99	9	7	2	548	485	99	9	11	-1	230	222	99	9	16	-2	82	18	99
9	0	3	-126	131	99	9	4	-5	246	185	99	9	7	3	448	466	99	9	11	0	196	233	99	9	16	-1	-153	38	99
9	0	5	144	113	99	9	4	-4	178	0	99	9	7	4	238	55	99	9	11	1	-40	48	99	9	16	0	292	316	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	16	1	452	383	99	10	3	-1	264	226	99	10	8	-3	154	104	99	11	1	-2	380	395	99						
9	16	2	-195	40	99	10	3	0	253	248	99	10	8	-2	-93	62	99	11	1	-1	269	258	99						
9	17	-6	158	115	99	10	3	1	109	107	99	10	8	-1	-94	99	99	11	2	-5	340	300	99						
9	17	-5	330	317	99	10	3	2	115	140	99	10	8	0	229	186	99	11	2	-4	279	260	99						
9	17	-4	371	382	99	10	3	3	188	13	99	10	8	1	47	64	99	11	2	-3	-102	55	99						
9	17	-3	141	131	99	10	4	-8	164	267	99	10	8	2	462	518	99	11	2	-2	73	255	99						
9	17	-2	-107	11	99	10	4	-7	129	161	99	10	9	-7	198	159	99	11	2	-1	-97	87	99						
9	17	-1	176	21	99	10	4	-6	111	91	99	10	9	-6	-109	178	99	11	3	-5	-173	217	99						
9	17	0	452	363	99	10	4	-5	-183	166	99	10	9	-5	129	190	99	11	3	-4	520	487	99						
9	17	1	-174	49	99	10	4	-4	421	450	99	10	9	-4	248	125	99	11	3	-3	-94	2	99						
9	18	-5	-278	7	99	10	4	-3	180	192	99	10	9	-3	226	251	99	11	3	-2	300	211	99						
9	18	-4	-162	82	99	10	4	-2	320	198	99	10	9	-2	276	280	99	11	3	-1	347	330	99						
9	18	-3	81	54	99	10	4	-1	166	229	99	10	9	-1	-238	20	99	11	4	-4	-156	97	99						
9	18	-2	309	438	99	10	4	0	217	202	99	10	9	0	-15	99	99	11	4	-3	391	344	99						
9	18	-1	144	63	99	10	4	1	271	162	99	10	9	1	292	305	99	11	4	-2	-91	83	99						
9	18	0	-243	169	99	10	4	2	488	463	99	10	9	2	289	140	99	11	4	-1	46	110	99						
9	19	-3	400	442	99	10	4	3	-138	29	99	10	10	-7	343	429	99	11	5	-4	187	42	99						
9	19	-2	-237	53	99	10	5	-8	172	99	99	10	10	-6	200	39	99	11	5	-3	-87	174	99						
10	0	-8	314	299	99	10	5	-7	260	344	99	10	10	-5	196	270	99	11	5	-2	-347	61	99						
10	0	-6	180	102	99	10	5	-6	279	271	99	10	10	-4	120	131	99	11	6	-3	178	13	99						
10	0	-4	661	585	99	10	5	-5	248	78	99	10	10	-3	163	78	99												
10	0	-2	756	718	99	10	5	-4	175	189	99	10	10	-2	151	45	99												
10	0	0	343	325	99	10	5	-3	194	264	99	10	10	-1	324	238	99												
10	0	2	-137	24	99	10	5	-2	245	163	99	10	10	0	230	150	99												
10	1	-8	45	128	99	10	5	-1	295	304	99	10	10	1	-112	22	99												
10	1	-7	145	104	99	10	5	0	315	307	99	10	11	-6	314	280	99												
10	1	-6	-221	127	99	10	5	1	321	402	99	10	11	-5	-91	61	99												
10	1	-5	292	171	99	10	5	2	64	90	99	10	11	-4	186	80	99												
10	1	-4	-112	27	99	10	5	3	159	176	99	10	11	-3	165	187	99												
10	1	-3	577	558	99	10	6	-8	-135	147	99	10	11	-2	83	144	99												
10	1	-2	343	393	99	10	6	-7	124	170	99	10	11	-1	82	26	99												
10	1	-1	144	51	99	10	6	-6	154	107	99	10	11	0	139	77	99												
10	1	0	308	289	99	10	6	-5	424	521	99	10	11	1	168	222	99												
10	1	1	177	199	99	10	6	-4	-143	10	99	10	12	-6	230	6	99												
10	1	2	160	183	99	10	6	-3	138	248	99	10	12	-5	82	46	99												
10	1	3	256	29	99	10	6	-2	24	61	99	10	12	-4	329	354	99												
10	2	-8	218	10	99	10	6	-1	345	321	99	10	12	-3	-34	34	99												
10	2	-7	188	163	99	10	6	0	339	266	99	10	12	-2	375	296	99												
10	2	-6	206	212	99	10	6	1	285	312	99	10	12	-1	95	30	99												
10	2	-5	251	240	99	10	6	2	-166	44	99	10	12	0	289	267	99												
10	2	-4	237	120	99	10	7	-8	120	72	99	10	13	-5	164	171	99												
10	2	-3	-131	152	99	10	7	-7	212	241	99	10	13	-4	248	156	99												
10	2	-2	-107	44	99	10	7	-6	439	489	99	10	13	-3	326	298	99												
10	2	-1	590	679	99	10	7	-5	-32	185	99	10	13	-2	-151	146	99												
10	2	0	358	377	99	10	7	-4	9	124	99	10	13	-1	-136	32	99												
10	2	1	173	59	99	10	7	-3	197	89	99	10	13	0	249	121	99												
10	2	2	124	33	99	10	7	-2	63	151	99	10	14	-4	181	47	99												
10	2	3	307	288	99	10	7	-1	110	92	99	10	14	-3	-160	17	99												
10	3	-8	111	95	99	10	7	0	98	200	99	10	14	-2	186	31	99												
10	3	-7	123	17	99	10	7	1	-98	155	99	11	0	-5	208	214	99												
10	3	-6	321	389	99	10	7	2	129	83	99	11	0	-3	653	671	99												
10	3	-5	395	320	99	10	8	-7	-266	11	99	11	0	-1	142	211	99												
10	3	-4	247	264	99	10	8	-6	106	14	99	11	1	-5	69	171	99												
10	3	-3	332	405	99	10	8	-5	316	249	99	11	1	-4	247	187	99												
10	3	-2	429	444	99	10	8	-4	303	278	99	11	1	-3	115	76	99												

APPENDIX 5.I

$[Zn(S_2COnBu)_2]\cdot 75C_6H_6$

Table 5.I.1: Crystallographic Parameters for $[Zn(S_2COCH_2CH_2CH_2CH_3)2]\cdot 75C_6H_6$

Formula	$C_{10}H_{18}O_2S_4Zn\ 0.75C_6H_6$
Formula weight	363.88
Crystal morphology / colour	block / colourless
Crystal dimensions (mm)	0.13 x 0.16 x 0.32
Crystal system	triclinic
Space group	$P\bar{1}$ (#2)
a (Å)	12.885(5)
b (Å)	18.72(1)
c (Å)	8.564(3)
α (°)	96.54(4)
β (°)	102.48(3)
γ (°)	87.33(4)
V (Å^3)	2002(1)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.645
$F(000)$	878
Temperature (°K)	200
μ (cm^{-1})	16.45
θ limits, cell (°)	12.2 – 16.0
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 16, -24 – 24, -10 – 10
Range of transmission factors	0.975 – 1
Scan technique	ω:2θ
No. of data measured	9642
No. of unique data	9237
R_{amal}	0.096
No. of parameters	388
R (I≥0σ(I))	0.193
R_w (I≥0σ(I))	0.148
R (I≥3σ(I))	0.058
R_w (I≥3σ(I))	0.055
Maximum and minimum residual electron density (e Å^{-3})	1.95, -4.19

Table 5.I.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Zn(S_2COCH_2CH_2CH_2CH_3)_2]\cdot 75C_6H_6$

Atom	*x*	*y*	*z*
Zn(1)	0.25557(7)	-0.10520(5)	0.1382(1)
Zn(2)	0.16308(7)	0.18132(5)	0.0959(1)
S(1)	0.2317(2)	0.0156(1)	0.1111(2)
S(2)	0.2539(2)	0.1478(1)	0.3419(2)
S(3)	0.2265(2)	-0.1684(1)	0.3473(2)
S(4)	0.4264(2)	-0.1585(1)	0.2361(3)
S(5)	-0.0064(2)	0.1364(1)	-0.0022(2)
S(6)	-0.2049(2)	0.1705(1)	0.1168(2)
S(7)	0.2622(2)	0.1827(1)	-0.1074(2)
S(8)	0.1803(2)	0.3063(1)	0.0794(3)
O(1)	0.2973(4)	0.0162(3)	0.4166(5)
O(2)	0.4091(5)	-0.2381(3)	0.4516(7)
O(3)	-0.0162(4)	0.2211(3)	0.2500(6)
O(4)	0.2784(5)	0.3196(3)	-0.1464(7)
C(1)	0.2635(6)	0.0583(4)	0.3023(9)
C(2)	0.3183(6)	0.0498(4)	0.5850(8)
C(3)	0.3412(7)	-0.0106(5)	0.6960(9)
C(4)	0.4471(7)	-0.0445(5)	0.701(1)
C(5)	0.4742(7)	-0.0973(5)	0.834(1)
C(6)	0.3559(6)	-0.1906(4)	0.3517(9)
C(7)	0.3552(9)	-0.2697(6)	0.555(1)
C(8)	0.443(1)	-0.3166(6)	0.661(1)
C(9)	0.405(1)	-0.3471(8)	0.778(2)
C(10)	0.486(1)	-0.3979(8)	0.868(2)

Table 5.I.2: Cont.

Atom	*x*	*y*	*z*
C(11)	-0.0723(6)	0.1808(4)	0.1325(8)
C(12)	-0.0653(7)	0.2594(4)	0.3744(9)
C(13)	0.0236(7)	0.2959(5)	0.499(1)
C(14)	-0.0167(9)	0.3420(6)	0.633(1)
C(15)	-0.0725(9)	0.4090(6)	0.585(1)
C(16)	0.2440(6)	0.2717(4)	-0.0670(9)
C(17)	0.3398(8)	0.2938(6)	-0.267(1)
C(18)	0.365(1)	0.3599(8)	-0.340(2)
C(19)	0.298(1)	0.3989(9)	-0.419(2)
C(20)	0.327(1)	0.4610(7)	-0.496(1)
C(21)	0.759(1)	-0.5111(6)	0.959(2)
C(22)	0.856(1)	-0.5128(7)	1.046(2)
C(23)	0.9061(10)	-0.578(1)	1.062(2)
C(24)	0.856(2)	-0.6373(8)	0.987(3)
C(25)	0.757(2)	-0.6350(9)	0.903(2)
C(26)	0.7076(10)	-0.568(1)	0.885(2)
C(27)	0.9729(7)	-0.0603(5)	0.397(1)
C(28)	0.9896(7)	0.0037(6)	0.3395(10)
C(29)	0.9816(7)	-0.0655(5)	0.557(1)

Table 5.I.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Zn(S_2COCH_2CH_2CH_2CH_3)_2]\cdot 75C_6H_6$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Zn(1)	0.0413(6)	0.0411(6)	0.0435(6)	-0.0002(5)	0.0048(4)	0.0044(5)
Zn(2)	0.0414(6)	0.0445(6)	0.0400(6)	-0.0001(5)	0.0093(4)	0.0062(5)
S(1)	0.050(1)	0.038(1)	0.037(1)	0.0021(10)	0.0065(9)	0.0033(10)
S(2)	0.058(1)	0.043(1)	0.038(1)	-0.001(1)	0.000(1)	0.0000(10)
S(3)	0.049(1)	0.055(1)	0.054(1)	-0.001(1)	0.009(1)	0.016(1)
S(4)	0.038(1)	0.055(1)	0.073(2)	0.002(1)	0.007(1)	0.013(1)
S(5)	0.038(1)	0.059(1)	0.042(1)	-0.001(1)	0.0102(10)	-0.004(1)
S(6)	0.041(1)	0.057(1)	0.047(1)	-0.007(1)	0.014(1)	-0.008(1)
S(7)	0.057(1)	0.043(1)	0.055(1)	0.003(1)	0.026(1)	0.005(1)
S(8)	0.073(2)	0.038(1)	0.062(1)	0.008(1)	0.030(1)	0.007(1)
O(1)	0.044(3)	0.052(4)	0.033(3)	0.003(3)	-0.001(2)	0.010(3)
O(2)	0.075(5)	0.078(5)	0.074(5)	0.002(4)	0.020(4)	0.022(4)
O(3)	0.040(3)	0.046(3)	0.043(3)	-0.012(3)	0.011(3)	-0.013(3)
O(4)	0.082(5)	0.050(4)	0.080(4)	0.012(3)	0.050(4)	0.023(3)
C(1)	0.038(5)	0.049(5)	0.040(5)	-0.005(4)	0.002(4)	0.013(4)
C(2)	0.060(6)	0.063(6)	0.025(4)	0.000(5)	-0.004(4)	0.006(4)
C(3)	0.052(6)	0.079(7)	0.049(5)	-0.005(5)	0.001(4)	0.020(5)
C(4)	0.056(6)	0.059(6)	0.083(7)	0.005(5)	0.014(5)	0.031(5)
C(5)	0.047(6)	0.096(8)	0.104(8)	0.007(5)	0.014(5)	0.039(7)
C(6)	0.057(6)	0.044(5)	0.054(5)	0.004(4)	0.002(4)	0.014(4)
C(7)	0.110(9)	0.110(9)	0.067(7)	0.030(7)	0.046(7)	0.033(6)
C(8)	0.19(1)	0.12(1)	0.120(10)	0.114(9)	0.100(10)	0.095(8)
C(9)	0.16(1)	0.15(1)	0.13(1)	0.06(1)	0.03(1)	0.06(1)
C(10)	0.16(1)	0.19(2)	0.14(1)	0.06(1)	0.01(1)	0.09(1)

Table 5.I.3: Cont.

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(11)	0.043(5)	0.043(5)	0.037(4)	0.005(4)	0.005(4)	0.007(4)
C(12)	0.064(6)	0.064(6)	0.048(5)	-0.010(5)	0.017(5)	-0.013(5)
C(13)	0.067(7)	0.091(8)	0.065(6)	0.000(6)	0.009(5)	-0.032(6)
C(14)	0.099(9)	0.110(10)	0.074(7)	-0.012(7)	0.022(6)	-0.033(7)
C(15)	0.14(1)	0.071(8)	0.095(8)	0.040(7)	0.024(7)	-0.003(7)
C(16)	0.040(5)	0.063(6)	0.045(5)	0.003(4)	0.011(4)	0.013(4)
C(17)	0.123(10)	0.082(8)	0.118(9)	0.024(7)	0.087(8)	0.033(7)
C(18)	0.25(2)	0.14(1)	0.21(2)	0.11(1)	0.20(2)	0.12(1)
C(19)	0.30(2)	0.14(1)	0.19(2)	0.12(1)	0.17(2)	0.11(1)
C(20)	0.20(2)	0.14(1)	0.13(1)	0.05(1)	0.06(1)	0.092(10)
C(21)	0.10(1)	0.064(9)	0.14(1)	0.009(8)	0.019(9)	0.010(8)
C(22)	0.12(1)	0.09(1)	0.12(1)	-0.022(9)	0.016(9)	-0.011(8)
C(23)	0.072(9)	0.18(2)	0.14(1)	0.03(1)	0.002(8)	0.07(1)
C(24)	0.22(2)	0.050(9)	0.18(2)	0.04(1)	0.14(2)	0.06(1)
C(25)	0.19(2)	0.09(1)	0.12(1)	-0.07(1)	0.07(1)	-0.05(1)
C(26)	0.077(10)	0.13(1)	0.16(1)	-0.03(1)	0.008(8)	0.01(1)
C(27)	0.090(7)	0.070(7)	0.043(6)	-0.025(6)	0.017(5)	-0.014(5)
C(28)	0.069(7)	0.096(8)	0.044(5)	0.000(6)	0.017(5)	0.029(6)
C(29)	0.083(7)	0.070(7)	0.051(6)	-0.004(5)	0.020(5)	-0.010(5)

Table 5.I.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Zn(S_2COCH_2CH_2CH_2CH_3)_2]\cdot 75C_6H_6$

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.2579	0.0776	0.6046	4.8473
H(2b)	0.3780	0.0800	0.6043	4.8473
H(3a)	0.2890	-0.0463	0.6584	5.7254
H(3b)	0.3370	0.0091	0.8018	5.7254
H(4a)	0.4989	-0.0082	0.7233	6.0802
H(4b)	0.4483	-0.0706	0.5995	6.0802
H(5a)	0.5445	-0.1185	0.8359	7.6224
H(5b)	0.4222	-0.1350	0.8111	7.6224
H(5c)	0.4727	-0.0710	0.9381	7.6224
H(7a)	0.2997	-0.2993	0.4936	8.6132
H(7b)	0.3265	-0.2334	0.6216	8.6132
H(8a)	0.5011	-0.2866	0.7124	12.3400
H(8b)	0.4677	-0.3541	0.5918	12.3400
H(9a)	0.3433	-0.3733	0.7269	13.8677
H(9b)	0.3874	-0.3096	0.8525	13.8677
H(10a)	0.4550	-0.4191	0.9448	15.3380
H(10b)	0.5484	-0.3712	0.9246	15.3380
H(10c)	0.5067	-0.4356	0.7923	15.3380
H(12a)	-0.0997	0.2266	0.4221	5.5878
H(12b)	-0.1156	0.2943	0.3297	5.5878
H(13a)	0.0714	0.2600	0.5446	7.4179
H(13b)	0.0601	0.3258	0.4468	7.4179
H(14a)	0.0425	0.3543	0.7181	9.1615
H(14b)	-0.0643	0.3143	0.6708	9.1615

Table 5.I.4: Cont.

Atom	x	y	z	B_{eq}
H(15a)	-0.0245	0.4388	0.5495	9.9803
H(15b)	-0.0969	0.4346	0.6759	9.9803
H(15c)	-0.1331	0.3975	0.4977	9.9803
H(17a)	0.2984	0.2605	-0.3498	9.2014
H(17b)	0.4051	0.2700	-0.2174	9.2014
H(18a)	0.4124	0.3425	-0.4113	16.5383
H(18b)	0.4036	0.3914	-0.2508	16.5383
H(19a)	0.2535	0.4189	-0.3460	17.6953
H(19b)	0.2569	0.3673	-0.5049	17.6953
H(20a)	0.3481	0.5010	-0.4141	14.1524
H(20b)	0.2659	0.4754	-0.5746	14.1524
H(20c)	0.3853	0.4468	-0.5482	14.1524
H(21)	0.7238	-0.4645	0.9481	9.6380
H(22)	0.8914	-0.4688	1.0966	10.3154
H(23)	0.9773	-0.5816	1.1280	12.1297
H(24)	0.8933	-0.6835	0.9949	12.6752
H(25)	0.7196	-0.6787	0.8553	12.4112
H(26)	0.6366	-0.5633	0.8196	11.6586
H(27)	0.9545	-0.1026	0.3210	6.4366
H(28)	0.9835	0.0074	0.2258	6.3743
H(29)	0.9754	-0.0618	0.4435	6.4544

Table 5.I.5: Bond distances (Å) for $[Zn(S_2COCH_2CH_2CH_2CH_3)_2]\cdot 75C_6H_6$

Zn(1) — S(1)	2.299(2)	O(4) — C(17)	1.46(1)
Zn(1) — S(3)	2.358(2)	C(2) — C(3)	1.53(1)
Zn(1) — S(4)	2.395(2)	C(3) — C(4)	1.47(1)
Zn(1) — S(6)*	2.354(2)	C(4) — C(5)	1.56(1)
Zn(2) — S(2)	2.317(2)	C(7) — C(8)	1.59(1)
Zn(2) — S(5)	2.323(2)	C(8) — C(9)	1.39(1)
Zn(2) — S(7)	2.375(2)	C(9) — C(10)	1.52(1)
Zn(2) — S(8)	2.383(2)	C(12) — C(13)	1.51(1)
S(1) — C(1)	1.711(7)	C(13) — C(14)	1.53(1)
S(2) — C(1)	1.673(8)	C(14) — C(15)	1.47(1)
S(3) — C(6)	1.694(8)	C(17) — C(18)	1.53(1)
S(4) — C(6)	1.656(8)	C(18) — C(19)	1.24(2)
S(5) — C(11)	1.698(7)	C(19) — C(20)	1.50(2)
S(6) — C(11)	1.702(7)	C(21) — C(22)	1.31(1)
S(7) — C(16)	1.676(8)	C(21) — C(26)	1.31(2)
S(8) — C(16)	1.696(8)	C(22) — C(23)	1.36(2)
O(1) — C(1)	1.318(7)	C(23) — C(24)	1.33(2)
O(1) — C(2)	1.480(8)	C(24) — C(25)	1.33(2)
O(2) — C(6)	1.362(8)	C(25) — C(26)	1.39(2)
O(2) — C(7)	1.43(1)	C(27) — C(28)	1.37(1)
O(3) — C(11)	1.292(7)	C(27) — C(29)	1.35(1)
O(3) — C(12)	1.457(8)	C(28) — C(29)	1.38(1)
O(4) — C(16)	1.329(8)		

* symmetry operation: *-x*, *-y*, *-z*

Table 5.I.6: Bond angles (deg.) for $[Zn(S_2COCH_2CH_2CH_2CH_3)_2]\cdot 75C_6H_6$

S(1) — Zn(1) — S(3)	128.72(8)	C(3) — C(4) — C(5)	111.0(7)
S(1) — Zn(1) — S(4)	122.51(8)	S(3) — C(6) — S(4)	123.7(5)
S(1) — Zn(1) — S(6)*	108.93(8)	S(3) — C(6) — O(2)	121.1(6)
S(3) — Zn(1) — S(4)	76.83(8)	S(4) — C(6) — O(2)	115.1(6)
S(3) — Zn(1) — S(6)*	112.58(8)	O(2) — C(7) — C(8)	105.2(8)
S(4) — Zn(1) — S(6)*	101.44(8)	C(7) — C(8) — C(9)	113(1)
S(2) — Zn(2) — S(5)	116.84(8)	C(8) — C(9) — C(10)	113(1)
S(2) — Zn(2) — S(7)	117.00(9)	S(5) — C(11) — S(6)	121.7(4)
S(2) — Zn(2) — S(8)	111.52(8)	S(5) — C(11) — O(3)	116.6(5)
S(5) — Zn(2) — S(7)	112.99(8)	S(6) — C(11) — O(3)	121.8(5)
S(5) — Zn(2) — S(8)	115.62(8)	O(3) — C(12) — C(13)	106.6(7)
S(7) — Zn(2) — S(8)	76.54(7)	C(12) — C(13) — C(14)	112.8(8)
Zn(1) — S(1) — C(1)	105.7(3)	C(13) — C(14) — C(15)	114.4(9)
Zn(2) — S(2) — C(1)	101.7(3)	S(7) — C(16) — S(8)	121.8(5)
Zn(1) — S(3) — C(6)	79.9(3)	S(7) — C(16) — O(4)	122.7(6)
Zn(1) — S(4) — C(6)	79.4(3)	S(8) — C(16) — O(4)	115.5(6)
Zn(2) — S(5) — C(11)	100.5(3)	O(4) — C(17) — C(18)	106.6(8)
Zn(1) — S(6)* — C(11)*	102.3(3)	C(17) — C(18) — C(19)	125(2)
Zn(2) — S(7) — C(16)	81.1(3)	C(18) — C(19) — C(20)	123(2)
Zn(2) — S(8) — C(16)	80.5(3)	C(22) — C(21) — C(26)	124(1)
C(1) — O(1) — C(2)	117.6(6)	C(21) — C(22) — C(23)	118(1)
C(6) — O(2) — C(7)	119.6(7)	C(22) — C(23) — C(24)	119(1)
C(11) — O(3) — C(12)	120.5(6)	C(23) — C(24) — C(25)	122(2)
C(16) — O(4) — C(17)	118.5(7)	C(24) — C(25) — C(26)	118(1)
S(1) — C(1) — S(2)	122.7(4)	C(21) — C(26) — C(25)	118(1)
S(1) — C(1) — O(1)	115.4(6)	C(28) — C(27) — C(29)	120.3(8)

Table 5.I.6: Cont.

S(2) — C(1) — O(1)	121.9(5)	C(27) — C(28) — C(29)	119.4(8)
O(1) — C(2) — C(3)	108.0(6)	C(27) — C(29) — C(28)	120.3(8)
C(2) — C(3) — C(4)	112.6(7)		

* symmetry operation: -*x*, -*y*, -*z*

Table 5.I.7: Observed and calculated structure factors for $[Zn(S_2COCH_2CH_2CH_2CH_3)_2]\cdot 75C_6H_6$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	2	450	448	99	0	3	-2	360	346	99	0	6	-10	-54	160	99	0	8	3	481	466	99	0	11	-2	141	139	99
0	0	3	52	87	99	0	3	-1	1408	1404	99	0	6	-9	295	341	99	0	8	4	218	213	99	0	11	-1	503	488	99
0	0	4	1400	1347	99	0	3	0	770	746	99	0	6	-8	128	208	99	0	8	5	824	797	99	0	11	0	528	505	99
0	0	5	741	757	99	0	3	1	631	686	99	0	6	-7	507	485	99	0	8	6	693	634	99	0	11	1	433	414	99
0	0	6	198	189	99	0	3	2	257	261	99	0	6	-6	482	489	99	0	8	7	277	252	99	0	11	2	140	158	99
0	0	7	64	68	99	0	3	3	384	389	99	0	6	-5	517	541	99	0	8	8	-180	91	99	0	11	3	386	364	99
0	0	8	303	323	99	0	3	4	142	159	99	0	6	-4	489	486	99	0	8	9	-182	49	99	0	11	4	618	624	99
0	0	9	330	346	99	0	3	5	147	85	99	0	6	-3	361	346	99	0	9	-10	30	21	99	0	11	5	666	663	99
0	0	10	83	63	99	0	3	6	115	179	99	0	6	-2	725	699	99	0	9	-9	-192	6	99	0	11	6	299	298	99
0	1	-10	-150	12	99	0	3	7	178	133	99	0	6	-1	1241	1277	99	0	9	-8	-89	129	99	0	11	7	91	42	99
0	1	-9	85	76	99	0	3	8	148	152	99	0	6	0	1472	1461	99	0	9	-7	282	284	99	0	11	8	77	125	99
0	1	-8	82	9	99	0	3	9	135	161	99	0	6	1	373	349	99	0	9	-6	170	183	99	0	11	9	99	131	99
0	1	-7	-126	96	99	0	3	10	46	38	99	0	6	2	716	748	99	0	9	-5	184	201	99	0	12	-9	-116	11	99
0	1	-6	65	38	99	0	4	-10	127	49	99	0	6	3	418	414	99	0	9	-4	121	124	99	0	12	-8	-186	25	99
0	1	-5	109	97	99	0	4	-9	-117	103	99	0	6	4	385	355	99	0	9	-3	518	510	99	0	12	-7	249	282	99
0	1	-4	303	296	99	0	4	-8	252	256	99	0	6	5	404	406	99	0	9	-2	517	506	99	0	12	-6	115	92	99
0	1	-3	283	275	99	0	4	-7	98	92	99	0	6	6	181	151	99	0	9	-1	271	242	99	0	12	-5	-67	152	99
0	1	-2	109	109	99	0	4	-6	177	162	99	0	6	7	112	113	99	0	9	0	466	448	99	0	12	-4	592	565	99
0	1	2	921	952	99	0	4	-5	134	119	99	0	6	8	-27	51	99	0	9	1	132	96	99	0	12	-3	94	19	99
0	1	3	379	362	99	0	4	-4	374	349	99	0	6	9	172	197	99	0	9	2	228	229	99	0	12	-2	-71	88	99
0	1	4	1185	1131	99	0	4	-3	336	326	99	0	6	10	49	51	99	0	9	3	239	233	99	0	12	-1	129	84	99
0	1	5	446	438	99	0	4	-2	622	637	99	0	7	-10	-134	42	99	0	9	4	176	184	99	0	12	0	476	460	99
0	1	6	135	99	99	0	4	-1	713	747	99	0	7	-9	-24	86	99	0	9	5	476	460	99	0	12	1	225	210	99
0	1	7	355	358	99	0	4	0	784	777	99	0	7	-8	132	16	99	0	9	6	130	202	99	0	12	2	153	100	99
0	1	8	366	400	99	0	4	1	710	736	99	0	7	-7	294	281	99	0	9	7	183	165	99	0	12	3	-125	121	99
0	1	9	333	365	99	0	4	2	977	1028	99	0	7	-6	377	377	99	0	9	8	82	4	99	0	12	4	277	235	99
0	1	10	-137	89	99	0	4	3	406	416	99	0	7	-5	198	164	99	0	9	9	62	146	99	0	12	5	338	323	99
0	2	-10	-53	13	99	0	4	4	290	305	99	0	7	-4	184	164	99	0	10	-10	-100	29	99	0	12	6	139	79	99
0	2	-9	180	219	99	0	4	5	290	278	99	0	7	-3	1081	1016	99	0	10	-9	68	6	99	0	12	7	122	70	99
0	2	-8	183	222	99	0	4	6	567	518	99	0	7	-2	942	916	99	0	10	-8	47	19	99	0	12	8	-113	62	99
0	2	-7	247	266	99	0	4	7	296	292	99	0	7	-1	667	682	99	0	10	-7	198	162	99	0	13	-9	-62	103	99
0	2	-6	114	73	99	0	4	8	121	147	99	0	7	0	727	690	99	0	10	-6	97	84	99	0	13	-8	122	93	99
0	2	-5	372	354	99	0	4	9	-136	74	99	0	7	1	347	339	99	0	10	-5	371	335	99	0	13	-7	329	306	99
0	2	-4	407	383	99	0	4	10	90	85	99	0	7	2	908	925	99	0	10	-4	411	384	99	0	13	-6	-174	28	99
0	2	-3	275	282	99	0	5	-10	136	156	99	0	7	3	586	571	99	0	10	-3	854	813	99	0	13	-5	278	223	99
0	2	-2	147	128	99	0	5	-9	247	295	99	0	7	4	271	255	99	0	10	-2	349	346	99	0	13	-4	376	380	99
0	2	-1	285	260	99	0	5	-8	96	120	99	0	7	5	71	37	99	0	10	-1	794	784	99	0	13	-3	479	446	99
0	2	1	407	411	99	0	5	-7	130	158	99	0	7	6	595	582	99	0	10	0	337	335	99	0	13	-2	84	103	99
0	2	2	198	205	99	0	5	-6	394	384	99	0	7	7	-44	109	99	0	10	1	539	523	99	0	13	-1	410	391	99
0	2	3	199	191	99	0	5	-5	339	333	99	0	7	8	-52	117	99	0	10	2	505	501	99	0	13	0	-159	28	99
0	2	4	96	177	99	0	5	-4	426	390	99	0	7	9	112	155	99	0	10	3	299	281	99	0	13	1	190	184	99
0	2	5	224	221	99	0	5	-3	222	228	99	0	7	10	-40	35	99	0	10	4	470	432	99	0	13	2	361	344	99
0	2	6	247	221	99	0	5	-2	419	416	99	0	8	-10	102	23	99	0	10	5	427	412	99	0	13	3	90	56	99
0	2	7	320	323	99	0	5	-1	303	325	99	0	8	-9	82	2	99	0	10	6	259	274	99	0	13	4	108	141	99
0	2	8	54	90	99	0	5	0	435	441	99	0	8	-8	-66	32	99	0	10	7	-128	56	99	0	13	5	-160	29	99
0	2	9	55	58	99	0	5	1	418	411	99	0	8	-7	223	200	99	0	10	8	84	54	99	0	13	6	115	78	99
0	2	10	46	43	99	0	5	2	102	103	99	0	8	-6	46	49	99	0	10	9	-63	28	99	0	13	7	69	63	99
0	3	-10	-139	10	99	0	5	3	496	482	99	0	8	-5	41	84	99	0	11	-10	-6	23	99	0	13	8	-122	7	99
0	3	-9	314	312	99	0	5	4	258	236	99	0	8	-4	606	595	99	0	11	-9	105	18	99	0	14	-9	121	102	99
0	3	-8	364	360	99	0	5	5	369	362	99	0	8	-3	901	871	99	0	11	-8	129	33	99	0	14	-8	-105	112	99
0	3	-7	325	297	99	0	5	6	405	415	99	0	8	-2	556	552	99	0	11	-7	22	135	99	0	14	-7	137	136	99
0	3	-6	43	26	99	0	5	7	176	173	99	0	8	-1	87	139	99	0	11	-6	-160	4	99	0	14	-6	-130	78	99
0	3	-5	441	416	99	0	5	8	-108	34	99	0	8	0	484	471	99	0	11	-5	241	227	99	0	14	-5	323	329	99
0	3	-4	505	495	99	0	5	9	81	104	99	0	8	1	567	557	99	0	11	-4	554	523	99	0	14	-4	768	675	99
0	3	-3	303	297	99	0	5	10	105	109	99	0	8	2	514	508	99	0	11	-3	472	429	99	0	14	-3	860	779	99
0	14	-2	126	94	99	0	17	3	355	339	99	0	21	4	-65	37	99	1	-20	0	82	191	99	1	-16	-2	104	158	99
0	14	-1	363	343	99	0	17	4	-157	186	99	0	22	-5	-110	77	99	1	-20	1	-25	182	99	1	-16	-1	195	182	99
0	14	0	437	437	99	0	17	5	64	109	99	0	22	-4	174	6	99	1	-20	2	-138	25	99	1	-16	0	523	536	99
0	14	1	434	428	99	0	17	6	-70	60	99	0	22	-3	-131	23	99	1	-20	3	106	58	99	1	-16	1	66	193	99
0	14	2	-49	147	99	0	18	-8	-125	33	99	0	22	-2	146	81	99	1	-20	4	86	57	99	1	-16	2	143	176	99
0	14	3	174	140	99	0	18	-7	87	73	99	0	22	-1	101	74	99	1	-20	5	151	165	99	1	-16	3	298	313	99
0	14	4	389	374	99	0	18	-6	-16	110	99	0	22	0	118	87	99	1	-20	6	140	64	99	1	-16	4	351	336	99
0	14	5	302	288	99	0	18	-5	6	15	99	0	22	1	123	133	99	1	-19	-5	-42	77	99	1	-16	5	308	244	99
0	14	6	162	152	99	0	18	-4	100	97	99	0	22	2	228	213	99	1	-19	-4	-74	19	99	1	-16	6	110	102	99
0	14	7	71	33	99	0	18	-3	54	23	99	0	22	3	-64	77	99	1	-19	-3	-117	73	99	1	-16	7	67	131	99
0	14	8	-72	34	99	0	18	-2	196	184	99	0	23	-4	-183	85	99	1	-19	-2	131	49	99	1	-16	8	55	181	99
0	15	-9	72	58	99	0	18	-1	129	100	99	0	23	-3	-210	60	99	1	-19	-1	-72	23	99	1	-15	-7	-214	75	99
0	15	-8	-48	11	99	0	18	0	45	77	99	0	23	-2	94	29	99	1	-19	0	-92	163	99	1	-15	-6	150	172	99
0	15	-7	-40	39	99	0	18	1	216	201	99	0	23	-1	44	114	99	1	-19	1	57	113	99	1	-15	-5	215	182	99
0	15	-6	-130	25	99	0	18	2	477	470	99	0	23	0	-122	10	99	1	-19	2	123	23	99	1	-15	-4	-204	22	99
0	15	-5	122	28	99	0	18	3	255	262	99	0	23	1	-175	9	99	1	-19	3	82	75	99	1	-15	-3	54	167	99
0	15	-4	-208	85	99	0	18	4	58	58	99	0	23	2	-74	65	99	1	-19	4	123	23	99	1	-15	-2	131	174	99
0	15	-3	278	245	99	0	18	5	-121	27	99	0	24	-2	-96	73	99	1	-19	5	-66	116	99	1	-15	-1	338	390	99
0	15	-2	-132	20	99	0	18	6	68	111	99	0	24	-1	107	10	99	1	-19	6	-133	55	99	1	-15	0	-166	33	99
0	15	-1	128	163	99	0	19	-7	-104	47	99	0	24	0	138	179	99	1	-19	7	-176	39	99	1	-15	1	-178	54	99
0	15	0	424	390	99	0	19	-6	112	16	99	1	-24	0	150	81	99	1	-18	-6	123	89	99	1	-15	2	-111	83	99
0	15	1	383	345	99	0	19	-5	31	115	99	1	-24	1	109	167	99	1	-18	-5	189	196	99	1	-15	3	-146	57	99
0	15	2	206	181	99	0	19	-4	-89	66	99	1	-24	2	154	168	99	1	-18	-4	266	285	99	1	-15	4	-93	9	99
0	15	3	248	235	99	0	19	-3	155	35	99	1	-23	-2	80	44	99	1	-18	-3	348	341	99	1	-15	5	198	149	99
0	15	4	284	267	99	0	19	-2	-86	53	99	1	-23	-1	91	2	99	1	-18	-2	119	90	99	1	-15	6	227	255	99
0	15	5	336	356	99	0	19	-1	165	69	99	1	-23	0	203	214	99	1	-18	-1	104	160	99	1	-15	7	-30	136	99
0	15	6	80	106	99	0	19	0	-128	56	99	1	-23	1	-129	184	99	1	-18	0	207	203	99	1	-15	8	148	75	99
0	15	7	-193	18	99	0	19	1	-99	95	99	1	-23	2	137	80	99	1	-18	1	163	138	99	1	-15	9	-39	120	99
0	16	-8	53	30	99	0	19	2	291	266	99	1	-23	3	93	77	99	1	-18	2	154	83	99	1	-14	-8	-83	20	99
0	16	-7	-77	8	99	0	19	3	91	77	99	1	-23	4	100	126	99	1	-18	3	120	8	99	1	-14	-7	84	70	99
0	16	-6	205	164	99	0	19	4	79	32	99	1	-22	-3	69	77	99	1	-18	4	161	92	99	1	-14	-6	148	98	99
0	16	-5	418	398	99	0	19	5	59	13	99	1	-22	-2	-113	26	99	1	-18	5	69	107	99	1	-14	-5	114	75	99
0	16	-4	252	241	99	0	20	-7	-136	32	99	1	-22	-1	110	41	99	1	-18	6	179	149	99	1	-14	-4	72	178	99
0	16	-3	67	82	99	0	20	-6	73	49	99	1	-22	0	171	115	99	1	-18	7	-183	5	99	1	-14	-3	92	81	99
0	16	-2	146	126	99	0	20	-5	98	124	99	1	-22	1	140	58	99	1	-17	-7	-177	3	99	1	-14	-2	128	92	99
0	16	-1	503	454	99	0	20	-4	103	62	99	1	-22	2	9	1	99	1	-17	-6	-31	95	99	1	-14	-1	221	249	99
0	16	0	118	167	99	0	20	-3	32	83	99	1	-22	3	-116	99	99	1	-17	-5	172	151	99	1	-14	0	-180	14	99
0	16	1	98	33	99	0	20	-2	-145	92	99	1	-22	4	-114	28	99	1	-17	-4	386	372	99	1	-14	1	256	193	99
0	16	2	357	325	99	0	20	-1	105	129	99	1	-22	5	-67	56	99	1	-17	-3	316	313	99	1	-14	2	393	409	99
0	16	3	-88	53	99	0	20	0	62	11	99	1	-21	-4	-179	82	99	1	-17	-2	-88	50	99	1	-14	3	179	152	99
0	16	4	-61	39	99	0	20	1	83	46	99	1	-21	-3	34	112	99	1	-17	-1	302	305	99	1	-14	4	71	131	99
0	16	5	91	43	99	0	20	2	-153	48	99	1	-21	-2	54	25	99	1	-17	0	595	597	99	1	-14	5	223	172	99
0	16	6	-142	61	99	0	20	3	-152	8	99	1	-21	-1	-131	86	99	1	-17	1	313	312	99	1	-14	6	141	21	99
0	16	7	77	21	99	0	20	4	34	9	99	1	-21	0	48	113	99	1	-17	2	77	60	99	1	-14	7	148	47	99
0	17	-8	-67	19	99	0	20	5	-86	14	99	1	-21	1	54	112	99	1	-17	3	164	201	99	1	-14	8	120	18	99
0	17	-7	85	96	99	0	21	-6	138	79	99	1	-21	2	-102	33	99	1	-17	4	385	368	99	1	-14	9	113	28	99
0	17	-6	178	204	99	0	21	-5	115	4	99	1	-21	3	142	101	99	1	-17	5	388	345	99	1	-13	-8	100	72	99
0	17	-5	248	256	99	0	21	-4	-124	43	99	1	-21	4	-151	95	99	1	-17	6	129	134	99	1	-13	-7	65	44	99
0	17	-4	-83	145	99	0	21	-3	158	19	99	1	-21	5	118	141	99	1	-17	7	128	13	99	1	-13	-6	-146	40	99
0	17	-3	-144	125	99	0	21	-2	167	133	99	1	-21	6	69	69	99	1	-17	8	-34	81	99	1	-13	-5	-11	19	99
0	17	-2	344	306	99	0	21	-1	113	72	99	1	-20	-5	90	30	99	1	-16	-7	-223	15	99	1	-13	-4	47	105	99
0	17	-1	483	421	99	0	21	0	135	15	99	1	-20	-4	-79	96	99	1	-16	-6	108	50	99	1	-13	-3	87	161	99
0	17	0	335	290	99	0	21	1	-149	42	99	1	-20	-3	84	134	99	1	-16	-5	58	84	99	1	-13	-2	180	173	99
0	17	1	-123	96	99	0	21	2	121	112	99	1	-20	-2	136	151	99	1	-16	-4	135	118	99	1	-13	-1	-92	125	99
0	17	2	175	118	99	0	21	3	-54	21	99	1	-20	-1	91	7	99	1	-16	-3	39	42	99	1	-13	0	65	186	99

h	k	l	Fo	Fc	sigF2
1	-13	1	199	217	99
1	-13	2	644	657	99
1	-13	3	103	70	99
1	-13	4	102	47	99
1	-13	5	-142	155	99
1	-13	6	394	378	99
1	-13	7	47	127	99
1	-13	8	98	17	99
1	-13	9	-57	49	99
1	-12	-8	-57	40	99
1	-12	-7	118	27	99
1	-12	-6	162	197	99
1	-12	-5	80	12	99
1	-12	-4	211	199	99
1	-12	-3	237	222	99
1	-12	-2	-113	124	99
1	-12	-1	156	150	99
1	-12	0	175	181	99
1	-12	1	77	15	99
1	-12	2	494	521	99
1	-12	3	204	196	99
1	-12	4	-109	7	99
1	-12	5	467	434	99
1	-12	6	455	427	99
1	-12	7	190	181	99
1	-12	8	-87	12	99
1	-12	9	96	56	99
1	-11	-9	-83	37	99
1	-11	-8	111	11	99
1	-11	-7	89	224	99
1	-11	-6	360	343	99
1	-11	-5	274	270	99
1	-11	-4	365	368	99
1	-11	-3	-110	46	99
1	-11	-2	248	256	99
1	-11	-1	211	210	99
1	-11	0	141	145	99
1	-11	1	190	192	99
1	-11	2	209	198	99
1	-11	3	203	203	99
1	-11	4	111	48	99
1	-11	5	219	172	99
1	-11	6	249	199	99
1	-11	7	104	66	99
1	-11	8	-118	19	99
1	-11	9	100	66	99
1	-11	10	-151	26	99
1	-10	-9	-111	11	99
1	-10	-8	95	23	99
1	-10	-7	301	281	99
1	-10	-6	245	248	99
1	-10	-5	157	124	99
1	-10	-4	80	15	99
1	-10	-3	534	531	99
1	-10	-2	562	549	99
1	-10	-1	-39	130	99
1	-10	0	147	155	99
1	-10	1	544	548	99
1	-10	2	854	890	99
1	-10	3	526	543	99
1	-10	4	109	31	99
1	-10	5	160	153	99
1	-10	6	195	193	99
1	-10	7	73	153	99
1	-10	8	82	13	99
1	-10	9	-55	74	99
1	-10	10	86	98	99
1	-9	-9	77	77	99
1	-9	-8	-108	138	99
1	-9	-7	87	92	99
1	-9	-6	101	91	99
1	-9	-5	77	125	99
1	-9	-4	105	56	99
1	-9	-3	738	718	99
1	-9	-2	286	311	99
1	-9	-1	260	249	99
1	-9	0	218	236	99
1	-9	1	689	723	99
1	-9	2	1234	1286	99
1	-9	3	396	396	99
1	-9	4	270	266	99
1	-9	5	310	279	99
1	-9	6	602	618	99
1	-9	7	248	266	99
1	-9	8	127	64	99
1	-9	9	54	15	99
1	-9	10	130	179	99
1	-8	-9	172	161	99
1	-8	-8	141	223	99
1	-8	-7	39	110	99
1	-8	-6	97	65	99
1	-8	-5	-38	151	99
1	-8	-4	433	439	99
1	-8	-3	269	249	99
1	-8	-2	82	82	99
1	-8	-1	422	421	99
1	-8	0	446	452	99
1	-8	1	440	470	99
1	-8	2	72	37	99
1	-8	3	30	44	99
1	-8	4	229	223	99
1	-8	5	341	331	99
1	-8	6	428	432	99
1	-8	7	121	127	99
1	-8	8	125	105	99
1	-8	9	-125	84	99
1	-8	10	112	129	99
1	-7	-10	62	125	99
1	-7	-9	114	141	99
1	-7	-8	78	89	99
1	-7	-7	239	222	99
1	-7	-6	153	134	99
1	-7	-5	501	513	99
1	-7	-4	598	600	99
1	-7	-3	543	543	99
1	-7	-2	89	47	99
1	-7	-1	904	904	99
1	-7	0	1143	1153	99
1	-7	1	796	805	99
1	-7	2	1509	1504	99
1	-7	3	440	422	99
1	-7	4	637	639	99
1	-7	5	231	258	99
1	-7	6	247	225	99
1	-7	7	158	116	99
1	-7	8	210	129	99
1	-7	9	-133	57	99
1	-7	10	-113	78	99
1	-6	-10	-45	34	99
1	-6	-9	17	6	99
1	-6	-8	38	52	99
1	-6	-7	233	213	99
1	-6	-6	289	304	99
1	-6	-5	154	165	99
1	-6	-4	183	168	99
1	-6	-3	291	290	99
1	-6	-2	168	149	99
1	-6	-1	913	947	99
1	-6	0	590	631	99
1	-6	1	658	673	99
1	-6	2	1001	1020	99
1	-6	3	714	701	99
1	-6	4	1070	1087	99
1	-6	5	532	525	99
1	-6	6	421	432	99
1	-6	7	311	306	99
1	-6	8	369	350	99
1	-6	9	190	235	99
1	-6	10	88	160	99
1	-5	-10	-88	30	99
1	-5	-9	114	125	99
1	-5	-8	-192	86	99
1	-5	-7	82	17	99
1	-5	-6	-64	13	99
1	-5	-5	177	173	99
1	-5	-4	-107	33	99
1	-5	-3	235	228	99
1	-5	-2	545	551	99
1	-5	-1	257	252	99
1	-5	0	337	346	99
1	-5	1	60	26	99
1	-5	2	-71	83	99
1	-5	3	246	249	99
1	-5	4	331	324	99
1	-5	5	233	246	99
1	-4	-10	117	84	99
1	-4	-9	104	202	99
1	-4	-8	75	124	99
1	-4	-7	416	422	99
1	-4	-6	130	152	99
1	-4	-5	421	411	99
1	-4	-4	72	93	99
1	-4	-3	109	63	99
1	-4	-2	426	430	99
1	-4	-1	112	109	99
1	-4	0	300	316	99
1	-4	1	402	390	99
1	-4	2	954	987	99
1	-4	3	33	38	99
1	-4	4	-113	13	99
1	-4	5	147	151	99
1	-4	6	67	31	99
1	-4	7	78	109	99
1	-4	8	66	42	99
1	-4	9	67	25	99
1	-4	10	92	88	99
1	-3	-10	95	38	99
1	-3	-9	-68	109	99
1	-3	-8	-145	64	99
1	-3	-7	483	498	99
1	-3	-6	194	141	99
1	-3	-5	575	591	99
1	-3	-4	299	290	99
1	-3	-3	648	648	99
1	-3	-2	597	609	99
1	-3	-1	2127	2092	99
1	-3	0	1018	959	99
1	-3	1	1683	1705	99
1	-3	2	818	816	99
1	-3	3	72	64	99
1	-3	4	553	553	99
1	-3	5	-67	98	99
1	-3	6	152	174	99
1	-3	7	114	16	99
1	-3	8	256	235	99
1	-3	9	-130	21	99
1	-3	10	-170	51	99
1	-2	-10	147	127	99
1	-2	-9	71	137	99
1	-2	-8	89	13	99
1	-2	-7	88	157	99
1	-2	-6	340	337	99
1	-2	-5	137	107	99
1	-2	-4	-11	17	99
1	-2	-3	527	526	99
1	-2	-2	680	706	99
1	-2	-1	609	566	99
1	-2	1	79	32	99
1	-2	2	92	89	99
1	-2	3	412	407	99
1	-2	4	415	419	99
1	-2	5	292	283	99
1	-2	6	-78	21	99
1	-2	7	269	237	99
1	-2	8	351	366	99
1	-2	9	107	29	99
1	-2	10	-31	25	99
1	-1	-10	152	221	99
1	-1	-9	115	199	99
1	-1	-8	-160	10	99
1	-1	-7	-91	61	99
1	-1	-6	324	346	99
1	-1	-5	870	882	99
1	-1	-4	251	249	99
1	-1	-3	287	284	99
1	-1	-2	188	207	99
1	-1	-1	216	221	99
1	-1	2	800	781	99
1	-1	3	77	56	99
1	-1	4	123	117	99
1	-1	5	-101	152	99
1	-1	6	209	171	99
1	-1	7	314	318	99
1	-1	8	74	107	99
1	-1	9	-108	12	99
1	-1	10	-26	80	99
1	0	-10	-72	119	99
1	0	-9	67	123	99
1	0	-8	92	74	99
1	0	-7	154	111	99
1	0	-6	162	167	99
1	0	-5	414	427	99
1	0	-4	211	195	99
1	0	-3	1068	1057	99
1	0	-2	1457	1481	99
1	0	1	175	170	99
1	0	2	502	486	99
1	0	3	305	306	99
1	0	4	549	540	99
1	0	5	240	243	99
1	0	6	80	120	99
1	0	7	76	61	99
1	0	8	316	330	99
1	0	9	66	20	99
1	0	10	25	33	99
1	1	-10	-154	31	99
1	1	-9	-56	146	99
1	1	-8	96	34	99
1	1	-7	-194	17	99
1	1	-6	70	127	99
1	1	-5	225	204	99
1	1	-4	82	142	99
1	1	-3	361	347	99
1	1	-2	494	489	99
1	1	1	1741	1587	99
1	1	2	674	674	99
1	1	3	620	614	99
1	1	4	141	137	99
1	1	5	465	455	99
1	1	6	654	636	99
1	1	7	503	507	99
1	1	8	372	378	99
1	1	9	-55	43	99
1	1	10	-59	135	99
1	2	-11	-116	36	99
1	2	-10	39	79	99
1	2	-9	-93	27	99
1	2	-8	-130	109	99
1	2	-7	162	62	99
1	2	-6	81	28	99
1	2	-5	236	210	99
1	2	-4	394	380	99
1	2	-3	86	121	99
1	2	-2	350	347	99
1	2	-1	390	399	99
1	2	1	1001	1031	99
1	2	2	985	995	99
1	2	3	632	646	99
1	2	4	265	253	99
1	2	5	285	286	99
1	2	6	593	591	99
1	2	7	468	465	99
1	2	8	91	71	99
1	2	9	-9	120	99
1	2	10	209	235	99
1	3	-11	-106	31	99
1	3	-10	99	65	99
1	3	-9	55	162	99
1	3	-8	155	149	99
1	3	-7	171	189	99
1	3	-6	188	187	99
1	3	-5	-126	121	99
1	3	-4	390	390	99
1	3	-3	397	406	99
1	3	-2	621	610	99
1	3	-1	485	523	99
1	3	0	130	143	99
1	3	1	1735	1870	99
1	3	2	848	860	99
1	3	3	734	698	99
1	3	4	103	70	99
1	3	5	407	379	99
1	3	6	128	160	99
1	3	7	-93	39	99
1	3	8	99	50	99
1	3	9	-208	31	99
1	3	10	-31	141	99
1	4	-10	115	43	99
1	4	-9	130	103	99
1	4	-8	83	126	99
1	4	-7	169	125	99
1	4	-6	-169	59	99
1	4	-5	92	10	99
1	4	-4	558	543	99
1	4	-3	506	503	99
1	4	-2	704	701	99
1	4	-1	1040	1043	99
1	4	0	328	313	99
1	4	1	1314	1416	99
1	4	2	218	203	99
1	4	3	407	419	99
1	4	4	76	29	99
1	4	5	573	551	99
1	4	6	102	139	99
1	4	7	-55	172	99
1	4	8	66	23	99
1	4	9	79	96	99
1	4	10	-130	24	99
1	5	-10	53	54	99
1	5	-9	95	8	99
1	5	-8	184	202	99
1	5	-7	133	69	99
1	5	-6	142	164	99
1	5	-5	89	108	99
1	5	-4	315	321	99
1	5	-3	74	36	99
1	5	-2	877	891	99
1	5	-1	79	1	99
1	5	0	62	68	99
1	5	1	409	415	99
1	5	2	559	600	99
1	5	3	58	120	99
1	5	4	266	256	99
1	5	5	448	425	99
1	5	6	357	313	99
1	5	7	161	170	99
1	5	8	-54	58	99
1	5	9	-63	117	99
1	5	10	108	28	99
1	6	-10	100	56	99
1	6	-9	-24	100	99
1	6	-8	430	447	99
1	6	-7	316	271	99
1	6	-6	446	441	99
1	6	-5	86	108	99
1	6	-4	549	531	99
1	6	-3	804	795	99
1	6	-2	141	156	99
1	6	-1	411	434	99
1	6	0	108	116	99
1	6	1	67	64	99
1	6	2	756	739	99
1	6	3	79	106	99
1	6	4	226	220	99
1	6	5	285	246	99
1	6	6	37	25	99
1	6	7	176	139	99
1	6	8	143	163	99
1	6	9	105	97	99
1	6	10	111	10	99
1	7	-10	-131	5	99
1	7	-9	-25	50	99
1	7	-8	321	289	99
1	7	-7	385	363	99
1	7	-6	436	443	99
1	7	-5	407	396	99
1	7	-4	635	639	99
1	7	-3	1392	1346	99
1	7	-2	436	444	99
1	7	-1	-19	93	99
1	7	0	1033	1034	99
1	7	1	1039	1045	99
1	7	2	310	313	99
1	7	3	323	321	99
1	7	4	405	391	99
1	7	5	417	394	99
1	7	6	404	404	99
1	7	7	128	57	99
1	7	8	114	129	99
1	7	9	-148	10	99
1	8	-10	118	111	99
1	8	-9	56	105	99
1	8	-8	-166	119	99
1	8	-7	170	226	99
1	8	-6	163	165	99
1	8	-5	195	156	99
1	8	-4	319	304	99
1	8	-3	671	640	99
1	8	-2	336	328	99
1	8	-1	-103	127	99
1	8	0	841	838	99
1	8	1	683	666	99
1	8	2	724	679	99
1	8	3	345	325	99
1	8	4	814	796	99
1	8	5	658	653	99
1	8	6	323	354	99
1	8	7	107	134	99
1	8	8	-75	28	99
1	8	9	84	110	99
1	9	-10	-153	144	99
1	9	-9	131	100	99
1	9	-8	186	172	99
1	9	-7	253	173	99
1	9	-6	602	570	99
1	9	-5	211	178	99
1	9	-4	-127	130	99
1	9	-3	302	312	99
1	9	-2	209	212	99
1	9	-1	428	426	99
1	9	0	-85	88	99
1	9	1	332	322	99
1	9	2	463	440	99
1	9	3	52	103	99
1	9	4	705	694	99
1	9	5	-87	92	99
1	9	6	-132	16	99
1	9	7	-74	22	99
1	9	8	36	186	99
1	9	9	73	111	99
1	10	-10	-48	61	99
1	10	-9	135	14	99
1	10	-8	99	58	99
1	10	-7	248	227	99
1	10	-6	404	435	99
1	10	-5	386	384	99
1	10	-4	93	108	99
1	10	-3	146	87	99
1	10	-2	494	495	99
1	10	-1	151	120	99
1	10	0	143	134	99
1	10	1	181	165	99
1	10	2	521	475	99
1	10	3	521	510	99
1	10	4	212	218	99
1	10	5	255	224	99
1	10	6	71	54	99
1	10	7	124	38	99
1	10	8	46	177	99
1	10	9	-168	51	99
1	11	-10	-107	54	99
1	11	-9	-109	19	99
1	11	-8	107	6	99
1	11	-7	84	30	99
1	11	-6	156	138	99
1	11	-5	378	378	99
1	11	-4	280	272	99
1	11	-3	122	129	99
1	11	-2	-105	36	99
1	11	-1	92	110	99
1	11	0	108	104	99
1	11	1	-53	93	99
1	11	2	360	348	99
1	11	3	321	331	99
1	11	4	248	269	99
1	11	5	-134	35	99
1	11	6	171	144	99
1	11	7	66	81	99
1	11	8	116	70	99
1	12	-10	119	129	99
1	12	-9	-161	85	99
1	12	-8	-133	153	99
1	12	-7	-133	36	99
1	12	-6	396	363	99
1	12	-5	241	218	99
1	12	-4	-152	116	99
1	12	-3	103	182	99
1	12	-2	354	307	99
1	12	-1	-127	81	99
1	12	0	105	141	99
1	12	1	232	236	99
1	12	2	47	99	99
1	12	3	32	98	99
1	12	4	452	422	99
1	12	5	-75	73	99
1	12	6	207	190	99
1	12	7	85	69	99
1	12	8	70	29	99
1	13	-9	43	93	99
1	13	-8	226	164	99
1	13	-7	121	17	99
1	13	-6	423	433	99
1	13	-5	240	224	99
1	13	-4	146	171	99
1	13	-3	338	326	99
1	13	-2	261	271	99
1	13	-1	181	129	99
1	13	0	96	53	99
1	13	1	289	324	99
1	13	2	129	80	99
1	13	3	87	11	99
1	13	4	192	167	99
1	13	5	123	39	99
1	13	6	63	147	99
1	13	7	88	87	99
1	13	8	133	100	99
1	14	-9	23	4	99
1	14	-8	115	8	99
1	14	-7	-34	88	99
1	14	-6	210	237	99
1	14	-5	302	288	99
1	14	-4	-48	114	99
1	14	-3	102	103	99
1	14	-2	204	221	99
1	14	-1	50	82	99
1	14	0	49	52	99
1	14	1	80	97	99
1	14	2	149	109	99
1	14	3	80	174	99
1	14	4	171	140	99
1	14	5	101	38	99
1	14	6	-178	40	99
1	14	7	135	93	99
1	14	8	-90	76	99
1	15	-9	106	3	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	15	-8	109	5	99	1	18	-1	332	300	99	1	23	-3	70	35	99	2	-19	2	-116	10	99	2	-15	-4	232	259	99
1	15	-7	-101	32	99	1	18	0	337	331	99	1	23	-2	-85	5	99	2	-19	3	-132	22	99	2	-15	-3	70	18	99
1	15	-6	132	81	99	1	18	1	389	381	99	1	23	-1	-62	78	99	2	-19	4	150	149	99	2	-15	-2	-32	30	99
1	15	-5	107	94	99	1	18	2	222	202	99	1	23	0	128	64	99	2	-19	5	-132	20	99	2	-15	-1	375	368	99
1	15	-4	-136	150	99	1	18	3	-54	128	99	1	23	1	84	61	99	2	-19	6	126	60	99	2	-15	0	234	201	99
1	15	-3	449	432	99	1	18	4	171	109	99	1	23	2	-37	11	99	2	-19	7	182	90	99	2	-15	1	127	121	99
1	15	-2	224	178	99	1	18	5	105	159	99	1	24	-3	136	5	99	2	-18	-6	122	174	99	2	-15	2	-45	51	99
1	15	-1	136	67	99	1	18	6	127	139	99	1	24	-2	-115	102	99	2	-18	-5	-111	137	99	2	-15	3	117	145	99
1	15	0	-133	121	99	1	19	-7	50	84	99	1	24	-1	215	198	99	2	-18	-4	134	71	99	2	-15	4	127	60	99
1	15	1	380	380	99	1	19	-6	121	13	99	1	24	0	144	142	99	2	-18	-3	97	122	99	2	-15	5	112	232	99
1	15	2	370	351	99	1	19	-5	-144	53	99	2	-24	1	122	151	99	2	-18	-2	125	95	99	2	-15	6	297	298	99
1	15	3	366	362	99	1	19	-4	-57	59	99	2	-23	-2	70	51	99	2	-18	-1	115	26	99	2	-15	7	-27	159	99
1	15	4	184	203	99	1	19	-3	105	97	99	2	-23	-1	78	84	99	2	-18	0	-133	30	99	2	-15	8	-105	105	99
1	15	5	-114	17	99	1	19	-2	-156	95	99	2	-23	0	98	100	99	2	-18	1	-99	5	99	2	-14	-8	-146	117	99
1	15	6	90	148	99	1	19	-1	-134	6	99	2	-23	1	-151	19	99	2	-18	2	-197	18	99	2	-14	-7	101	74	99
1	15	7	-173	15	99	1	19	0	-146	47	99	2	-23	2	175	38	99	2	-18	3	-70	90	99	2	-14	-6	-76	122	99
1	16	-9	100	105	99	1	19	1	277	270	99	2	-23	3	-98	73	99	2	-18	4	-184	40	99	2	-14	-5	118	106	99
1	16	-8	-100	94	99	1	19	2	65	149	99	2	-22	-3	-79	20	99	2	-18	5	-152	12	99	2	-14	-4	137	174	99
1	16	-7	113	97	99	1	19	3	45	100	99	2	-22	-2	122	118	99	2	-18	6	-95	64	99	2	-14	-3	223	202	99
1	16	-6	144	180	99	1	19	4	-98	18	99	2	-22	-1	135	40	99	2	-18	7	-70	101	99	2	-14	-2	97	140	99
1	16	-5	52	115	99	1	19	5	109	71	99	2	-22	0	135	13	99	2	-17	-7	-81	133	99	2	-14	-1	394	435	99
1	16	-4	275	311	99	1	20	-7	-119	14	99	2	-22	1	129	106	99	2	-17	-6	108	44	99	2	-14	0	597	592	99
1	16	-3	45	53	99	1	20	-6	-106	16	99	2	-22	2	55	74	99	2	-17	-5	-111	39	99	2	-14	1	394	395	99
1	16	-2	-150	63	99	1	20	-5	-124	57	99	2	-22	3	125	24	99	2	-17	-4	133	55	99	2	-14	2	-53	64	99
1	16	-1	110	85	99	1	20	-4	138	90	99	2	-22	4	102	96	99	2	-17	-3	281	263	99	2	-14	3	268	305	99
1	16	0	-40	166	99	1	20	-3	-56	33	99	2	-22	5	151	11	99	2	-17	-2	253	240	99	2	-14	4	-69	77	99
1	16	1	165	181	99	1	20	-2	41	104	99	2	-21	-4	101	60	99	2	-17	-1	66	128	99	2	-14	5	138	167	99
1	16	2	83	123	99	1	20	-1	-340	140	99	2	-21	-3	-74	29	99	2	-17	0	148	48	99	2	-14	6	40	55	99
1	16	3	106	71	99	1	20	0	-66	36	99	2	-21	-2	95	19	99	2	-17	1	399	401	99	2	-14	7	62	117	99
1	16	4	134	128	99	1	20	1	57	116	99	2	-21	-1	112	92	99	2	-17	2	125	166	99	2	-14	8	-80	77	99
1	16	5	123	36	99	1	20	2	20	85	99	2	-21	0	76	38	99	2	-17	3	287	220	99	2	-14	9	81	17	99
1	16	6	150	148	99	1	20	3	-129	19	99	2	-21	1	-68	3	99	2	-17	4	215	175	99	2	-13	-8	-190	17	99
1	16	7	101	61	99	1	20	4	-113	71	99	2	-21	2	-154	59	99	2	-17	5	-85	26	99	2	-13	-7	109	5	99
1	17	-8	77	136	99	1	20	5	54	32	99	2	-21	3	104	62	99	2	-17	6	-95	106	99	2	-13	-6	129	136	99
1	17	-7	-65	58	99	1	21	-6	152	4	99	2	-21	4	75	5	99	2	-17	7	-275	42	99	2	-13	-5	58	48	99
1	17	-6	74	25	99	1	21	-5	-189	66	99	2	-21	5	128	8	99	2	-17	8	-127	15	99	2	-13	-4	71	83	99
1	17	-5	76	130	99	1	21	-4	154	102	99	2	-20	-5	-94	33	99	2	-16	-7	111	25	99	2	-13	-3	200	189	99
1	17	-4	390	352	99	1	21	-3	157	208	99	2	-20	-4	-136	42	99	2	-16	-6	85	87	99	2	-13	-2	93	48	99
1	17	-3	447	397	99	1	21	-2	61	47	99	2	-20	-3	-140	4	99	2	-16	-5	-196	20	99	2	-13	-1	161	157	99
1	17	-2	-113	155	99	1	21	-1	163	148	99	2	-20	-2	-149	49	99	2	-16	-4	-60	70	99	2	-13	0	291	316	99
1	17	-1	255	208	99	1	21	0	100	64	99	2	-20	-1	99	21	99	2	-16	-3	254	260	99	2	-13	1	583	584	99
1	17	0	346	327	99	1	21	1	151	152	99	2	-20	0	93	40	99	2	-16	-2	108	204	99	2	-13	2	-152	17	99
1	17	1	241	234	99	1	21	2	132	55	99	2	-20	1	41	48	99	2	-16	-1	120	161	99	2	-13	3	278	240	99
1	17	2	90	103	99	1	21	3	-109	36	99	2	-20	2	113	52	99	2	-16	0	98	125	99	2	-13	4	-93	84	99
1	17	3	-99	36	99	1	21	4	68	15	99	2	-20	3	-224	33	99	2	-16	1	556	551	99	2	-13	5	318	330	99
1	17	4	-139	117	99	1	22	-5	123	52	99	2	-20	4	-159	49	99	2	-16	2	254	261	99	2	-13	6	-48	157	99
1	17	5	131	92	99	1	22	-4	-60	53	99	2	-20	5	135	106	99	2	-16	3	-113	37	99	2	-13	7	165	112	99
1	17	6	64	12	99	1	22	-3	-46	119	99	2	-20	6	172	50	99	2	-16	4	-72	143	99	2	-13	8	91	64	99
1	18	-8	95	93	99	1	22	-2	99	33	99	2	-19	-5	-200	31	99	2	-16	5	309	262	99	2	-13	9	54	122	99
1	18	-7	103	45	99	1	22	-1	-166	69	99	2	-19	-4	-68	41	99	2	-16	6	336	355	99	2	-12	-9	107	123	99
1	18	-6	183	54	99	1	22	0	92	51	99	2	-19	-3	102	12	99	2	-16	7	133	143	99	2	-12	-8	156	122	99
1	18	-5	124	14	99	1	22	1	189	211	99	2	-19	-2	128	6	99	2	-16	8	-132	79	99	2	-12	-7	99	82	99
1	18	-4	97	77	99	1	22	2	54	69	99	2	-19	-1	77	149	99	2	-15	-7	91	111	99	2	-12	-6	86	68	99
1	18	-3	114	180	99	1	22	3	-89	40	99	2	-19	0	111	97	99	2	-15	-6	-44	12	99	2	-12	-5	104	170	99
1	18	-2	44	60	99	1	23	-4	-39	161	99	2	-19	1	-142	42	99	2	-15	-5	-138	123	99	2	-12	-4	-94	27	99
2	-12	-3	105	99	99	2	-9	-5	263	252	99	2	-7	8	84	4	99	2	-4	0	196	171	99	2	-1	-8	358	380	99
2	-12	-2	205	184	99	2	-9	-4	118	83	99	2	-7	9	-130	18	99	2	-4	1	275	284	99	2	-1	-7	265	273	99
2	-12	-1	348	380	99	2	-9	-3	211	208	99	2	-7	10	105	93	99	2	-4	2	279	242	99	2	-1	-6	243	222	99
2	-12	0	163	175	99	2	-9	-2	160	198	99	2	-6	-10	-53	78	99	2	-4	3	122	83	99	2	-1	-5	446	448	99
2	-12	1	279	275	99	2	-9	-1	85	28	99	2	-6	-9	165	155	99	2	-4	4	639	656	99	2	-1	-4	1262	1267	99
2	-12	2	-89	88	99	2	-9	0	60	132	99	2	-6	-8	91	4	99	2	-4	5	222	267	99	2	-1	-3	167	173	99
2	-12	3	106	183	99	2	-9	1	755	779	99	2	-6	-7	-80	18	99	2	-4	6	337	326	99	2	-1	-2	382	369	99
2	-12	4	-35	36	99	2	-9	2	301	257	99	2	-6	-6	-155	15	99	2	-4	7	-123	41	99	2	-1	-1	560	545	99
2	-12	5	184	144	99	2	-9	3	661	637	99	2	-6	-5	80	20	99	2	-4	8	29	51	99	2	-1	0	162	144	99
2	-12	6	84	86	99	2	-9	4	358	364	99	2	-6	-4	626	612	99	2	-4	9	71	21	99	2	-1	1	676	681	99
2	-12	7	-37	58	99	2	-9	5	359	364	99	2	-6	-3	564	540	99	2	-4	10	88	185	99	2	-1	2	393	409	99
2	-12	8	111	21	99	2	-9	6	15	113	99	2	-6	-2	391	383	99	2	-3	-10	-80	79	99	2	-1	3	-83	38	99
2	-12	9	71	81	99	2	-9	7	168	162	99	2	-6	-1	212	210	99	2	-3	-9	123	87	99	2	-1	4	406	402	99
2	-11	-9	190	214	99	2	-9	8	123	109	99	2	-6	0	876	872	99	2	-3	-8	91	109	99	2	-1	5	67	63	99
2	-11	-8	192	267	99	2	-9	9	78	103	99	2	-6	1	481	483	99	2	-3	-7	114	128	99	2	-1	6	280	265	99
2	-11	-7	188	195	99	2	-9	10	106	121	99	2	-6	2	1045	1016	99	2	-3	-6	538	524	99	2	-1	7	196	186	99
2	-11	-6	-187	151	99	2	-8	-10	207	217	99	2	-6	3	617	625	99	2	-3	-5	51	125	99	2	-1	8	-117	27	99
2	-11	-5	278	247	99	2	-8	-9	169	233	99	2	-6	4	239	264	99	2	-3	-4	504	513	99	2	-1	9	142	106	99
2	-11	-4	212	163	99	2	-8	-8	101	91	99	2	-6	5	407	405	99	2	-3	-3	475	478	99	2	-1	10	-125	66	99
2	-11	-3	390	363	99	2	-8	-7	113	178	99	2	-6	6	473	460	99	2	-3	-2	1476	1498	99	2	0	-11	70	45	99
2	-11	-2	-107	88	99	2	-8	-6	377	359	99	2	-6	7	267	262	99	2	-3	-1	306	298	99	2	0	-10	-51	51	99
2	-11	-1	514	510	99	2	-8	-5	409	424	99	2	-6	8	134	53	99	2	-3	0	214	196	99	2	0	-9	309	340	99
2	-11	0	642	630	99	2	-8	-4	92	97	99	2	-6	9	126	43	99	2	-3	1	583	583	99	2	0	-8	219	226	99
2	-11	1	61	105	99	2	-8	-3	76	16	99	2	-6	10	-93	7	99	2	-3	2	104	128	99	2	0	-7	-22	97	99
2	-11	2	91	108	99	2	-8	-2	430	411	99	2	-5	-10	118	202	99	2	-3	3	804	790	99	2	0	-6	-119	16	99
2	-11	3	-14	2	99	2	-8	-1	903	913	99	2	-5	-9	113	199	99	2	-3	4	826	799	99	2	0	-5	974	981	99
2	-11	4	195	228	99	2	-8	0	384	364	99	2	-5	-8	-170	27	99	2	-3	5	512	541	99	2	0	-4	1934	1900	99
2	-11	5	136	151	99	2	-8	1	145	145	99	2	-5	-7	201	153	99	2	-3	6	82	44	99	2	0	-3	975	969	99
2	-11	6	117	99	99	2	-8	2	237	233	99	2	-5	-6	145	153	99	2	-3	7	197	207	99	2	0	-2	119	109	99
2	-11	7	107	34	99	2	-8	3	378	356	99	2	-5	-5	-70	66	99	2	-3	8	102	96	99	2	0	-1	724	668	99
2	-11	8	89	22	99	2	-8	4	383	373	99	2	-5	-4	-112	92	99	2	-3	9	80	31	99	2	0	0	1713	1589	99
2	-11	9	97	44	99	2	-8	5	-118	48	99	2	-5	-3	93	79	99	2	-3	10	-64	110	99	2	0	1	1536	1534	99
2	-10	-9	90	79	99	2	-8	6	-167	30	99	2	-5	-2	-91	30	99	2	-2	-10	26	57	99	2	0	2	396	368	99
2	-10	-8	115	229	99	2	-8	7	168	143	99	2	-5	-1	-92	101	99	2	-2	-9	-219	44	99	2	0	3	49	17	99
2	-10	-7	86	170	99	2	-8	8	97	91	99	2	-5	0	300	284	99	2	-2	-8	105	128	99	2	0	4	1065	1009	99
2	-10	-6	230	257	99	2	-8	9	96	91	99	2	-5	1	316	331	99	2	-2	-7	203	194	99	2	0	5	805	775	99
2	-10	-5	169	119	99	2	-8	10	94	20	99	2	-5	2	360	365	99	2	-2	-6	-87	38	99	2	0	6	212	194	99
2	-10	-4	366	362	99	2	-7	-10	70	135	99	2	-5	3	442	420	99	2	-2	-5	-130	123	99	2	0	7	63	85	99
2	-10	-3	659	667	99	2	-7	-9	99	23	99	2	-5	4	40	18	99	2	-2	-4	324	309	99	2	0	8	99	63	99
2	-10	-2	236	199	99	2	-7	-8	-87	25	99	2	-5	5	277	278	99	2	-2	-3	233	243	99	2	0	9	-115	7	99
2	-10	-1	429	449	99	2	-7	-7	239	199	99	2	-5	6	537	523	99	2	-2	-2	581	585	99	2	0	10	99	53	99
2	-10	0	626	608	99	2	-7	-6	324	309	99	2	-5	7	302	301	99	2	-2	-1	344	326	99	2	1	-11	124	11	99
2	-10	1	790	791	99	2	-7	-5	161	124	99	2	-5	8	-95	30	99	2	-2	0	679	654	99	2	1	-10	-89	41	99
2	-10	2	206	197	99	2	-7	-4	374	407	99	2	-5	9	115	68	99	2	-2	1	367	374	99	2	1	-9	127	96	99
2	-10	3	142	120	99	2	-7	-3	593	582	99	2	-5	10	157	174	99	2	-2	2	579	605	99	2	1	-8	-124	57	99
2	-10	4	75	24	99	2	-7	-2	893	874	99	2	-4	-10	167	207	99	2	-2	3	687	647	99	2	1	-7	113	105	99
2	-10	5	45	18	99	2	-7	-1	1065	1028	99	2	-4	-9	72	76	99	2	-2	4	245	262	99	2	1	-6	-20	134	99
2	-10	6	285	317	99	2	-7	0	70	86	99	2	-4	-8	-104	14	99	2	-2	5	430	404	99	2	1	-5	404	421	99
2	-10	7	-64	84	99	2	-7	1	170	169	99	2	-4	-7	-72	30	99	2	-2	6	235	246	99	2	1	-4	963	972	99
2	-10	8	121	19	99	2	-7	2	533	616	99	2	-4	-6	376	394	99	2	-2	7	257	294	99	2	1	-3	850	841	99
2	-10	9	89	4	99	2	-7	3	264	267	99	2	-4	-5	-35	190	99	2	-2	8	120	6	99	2	1	-2	761	784	99
2	-9	-9	179	213	99	2	-7	4	223	210	99	2	-4	-4	212	223	99	2	-2	9	70	70	99	2	1	-1	127	101	99
2	-9	-8	-132	7	99	2	-7	5	-72	115	99	2	-4	-3	527	514	99	2	-2	10	-135	22	99	2	1	0	1177	1149	99
2	-9	-7	44	65	99	2	-7	6	109	157	99	2	-4	-2	323	341	99	2	-1	-10	58	26	99	2	1	1	715	692	99
2	-9	-6	-154	16	99	2	-7	7	-118	73	99	2	-4	-1	667	694	99	2	-1	-9	203	229	99	2	1	2	471	467	99

h	k	l	Fo	Fc	sigF2
2	1	3	331	340	99
2	1	4	828	796	99
2	1	5	850	838	99
2	1	6	370	380	99
2	1	7	-124	49	99
2	1	8	189	146	99
2	1	9	170	176	99
2	1	10	-152	29	99
2	2	-11	80	9	99
2	2	-10	-45	5	99
2	2	-9	-60	196	99
2	2	-8	145	112	99
2	2	-7	-125	48	99
2	2	-6	58	32	99
2	2	-5	471	451	99
2	2	-4	918	887	99
2	2	-3	167	170	99
2	2	-2	372	391	99
2	2	-1	132	144	99
2	2	0	622	628	99
2	2	1	265	262	99
2	2	2	354	356	99
2	2	3	359	361	99
2	2	4	229	193	99
2	2	5	216	199	99
2	2	6	231	252	99
2	2	7	166	172	99
2	2	8	247	294	99
2	2	9	103	151	99
2	2	10	71	79	99
2	3	-11	-157	3	99
2	3	-10	83	18	99
2	3	-9	263	277	99
2	3	-8	175	133	99
2	3	-7	115	174	99
2	3	-6	172	130	99
2	3	-5	629	608	99
2	3	-4	1156	1117	99
2	3	-3	406	385	99
2	3	-2	1130	1181	99
2	3	-1	317	339	99
2	3	0	995	1119	99
2	3	1	1148	1225	99
2	3	2	289	276	99
2	3	3	76	11	99
2	3	4	369	362	99
2	3	5	257	264	99
2	3	6	306	282	99
2	3	7	212	257	99
2	3	8	149	153	99
2	3	9	-183	41	99
2	3	10	151	115	99
2	4	-11	-140	22	99
2	4	-10	-166	41	99
2	4	-9	87	97	99
2	4	-8	-152	106	99
2	4	-7	42	93	99
2	4	-6	65	200	99
2	4	-5	378	368	99
2	4	-4	753	725	99
2	4	-3	418	427	99
2	4	-2	-45	93	99
2	4	-1	73	55	99
2	4	0	163	177	99
2	4	1	363	370	99
2	4	2	1034	1060	99
2	4	3	117	93	99
2	4	4	347	358	99
2	4	5	229	206	99
2	4	6	223	213	99
2	4	7	94	80	99
2	4	8	-131	25	99
2	4	9	-61	19	99
2	4	10	76	147	99
2	5	-11	-93	81	99
2	5	-10	-15	152	99
2	5	-9	216	241	99
2	5	-8	169	171	99
2	5	-7	100	122	99
2	5	-6	95	46	99
2	5	-5	186	184	99
2	5	-4	570	548	99
2	5	-3	317	324	99
2	5	-2	413	418	99
2	5	-1	424	453	99
2	5	0	-76	66	99
2	5	1	124	105	99
2	5	2	529	541	99
2	5	3	264	265	99
2	5	4	109	158	99
2	5	5	130	57	99
2	5	6	-118	70	99
2	5	7	125	101	99
2	5	8	-58	94	99
2	5	9	96	91	99
2	5	10	-80	109	99
2	6	-10	73	196	99
2	6	-9	-81	291	99
2	6	-8	278	305	99
2	6	-7	240	241	99
2	6	-6	344	318	99
2	6	-5	790	735	99
2	6	-4	1097	1081	99
2	6	-3	151	128	99
2	6	-2	331	329	99
2	6	-1	-46	85	99
2	6	0	905	920	99
2	6	1	155	155	99
2	6	2	-60	33	99
2	6	3	251	255	99
2	6	4	-152	112	99
2	6	5	222	212	99
2	6	6	140	54	99
2	6	7	195	172	99
2	6	8	133	148	99
2	6	9	-139	75	99
2	7	-10	80	87	99
2	7	-9	138	88	99
2	7	-8	71	26	99
2	7	-7	608	604	99
2	7	-6	554	548	99
2	7	-5	531	508	99
2	7	-4	562	578	99
2	7	-3	528	509	99
2	7	-2	592	617	99
2	7	-1	638	673	99
2	7	0	602	644	99
2	7	1	518	522	99
2	7	2	892	923	99
2	7	3	244	249	99
2	7	4	375	370	99
2	7	5	158	190	99
2	7	6	68	82	99
2	7	7	44	35	99
2	7	8	78	31	99
2	7	9	-208	10	99
2	8	-10	-59	17	99
2	8	-9	-89	81	99
2	8	-8	174	152	99
2	8	-7	111	241	99
2	8	-6	341	302	99
2	8	-5	73	25	99
2	8	-4	285	266	99
2	8	-3	456	458	99
2	8	-2	764	744	99
2	8	-1	600	666	99
2	8	0	194	181	99
2	8	1	931	927	99
2	8	2	850	868	99
2	8	3	742	762	99
2	8	4	-92	20	99
2	8	5	-65	33	99
2	8	6	210	201	99
2	8	7	169	185	99
2	8	8	-91	77	99
2	8	9	-32	62	99
2	9	-10	-111	12	99
2	9	-9	-85	63	99
2	9	-8	143	55	99
2	9	-7	373	393	99
2	9	-6	104	131	99
2	9	-5	-68	36	99
2	9	-4	108	107	99
2	9	-3	328	300	99
2	9	-2	302	309	99
2	9	-1	221	258	99
2	9	0	457	448	99
2	9	1	496	499	99
2	9	2	235	235	99
2	9	3	801	762	99
2	9	4	168	142	99
2	9	5	350	336	99
2	9	6	242	233	99
2	9	7	204	256	99
2	9	8	128	106	99
2	9	9	97	92	99
2	10	-10	86	46	99
2	10	-9	-174	28	99
2	10	-8	183	177	99
2	10	-7	421	419	99
2	10	-6	193	140	99
2	10	-5	64	184	99
2	10	-4	96	112	99
2	10	-3	219	196	99
2	10	-2	353	378	99
2	10	-1	213	225	99
2	10	0	437	459	99
2	10	1	742	700	99
2	10	2	568	556	99
2	10	3	309	338	99
2	10	4	197	158	99
2	10	5	-183	88	99
2	10	6	65	75	99
2	10	7	176	91	99
2	10	8	123	110	99
2	10	9	-88	6	99
2	11	-10	42	65	99
2	11	-9	89	79	99
2	11	-8	224	210	99
2	11	-7	-121	120	99
2	11	-6	206	165	99
2	11	-5	293	301	99
2	11	-4	478	470	99
2	11	-3	94	73	99
2	11	-2	113	74	99
2	11	-1	189	207	99
2	11	0	708	702	99
2	11	1	898	868	99
2	11	2	533	532	99
2	11	3	126	113	99
2	11	4	292	267	99
2	11	5	289	326	99
2	11	6	99	150	99
2	11	7	74	60	99
2	11	8	93	120	99
2	12	-10	90	88	99
2	12	-9	131	47	99
2	12	-8	152	103	99
2	12	-7	60	45	99
2	12	-6	-106	8	99
2	12	-5	127	97	99
2	12	-4	420	434	99
2	12	-3	166	114	99
2	12	-2	107	34	99
2	12	-1	120	53	99
2	12	0	385	400	99
2	12	1	512	515	99
2	12	2	232	210	99
2	12	3	171	160	99
2	12	4	-64	70	99
2	12	5	436	439	99
2	12	6	-28	17	99
2	12	7	147	92	99
2	12	8	-132	76	99
2	13	-9	78	118	99
2	13	-8	-156	166	99
2	13	-7	353	351	99
2	13	-6	67	71	99
2	13	-5	368	335	99
2	13	-4	-168	34	99
2	13	-3	260	253	99
2	13	-2	151	104	99
2	13	-1	-76	129	99
2	13	0	106	52	99
2	13	1	105	71	99
2	13	2	134	144	99
2	13	3	86	166	99
2	13	4	-87	14	99
2	13	5	290	285	99
2	13	6	92	83	99
2	13	7	97	55	99
2	13	8	-99	18	99
2	14	-9	72	190	99
2	14	-8	251	306	99
2	14	-7	338	329	99
2	14	-6	48	117	99
2	14	-5	282	282	99
2	14	-4	496	475	99
2	14	-3	604	572	99
2	14	-2	208	238	99
2	14	-1	142	103	99
2	14	0	428	431	99
2	14	1	474	498	99
2	14	2	351	348	99
2	14	3	-45	56	99
2	14	4	138	67	99
2	14	5	90	20	99
2	14	6	-24	52	99
2	14	7	-146	22	99
2	15	-9	-100	40	99
2	15	-8	119	106	99
2	15	-7	75	9	99
2	15	-6	150	64	99
2	15	-5	117	96	99
2	15	-4	482	465	99
2	15	-3	185	143	99
2	15	-2	221	234	99
2	15	-1	-107	123	99
2	15	0	566	549	99
2	15	1	538	545	99
2	15	2	206	214	99
2	15	3	114	159	99
2	15	4	233	217	99
2	15	5	265	257	99
2	15	6	-116	26	99
2	15	7	83	43	99
2	16	-9	-118	133	99
2	16	-8	-26	101	99
2	16	-7	-171	90	99
2	16	-6	138	155	99
2	16	-5	376	355	99
2	16	-4	140	54	99
2	16	-3	-114	29	99
2	16	-2	256	252	99
2	16	-1	-24	223	99
2	16	0	-42	20	99
2	16	1	-70	9	99
2	16	2	-96	90	99
2	16	3	84	58	99
2	16	4	147	101	99
2	16	5	-37	133	99
2	16	6	104	68	99
2	16	7	-69	58	99
2	17	-8	32	113	99
2	17	-7	-173	29	99
2	17	-6	103	226	99
2	17	-5	354	379	99
2	17	-4	283	280	99
2	17	-3	29	46	99
2	17	-2	106	183	99
2	17	-1	342	352	99
2	17	0	230	235	99
2	17	1	201	165	99
2	17	2	-204	3	99
2	17	3	-138	104	99
2	17	4	150	97	99
2	17	5	-70	68	99
2	17	6	61	19	99
2	18	-8	116	59	99
2	18	-7	-179	25	99
2	18	-6	-143	53	99
2	18	-5	97	79	99
2	18	-4	41	141	99
2	18	-3	233	162	99
2	18	-2	510	455	99
2	18	-1	399	306	99
2	18	0	204	163	99
2	18	1	-56	16	99
2	18	2	222	185	99
2	18	3	196	197	99
2	18	4	84	109	99
2	18	5	-60	49	99
2	18	6	107	139	99
2	19	-7	-42	55	99
2	19	-6	100	38	99
2	19	-5	159	105	99
2	19	-4	-160	29	99
2	19	-3	-213	21	99
2	19	-2	219	248	99
2	19	-1	-130	71	99
2	19	0	-210	42	99
2	19	1	84	23	99
2	19	2	159	190	99
2	19	3	168	90	99
2	19	4	38	17	99
2	19	5	-100	27	99
2	20	-7	129	38	99
2	20	-6	-115	13	99
2	20	-5	127	110	99
2	20	-4	109	108	99
2	20	-3	66	16	99
2	20	-2	136	7	99
2	20	-1	76	27	99
2	20	0	-164	18	99
2	20	1	-155	36	99
2	20	2	126	125	99
2	20	3	-149	19	99
2	20	4	-89	17	99
2	21	-6	-65	82	99
2	21	-5	43	55	99
2	21	-4	40	132	99
2	21	-3	-138	31	99
2	21	-2	-134	175	99
2	21	-1	-144	21	99
2	21	0	117	13	99
2	21	1	55	86	99
2	21	2	89	10	99
2	21	3	-98	12	99
2	21	4	-123	45	99
2	22	-5	-231	49	99
2	22	-4	135	3	99
2	22	-3	-121	124	99
2	22	-2	252	234	99
2	22	-1	74	67	99
2	22	0	-13	17	99
2	22	1	96	28	99
2	22	2	147	172	99
2	22	3	-121	54	99
2	23	-4	123	9	99
2	23	-3	43	9	99
2	23	-2	86	39	99
2	23	-1	-97	31	99
2	23	0	49	16	99
2	23	1	68	60	99
2	23	2	102	121	99
2	24	-3	142	168	99
2	24	-2	208	186	99
2	24	-1	-61	5	99
2	24	0	67	105	99
3	-23	-1	-59	51	99
3	-23	0	-115	153	99
3	-23	1	-71	138	99
3	-23	2	207	176	99
3	-23	3	194	160	99
3	-22	-3	-91	5	99
3	-22	-2	-119	18	99
3	-22	-1	122	63	99
3	-22	0	30	72	99
3	-22	1	56	11	99
3	-22	2	156	49	99
3	-22	3	-150	140	99
3	-22	4	112	67	99
3	-21	-4	-155	65	99
3	-21	-3	-44	68	99
3	-21	-2	95	30	99
3	-21	-1	107	84	99
3	-21	0	108	125	99
3	-21	1	184	182	99
3	-21	2	130	111	99
3	-21	3	-170	39	99
3	-21	4	-75	73	99
3	-21	5	96	21	99
3	-20	-5	-95	3	99
3	-20	-4	174	181	99
3	-20	-3	82	114	99
3	-20	-2	-71	49	99
3	-20	-1	113	111	99
3	-20	0	124	97	99
3	-20	1	77	147	99
3	-20	2	-122	84	99
3	-20	3	79	63	99
3	-20	4	89	112	99
3	-20	5	191	122	99
3	-20	6	91	10	99
3	-19	-5	107	5	99
3	-19	-4	35	143	99
3	-19	-3	-44	52	99
3	-19	-2	-140	24	99
3	-19	-1	159	175	99
3	-19	0	129	89	99
3	-19	1	-126	96	99
3	-19	2	104	58	99
3	-19	3	182	147	99
3	-19	4	67	55	99
3	-19	5	202	163	99
3	-19	6	-107	42	99
3	-18	-6	126	46	99
3	-18	-5	49	83	99
3	-18	-4	97	205	99
3	-18	-3	-45	195	99
3	-18	-2	115	27	99
3	-18	-1	113	85	99
3	-18	0	95	70	99
3	-18	1	104	145	99
3	-18	2	66	190	99
3	-18	3	-224	33	99
3	-18	4	-40	13	99
3	-18	5	96	97	99
3	-18	6	114	50	99
3	-18	7	-108	4	99
3	-17	-7	92	110	99
3	-17	-6	-170	8	99
3	-17	-5	190	212	99
3	-17	-4	474	482	99
3	-17	-3	291	290	99
3	-17	-2	77	31	99
3	-17	-1	272	238	99
3	-17	0	408	419	99
3	-17	1	461	462	99
3	-17	2	226	221	99
3	-17	3	-147	57	99
3	-17	4	265	219	99
3	-17	5	79	197	99
3	-17	6	143	11	99
3	-17	7	-131	13	99
3	-16	-7	35	101	99
3	-16	-6	83	36	99
3	-16	-5	116	75	99
3	-16	-4	248	272	99
3	-16	-3	-201	23	99
3	-16	-2	54	96	99
3	-16	-1	286	294	99
3	-16	0	496	473	99
3	-16	1	114	187	99
3	-16	2	-93	3	99
3	-16	3	-107	123	99
3	-16	4	417	389	99
3	-16	5	422	388	99
3	-16	6	-98	29	99
3	-16	7	25	20	99
3	-16	8	105	64	99
3	-15	-7	120	115	99
3	-15	-6	-28	20	99
3	-15	-5	150	137	99
3	-15	-4	143	85	99
3	-15	-3	-56	26	99
3	-15	-2	91	129	99
3	-15	-1	-163	36	99
3	-15	0	-25	124	99
3	-15	1	248	216	99
3	-15	2	220	256	99
3	-15	3	95	201	99
3	-15	4	204	122	99
3	-15	5	213	162	99
3	-15	6	59	10	99
3	-15	7	-168	122	99
3	-15	8	-94	140	99
3	-14	-8	-197	118	99
3	-14	-7	33	26	99
3	-14	-6	-75	75	99
3	-14	-5	121	159	99
3	-14	-4	163	184	99
3	-14	-3	-32	104	99
3	-14	-2	379	361	99
3	-14	-1	145	137	99
3	-14	0	333	318	99
3	-14	1	-217	152	99
3	-14	2	193	206	99
3	-14	3	-153	129	99
3	-14	4	-164	89	99
3	-14	5	66	60	99
3	-14	6	95	102	99
3	-14	7	-217	40	99
3	-14	8	82	79	99
3	-13	-8	-172	18	99
3	-13	-7	-62	67	99
3	-13	-6	53	40	99
3	-13	-5	-159	36	99
3	-13	-4	-109	74	99
3	-13	-3	132	167	99
3	-13	-2	450	444	99
3	-13	-1	265	254	99
3	-13	0	-53	75	99
3	-13	1	223	168	99
3	-13	2	641	642	99
3	-13	3	141	34	99
3	-13	4	189	155	99
3	-13	5	27	108	99
3	-13	6	361	361	99
3	-13	7	144	147	99
3	-13	8	-215	16	99
3	-13	9	38	45	99
3	-12	-9	99	54	99
3	-12	-8	163	172	99
3	-12	-7	146	153	99
3	-12	-6	50	23	99
3	-12	-5	100	86	99
3	-12	-4	-180	28	99
3	-12	-3	-68	41	99
3	-12	-2	155	148	99
3	-12	-1	86	70	99
3	-12	0	100	45	99
3	-12	1	369	399	99
3	-12	2	699	678	99
3	-12	3	46	28	99
3	-12	4	43	82	99
3	-12	5	-174	9	99
3	-12	6	328	363	99
3	-12	7	216	223	99
3	-12	8	81	31	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	-12	9	-116	33	99	3	-9	7	379	379	99	3	-6	1	715	710	99	3	-3	-7	365	359	99	3	-1	5	183	142	99
3	-11	-9	117	173	99	3	-9	8	-159	54	99	3	-6	2	945	942	99	3	-3	-6	26	44	99	3	-1	6	130	158	99
3	-11	-8	99	205	99	3	-9	9	106	29	99	3	-6	3	423	415	99	3	-3	-5	731	751	99	3	-1	7	431	436	99
3	-11	-7	-210	13	99	3	-8	-10	107	48	99	3	-6	4	623	657	99	3	-3	-4	1129	1089	99	3	-1	8	165	156	99
3	-11	-6	111	230	99	3	-8	-9	-115	23	99	3	-6	5	536	541	99	3	-3	-3	729	716	99	3	-1	9	-93	98	99
3	-11	-5	193	202	99	3	-8	-8	125	30	99	3	-6	6	470	501	99	3	-3	-2	691	694	99	3	-1	10	103	63	99
3	-11	-4	416	403	99	3	-8	-7	119	109	99	3	-6	7	-103	118	99	3	-3	-1	86	53	99	3	0	-11	-96	27	99
3	-11	-3	141	83	99	3	-8	-6	99	15	99	3	-6	8	171	176	99	3	-3	0	1020	1056	99	3	0	-10	76	133	99
3	-11	-2	291	286	99	3	-8	-5	179	180	99	3	-6	9	111	82	99	3	-3	1	174	199	99	3	0	-9	193	185	99
3	-11	-1	308	284	99	3	-8	-4	235	214	99	3	-6	10	-117	73	99	3	-3	2	392	401	99	3	0	-8	-151	22	99
3	-11	0	118	134	99	3	-8	-3	36	41	99	3	-5	-10	125	83	99	3	-3	3	496	500	99	3	0	-7	176	210	99
3	-11	1	348	348	99	3	-8	-2	86	112	99	3	-5	-9	118	6	99	3	-3	4	557	557	99	3	0	-6	482	468	99
3	-11	2	363	380	99	3	-8	-1	107	76	99	3	-5	-8	104	11	99	3	-3	5	45	52	99	3	0	-5	1315	1290	99
3	-11	3	34	84	99	3	-8	0	177	142	99	3	-5	-7	92	84	99	3	-3	6	297	320	99	3	0	-4	230	203	99
3	-11	4	105	187	99	3	-8	1	441	433	99	3	-5	-6	-135	31	99	3	-3	7	243	212	99	3	0	-3	-97	14	99
3	-11	5	80	5	99	3	-8	2	398	386	99	3	-5	-5	41	175	99	3	-3	8	-44	76	99	3	0	-2	71	61	99
3	-11	6	126	99	99	3	-8	3	450	476	99	3	-5	-4	142	136	99	3	-3	9	64	122	99	3	0	-1	2449	2570	99
3	-11	7	-62	14	99	3	-8	4	27	100	99	3	-5	-3	210	207	99	3	-3	10	-133	23	99	3	0	0	321	330	99
3	-11	8	110	83	99	3	-8	5	372	363	99	3	-5	-2	386	407	99	3	-2	-10	-144	10	99	3	0	1	422	437	99
3	-11	9	63	55	99	3	-8	6	187	169	99	3	-5	-1	132	93	99	3	-2	-9	-141	48	99	3	0	2	-32	42	99
3	-10	-9	-8	87	99	3	-8	7	115	188	99	3	-5	0	432	434	99	3	-2	-8	77	69	99	3	0	3	620	595	99
3	-10	-8	-154	20	99	3	-8	8	87	55	99	3	-5	1	356	356	99	3	-2	-7	148	90	99	3	0	4	744	698	99
3	-10	-7	268	294	99	3	-8	9	108	114	99	3	-5	2	541	570	99	3	-2	-6	-90	16	99	3	0	5	-59	15	99
3	-10	-6	363	350	99	3	-7	-10	-10	12	99	3	-5	3	348	339	99	3	-2	-5	268	294	99	3	0	6	199	181	99
3	-10	-5	84	24	99	3	-7	-9	53	111	99	3	-5	4	566	577	99	3	-2	-4	841	842	99	3	0	7	305	308	99
3	-10	-4	201	217	99	3	-7	-8	187	147	99	3	-5	5	523	512	99	3	-2	-3	407	399	99	3	0	8	127	55	99
3	-10	-3	414	420	99	3	-7	-7	330	364	99	3	-5	6	108	121	99	3	-2	-2	273	281	99	3	0	9	102	58	99
3	-10	-2	1069	1091	99	3	-7	-6	-85	81	99	3	-5	7	168	164	99	3	-2	-1	188	196	99	3	0	10	-105	23	99
3	-10	-1	474	482	99	3	-7	-5	610	597	99	3	-5	8	113	215	99	3	-2	0	731	763	99	3	1	-11	-229	40	99
3	-10	0	450	438	99	3	-7	-4	791	777	99	3	-5	9	117	152	99	3	-2	1	748	782	99	3	1	-10	-76	48	99
3	-10	1	189	203	99	3	-7	-3	825	827	99	3	-5	10	136	133	99	3	-2	2	612	612	99	3	1	-9	78	67	99
3	-10	2	464	464	99	3	-7	-2	1264	1275	99	3	-4	-10	-109	86	99	3	-2	3	263	247	99	3	1	-8	-41	10	99
3	-10	3	184	157	99	3	-7	-1	-123	73	99	3	-4	-9	-143	138	99	3	-2	4	736	753	99	3	1	-7	229	239	99
3	-10	4	113	77	99	3	-7	0	589	581	99	3	-4	-8	56	192	99	3	-2	5	112	133	99	3	1	-6	360	361	99
3	-10	5	124	118	99	3	-7	1	759	762	99	3	-4	-7	295	284	99	3	-2	6	186	174	99	3	1	-5	1024	989	99
3	-10	6	249	190	99	3	-7	2	180	175	99	3	-4	-6	118	3	99	3	-2	7	72	119	99	3	1	-4	39	29	99
3	-10	7	102	197	99	3	-7	3	350	329	99	3	-4	-5	440	444	99	3	-2	8	-137	47	99	3	1	-3	459	445	99
3	-10	8	106	34	99	3	-7	4	293	295	99	3	-4	-4	115	103	99	3	-2	9	115	11	99	3	1	-2	488	504	99
3	-10	9	118	73	99	3	-7	5	133	26	99	3	-4	-3	887	869	99	3	-2	10	82	45	99	3	1	-1	1413	1428	99
3	-9	-9	81	55	99	3	-7	6	241	237	99	3	-4	-2	586	578	99	3	-1	-11	-95	7	99	3	1	0	1019	1022	99
3	-9	-8	-105	93	99	3	-7	7	-115	140	99	3	-4	-1	94	143	99	3	-1	-10	74	105	99	3	1	1	883	908	99
3	-9	-7	301	293	99	3	-7	8	103	78	99	3	-4	0	441	465	99	3	-1	-9	293	260	99	3	1	2	820	780	99
3	-9	-6	203	157	99	3	-7	9	103	82	99	3	-4	1	517	535	99	3	-1	-8	101	203	99	3	1	3	1602	1517	99
3	-9	-5	207	202	99	3	-7	10	-158	82	99	3	-4	2	183	169	99	3	-1	-7	-52	8	99	3	1	4	663	655	99
3	-9	-4	197	190	99	3	-6	-10	-132	44	99	3	-4	3	15	126	99	3	-1	-6	270	282	99	3	1	5	108	111	99
3	-9	-3	594	597	99	3	-6	-9	-47	67	99	3	-4	4	105	35	99	3	-1	-5	647	634	99	3	1	6	412	388	99
3	-9	-2	982	1018	99	3	-6	-8	-111	107	99	3	-4	5	279	286	99	3	-1	-4	529	525	99	3	1	7	162	186	99
3	-9	-1	248	256	99	3	-6	-7	401	371	99	3	-4	6	252	238	99	3	-1	-3	795	803	99	3	1	8	92	174	99
3	-9	0	211	210	99	3	-6	-6	63	115	99	3	-4	7	290	293	99	3	-1	-2	1194	1226	99	3	1	9	-81	5	99
3	-9	1	1188	1173	99	3	-6	-5	323	337	99	3	-4	8	146	134	99	3	-1	-1	244	254	99	3	1	10	-51	53	99
3	-9	2	1059	1053	99	3	-6	-4	326	349	99	3	-4	9	114	156	99	3	-1	0	685	676	99	3	2	-11	118	80	99
3	-9	3	583	576	99	3	-6	-3	779	747	99	3	-4	10	87	82	99	3	-1	1	38	82	99	3	2	-10	100	54	99
3	-9	4	-91	80	99	3	-6	-2	456	454	99	3	-3	-10	107	27	99	3	-1	2	611	615	99	3	2	-9	245	189	99
3	-9	5	76	189	99	3	-6	-1	458	428	99	3	-3	-9	122	182	99	3	-1	3	300	321	99	3	2	-8	81	94	99
3	-9	6	324	325	99	3	-6	0	956	973	99	3	-3	-8	251	265	99	3	-1	4	375	346	99	3	2	-7	98	72	99
3	2	-6	136	110	99	3	4	5	209	171	99	3	7	-2	433	449	99	3	10	-7	115	83	99	3	13	-9	80	119	99
3	2	-5	217	240	99	3	4	6	-122	95	99	3	7	-1	305	307	99	3	10	-6	178	230	99	3	13	-8	234	241	99
3	2	-4	-47	103	99	3	4	7	170	155	99	3	7	0	596	691	99	3	10	-5	-196	40	99	3	13	-7	-86	125	99
3	2	-3	444	458	99	3	4	8	93	30	99	3	7	1	1045	1071	99	3	10	-4	338	338	99	3	13	-6	126	137	99
3	2	-2	1336	1412	99	3	4	9	141	73	99	3	7	2	300	316	99	3	10	-3	235	238	99	3	13	-5	-99	17	99
3	2	-1	581	597	99	3	5	-11	-132	26	99	3	7	3	499	471	99	3	10	-2	544	571	99	3	13	-4	103	206	99
3	2	0	243	232	99	3	5	-10	-36	30	99	3	7	4	266	275	99	3	10	-1	339	349	99	3	13	-3	487	486	99
3	2	1	359	370	99	3	5	-9	99	94	99	3	7	5	230	224	99	3	10	0	78	52	99	3	13	-2	69	120	99
3	2	2	1138	1181	99	3	5	-8	85	243	99	3	7	6	-144	51	99	3	10	1	399	381	99	3	13	-1	-216	85	99
3	2	3	1069	1005	99	3	5	-7	149	142	99	3	7	7	-98	42	99	3	10	2	108	98	99	3	13	0	-125	42	99
3	2	4	176	170	99	3	5	-6	331	349	99	3	7	8	-58	121	99	3	10	3	6	59	99	3	13	1	110	114	99
3	2	5	127	141	99	3	5	-5	120	82	99	3	7	9	-129	7	99	3	10	4	337	313	99	3	13	2	304	264	99
3	2	6	629	628	99	3	5	-4	80	58	99	3	8	-10	57	14	99	3	10	5	-117	70	99	3	13	3	160	165	99
3	2	7	455	473	99	3	5	-3	878	884	99	3	8	-9	203	167	99	3	10	6	106	3	99	3	13	4	374	364	99
3	2	8	188	187	99	3	5	-2	666	677	99	3	8	-8	119	137	99	3	10	7	71	20	99	3	13	5	156	36	99
3	2	9	102	23	99	3	5	-1	234	239	99	3	8	-7	379	373	99	3	10	8	98	143	99	3	13	6	202	199	99
3	2	10	67	147	99	3	5	0	87	94	99	3	8	-6	67	124	99	3	11	-10	127	33	99	3	13	7	-102	96	99
3	3	-11	88	79	99	3	5	1	776	868	99	3	8	-5	282	315	99	3	11	-9	110	159	99	3	14	-9	161	207	99
3	3	-10	-26	67	99	3	5	2	710	714	99	3	8	-4	547	555	99	3	11	-8	95	183	99	3	14	-8	183	147	99
3	3	-9	-193	143	99	3	5	3	273	274	99	3	8	-3	427	441	99	3	11	-7	128	172	99	3	14	-7	96	41	99
3	3	-8	136	142	99	3	5	4	-86	44	99	3	8	-2	821	835	99	3	11	-6	-96	96	99	3	14	-6	163	151	99
3	3	-7	-84	108	99	3	5	5	188	176	99	3	8	-1	257	260	99	3	11	-5	99	84	99	3	14	-5	283	265	99
3	3	-6	52	130	99	3	5	6	178	218	99	3	8	0	1151	1229	99	3	11	-4	200	211	99	3	14	-4	21	139	99
3	3	-5	456	467	99	3	5	7	195	189	99	3	8	1	1173	1192	99	3	11	-3	135	89	99	3	14	-3	158	131	99
3	3	-4	133	113	99	3	5	8	94	82	99	3	8	2	757	763	99	3	11	-2	76	96	99	3	14	-2	-46	72	99
3	3	-3	229	235	99	3	5	9	82	150	99	3	8	3	380	370	99	3	11	-1	475	524	99	3	14	-1	257	258	99
3	3	-2	571	618	99	3	6	-11	-32	86	99	3	8	4	268	254	99	3	11	0	624	618	99	3	14	0	373	405	99
3	3	-1	1042	1065	99	3	6	-10	127	29	99	3	8	5	346	330	99	3	11	1	242	228	99	3	14	1	152	137	99
3	3	0	242	272	99	3	6	-9	56	29	99	3	8	6	318	297	99	3	11	2	154	144	99	3	14	2	114	141	99
3	3	1	169	156	99	3	6	-8	295	299	99	3	8	7	190	187	99	3	11	3	197	143	99	3	14	3	90	90	99
3	3	2	165	155	99	3	6	-7	338	299	99	3	8	8	115	21	99	3	11	4	145	86	99	3	14	4	129	159	99
3	3	3	165	182	99	3	6	-6	207	189	99	3	8	9	84	150	99	3	11	5	73	48	99	3	14	5	27	23	99
3	3	4	272	263	99	3	6	-5	262	279	99	3	9	-10	-136	109	99	3	11	6	47	74	99	3	14	6	-39	127	99
3	3	5	-131	91	99	3	6	-4	22	81	99	3	9	-9	113	8	99	3	11	7	-197	32	99	3	14	7	-109	40	99
3	3	6	308	314	99	3	6	-3	627	634	99	3	9	-8	-131	26	99	3	11	8	-32	62	99	3	15	-9	31	75	99
3	3	7	445	452	99	3	6	-2	614	627	99	3	9	-7	-174	55	99	3	12	-10	-59	72	99	3	15	-8	34	6	99
3	3	8	123	76	99	3	6	-1	27	9	99	3	9	-6	202	188	99	3	12	-9	68	81	99	3	15	-7	-103	117	99
3	3	9	32	5	99	3	6	0	189	243	99	3	9	-5	189	166	99	3	12	-8	-103	49	99	3	15	-6	59	101	99
3	3	10	57	122	99	3	6	1	419	442	99	3	9	-4	73	207	99	3	12	-7	102	2	99	3	15	-5	58	137	99
3	4	-11	-79	13	99	3	6	2	742	792	99	3	9	-3	223	216	99	3	12	-6	142	169	99	3	15	-4	-143	38	99
3	4	-10	-213	31	99	3	6	3	-66	105	99	3	9	-2	574	573	99	3	12	-5	308	290	99	3	15	-3	467	474	99
3	4	-9	49	5	99	3	6	4	297	288	99	3	9	-1	240	245	99	3	12	-4	117	74	99	3	15	-2	370	375	99
3	4	-8	287	301	99	3	6	5	107	111	99	3	9	0	883	848	99	3	12	-3	96	62	99	3	15	-1	433	471	99
3	4	-7	122	89	99	3	6	6	365	346	99	3	9	1	185	170	99	3	12	-2	95	87	99	3	15	0	516	524	99
3	4	-6	389	387	99	3	6	7	324	301	99	3	9	2	291	306	99	3	12	-1	187	233	99	3	15	1	163	157	99
3	4	-5	533	541	99	3	6	8	-175	99	99	3	9	3	-15	65	99	3	12	0	570	593	99	3	15	2	186	232	99
3	4	-4	94	20	99	3	6	9	145	127	99	3	9	4	497	505	99	3	12	1	99	65	99	3	15	3	171	161	99
3	4	-3	677	692	99	3	7	-10	85	39	99	3	9	5	234	211	99	3	12	2	34	159	99	3	15	4	201	220	99
3	4	-2	307	344	99	3	7	-9	59	186	99	3	9	6	155	165	99	3	12	3	151	162	99	3	15	5	-79	24	99
3	4	-1	280	286	99	3	7	-8	481	500	99	3	9	7	158	120	99	3	12	4	194	183	99	3	15	6	151	98	99
3	4	0	-21	110	99	3	7	-7	589	584	99	3	9	8	56	203	99	3	12	5	-140	54	99	3	15	7	71	65	99
3	4	1	552	585	99	3	7	-6	425	407	99	3	9	9	58	190	99	3	12	6	176	158	99	3	16	-9	88	21	99
3	4	2	754	741	99	3	7	-5	79	11	99	3	10	-10	95	120	99	3	12	7	-134	98	99	3	16	-8	91	47	99
3	4	3	394	395	99	3	7	-4	610	619	99	3	10	-9	124	120	99	3	12	8	145	168	99	3	16	-7	55	37	99
3	4	4	261	263	99	3	7	-3	1175	1207	99	3	10	-8	152	172	99	3	13	-10	-118	127	99	3	16	-6	98	104	99

h	k	l	Fo	Fc	sigF2
3	16	-5	-99	50	99
3	16	-4	202	174	99
3	16	-3	278	293	99
3	16	-2	105	106	99
3	16	-1	50	145	99
3	16	0	266	272	99
3	16	1	218	199	99
3	16	2	215	202	99
3	16	3	220	229	99
3	16	4	216	250	99
3	16	5	97	91	99
3	16	6	111	224	99
3	17	-8	97	131	99
3	17	-7	166	154	99
3	17	-6	153	99	99
3	17	-5	88	65	99
3	17	-4	314	337	99
3	17	-3	89	132	99
3	17	-2	219	171	99
3	17	-1	89	104	99
3	17	0	97	120	99
3	17	1	80	52	99
3	17	2	119	112	99
3	17	3	164	126	99
3	17	4	105	95	99
3	17	5	60	46	99
3	17	6	-74	74	99
3	18	-8	-98	66	99
3	18	-7	102	179	99
3	18	-6	90	39	99
3	18	-5	-63	45	99
3	18	-4	272	237	99
3	18	-3	432	365	99
3	18	-2	152	79	99
3	18	-1	93	27	99
3	18	0	122	104	99
3	18	1	230	265	99
3	18	2	162	190	99
3	18	3	44	67	99
3	18	4	-46	73	99
3	18	5	88	146	99
3	19	-7	111	73	99
3	19	-6	-60	20	99
3	19	-5	-85	42	99
3	19	-4	169	120	99
3	19	-3	348	360	99
3	19	-2	161	158	99
3	19	-1	139	14	99
3	19	0	7	16	99
3	19	1	96	186	99
3	19	2	179	159	99
3	19	3	92	6	99
3	19	4	87	17	99
3	19	5	179	199	99
3	20	-7	-153	54	99
3	20	-6	-142	21	99
3	20	-5	60	84	99
3	20	-4	-231	18	99
3	20	-3	-135	49	99
3	20	-2	-131	129	99
3	20	-1	-62	31	99
3	20	0	-146	17	99
3	20	1	45	51	99
3	20	2	-51	109	99
3	20	3	-65	58	99
3	20	4	56	5	99
3	21	-6	-185	50	99
3	21	-5	29	15	99
3	21	-4	107	101	99
3	21	-3	280	261	99
3	21	-2	-172	39	99
3	21	-1	-97	13	99
3	21	0	135	60	99
3	21	1	-178	36	99
3	21	2	88	34	99
3	21	3	-109	21	99
3	22	-5	62	16	99
3	22	-4	-138	80	99
3	22	-3	235	273	99
3	22	-2	110	92	99
3	22	-1	-151	33	99
3	22	0	-59	26	99
3	22	1	55	99	99
3	22	2	91	114	99
3	23	-4	87	40	99
3	23	-3	-261	38	99
3	23	-2	132	13	99
3	23	-1	-187	16	99
3	23	0	60	9	99
3	23	1	78	37	99
3	24	-2	-89	28	99
3	24	-1	99	122	99
4	-23	-1	-57	98	99
4	-23	0	132	154	99
4	-23	1	103	92	99
4	-23	2	65	87	99
4	-22	-3	-84	28	99
4	-22	-2	113	47	99
4	-22	-1	-89	25	99
4	-22	0	-96	22	99
4	-22	1	-81	32	99
4	-22	2	117	12	99
4	-22	3	138	132	99
4	-21	-4	116	12	99
4	-21	-3	-50	42	99
4	-21	-2	-83	7	99
4	-21	-1	-134	6	99
4	-21	0	96	58	99
4	-21	1	-59	28	99
4	-21	2	-231	8	99
4	-21	3	114	80	99
4	-21	4	-77	88	99
4	-21	5	-104	57	99
4	-20	-5	-171	84	99
4	-20	-4	70	76	99
4	-20	-3	-130	57	99
4	-20	-2	-151	96	99
4	-20	-1	-51	17	99
4	-20	0	-180	100	99
4	-20	1	151	9	99
4	-20	2	-161	5	99
4	-20	3	-183	12	99
4	-20	4	106	51	99
4	-20	5	109	97	99
4	-19	-5	-14	119	99
4	-19	-4	-14	76	99
4	-19	-3	107	29	99
4	-19	-2	96	37	99
4	-19	-1	88	72	99
4	-19	0	186	174	99
4	-19	1	-95	49	99
4	-19	2	-180	31	99
4	-19	3	123	151	99
4	-19	4	268	274	99
4	-19	5	-71	65	99
4	-19	6	-157	61	99
4	-18	-6	58	21	99
4	-18	-5	-104	9	99
4	-18	-4	-38	71	99
4	-18	-3	100	39	99
4	-18	-2	-129	42	99
4	-18	-1	-142	57	99
4	-18	0	13	14	99
4	-18	1	131	97	99
4	-18	2	121	93	99
4	-18	3	123	121	99
4	-18	4	213	208	99
4	-18	5	-133	10	99
4	-18	6	-152	51	99
4	-17	-6	-153	100	99
4	-17	-5	-147	103	99
4	-17	-4	-100	25	99
4	-17	-3	242	233	99
4	-17	-2	-45	111	99
4	-17	-1	305	290	99
4	-17	0	125	281	99
4	-17	1	98	8	99
4	-17	2	27	42	99
4	-17	3	39	137	99
4	-17	4	140	86	99
4	-17	5	26	56	99
4	-17	6	-61	4	99
4	-17	7	-151	73	99
4	-16	-7	40	127	99
4	-16	-6	140	72	99
4	-16	-5	-104	215	99
4	-16	-4	-24	81	99
4	-16	-3	454	473	99
4	-16	-2	276	272	99
4	-16	-1	295	260	99
4	-16	0	67	137	99
4	-16	1	336	335	99
4	-16	2	483	475	99
4	-16	3	374	380	99
4	-16	4	221	240	99
4	-16	5	130	163	99
4	-16	6	-65	212	99
4	-16	7	98	103	99
4	-15	-7	80	38	99
4	-15	-6	-49	81	99
4	-15	-5	174	240	99
4	-15	-4	118	128	99
4	-15	-3	-89	36	99
4	-15	-2	74	135	99
4	-15	-1	69	104	99
4	-15	0	-71	66	99
4	-15	1	385	356	99
4	-15	2	422	403	99
4	-15	3	380	341	99
4	-15	4	98	171	99
4	-15	5	10	169	99
4	-15	6	312	334	99
4	-15	7	172	193	99
4	-15	8	-156	61	99
4	-14	-8	104	10	99
4	-14	-7	-135	39	99
4	-14	-6	102	49	99
4	-14	-5	135	97	99
4	-14	-4	273	229	99
4	-14	-3	296	321	99
4	-14	-2	-238	12	99
4	-14	-1	227	252	99
4	-14	0	120	44	99
4	-14	1	168	169	99
4	-14	2	100	81	99
4	-14	3	182	153	99
4	-14	4	86	150	99
4	-14	5	-68	147	99
4	-14	6	131	38	99
4	-14	7	-26	153	99
4	-14	8	82	5	99
4	-13	-8	131	28	99
4	-13	-7	79	72	99
4	-13	-6	-93	27	99
4	-13	-5	170	98	99
4	-13	-4	182	167	99
4	-13	-3	389	389	99
4	-13	-2	66	43	99
4	-13	-1	39	47	99
4	-13	0	-154	22	99
4	-13	1	397	410	99
4	-13	2	-27	155	99
4	-13	3	102	16	99
4	-13	4	-72	79	99
4	-13	5	328	326	99
4	-13	6	149	200	99
4	-13	7	-91	106	99
4	-13	8	119	6	99
4	-12	-8	100	63	99
4	-12	-7	-176	84	99
4	-12	-6	143	139	99
4	-12	-5	107	90	99
4	-12	-4	107	55	99
4	-12	-3	323	332	99
4	-12	-2	213	196	99
4	-12	-1	63	164	99
4	-12	0	248	220	99
4	-12	1	366	355	99
4	-12	2	243	238	99
4	-12	3	164	105	99
4	-12	4	127	52	99
4	-12	5	123	194	99
4	-12	6	259	229	99
4	-12	7	142	44	99
4	-12	8	30	61	99
4	-11	-9	39	15	99
4	-11	-8	56	92	99
4	-11	-7	205	131	99
4	-11	-6	112	48	99
4	-11	-5	-109	77	99
4	-11	-4	376	354	99
4	-11	-3	258	287	99
4	-11	-2	163	164	99
4	-11	-1	104	100	99
4	-11	0	399	386	99
4	-11	1	96	85	99
4	-11	2	104	39	99
4	-11	3	199	178	99
4	-11	4	-110	64	99
4	-11	5	-36	25	99
4	-11	6	-86	36	99
4	-11	7	69	16	99
4	-11	8	-38	168	99
4	-11	9	173	136	99
4	-10	-9	-198	29	99
4	-10	-8	224	226	99
4	-10	-7	323	282	99
4	-10	-6	104	62	99
4	-10	-5	124	162	99
4	-10	-4	642	618	99
4	-10	-3	932	959	99
4	-10	-2	380	377	99
4	-10	-1	116	40	99
4	-10	0	46	56	99
4	-10	1	394	398	99
4	-10	2	399	391	99
4	-10	3	228	153	99
4	-10	4	114	170	99
4	-10	5	-66	45	99
4	-10	6	212	216	99
4	-10	7	-103	28	99
4	-10	8	50	149	99
4	-10	9	87	114	99
4	-9	-9	-170	8	99
4	-9	-8	60	118	99
4	-9	-7	-38	123	99
4	-9	-6	-207	8	99
4	-9	-5	116	56	99
4	-9	-4	282	325	99
4	-9	-3	593	613	99
4	-9	-2	248	282	99
4	-9	-1	422	407	99
4	-9	0	643	638	99
4	-9	1	651	664	99
4	-9	2	324	373	99
4	-9	3	130	190	99
4	-9	4	-30	48	99
4	-9	5	306	301	99
4	-9	6	458	444	99
4	-9	7	80	52	99
4	-9	8	61	23	99
4	-9	9	-154	40	99
4	-8	-10	152	109	99
4	-8	-9	105	71	99
4	-8	-8	-171	53	99
4	-8	-7	54	15	99
4	-8	-6	227	182	99
4	-8	-5	355	358	99
4	-8	-4	103	139	99
4	-8	-3	240	213	99
4	-8	-2	87	48	99
4	-8	-1	195	165	99
4	-8	0	470	446	99
4	-8	1	421	418	99
4	-8	2	290	266	99
4	-8	3	228	206	99
4	-8	4	284	310	99
4	-8	5	322	275	99
4	-8	6	145	151	99
4	-8	7	-143	114	99
4	-8	8	156	216	99
4	-8	9	200	208	99
4	-7	-10	-97	63	99
4	-7	-9	-61	15	99
4	-7	-8	48	70	99
4	-7	-7	107	29	99
4	-7	-6	508	470	99
4	-7	-5	325	348	99
4	-7	-4	77	64	99
4	-7	-3	548	521	99
4	-7	-2	164	168	99
4	-7	-1	496	486	99
4	-7	0	525	511	99
4	-7	1	-21	16	99
4	-7	2	51	85	99
4	-7	3	95	110	99
4	-7	4	-18	92	99
4	-7	5	111	101	99
4	-7	6	207	187	99
4	-7	7	-75	59	99
4	-7	8	196	172	99
4	-7	9	72	203	99
4	-6	-10	31	6	99
4	-6	-9	57	75	99
4	-6	-8	-144	6	99
4	-6	-7	-179	44	99
4	-6	-6	318	307	99
4	-6	-5	92	124	99
4	-6	-4	248	246	99
4	-6	-3	239	205	99
4	-6	-2	427	435	99
4	-6	-1	958	918	99
4	-6	0	130	143	99
4	-6	1	291	287	99
4	-6	2	1034	1032	99
4	-6	3	605	626	99
4	-6	4	53	33	99
4	-6	5	96	83	99
4	-6	6	149	108	99
4	-6	7	101	128	99
4	-6	8	-119	47	99
4	-6	9	-161	113	99
4	-5	-10	-90	56	99
4	-5	-9	62	15	99
4	-5	-8	130	9	99
4	-5	-7	126	87	99
4	-5	-6	-139	7	99
4	-5	-5	100	8	99
4	-5	-4	-184	5	99
4	-5	-3	48	40	99
4	-5	-2	275	273	99
4	-5	-1	901	894	99
4	-5	0	536	523	99
4	-5	1	138	163	99
4	-5	2	697	741	99
4	-5	3	382	408	99
4	-5	4	252	206	99
4	-5	5	92	111	99
4	-5	6	445	425	99
4	-5	7	116	213	99
4	-5	8	185	201	99
4	-5	9	93	5	99
4	-4	-10	151	114	99
4	-4	-9	70	11	99
4	-4	-8	89	6	99
4	-4	-7	65	13	99
4	-4	-6	193	210	99
4	-4	-5	88	96	99
4	-4	-4	-95	52	99
4	-4	-3	395	372	99
4	-4	-2	196	203	99
4	-4	-1	302	302	99
4	-4	0	384	389	99
4	-4	1	68	31	99
4	-4	2	126	156	99
4	-4	3	396	400	99
4	-4	4	335	343	99
4	-4	5	86	76	99
4	-4	6	533	564	99
4	-4	7	205	171	99
4	-4	8	118	216	99
4	-4	9	156	139	99
4	-3	-10	111	103	99
4	-3	-9	-132	13	99
4	-3	-8	73	81	99
4	-3	-7	306	289	99
4	-3	-6	488	498	99
4	-3	-5	173	165	99
4	-3	-4	351	339	99
4	-3	-3	473	446	99
4	-3	-2	172	161	99
4	-3	-1	122	137	99
4	-3	0	98	62	99
4	-3	1	549	523	99
4	-3	2	85	29	99
4	-3	3	123	121	99
4	-3	4	96	94	99
4	-3	5	-5	116	99
4	-3	6	382	368	99
4	-3	7	-101	14	99
4	-3	8	-110	112	99
4	-3	9	-76	140	99
4	-2	-10	-19	18	99
4	-2	-9	67	51	99
4	-2	-8	-49	60	99
4	-2	-7	203	183	99
4	-2	-6	444	455	99
4	-2	-5	-110	29	99
4	-2	-4	103	100	99
4	-2	-3	585	562	99
4	-2	-2	682	675	99
4	-2	-1	420	425	99
4	-2	0	622	658	99
4	-2	1	676	698	99
4	-2	2	795	790	99
4	-2	3	666	661	99
4	-2	4	225	179	99
4	-2	5	81	87	99
4	-2	6	149	75	99
4	-2	7	194	218	99
4	-2	8	100	6	99
4	-2	9	-88	23	99
4	-1	-11	-67	78	99
4	-1	-10	-41	85	99
4	-1	-9	181	163	99
4	-1	-8	306	285	99
4	-1	-7	252	253	99
4	-1	-6	215	216	99
4	-1	-5	-96	84	99
4	-1	-4	68	90	99
4	-1	-3	753	720	99
4	-1	-2	401	416	99
4	-1	-1	225	242	99
4	-1	0	1235	1274	99
4	-1	1	268	282	99
4	-1	2	965	957	99
4	-1	3	594	586	99
4	-1	4	184	176	99
4	-1	5	189	222	99
4	-1	6	450	446	99
4	-1	7	191	224	99
4	-1	8	30	83	99
4	-1	9	67	108	99
4	0	-11	100	44	99
4	0	-10	116	10	99
4	0	-9	240	248	99
4	0	-8	508	520	99
4	0	-7	492	478	99
4	0	-6	378	389	99
4	0	-5	412	402	99
4	0	-4	1019	1022	99
4	0	-3	470	498	99
4	0	-2	446	437	99
4	0	-1	54	109	99
4	0	0	1639	1666	99
4	0	1	1000	1024	99
4	0	2	259	248	99
4	0	3	268	253	99
4	0	4	288	265	99
4	0	5	-84	40	99
4	0	6	300	337	99
4	0	7	54	20	99
4	0	8	89	54	99
4	0	9	114	75	99
4	1	-11	-147	4	99
4	1	-10	92	37	99
4	1	-9	184	157	99
4	1	-8	263	249	99
4	1	-7	352	345	99
4	1	-6	125	158	99
4	1	-5	-118	99	99
4	1	-4	808	817	99
4	1	-3	622	616	99
4	1	-2	467	463	99
4	1	-1	290	274	99
4	1	0	1130	1149	99
4	1	1	1149	1187	99
4	1	2	1012	1034	99
4	1	3	714	623	99
4	1	4	375	365	99
4	1	5	354	349	99
4	1	6	95	74	99
4	1	7	-60	87	99
4	1	8	-44	46	99
4	1	9	67	67	99
4	2	-11	-92	28	99
4	2	-10	35	5	99
4	2	-9	-46	41	99
4	2	-8	219	121	99
4	2	-7	186	202	99
4	2	-6	-180	116	99
4	2	-5	234	265	99
4	2	-4	195	195	99
4	2	-3	323	323	99
4	2	-2	78	140	99
4	2	-1	566	593	99
4	2	0	-62	61	99
4	2	1	51	63	99
4	2	2	719	681	99
4	2	3	230	214	99
4	2	4	320	346	99
4	2	5	515	488	99
4	2	6	258	250	99
4	2	7	117	35	99
4	2	8	76	138	99
4	2	9	76	91	99
4	3	-11	69	19	99
4	3	-10	108	9	99
4	3	-9	222	219	99
4	3	-8	320	332	99
4	3	-7	81	61	99
4	3	-6	-59	48	99
4	3	-5	85	53	99
4	3	-4	177	195	99
4	3	-3	538	529	99
4	3	-2	315	315	99
4	3	-1	-29	118	99
4	3	0	561	585	99
4	3	1	179	171	99
4	3	2	486	466	99
4	3	3	364	351	99
4	3	4	114	141	99
4	3	5	375	373	99
4	3	6	323	303	99
4	3	7	-147	7	99
4	3	8	-136	139	99
4	3	9	54	81	99
4	4	-11	-105	22	99
4	4	-10	117	13	99
4	4	-9	174	195	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	4	-8	200	221	99	4	6	5	-168	23	99	4	9	1	303	300	99	4	12	-1	540	551	99	4	15	2	72	103	99
4	4	-7	397	412	99	4	6	6	167	185	99	4	9	2	417	387	99	4	12	0	363	315	99	4	15	3	76	23	99
4	4	-6	292	256	99	4	6	7	185	183	99	4	9	3	614	644	99	4	12	1	501	481	99	4	15	4	144	81	99
4	4	-5	214	190	99	4	6	8	83	130	99	4	9	4	100	133	99	4	12	2	80	61	99	4	15	5	133	149	99
4	4	-4	748	744	99	4	6	9	-78	40	99	4	9	5	179	163	99	4	12	3	57	37	99	4	15	6	98	62	99
4	4	-3	188	183	99	4	7	-10	171	180	99	4	9	6	116	122	99	4	12	4	160	166	99	4	16	-9	-46	135	99
4	4	-2	116	126	99	4	7	-9	129	263	99	4	9	7	280	279	99	4	12	5	248	253	99	4	16	-8	93	16	99
4	4	-1	217	215	99	4	7	-8	231	234	99	4	9	8	248	227	99	4	12	6	-59	100	99	4	16	-7	-60	62	99
4	4	0	782	830	99	4	7	-7	83	140	99	4	10	-10	-82	35	99	4	12	7	-91	47	99	4	16	-6	29	34	99
4	4	1	102	86	99	4	7	-6	99	120	99	4	10	-9	79	25	99	4	13	-10	-126	56	99	4	16	-5	177	100	99
4	4	2	276	257	99	4	7	-5	440	421	99	4	10	-8	117	46	99	4	13	-9	81	1	99	4	16	-4	-37	130	99
4	4	3	89	69	99	4	7	-4	590	604	99	4	10	-7	122	75	99	4	13	-8	-183	11	99	4	16	-3	-222	28	99
4	4	4	147	75	99	4	7	-3	325	327	99	4	10	-6	151	146	99	4	13	-7	185	169	99	4	16	-2	116	27	99
4	4	5	290	247	99	4	7	-2	573	550	99	4	10	-5	-27	15	99	4	13	-6	95	10	99	4	16	-1	-134	96	99
4	4	6	265	265	99	4	7	-1	384	380	99	4	10	-4	84	169	99	4	13	-5	-135	16	99	4	16	0	-86	69	99
4	4	7	157	131	99	4	7	0	115	185	99	4	10	-3	369	383	99	4	13	-4	198	183	99	4	16	1	286	245	99
4	4	8	-103	45	99	4	7	1	498	518	99	4	10	-2	380	373	99	4	13	-3	284	263	99	4	16	2	80	9	99
4	4	9	82	84	99	4	7	2	287	318	99	4	10	-1	448	427	99	4	13	-2	87	12	99	4	16	3	69	36	99
4	5	-11	-123	29	99	4	7	3	-28	102	99	4	10	0	201	217	99	4	13	-1	478	499	99	4	16	4	52	86	99
4	5	-10	67	62	99	4	7	4	126	99	99	4	10	1	115	63	99	4	13	0	89	74	99	4	16	5	162	160	99
4	5	-9	139	99	99	4	7	5	110	23	99	4	10	2	81	16	99	4	13	1	275	249	99	4	16	6	-148	48	99
4	5	-8	-140	165	99	4	7	6	250	241	99	4	10	3	531	528	99	4	13	2	99	71	99	4	17	-8	-9	116	99
4	5	-7	281	293	99	4	7	7	-115	113	99	4	10	4	119	54	99	4	13	3	166	112	99	4	17	-7	-33	21	99
4	5	-6	222	232	99	4	7	8	118	128	99	4	10	5	-98	132	99	4	13	4	48	19	99	4	17	-6	-134	131	99
4	5	-5	97	121	99	4	7	9	-229	44	99	4	10	6	128	84	99	4	13	5	177	120	99	4	17	-5	332	298	99
4	5	-4	96	42	99	4	8	-10	-19	106	99	4	10	7	199	209	99	4	13	6	-108	28	99	4	17	-4	226	251	99
4	5	-3	375	351	99	4	8	-9	51	38	99	4	10	8	119	143	99	4	13	7	53	48	99	4	17	-3	-133	100	99
4	5	-2	414	428	99	4	8	-8	0	28	99	4	11	-10	65	90	99	4	14	-9	83	72	99	4	17	-2	99	90	99
4	5	-1	-102	111	99	4	8	-7	253	282	99	4	11	-9	-121	30	99	4	14	-8	269	260	99	4	17	-1	-97	91	99
4	5	0	252	268	99	4	8	-6	168	177	99	4	11	-8	111	143	99	4	14	-7	274	302	99	4	17	0	195	200	99
4	5	1	167	170	99	4	8	-5	400	386	99	4	11	-7	90	69	99	4	14	-6	180	188	99	4	17	1	-105	63	99
4	5	2	434	457	99	4	8	-4	154	111	99	4	11	-6	107	82	99	4	14	-5	87	45	99	4	17	2	70	19	99
4	5	3	74	70	99	4	8	-3	426	412	99	4	11	-5	-211	95	99	4	14	-4	294	260	99	4	17	3	-91	53	99
4	5	4	247	219	99	4	8	-2	1183	1138	99	4	11	-4	550	532	99	4	14	-3	602	603	99	4	17	4	-55	28	99
4	5	5	-79	63	99	4	8	-1	1141	1122	99	4	11	-3	476	491	99	4	14	-2	449	453	99	4	17	5	-92	51	99
4	5	6	122	55	99	4	8	0	177	208	99	4	11	-2	387	387	99	4	14	-1	126	138	99	4	17	6	-180	9	99
4	5	7	190	129	99	4	8	1	153	134	99	4	11	-1	-92	53	99	4	14	0	177	96	99	4	18	-8	108	108	99
4	5	8	-95	41	99	4	8	2	224	195	99	4	11	0	331	336	99	4	14	1	114	169	99	4	18	-7	-112	23	99
4	5	9	106	80	99	4	8	3	410	408	99	4	11	1	411	416	99	4	14	2	125	30	99	4	18	-6	-102	133	99
4	6	-11	-164	56	99	4	8	4	238	223	99	4	11	2	117	111	99	4	14	3	95	20	99	4	18	-5	168	155	99
4	6	-10	53	61	99	4	8	5	96	105	99	4	11	3	231	198	99	4	14	4	98	44	99	4	18	-4	247	208	99
4	6	-9	320	321	99	4	8	6	68	142	99	4	11	4	152	177	99	4	14	5	-19	21	99	4	18	-3	88	62	99
4	6	-8	437	421	99	4	8	7	74	116	99	4	11	5	275	298	99	4	14	6	114	22	99	4	18	-2	225	146	99
4	6	-7	61	2	99	4	8	8	-69	61	99	4	11	6	183	197	99	4	14	7	99	11	99	4	18	-1	-107	128	99
4	6	-6	-32	119	99	4	9	-10	-114	7	99	4	11	7	-158	58	99	4	15	-9	-90	20	99	4	18	0	256	250	99
4	6	-5	76	174	99	4	9	-9	-144	18	99	4	11	8	-129	4	99	4	15	-8	219	240	99	4	18	1	100	102	99
4	6	-4	463	485	99	4	9	-8	-37	17	99	4	12	-10	76	57	99	4	15	-7	93	103	99	4	18	2	310	294	99
4	6	-3	280	265	99	4	9	-7	58	50	99	4	12	-9	152	47	99	4	15	-6	-137	6	99	4	18	3	159	193	99
4	6	-2	391	384	99	4	9	-6	-154	89	99	4	12	-8	114	200	99	4	15	-5	-114	86	99	4	18	4	-68	83	99
4	6	-1	420	431	99	4	9	-5	35	61	99	4	12	-7	-37	9	99	4	15	-4	467	437	99	4	18	5	95	68	99
4	6	0	78	51	99	4	9	-4	-41	31	99	4	12	-6	209	234	99	4	15	-3	494	458	99	4	19	-7	55	46	99
4	6	1	-74	8	99	4	9	-3	-71	129	99	4	12	-5	99	43	99	4	15	-2	297	336	99	4	19	-6	96	112	99
4	6	2	191	180	99	4	9	-2	69	61	99	4	12	-4	503	498	99	4	15	-1	181	234	99	4	19	-5	-158	69	99
4	6	3	278	268	99	4	9	-1	805	814	99	4	12	-3	177	190	99	4	15	0	253	232	99	4	19	-4	102	120	99
4	6	4	290	285	99	4	9	0	75	99	99	4	12	-2	306	315	99	4	15	1	504	472	99	4	19	-3	150	11	99
4	19	-2	175	124	99	5	-21	3	88	114	99	5	-16	-1	129	25	99	5	-13	6	-60	212	99	5	-10	8	-68	163	99
4	19	-1	-144	17	99	5	-21	4	135	32	99	5	-16	0	494	465	99	5	-13	7	102	6	99	5	-10	9	-88	53	99
4	19	0	114	82	99	5	-20	-4	106	67	99	5	-16	1	458	412	99	5	-13	8	97	89	99	5	-9	-9	88	3	99
4	19	1	72	33	99	5	-20	-3	-83	29	99	5	-16	2	67	143	99	5	-12	-8	-108	22	99	5	-9	-8	80	90	99
4	19	2	269	282	99	5	-20	-2	152	97	99	5	-16	3	104	65	99	5	-12	-7	-202	36	99	5	-9	-7	291	278	99
4	19	3	-107	145	99	5	-20	-1	-61	154	99	5	-16	4	265	206	99	5	-12	-6	-161	18	99	5	-9	-6	365	327	99
4	19	4	-105	80	99	5	-20	0	100	81	99	5	-16	5	249	286	99	5	-12	-5	43	61	99	5	-9	-5	237	228	99
4	20	-7	84	29	99	5	-20	1	-100	85	99	5	-16	6	79	13	99	5	-12	-4	17	76	99	5	-9	-4	-154	10	99
4	20	-6	41	31	99	5	-20	2	108	19	99	5	-16	7	65	25	99	5	-12	-3	122	78	99	5	-9	-3	785	802	99
4	20	-5	-74	21	99	5	-20	3	-89	31	99	5	-15	-7	73	21	99	5	-12	-2	384	371	99	5	-9	-2	819	827	99
4	20	-4	95	21	99	5	-20	4	66	51	99	5	-15	-6	-87	84	99	5	-12	-1	53	121	99	5	-9	-1	570	548	99
4	20	-3	122	52	99	5	-20	5	107	21	99	5	-15	-5	-169	85	99	5	-12	0	-92	85	99	5	-9	0	192	183	99
4	20	-2	-200	122	99	5	-19	-5	-15	67	99	5	-15	-4	24	25	99	5	-12	1	58	107	99	5	-9	1	161	187	99
4	20	-1	-134	41	99	5	-19	-4	-76	32	99	5	-15	-3	171	164	99	5	-12	2	334	313	99	5	-9	2	674	652	99
4	20	0	-87	7	99	5	-19	-3	-74	41	99	5	-15	-2	246	168	99	5	-12	3	201	219	99	5	-9	3	583	565	99
4	20	1	-106	32	99	5	-19	-2	114	75	99	5	-15	-1	100	135	99	5	-12	4	198	177	99	5	-9	4	282	268	99
4	20	2	92	86	99	5	-19	-1	-18	170	99	5	-15	0	245	160	99	5	-12	5	-32	43	99	5	-9	5	137	99	99
4	20	3	-29	53	99	5	-19	0	108	21	99	5	-15	1	222	208	99	5	-12	6	281	269	99	5	-9	6	283	249	99
4	20	4	74	93	99	5	-19	1	110	156	99	5	-15	2	-22	70	99	5	-12	7	225	198	99	5	-9	7	165	194	99
4	21	-6	57	129	99	5	-19	2	167	115	99	5	-15	3	-187	91	99	5	-12	8	73	55	99	5	-9	8	-71	12	99
4	21	-5	-80	36	99	5	-19	3	149	178	99	5	-15	4	247	253	99	5	-11	-9	95	80	99	5	-9	9	31	69	99
4	21	-4	44	125	99	5	-19	4	70	11	99	5	-15	5	281	246	99	5	-11	-8	92	158	99	5	-8	-9	-51	73	99
4	21	-3	53	59	99	5	-19	5	-79	19	99	5	-15	6	104	55	99	5	-11	-7	95	43	99	5	-8	-8	-58	8	99
4	21	-2	59	11	99	5	-18	-6	-95	22	99	5	-15	7	60	67	99	5	-11	-6	234	169	99	5	-8	-7	134	72	99
4	21	-1	-221	102	99	5	-18	-5	72	65	99	5	-14	-8	-67	45	99	5	-11	-5	169	156	99	5	-8	-6	139	148	99
4	21	0	-78	34	99	5	-18	-4	20	99	99	5	-14	-7	-123	66	99	5	-11	-4	366	374	99	5	-8	-5	-152	103	99
4	21	1	34	35	99	5	-18	-3	128	94	99	5	-14	-6	71	118	99	5	-11	-3	234	223	99	5	-8	-4	156	155	99
4	21	2	-79	36	99	5	-18	-2	-219	117	99	5	-14	-5	196	171	99	5	-11	-2	116	188	99	5	-8	-3	160	185	99
4	21	3	-52	7	99	5	-18	-1	104	8	99	5	-14	-4	138	152	99	5	-11	-1	419	396	99	5	-8	-2	558	555	99
4	22	-5	112	47	99	5	-18	0	-55	47	99	5	-14	-3	114	68	99	5	-11	0	-37	68	99	5	-8	-1	779	769	99
4	22	-4	-143	92	99	5	-18	1	199	106	99	5	-14	-2	84	73	99	5	-11	1	48	47	99	5	-8	0	172	135	99
4	22	-3	-174	59	99	5	-18	2	135	141	99	5	-14	-1	199	163	99	5	-11	2	-159	17	99	5	-8	1	530	517	99
4	22	-2	251	212	99	5	-18	3	-98	110	99	5	-14	0	110	31	99	5	-11	3	298	260	99	5	-8	2	440	434	99
4	22	-1	-103	20	99	5	-18	4	114	9	99	5	-14	1	37	128	99	5	-11	4	80	145	99	5	-8	3	446	443	99
4	22	0	78	30	99	5	-18	5	99	77	99	5	-14	2	279	252	99	5	-11	5	-29	8	99	5	-8	4	242	233	99
4	22	1	-59	26	99	5	-18	6	117	47	99	5	-14	3	101	91	99	5	-11	6	-75	100	99	5	-8	5	58	114	99
4	22	2	89	127	99	5	-17	-6	-88	35	99	5	-14	4	56	69	99	5	-11	7	250	237	99	5	-8	6	165	160	99
4	23	-4	-90	26	99	5	-17	-5	145	99	99	5	-14	5	-54	22	99	5	-11	8	116	171	99	5	-8	7	308	313	99
4	23	-3	-80	69	99	5	-17	-4	346	355	99	5	-14	6	-91	13	99	5	-10	-9	-40	52	99	5	-8	8	149	150	99
4	23	-2	125	131	99	5	-17	-3	279	293	99	5	-14	7	-187	143	99	5	-10	-8	101	100	99	5	-8	9	-73	10	99
4	23	-1	-132	23	99	5	-17	-2	311	281	99	5	-14	8	83	164	99	5	-10	-7	271	257	99	5	-7	-10	-155	55	99
4	23	0	54	11	99	5	-17	-1	107	86	99	5	-13	-8	54	67	99	5	-10	-6	355	352	99	5	-7	-9	153	171	99
4	23	1	-16	57	99	5	-17	0	319	292	99	5	-13	-7	-159	52	99	5	-10	-5	345	354	99	5	-7	-8	250	228	99
5	-22	-2	122	75	99	5	-17	1	114	171	99	5	-13	-6	131	27	99	5	-10	-4	396	417	99	5	-7	-7	371	340	99
5	-22	-1	-126	111	99	5	-17	2	82	105	99	5	-13	-5	-99	78	99	5	-10	-3	86	177	99	5	-7	-6	440	445	99
5	-22	0	102	61	99	5	-17	3	95	9	99	5	-13	-4	126	221	99	5	-10	-2	292	299	99	5	-7	-5	98	90	99
5	-22	1	107	112	99	5	-17	4	-170	14	99	5	-13	-3	128	151	99	5	-10	-1	50	57	99	5	-7	-4	318	303	99
5	-22	2	124	143	99	5	-17	5	-198	62	99	5	-13	-2	293	313	99	5	-10	0	79	34	99	5	-7	-3	720	707	99
5	-22	3	153	201	99	5	-17	6	-41	27	99	5	-13	-1	130	108	99	5	-10	1	314	312	99	5	-7	-2	612	609	99
5	-21	-3	85	68	99	5	-16	-7	-152	40	99	5	-13	0	125	107	99	5	-10	2	281	285	99	5	-7	-1	612	592	99
5	-21	-2	52	23	99	5	-16	-6	-177	10	99	5	-13	1	86	76	99	5	-10	3	102	141	99	5	-7	0	239	210	99
5	-21	-1	-189	59	99	5	-16	-5	-143	67	99	5	-13	2	395	332	99	5	-10	4	-87	17	99	5	-7	1	227	199	99
5	-21	0	73	73	99	5	-16	-4	329	322	99	5	-13	3	-192	134	99	5	-10	5	252	248	99	5	-7	2	576	586	99
5	-21	1	94	87	99	5	-16	-3	90	151	99	5	-13	4	-46	80	99	5	-10	6	-154	70	99	5	-7	3	168	162	99
5	-21	2	49	61	99	5	-16	-2	-161	19	99	5	-13	5	-172	31	99	5	-10	7	-51	113	99	5	-7	4	111	116	99

h	k	l	Fo	Fc	sigF2
5	-7	5	82	157	99
5	-7	6	178	157	99
5	-7	7	200	170	99
5	-7	8	118	194	99
5	-7	9	-103	48	99
5	-6	-10	81	10	99
5	-6	-9	124	136	99
5	-6	-8	245	241	99
5	-6	-7	284	288	99
5	-6	-6	322	354	99
5	-6	-5	164	175	99
5	-6	-4	282	285	99
5	-6	-3	469	475	99
5	-6	-2	787	770	99
5	-6	-1	528	540	99
5	-6	0	942	920	99
5	-6	1	722	724	99
5	-6	2	567	570	99
5	-6	3	184	205	99
5	-6	4	340	313	99
5	-6	5	121	149	99
5	-6	6	181	200	99
5	-6	7	163	104	99
5	-6	8	63	161	99
5	-6	9	-145	40	99
5	-5	-10	105	26	99
5	-5	-9	-85	12	99
5	-5	-8	145	122	99
5	-5	-7	-36	61	99
5	-5	-6	-77	9	99
5	-5	-5	94	200	99
5	-5	-4	299	298	99
5	-5	-3	290	314	99
5	-5	-2	634	605	99
5	-5	-1	29	15	99
5	-5	0	525	506	99
5	-5	1	726	744	99
5	-5	2	-113	46	99
5	-5	3	168	149	99
5	-5	4	234	223	99
5	-5	5	435	417	99
5	-5	6	251	236	99
5	-5	7	75	92	99
5	-5	8	45	93	99
5	-5	9	109	171	99
5	-4	-10	67	15	99
5	-4	-9	-33	152	99
5	-4	-8	121	92	99
5	-4	-7	318	303	99
5	-4	-6	421	404	99
5	-4	-5	93	22	99
5	-4	-4	-44	11	99
5	-4	-3	253	230	99
5	-4	-2	329	333	99
5	-4	-1	366	375	99
5	-4	0	112	141	99
5	-4	1	483	486	99
5	-4	2	-17	118	99
5	-4	3	436	427	99
5	-4	4	159	138	99
5	-4	5	466	505	99
5	-4	6	147	66	99
5	-4	7	85	23	99
5	-4	8	-182	9	99
5	-4	9	100	170	99
5	-3	-10	-70	4	99
5	-3	-9	211	244	99
5	-3	-8	329	315	99
5	-3	-7	686	685	99
5	-3	-6	434	408	99
5	-3	-5	79	28	99
5	-3	-4	412	420	99
5	-3	-3	581	591	99
5	-3	-2	680	678	99
5	-3	-1	221	236	99
5	-3	0	745	738	99
5	-3	1	369	366	99
5	-3	2	645	660	99
5	-3	3	89	84	99
5	-3	4	174	150	99
5	-3	5	280	282	99
5	-3	6	117	110	99
5	-3	7	82	34	99
5	-3	8	126	39	99
5	-3	9	-134	103	99
5	-2	-10	78	15	99
5	-2	-9	-74	85	99
5	-2	-8	124	190	99
5	-2	-7	256	242	99
5	-2	-6	169	142	99
5	-2	-5	165	161	99
5	-2	-4	299	294	99
5	-2	-3	1016	991	99
5	-2	-2	163	346	99
5	-2	-1	37	72	99
5	-2	0	1198	1191	99
5	-2	1	1051	1062	99
5	-2	2	427	422	99
5	-2	3	177	175	99
5	-2	4	107	48	99
5	-2	5	100	97	99
5	-2	6	219	188	99
5	-2	7	-24	38	99
5	-2	8	-50	58	99
5	-2	9	66	15	99
5	-1	-10	38	87	99
5	-1	-9	241	270	99
5	-1	-8	112	110	99
5	-1	-7	262	286	99
5	-1	-6	324	312	99
5	-1	-5	106	175	99
5	-1	-4	83	50	99
5	-1	-3	-61	169	99
5	-1	-2	268	275	99
5	-1	-1	87	23	99
5	-1	0	288	285	99
5	-1	1	435	407	99
5	-1	2	727	696	99
5	-1	3	541	545	99
5	-1	4	350	366	99
5	-1	5	340	313	99
5	-1	6	147	132	99
5	-1	7	101	225	99
5	-1	8	21	56	99
5	-1	9	105	60	99
5	0	-11	53	46	99
5	0	-10	152	193	99
5	0	-9	387	405	99
5	0	-8	263	285	99
5	0	-7	-73	59	99
5	0	-6	216	181	99
5	0	-5	463	448	99
5	0	-4	203	192	99
5	0	-3	147	90	99
5	0	-2	425	405	99
5	0	-1	675	675	99
5	0	0	753	733	99
5	0	1	61	14	99
5	0	2	485	478	99
5	0	3	427	365	99
5	0	4	253	293	99
5	0	5	155	153	99
5	0	6	-62	21	99
5	0	7	241	242	99
5	0	8	11	45	99
5	0	9	-37	22	99
5	1	-11	90	69	99
5	1	-10	-115	136	99
5	1	-9	228	188	99
5	1	-8	217	228	99
5	1	-7	189	185	99
5	1	-6	548	542	99
5	1	-5	520	486	99
5	1	-4	236	247	99
5	1	-3	191	195	99
5	1	-2	819	793	99
5	1	-1	1267	1291	99
5	1	0	1271	1214	99
5	1	1	257	256	99
5	1	2	666	668	99
5	1	3	424	411	99
5	1	4	251	253	99
5	1	5	-173	30	99
5	1	6	112	172	99
5	1	7	87	136	99
5	1	8	154	186	99
5	1	9	100	71	99
5	2	-11	93	75	99
5	2	-10	-194	5	99
5	2	-9	-23	64	99
5	2	-8	84	35	99
5	2	-7	156	158	99
5	2	-6	299	288	99
5	2	-5	67	114	99
5	2	-4	257	239	99
5	2	-3	464	452	99
5	2	-2	1027	1032	99
5	2	-1	930	940	99
5	2	0	106	90	99
5	2	1	141	137	99
5	2	2	1153	1106	99
5	2	3	1189	1149	99
5	2	4	433	409	99
5	2	5	-39	23	99
5	2	6	416	393	99
5	2	7	411	397	99
5	2	8	162	170	99
5	2	9	111	59	99
5	3	-11	-50	48	99
5	3	-10	-124	87	99
5	3	-9	214	241	99
5	3	-8	122	132	99
5	3	-7	251	233	99
5	3	-6	283	245	99
5	3	-5	41	69	99
5	3	-4	390	387	99
5	3	-3	7	25	99
5	3	-2	427	435	99
5	3	-1	69	16	99
5	3	0	231	199	99
5	3	1	287	269	99
5	3	2	348	344	99
5	3	3	903	849	99
5	3	4	198	181	99
5	3	5	139	115	99
5	3	6	367	375	99
5	3	7	247	260	99
5	3	8	-84	40	99
5	3	9	77	13	99
5	4	-11	103	60	99
5	4	-10	176	169	99
5	4	-9	202	177	99
5	4	-8	-49	72	99
5	4	-7	219	173	99
5	4	-6	197	206	99
5	4	-5	257	255	99
5	4	-4	282	302	99
5	4	-3	302	294	99
5	4	-2	277	276	99
5	4	-1	445	443	99
5	4	0	416	416	99
5	4	1	279	274	99
5	4	2	85	67	99
5	4	3	84	109	99
5	4	4	185	140	99
5	4	5	297	300	99
5	4	6	-72	72	99
5	4	7	-157	29	99
5	4	8	67	38	99
5	4	9	-114	23	99
5	5	-11	-29	83	99
5	5	-10	79	101	99
5	5	-9	79	12	99
5	5	-8	-91	75	99
5	5	-7	257	254	99
5	5	-6	718	688	99
5	5	-5	-82	78	99
5	5	-4	46	78	99
5	5	-3	727	688	99
5	5	-2	1345	1281	99
5	5	-1	534	548	99
5	5	0	200	199	99
5	5	1	135	111	99
5	5	2	424	450	99
5	5	3	580	531	99
5	5	4	-98	73	99
5	5	5	239	217	99
5	5	6	166	174	99
5	5	7	97	160	99
5	5	8	-238	21	99
5	5	9	60	45	99
5	6	-11	65	64	99
5	6	-10	128	66	99
5	6	-9	240	189	99
5	6	-8	-205	57	99
5	6	-7	240	214	99
5	6	-6	300	276	99
5	6	-5	50	47	99
5	6	-4	191	153	99
5	6	-3	282	276	99
5	6	-2	728	695	99
5	6	-1	218	174	99
5	6	0	426	440	99
5	6	1	138	164	99
5	6	2	565	589	99
5	6	3	617	609	99
5	6	4	123	147	99
5	6	5	277	223	99
5	6	6	281	262	99
5	6	7	214	217	99
5	6	8	131	84	99
5	6	9	96	51	99
5	7	-10	-150	132	99
5	7	-9	-123	91	99
5	7	-8	257	265	99
5	7	-7	552	539	99
5	7	-6	392	388	99
5	7	-5	69	153	99
5	7	-4	481	465	99
5	7	-3	771	749	99
5	7	-2	619	620	99
5	7	-1	698	726	99
5	7	0	93	96	99
5	7	1	161	145	99
5	7	2	65	113	99
5	7	3	26	16	99
5	7	4	44	39	99
5	7	5	-215	19	99
5	7	6	-101	27	99
5	7	7	-66	16	99
5	7	8	-201	118	99
5	8	-10	126	86	99
5	8	-9	137	99	99
5	8	-8	164	193	99
5	8	-7	298	286	99
5	8	-6	445	412	99
5	8	-5	91	80	99
5	8	-4	826	830	99
5	8	-3	1314	1291	99
5	8	-2	946	931	99
5	8	-1	408	402	99
5	8	0	265	336	99
5	8	1	400	427	99
5	8	2	743	772	99
5	8	3	467	472	99
5	8	4	219	169	99
5	8	5	405	368	99
5	8	6	229	242	99
5	8	7	122	193	99
5	8	8	-125	77	99
5	9	-10	-120	29	99
5	9	-9	110	67	99
5	9	-8	69	44	99
5	9	-7	120	104	99
5	9	-6	201	181	99
5	9	-5	103	42	99
5	9	-4	438	435	99
5	9	-3	410	415	99
5	9	-2	530	525	99
5	9	-1	432	448	99
5	9	0	539	633	99
5	9	1	343	357	99
5	9	2	502	517	99
5	9	3	152	95	99
5	9	4	435	402	99
5	9	5	425	439	99
5	9	6	269	240	99
5	9	7	182	135	99
5	9	8	116	58	99
5	10	-10	-113	17	99
5	10	-9	47	44	99
5	10	-8	142	133	99
5	10	-7	75	16	99
5	10	-6	46	33	99
5	10	-5	86	187	99
5	10	-4	94	60	99
5	10	-3	173	171	99
5	10	-2	273	228	99
5	10	-1	-54	72	99
5	10	0	287	330	99
5	10	1	-69	102	99
5	10	2	82	92	99
5	10	3	76	127	99
5	10	4	238	237	99
5	10	5	106	95	99
5	10	6	124	54	99
5	10	7	91	0	99
5	10	8	-15	177	99
5	11	-10	-113	45	99
5	11	-9	-124	104	99
5	11	-8	94	42	99
5	11	-7	202	148	99
5	11	-6	-119	81	99
5	11	-5	272	284	99
5	11	-4	459	466	99
5	11	-3	448	424	99
5	11	-2	225	198	99
5	11	-1	189	168	99
5	11	0	69	80	99
5	11	1	-100	31	99
5	11	2	-107	25	99
5	11	3	134	81	99
5	11	4	178	192	99
5	11	5	-125	108	99
5	11	6	-135	9	99
5	11	7	-57	9	99
5	12	-10	-122	21	99
5	12	-9	-173	107	99
5	12	-8	114	15	99
5	12	-7	61	12	99
5	12	-6	161	119	99
5	12	-5	-37	230	99
5	12	-4	397	377	99
5	12	-3	242	252	99
5	12	-2	191	190	99
5	12	-1	97	164	99
5	12	0	369	405	99
5	12	1	-44	89	99
5	12	2	82	128	99
5	12	3	-47	81	99
5	12	4	447	433	99
5	12	5	-153	115	99
5	12	6	-123	69	99
5	12	7	-174	5	99
5	13	-9	-99	7	99
5	13	-8	62	148	99
5	13	-7	-95	226	99
5	13	-6	93	89	99
5	13	-5	-25	124	99
5	13	-4	-31	92	99
5	13	-3	155	152	99
5	13	-2	212	174	99
5	13	-1	295	301	99
5	13	0	492	522	99
5	13	1	85	121	99
5	13	2	146	225	99
5	13	3	196	233	99
5	13	4	349	346	99
5	13	5	-99	13	99
5	13	6	49	85	99
5	13	7	104	66	99
5	14	-9	107	135	99
5	14	-8	103	162	99
5	14	-7	115	103	99
5	14	-6	103	37	99
5	14	-5	155	169	99
5	14	-4	508	504	99
5	14	-3	140	224	99
5	14	-2	145	194	99
5	14	-1	113	143	99
5	14	0	103	123	99
5	14	1	135	101	99
5	14	2	245	225	99
5	14	3	215	186	99
5	14	4	21	98	99
5	14	5	-71	107	99
5	14	6	114	53	99
5	15	-9	105	132	99
5	15	-8	123	9	99
5	15	-7	-114	184	99
5	15	-6	176	130	99
5	15	-5	427	437	99
5	15	-4	353	367	99
5	15	-3	144	100	99
5	15	-2	178	178	99
5	15	-1	375	368	99
5	15	0	437	393	99
5	15	1	134	78	99
5	15	2	186	136	99
5	15	3	186	194	99
5	15	4	210	226	99
5	15	5	196	151	99
5	15	6	-98	36	99
5	16	-9	67	35	99
5	16	-8	45	25	99
5	16	-7	120	158	99
5	16	-6	127	79	99
5	16	-5	212	227	99
5	16	-4	-119	117	99
5	16	-3	216	204	99
5	16	-2	94	101	99
5	16	-1	340	398	99
5	16	0	415	392	99
5	16	1	199	167	99
5	16	2	374	356	99
5	16	3	337	321	99
5	16	4	234	242	99
5	16	5	-142	43	99
5	16	6	-132	40	99
5	17	-8	78	103	99
5	17	-7	89	81	99
5	17	-6	30	59	99
5	17	-5	-193	50	99
5	17	-4	58	15	99
5	17	-3	75	9	99
5	17	-2	120	97	99
5	17	-1	-143	64	99
5	17	0	115	109	99
5	17	1	87	13	99
5	17	2	98	152	99
5	17	3	150	134	99
5	17	4	-149	35	99
5	17	5	102	37	99
5	18	-8	42	88	99
5	18	-7	181	197	99
5	18	-6	74	73	99
5	18	-5	-103	40	99
5	18	-4	94	59	99
5	18	-3	215	201	99
5	18	-2	72	158	99
5	18	-1	111	58	99
5	18	0	-88	35	99
5	18	1	254	253	99
5	18	2	202	211	99
5	18	3	111	14	99
5	18	4	-8	57	99
5	18	5	-127	11	99
5	19	-7	159	216	99
5	19	-6	-122	141	99
5	19	-5	179	71	99
5	19	-4	-188	20	99
5	19	-3	138	217	99
5	19	-2	39	170	99
5	19	-1	156	112	99
5	19	0	87	30	99
5	19	1	313	305	99
5	19	2	307	326	99
5	19	3	-43	72	99
5	19	4	-153	29	99
5	20	-7	63	90	99
5	20	-6	-97	74	99
5	20	-5	-172	7	99
5	20	-4	-118	14	99
5	20	-3	-53	105	99
5	20	-2	-125	136	99
5	20	-1	-178	86	99
5	20	0	-37	22	99
5	20	1	-53	161	99
5	20	2	51	173	99
5	20	3	114	81	99
5	21	-6	-123	80	99
5	21	-5	98	105	99
5	21	-4	56	56	99
5	21	-3	112	67	99
5	21	-2	113	23	99
5	21	-1	83	56	99
5	21	0	-83	97	99
5	21	1	-106	35	99
5	21	2	35	24	99
5	21	3	74	30	99
5	22	-5	116	20	99
5	22	-4	-172	33	99
5	22	-3	188	183	99
5	22	-2	-159	124	99
5	22	-1	27	78	99
5	22	0	61	62	99
5	22	1	156	187	99
5	23	-4	-96	54	99
5	23	-3	90	80	99
5	23	-2	101	22	99
5	23	-1	-126	24	99
5	23	0	-86	50	99
6	-22	-1	123	125	99
6	-22	0	121	127	99
6	-22	1	-142	41	99
6	-21	-3	-119	16	99
6	-21	-2	114	9	99
6	-21	-1	-35	73	99
6	-21	0	79	80	99
6	-21	1	135	55	99
6	-21	2	85	1	99
6	-21	3	115	86	99
6	-20	-4	-74	53	99
6	-20	-3	122	77	99
6	-20	-2	151	129	99
6	-20	-1	113	8	99
6	-20	0	-108	20	99
6	-20	1	-90	103	99
6	-20	2	-166	2	99
6	-20	3	70	67	99
6	-20	4	-57	31	99
6	-19	-5	-105	77	99
6	-19	-4	88	38	99
6	-19	-3	-113	38	99
6	-19	-2	-21	99	99
6	-19	-1	196	172	99
6	-19	0	264	257	99
6	-19	1	61	23	99
6	-19	2	-74	16	99
6	-19	3	-138	21	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	-19	4	23	93	99	6	-14	-7	153	101	99	6	-11	-2	253	226	99	6	-8	-1	81	186	99	6	-5	-5	390	359	99
6	-19	5	-204	25	99	6	-14	-6	-14	10	99	6	-11	-1	280	278	99	6	-8	0	533	517	99	6	-5	-4	462	475	99
6	-18	-5	-43	2	99	6	-14	-5	75	11	99	6	-11	0	95	139	99	6	-8	1	164	122	99	6	-5	-3	-81	33	99
6	-18	-4	39	73	99	6	-14	-4	124	5	99	6	-11	1	-66	108	99	6	-8	2	481	495	99	6	-5	-2	207	195	99
6	-18	-3	150	127	99	6	-14	-3	-120	11	99	6	-11	2	197	151	99	6	-8	3	139	136	99	6	-5	-1	626	616	99
6	-18	-2	110	79	99	6	-14	-2	202	194	99	6	-11	3	302	293	99	6	-8	4	537	527	99	6	-5	0	528	517	99
6	-18	-1	218	209	99	6	-14	-1	-24	18	99	6	-11	4	146	137	99	6	-8	5	351	380	99	6	-5	1	228	178	99
6	-18	0	207	245	99	6	-14	0	232	194	99	6	-11	5	340	324	99	6	-8	6	281	293	99	6	-5	2	425	436	99
6	-18	1	127	102	99	6	-14	1	298	304	99	6	-11	6	-73	105	99	6	-8	7	131	49	99	6	-5	3	269	281	99
6	-18	2	-72	28	99	6	-14	2	47	217	99	6	-11	7	-189	94	99	6	-8	8	95	79	99	6	-5	4	542	555	99
6	-18	3	165	119	99	6	-14	3	241	256	99	6	-11	8	-56	48	99	6	-7	-10	136	118	99	6	-5	5	229	167	99
6	-18	4	135	147	99	6	-14	4	95	14	99	6	-10	-9	-45	10	99	6	-7	-9	157	62	99	6	-5	6	-156	178	99
6	-18	5	115	43	99	6	-14	5	-100	63	99	6	-10	-8	261	271	99	6	-7	-8	-110	135	99	6	-5	7	201	201	99
6	-17	-6	53	72	99	6	-14	6	154	179	99	6	-10	-7	475	470	99	6	-7	-7	216	197	99	6	-5	8	112	117	99
6	-17	-5	147	174	99	6	-14	7	188	202	99	6	-10	-6	56	191	99	6	-7	-6	-163	65	99	6	-5	9	-156	47	99
6	-17	-4	212	163	99	6	-13	-8	-170	26	99	6	-10	-5	293	290	99	6	-7	-5	156	124	99	6	-4	-10	84	66	99
6	-17	-3	107	22	99	6	-13	-7	101	137	99	6	-10	-4	70	113	99	6	-7	-4	236	218	99	6	-4	-9	-194	9	99
6	-17	-2	-128	24	99	6	-13	-6	17	73	99	6	-10	-3	550	550	99	6	-7	-3	-101	88	99	6	-4	-8	107	111	99
6	-17	-1	60	125	99	6	-13	-5	30	74	99	6	-10	-2	133	179	99	6	-7	-2	96	154	99	6	-4	-7	407	390	99
6	-17	0	98	139	99	6	-13	-4	-146	18	99	6	-10	-1	258	217	99	6	-7	-1	-133	12	99	6	-4	-6	169	172	99
6	-17	1	117	68	99	6	-13	-3	201	214	99	6	-10	0	310	299	99	6	-7	0	399	390	99	6	-4	-5	301	314	99
6	-17	2	-149	48	99	6	-13	-2	129	60	99	6	-10	1	353	341	99	6	-7	1	109	9	99	6	-4	-4	221	202	99
6	-17	3	-129	115	99	6	-13	-1	135	73	99	6	-10	2	506	498	99	6	-7	2	242	239	99	6	-4	-3	-105	56	99
6	-17	4	-169	4	99	6	-13	0	155	108	99	6	-10	3	112	52	99	6	-7	3	184	183	99	6	-4	-2	-83	23	99
6	-17	5	70	18	99	6	-13	1	544	520	99	6	-10	4	351	352	99	6	-7	4	628	610	99	6	-4	-1	319	313	99
6	-17	6	-206	56	99	6	-13	2	163	111	99	6	-10	5	294	286	99	6	-7	5	326	333	99	6	-4	0	918	936	99
6	-16	-7	121	125	99	6	-13	3	-98	74	99	6	-10	6	50	51	99	6	-7	6	94	153	99	6	-4	1	433	426	99
6	-16	-6	195	158	99	6	-13	4	-171	108	99	6	-10	7	84	116	99	6	-7	7	-122	26	99	6	-4	2	719	749	99
6	-16	-5	203	197	99	6	-13	5	-61	79	99	6	-10	8	135	130	99	6	-7	8	207	190	99	6	-4	3	226	232	99
6	-16	-4	57	43	99	6	-13	6	83	8	99	6	-9	-9	120	7	99	6	-7	9	94	166	99	6	-4	4	619	595	99
6	-16	-3	233	235	99	6	-13	7	-205	92	99	6	-9	-8	130	163	99	6	-6	-10	76	38	99	6	-4	5	343	347	99
6	-16	-2	322	298	99	6	-12	-8	90	5	99	6	-9	-7	354	337	99	6	-6	-9	-38	28	99	6	-4	6	257	235	99
6	-16	-1	494	448	99	6	-12	-7	117	120	99	6	-9	-6	68	144	99	6	-6	-8	115	85	99	6	-4	7	172	198	99
6	-16	0	284	271	99	6	-12	-6	245	232	99	6	-9	-5	51	83	99	6	-6	-7	79	154	99	6	-4	8	184	209	99
6	-16	1	144	150	99	6	-12	-5	136	124	99	6	-9	-4	422	422	99	6	-6	-6	-30	55	99	6	-4	9	-119	113	99
6	-16	2	-141	249	99	6	-12	-4	40	140	99	6	-9	-3	860	857	99	6	-6	-5	258	234	99	6	-3	-10	131	183	99
6	-16	3	112	200	99	6	-12	-3	380	348	99	6	-9	-2	267	290	99	6	-6	-4	101	78	99	6	-3	-9	-149	130	99
6	-16	4	174	215	99	6	-12	-2	307	323	99	6	-9	-1	-39	167	99	6	-6	-3	91	168	99	6	-3	-8	225	174	99
6	-16	5	93	10	99	6	-12	-1	32	167	99	6	-9	0	81	130	99	6	-6	-2	599	566	99	6	-3	-7	257	207	99
6	-16	6	-153	19	99	6	-12	0	313	290	99	6	-9	1	478	510	99	6	-6	-1	447	435	99	6	-3	-6	-92	31	99
6	-15	-7	50	14	99	6	-12	1	342	314	99	6	-9	2	821	820	99	6	-6	0	-104	23	99	6	-3	-5	265	274	99
6	-15	-6	-39	81	99	6	-12	2	138	207	99	6	-9	3	154	66	99	6	-6	1	124	126	99	6	-3	-4	52	48	99
6	-15	-5	78	128	99	6	-12	3	-30	122	99	6	-9	4	133	56	99	6	-6	2	96	143	99	6	-3	-3	232	218	99
6	-15	-4	-99	18	99	6	-12	4	-159	31	99	6	-9	5	178	139	99	6	-6	3	153	96	99	6	-3	-2	-95	99	99
6	-15	-3	253	202	99	6	-12	5	199	216	99	6	-9	6	231	201	99	6	-6	4	98	63	99	6	-3	-1	159	181	99
6	-15	-2	353	371	99	6	-12	6	-117	108	99	6	-9	7	107	13	99	6	-6	5	150	72	99	6	-3	0	543	542	99
6	-15	-1	339	337	99	6	-12	7	-66	22	99	6	-9	8	146	96	99	6	-6	6	-60	40	99	6	-3	1	456	436	99
6	-15	0	279	246	99	6	-12	8	95	21	99	6	-8	-9	-77	62	99	6	-6	7	47	79	99	6	-3	2	696	691	99
6	-15	1	-128	81	99	6	-11	-9	-239	16	99	6	-8	-8	88	94	99	6	-6	8	-50	92	99	6	-3	3	209	200	99
6	-15	2	429	415	99	6	-11	-8	97	119	99	6	-8	-7	-76	26	99	6	-6	9	102	90	99	6	-3	4	374	422	99
6	-15	3	418	405	99	6	-11	-7	93	162	99	6	-8	-6	-102	19	99	6	-5	-10	28	15	99	6	-3	5	188	200	99
6	-15	4	-130	167	99	6	-11	-6	-117	62	99	6	-8	-5	68	74	99	6	-5	-9	-46	18	99	6	-3	6	168	196	99
6	-15	5	-217	82	99	6	-11	-5	129	100	99	6	-8	-4	469	458	99	6	-5	-8	113	40	99	6	-3	7	-108	105	99
6	-15	6	213	214	99	6	-11	-4	204	219	99	6	-8	-3	258	244	99	6	-5	-7	89	158	99	6	-3	8	144	136	99
6	-15	7	203	181	99	6	-11	-3	203	244	99	6	-8	-2	49	104	99	6	-5	-6	125	33	99	6	-3	9	-140	71	99
6	-2	-10	58	116	99	6	0	5	103	110	99	6	3	-2	445	413	99	6	6	-6	102	107	99	6	9	-8	85	26	99
6	-2	-9	56	161	99	6	0	6	237	242	99	6	3	-1	321	310	99	6	6	-5	321	290	99	6	9	-7	-144	121	99
6	-2	-8	104	65	99	6	0	7	-148	112	99	6	3	0	-64	72	99	6	6	-4	76	49	99	6	9	-6	196	157	99
6	-2	-7	231	219	99	6	0	8	-163	30	99	6	3	1	748	720	99	6	6	-3	-54	148	99	6	9	-5	457	450	99
6	-2	-6	316	307	99	6	0	9	91	14	99	6	3	2	923	875	99	6	6	-2	62	64	99	6	9	-4	133	150	99
6	-2	-5	673	665	99	6	1	-10	-113	72	99	6	3	3	73	82	99	6	6	-1	350	347	99	6	9	-3	99	83	99
6	-2	-4	255	261	99	6	1	-9	-158	29	99	6	3	4	217	217	99	6	6	0	426	445	99	6	9	-2	340	345	99
6	-2	-3	365	352	99	6	1	-8	279	257	99	6	3	5	354	311	99	6	6	1	345	354	99	6	9	-1	741	749	99
6	-2	-2	647	647	99	6	1	-7	258	235	99	6	3	6	335	357	99	6	6	2	524	488	99	6	9	0	-82	106	99
6	-2	-1	1189	1155	99	6	1	-6	415	397	99	6	3	7	-159	38	99	6	6	3	182	166	99	6	9	1	90	95	99
6	-2	0	505	464	99	6	1	-5	297	280	99	6	3	8	-197	123	99	6	6	4	386	370	99	6	9	2	75	35	99
6	-2	1	120	150	99	6	1	-4	189	211	99	6	3	9	58	129	99	6	6	5	-18	154	99	6	9	3	696	663	99
6	-2	2	159	130	99	6	1	-3	844	820	99	6	4	-11	147	156	99	6	6	6	229	175	99	6	9	4	441	461	99
6	-2	3	151	181	99	6	1	-2	1241	1198	99	6	4	-10	163	149	99	6	6	7	136	44	99	6	9	5	164	94	99
6	-2	4	-104	168	99	6	1	-1	482	493	99	6	4	-9	-171	10	99	6	6	8	161	106	99	6	9	6	133	50	99
6	-2	5	224	218	99	6	1	0	-129	48	99	6	4	-8	-89	79	99	6	7	-10	114	97	99	6	9	7	99	110	99
6	-2	6	-124	7	99	6	1	1	604	554	99	6	4	-7	317	308	99	6	7	-9	131	149	99	6	9	8	100	115	99
6	-2	7	64	70	99	6	1	2	511	480	99	6	4	-6	104	52	99	6	7	-8	270	241	99	6	10	-10	46	41	99
6	-2	8	96	75	99	6	1	3	67	21	99	6	4	-5	89	78	99	6	7	-7	123	12	99	6	10	-9	-123	27	99
6	-2	9	-87	49	99	6	1	4	87	41	99	6	4	-4	135	31	99	6	7	-6	333	318	99	6	10	-8	-39	23	99
6	-1	-10	-17	78	99	6	1	5	52	50	99	6	4	-3	273	272	99	6	7	-5	89	78	99	6	10	-7	98	122	99
6	-1	-9	152	56	99	6	1	6	-64	106	99	6	4	-2	329	349	99	6	7	-4	321	338	99	6	10	-6	-118	55	99
6	-1	-8	-57	88	99	6	1	7	-182	148	99	6	4	-1	629	599	99	6	7	-3	-56	34	99	6	10	-5	97	120	99
6	-1	-7	269	249	99	6	1	8	98	80	99	6	4	0	197	193	99	6	7	-2	361	376	99	6	10	-4	251	238	99
6	-1	-6	183	200	99	6	1	9	-186	49	99	6	4	1	-98	57	99	6	7	-1	235	271	99	6	10	-3	-109	67	99
6	-1	-5	108	120	99	6	2	-11	-57	46	99	6	4	2	732	672	99	6	7	0	140	178	99	6	10	-2	358	348	99
6	-1	-4	545	542	99	6	2	-10	-118	14	99	6	4	3	-84	73	99	6	7	1	273	287	99	6	10	-1	493	534	99
6	-1	-3	401	398	99	6	2	-9	-118	164	99	6	4	4	144	125	99	6	7	2	93	91	99	6	10	0	110	127	99
6	-1	-2	676	658	99	6	2	-8	162	102	99	6	4	5	295	261	99	6	7	3	149	126	99	6	10	1	280	269	99
6	-1	-1	806	807	99	6	2	-7	437	441	99	6	4	6	75	127	99	6	7	4	386	360	99	6	10	2	-115	26	99
6	-1	0	627	584	99	6	2	-6	142	92	99	6	4	7	68	102	99	6	7	5	206	202	99	6	10	3	495	476	99
6	-1	1	587	571	99	6	2	-5	-84	94	99	6	4	8	184	140	99	6	7	6	-147	21	99	6	10	4	445	423	99
6	-1	2	1097	1071	99	6	2	-4	-28	101	99	6	5	-10	-115	62	99	6	7	7	185	230	99	6	10	5	132	104	99
6	-1	3	674	630	99	6	2	-3	546	529	99	6	5	-9	91	14	99	6	7	8	124	158	99	6	10	6	-107	69	99
6	-1	4	470	485	99	6	2	-2	957	926	99	6	5	-8	135	18	99	6	8	-10	-77	85	99	6	10	7	215	225	99
6	-1	5	376	339	99	6	2	-1	202	186	99	6	5	-7	374	355	99	6	8	-9	91	64	99	6	11	-10	-37	13	99
6	-1	6	272	289	99	6	2	0	159	151	99	6	5	-6	32	138	99	6	8	-8	121	90	99	6	11	-9	102	12	99
6	-1	7	195	210	99	6	2	1	875	864	99	6	5	-5	-165	26	99	6	8	-7	-108	47	99	6	11	-8	92	122	99
6	-1	8	118	162	99	6	2	2	870	807	99	6	5	-4	134	164	99	6	8	-6	519	517	99	6	11	-7	-131	82	99
6	-1	9	-109	101	99	6	2	3	-24	64	99	6	5	-3	361	361	99	6	8	-5	653	660	99	6	11	-6	130	74	99
6	0	-10	141	137	99	6	2	4	42	38	99	6	5	-2	834	824	99	6	8	-4	185	222	99	6	11	-5	135	155	99
6	0	-9	92	52	99	6	2	5	101	117	99	6	5	-1	374	375	99	6	8	-3	289	264	99	6	11	-4	268	265	99
6	0	-8	144	190	99	6	2	6	390	344	99	6	5	0	127	77	99	6	8	-2	89	18	99	6	11	-3	68	138	99
6	0	-7	99	18	99	6	2	7	105	186	99	6	5	1	289	296	99	6	8	-1	459	454	99	6	11	-2	76	75	99
6	0	-6	175	197	99	6	2	8	87	2	99	6	5	2	217	207	99	6	8	0	224	247	99	6	11	-1	288	257	99
6	0	-5	-113	20	99	6	2	9	-58	33	99	6	5	3	-17	39	99	6	8	1	-181	17	99	6	11	0	268	297	99
6	0	-4	612	597	99	6	3	-11	-150	61	99	6	5	4	-68	15	99	6	8	2	89	125	99	6	11	1	329	364	99
6	0	-3	505	508	99	6	3	-10	-5	79	99	6	5	5	107	110	99	6	8	3	306	320	99	6	11	2	-122	58	99
6	0	-2	461	428	99	6	3	-9	97	91	99	6	5	6	158	122	99	6	8	4	35	104	99	6	11	3	93	76	99
6	0	-1	-92	20	99	6	3	-8	156	23	99	6	5	7	-124	99	99	6	8	5	-16	11	99	6	11	4	137	58	99
6	0	0	332	321	99	6	3	-7	255	253	99	6	5	8	60	40	99	6	8	6	159	138	99	6	11	5	-33	142	99
6	0	1	-150	119	99	6	3	-6	160	177	99	6	6	-10	-65	14	99	6	8	7	153	169	99	6	11	6	-22	86	99
6	0	2	559	542	99	6	3	-5	217	204	99	6	6	-9	104	64	99	6	8	8	-191	42	99	6	11	7	175	148	99
6	0	3	172	166	99	6	3	-4	174	174	99	6	6	-8	220	234	99	6	9	-10	41	57	99	6	12	-10	53	70	99
6	0	4	216	212	99	6	3	-3	232	230	99	6	6	-7	-146	21	99	6	9	-9	118	17	99	6	12	-9	-128	5	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	12	-8	162	156	99	6	15	-2	230	214	99	6	19	-2	91	94	99	7	-19	4	71	28	99	7	-14	-3	-111	101	99
6	12	-7	-52	67	99	6	15	-1	191	232	99	6	19	-1	107	65	99	7	-18	-5	-82	4	99	7	-14	-2	233	195	99
6	12	-6	279	267	99	6	15	0	125	95	99	6	19	0	-93	137	99	7	-18	-4	32	46	99	7	-14	-1	-136	32	99
6	12	-5	422	426	99	6	15	1	85	98	99	6	19	1	85	116	99	7	-18	-3	-180	38	99	7	-14	0	-134	26	99
6	12	-4	-152	3	99	6	15	2	38	85	99	6	19	2	125	81	99	7	-18	-2	104	173	99	7	-14	1	114	143	99
6	12	-3	252	218	99	6	15	3	268	245	99	6	19	3	-107	16	99	7	-18	-1	252	272	99	7	-14	2	198	136	99
6	12	-2	216	202	99	6	15	4	159	179	99	6	19	4	87	10	99	7	-18	0	-183	19	99	7	-14	3	204	171	99
6	12	-1	209	192	99	6	15	5	105	19	99	6	20	-6	89	49	99	7	-18	1	91	28	99	7	-14	4	255	239	99
6	12	0	31	140	99	6	15	6	52	59	99	6	20	-5	87	62	99	7	-18	2	44	43	99	7	-14	5	-93	132	99
6	12	1	235	236	99	6	16	-8	96	52	99	6	20	-4	-153	7	99	7	-18	3	44	96	99	7	-14	6	97	158	99
6	12	2	96	56	99	6	16	-7	108	38	99	6	20	-3	86	5	99	7	-18	4	103	24	99	7	-14	7	-82	10	99
6	12	3	181	201	99	6	16	-6	-93	61	99	6	20	-2	28	16	99	7	-18	5	79	10	99	7	-13	-8	95	76	99
6	12	4	180	195	99	6	16	-5	254	210	99	6	20	-1	121	53	99	7	-17	-6	126	131	99	7	-13	-7	117	23	99
6	12	5	94	106	99	6	16	-4	-112	77	99	6	20	0	78	137	99	7	-17	-5	-145	70	99	7	-13	-6	60	34	99
6	12	6	-221	13	99	6	16	-3	89	172	99	6	20	1	-75	119	99	7	-17	-4	158	174	99	7	-13	-5	-85	82	99
6	12	7	-118	62	99	6	16	-2	-74	139	99	6	20	2	-92	32	99	7	-17	-3	118	133	99	7	-13	-4	79	32	99
6	13	-9	113	39	99	6	16	-1	213	168	99	6	20	3	-53	65	99	7	-17	-2	74	132	99	7	-13	-3	-138	74	99
6	13	-8	86	37	99	6	16	0	230	197	99	6	21	-6	-137	32	99	7	-17	-1	101	36	99	7	-13	-2	169	168	99
6	13	-7	106	60	99	6	16	1	256	242	99	6	21	-5	-139	86	99	7	-17	0	159	89	99	7	-13	-1	98	33	99
6	13	-6	187	112	99	6	16	2	-130	171	99	6	21	-4	112	50	99	7	-17	1	54	4	99	7	-13	0	200	178	99
6	13	-5	257	242	99	6	16	3	188	224	99	6	21	-3	35	12	99	7	-17	2	95	49	99	7	-13	1	-140	119	99
6	13	-4	-142	72	99	6	16	4	-156	81	99	6	21	-2	-27	2	99	7	-17	3	-100	49	99	7	-13	2	315	313	99
6	13	-3	209	221	99	6	16	5	-192	81	99	6	21	-1	73	90	99	7	-17	4	-81	45	99	7	-13	3	-122	116	99
6	13	-2	380	340	99	6	17	-8	-65	101	99	6	21	0	-103	99	99	7	-17	5	112	12	99	7	-13	4	-159	197	99
6	13	-1	422	401	99	6	17	-7	-168	38	99	6	21	1	57	40	99	7	-16	-6	71	64	99	7	-13	5	121	107	99
6	13	0	93	154	99	6	17	-6	-46	2	99	6	21	2	33	1	99	7	-16	-5	87	20	99	7	-13	6	117	179	99
6	13	1	166	168	99	6	17	-5	-139	122	99	6	22	-5	88	25	99	7	-16	-4	206	208	99	7	-13	7	-152	11	99
6	13	2	195	107	99	6	17	-4	153	101	99	6	22	-4	-14	73	99	7	-16	-3	135	202	99	7	-12	-8	102	12	99
6	13	3	309	313	99	6	17	-3	79	92	99	6	22	-3	-183	2	99	7	-16	-2	221	219	99	7	-12	-7	-66	44	99
6	13	4	136	172	99	6	17	-2	162	154	99	6	22	-2	79	65	99	7	-16	-1	94	126	99	7	-12	-6	-137	55	99
6	13	5	125	66	99	6	17	-1	119	141	99	6	22	-1	-149	29	99	7	-16	0	252	242	99	7	-12	-5	115	54	99
6	13	6	144	64	99	6	17	0	174	79	99	6	22	0	78	55	99	7	-16	1	270	256	99	7	-12	-4	-123	76	99
6	14	-9	-26	2	99	6	17	1	89	98	99	6	22	1	108	54	99	7	-16	2	90	72	99	7	-12	-3	80	75	99
6	14	-8	-206	139	99	6	17	2	65	112	99	6	23	-2	104	74	99	7	-16	3	-215	111	99	7	-12	-2	124	112	99
6	14	-7	53	212	99	6	17	3	104	7	99	6	23	-1	-83	104	99	7	-16	4	-175	44	99	7	-12	-1	79	33	99
6	14	-6	300	238	99	6	17	4	136	80	99	7	-21	-2	-148	83	99	7	-16	5	-157	79	99	7	-12	0	140	100	99
6	14	-5	212	184	99	6	17	5	50	76	99	7	-21	-1	152	104	99	7	-16	6	96	39	99	7	-12	1	131	18	99
6	14	-4	88	82	99	6	18	-8	-73	141	99	7	-21	0	-80	117	99	7	-15	-7	-76	51	99	7	-12	2	282	272	99
6	14	-3	-139	90	99	6	18	-7	-117	17	99	7	-21	1	59	30	99	7	-15	-6	42	28	99	7	-12	3	-94	122	99
6	14	-2	-66	14	99	6	18	-6	-257	1	99	7	-21	2	-38	24	99	7	-15	-5	23	34	99	7	-12	4	105	57	99
6	14	-1	-105	24	99	6	18	-5	120	8	99	7	-20	-3	27	37	99	7	-15	-4	77	97	99	7	-12	5	13	11	99
6	14	0	-166	80	99	6	18	-4	147	111	99	7	-20	-2	-117	26	99	7	-15	-3	75	91	99	7	-12	6	103	112	99
6	14	1	155	111	99	6	18	-3	107	82	99	7	-20	-1	-113	35	99	7	-15	-2	73	118	99	7	-12	7	74	23	99
6	14	2	108	71	99	6	18	-2	250	217	99	7	-20	0	116	61	99	7	-15	-1	101	43	99	7	-11	-8	148	142	99
6	14	3	-115	53	99	6	18	-1	-47	159	99	7	-20	1	-28	27	99	7	-15	0	231	201	99	7	-11	-7	-98	70	99
6	14	4	113	56	99	6	18	0	132	75	99	7	-20	2	116	73	99	7	-15	1	191	222	99	7	-11	-6	108	120	99
6	14	5	36	94	99	6	18	1	72	36	99	7	-20	3	97	30	99	7	-15	2	-174	87	99	7	-11	-5	225	191	99
6	14	6	-48	100	99	6	18	2	-19	120	99	7	-19	-4	-145	9	99	7	-15	3	-198	112	99	7	-11	-4	75	27	99
6	15	-9	-108	60	99	6	18	3	84	17	99	7	-19	-3	66	32	99	7	-15	4	53	101	99	7	-11	-3	136	32	99
6	15	-8	-101	199	99	6	18	4	-99	66	99	7	-19	-2	98	163	99	7	-15	5	104	169	99	7	-11	-2	72	5	99
6	15	-7	147	183	99	6	19	-7	-60	27	99	7	-19	-1	205	221	99	7	-15	6	-57	131	99	7	-11	-1	219	208	99
6	15	-6	256	238	99	6	19	-6	-55	26	99	7	-19	0	-144	25	99	7	-14	-7	-213	4	99	7	-11	0	133	53	99
6	15	-5	268	279	99	6	19	-5	101	21	99	7	-19	1	101	12	99	7	-14	-6	56	6	99	7	-11	1	171	126	99
6	15	-4	203	163	99	6	19	-4	-116	72	99	7	-19	2	126	79	99	7	-14	-5	63	55	99	7	-11	2	122	86	99
6	15	-3	326	331	99	6	19	-3	-99	31	99	7	-19	3	98	108	99	7	-14	-4	157	9	99	7	-11	3	320	328	99
7	-11	4	351	346	99	7	-8	6	-194	80	99	7	-5	5	347	365	99	7	-2	3	273	258	99	7	1	1	317	321	99
7	-11	5	124	66	99	7	-8	7	-117	56	99	7	-5	6	-69	21	99	7	-2	4	47	20	99	7	1	2	207	226	99
7	-11	6	-142	21	99	7	-8	8	90	102	99	7	-5	7	-212	27	99	7	-2	5	-48	13	99	7	1	3	380	363	99
7	-11	7	103	16	99	7	-7	-9	-109	44	99	7	-5	8	89	41	99	7	-2	6	-156	13	99	7	1	4	105	127	99
7	-10	-9	48	174	99	7	-7	-8	-89	1	99	7	-4	-10	114	104	99	7	-2	7	-169	72	99	7	1	5	80	5	99
7	-10	-8	123	189	99	7	-7	-7	329	310	99	7	-4	-9	-209	17	99	7	-2	8	-19	65	99	7	1	6	98	104	99
7	-10	-7	89	40	99	7	-7	-6	138	104	99	7	-4	-8	95	57	99	7	-1	-10	118	45	99	7	1	7	-93	12	99
7	-10	-6	-117	94	99	7	-7	-5	425	417	99	7	-4	-7	-131	68	99	7	-1	-9	107	26	99	7	1	8	133	61	99
7	-10	-5	112	36	99	7	-7	-4	244	243	99	7	-4	-6	-80	14	99	7	-1	-8	-212	8	99	7	2	-10	84	89	99
7	-10	-4	100	99	99	7	-7	-3	251	248	99	7	-4	-5	378	395	99	7	-1	-7	104	55	99	7	2	-9	139	26	99
7	-10	-3	136	30	99	7	-7	-2	519	534	99	7	-4	-4	151	105	99	7	-1	-6	262	226	99	7	2	-8	80	91	99
7	-10	-2	71	71	99	7	-7	-1	197	186	99	7	-4	-3	148	134	99	7	-1	-5	207	224	99	7	2	-7	109	173	99
7	-10	-1	-117	18	99	7	-7	0	-65	129	99	7	-4	-2	102	59	99	7	-1	-4	322	309	99	7	2	-6	328	331	99
7	-10	0	175	164	99	7	-7	1	135	109	99	7	-4	-1	128	81	99	7	-1	-3	138	175	99	7	2	-5	141	171	99
7	-10	1	129	50	99	7	-7	2	93	104	99	7	-4	0	56	130	99	7	-1	-2	417	412	99	7	2	-4	65	92	99
7	-10	2	181	231	99	7	-7	3	380	377	99	7	-4	1	437	470	99	7	-1	-1	224	212	99	7	2	-3	210	218	99
7	-10	3	357	347	99	7	-7	4	454	438	99	7	-4	2	-125	103	99	7	-1	0	554	531	99	7	2	-2	847	791	99
7	-10	4	457	443	99	7	-7	5	-158	17	99	7	-4	3	342	372	99	7	-1	1	548	530	99	7	2	-1	750	736	99
7	-10	5	-113	45	99	7	-7	6	149	73	99	7	-4	4	163	185	99	7	-1	2	-39	68	99	7	2	0	216	233	99
7	-10	6	137	68	99	7	-7	7	173	95	99	7	-4	5	348	371	99	7	-1	3	45	67	99	7	2	1	80	74	99
7	-10	7	-112	22	99	7	-7	8	173	171	99	7	-4	6	86	33	99	7	-1	4	199	192	99	7	2	2	734	658	99
7	-10	8	42	110	99	7	-6	-10	30	38	99	7	-4	7	75	12	99	7	-1	5	267	235	99	7	2	3	576	603	99
7	-9	-9	43	67	99	7	-6	-9	113	25	99	7	-4	8	117	6	99	7	-1	6	109	154	99	7	2	4	-162	156	99
7	-9	-8	96	8	99	7	-6	-8	114	74	99	7	-3	-10	170	152	99	7	-1	7	86	102	99	7	2	5	-34	147	99
7	-9	-7	213	197	99	7	-6	-7	327	276	99	7	-3	-9	112	24	99	7	-1	8	129	29	99	7	2	6	-114	27	99
7	-9	-6	368	356	99	7	-6	-6	280	239	99	7	-3	-8	104	93	99	7	0	-10	-128	66	99	7	2	7	77	205	99
7	-9	-5	354	341	99	7	-6	-5	337	321	99	7	-3	-7	281	283	99	7	0	-9	157	174	99	7	2	8	43	41	99
7	-9	-4	25	83	99	7	-6	-4	230	193	99	7	-3	-6	408	390	99	7	0	-8	148	128	99	7	3	-10	-95	58	99
7	-9	-3	219	218	99	7	-6	-3	549	545	99	7	-3	-5	-165	36	99	7	0	-7	14	49	99	7	3	-9	-185	54	99
7	-9	-2	598	588	99	7	-6	-2	602	604	99	7	-3	-4	422	424	99	7	0	-6	121	51	99	7	3	-8	-68	102	99
7	-9	-1	391	384	99	7	-6	-1	90	72	99	7	-3	-3	360	356	99	7	0	-5	542	551	99	7	3	-7	36	153	99
7	-9	0	296	294	99	7	-6	0	83	66	99	7	-3	-2	-38	108	99	7	0	-4	484	498	99	7	3	-6	429	401	99
7	-9	1	207	200	99	7	-6	1	149	128	99	7	-3	-1	174	179	99	7	0	-3	181	222	99	7	3	-5	137	61	99
7	-9	2	431	446	99	7	-6	2	248	274	99	7	-3	0	-56	110	99	7	0	-2	432	422	99	7	3	-4	212	224	99
7	-9	3	180	140	99	7	-6	3	56	7	99	7	-3	1	484	483	99	7	0	-1	53	184	99	7	3	-3	195	230	99
7	-9	4	-108	38	99	7	-6	4	301	306	99	7	-3	2	-147	89	99	7	0	0	486	472	99	7	3	-2	563	561	99
7	-9	5	143	118	99	7	-6	5	259	246	99	7	-3	3	-78	37	99	7	0	1	619	621	99	7	3	-1	651	630	99
7	-9	6	132	30	99	7	-6	6	-10	9	99	7	-3	4	273	258	99	7	0	2	134	148	99	7	3	0	403	397	99
7	-9	7	-99	44	99	7	-6	7	105	43	99	7	-3	5	273	242	99	7	0	3	138	161	99	7	3	1	589	531	99
7	-9	8	77	57	99	7	-6	8	37	127	99	7	-3	6	57	44	99	7	0	4	-55	107	99	7	3	2	428	428	99
7	-8	-9	-69	2	99	7	-5	-10	87	6	99	7	-3	7	101	20	99	7	0	5	241	252	99	7	3	3	374	349	99
7	-8	-8	147	94	99	7	-5	-9	-98	8	99	7	-3	8	95	15	99	7	0	6	180	179	99	7	3	4	-154	85	99
7	-8	-7	41	26	99	7	-5	-8	17	102	99	7	-2	-10	53	27	99	7	0	7	71	110	99	7	3	5	-64	102	99
7	-8	-6	216	186	99	7	-5	-7	67	87	99	7	-2	-9	77	78	99	7	0	8	-160	80	99	7	3	6	78	9	99
7	-8	-5	465	466	99	7	-5	-6	244	250	99	7	-2	-8	114	126	99	7	1	-10	98	119	99	7	3	7	296	263	99
7	-8	-4	124	169	99	7	-5	-5	72	179	99	7	-2	-7	140	224	99	7	1	-9	-190	111	99	7	3	8	-121	126	99
7	-8	-3	259	239	99	7	-5	-4	164	203	99	7	-2	-6	161	176	99	7	1	-8	-60	132	99	7	4	-10	100	70	99
7	-8	-2	297	309	99	7	-5	-3	441	437	99	7	-2	-5	118	186	99	7	1	-7	80	106	99	7	4	-9	-59	51	99
7	-8	-1	491	477	99	7	-5	-2	270	281	99	7	-2	-4	773	740	99	7	1	-6	351	361	99	7	4	-8	71	62	99
7	-8	0	296	304	99	7	-5	-1	139	168	99	7	-2	-3	686	661	99	7	1	-5	590	590	99	7	4	-7	167	168	99
7	-8	1	-21	10	99	7	-5	0	167	156	99	7	-2	-2	315	319	99	7	1	-4	570	578	99	7	4	-6	162	107	99
7	-8	2	381	384	99	7	-5	1	388	404	99	7	-2	-1	426	437	99	7	1	-3	225	202	99	7	4	-5	265	244	99
7	-8	3	687	678	99	7	-5	2	150	120	99	7	-2	0	79	52	99	7	1	-2	580	559	99	7	4	-4	229	202	99
7	-8	4	397	403	99	7	-5	3	330	303	99	7	-2	1	62	80	99	7	1	-1	752	762	99	7	4	-3	67	75	99
7	-8	5	112	106	99	7	-5	4	-141	79	99	7	-2	2	210	218	99	7	1	0	63	78	99	7	4	-2	88	126	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
7	4	-1	83	168	99	7	7	-3	46	1	99	7	10	-3	-37	55	99	7	13	1	-135	22	99	7	17	-4	71	93	99
7	4	0	415	390	99	7	7	-2	265	265	99	7	10	-2	239	221	99	7	13	2	113	36	99	7	17	-3	-113	24	99
7	4	1	404	404	99	7	7	-1	-318	88	99	7	10	-1	-176	8	99	7	13	3	6	15	99	7	17	-2	67	113	99
7	4	2	216	229	99	7	7	0	99	34	99	7	10	0	-122	49	99	7	13	4	273	217	99	7	17	-1	-113	162	99
7	4	3	202	134	99	7	7	1	156	147	99	7	10	1	118	36	99	7	13	5	-155	63	99	7	17	0	-47	62	99
7	4	4	91	146	99	7	7	2	-160	19	99	7	10	2	293	277	99	7	13	6	-85	85	99	7	17	1	11	25	99
7	4	5	27	43	99	7	7	3	147	213	99	7	10	3	-258	58	99	7	14	-9	141	148	99	7	17	2	100	67	99
7	4	6	-186	18	99	7	7	4	-132	32	99	7	10	4	137	151	99	7	14	-8	194	238	99	7	17	3	-159	143	99
7	4	7	187	150	99	7	7	5	116	10	99	7	10	5	190	192	99	7	14	-7	213	188	99	7	17	4	61	116	99
7	4	8	167	173	99	7	7	6	158	140	99	7	10	6	112	128	99	7	14	-6	183	180	99	7	18	-7	11	89	99
7	5	-10	81	149	99	7	7	7	111	114	99	7	10	7	-156	47	99	7	14	-5	-150	36	99	7	18	-6	109	55	99
7	5	-9	-174	36	99	7	7	8	101	15	99	7	11	-10	59	77	99	7	14	-4	95	131	99	7	18	-5	85	55	99
7	5	-8	91	48	99	7	8	-10	-29	133	99	7	11	-9	-49	80	99	7	14	-3	60	33	99	7	18	-4	48	66	99
7	5	-7	329	320	99	7	8	-9	78	64	99	7	11	-8	69	148	99	7	14	-2	225	210	99	7	18	-3	231	233	99
7	5	-6	649	670	99	7	8	-8	346	341	99	7	11	-7	278	280	99	7	14	-1	288	244	99	7	18	-2	209	207	99
7	5	-5	273	267	99	7	8	-7	487	490	99	7	11	-6	110	176	99	7	14	0	132	13	99	7	18	-1	117	44	99
7	5	-4	104	88	99	7	8	-6	626	611	99	7	11	-5	244	247	99	7	14	1	98	41	99	7	18	0	-97	17	99
7	5	-3	-55	64	99	7	8	-5	102	45	99	7	11	-4	75	120	99	7	14	2	-101	83	99	7	18	1	115	104	99
7	5	-2	448	447	99	7	8	-4	71	196	99	7	11	-3	-187	35	99	7	14	3	184	138	99	7	18	2	-194	32	99
7	5	-1	556	515	99	7	8	-3	357	313	99	7	11	-2	22	14	99	7	14	4	184	175	99	7	18	3	-114	49	99
7	5	0	90	45	99	7	8	-2	764	730	99	7	11	-1	-132	30	99	7	14	5	121	130	99	7	18	4	-76	6	99
7	5	1	104	113	99	7	8	-1	300	320	99	7	11	0	357	375	99	7	14	6	-132	15	99	7	19	-7	-75	132	99
7	5	2	559	543	99	7	8	0	236	215	99	7	11	1	186	178	99	7	15	-9	155	208	99	7	19	-6	68	114	99
7	5	3	149	147	99	7	8	1	447	480	99	7	11	2	138	93	99	7	15	-8	-17	159	99	7	19	-5	108	102	99
7	5	4	229	209	99	7	8	2	575	584	99	7	11	3	-198	63	99	7	15	-7	-127	5	99	7	19	-4	-64	12	99
7	5	5	-171	68	99	7	8	3	219	249	99	7	11	4	122	6	99	7	15	-6	-81	37	99	7	19	-3	228	233	99
7	5	6	-153	76	99	7	8	4	116	6	99	7	11	5	77	149	99	7	15	-5	296	257	99	7	19	-2	262	283	99
7	5	7	50	3	99	7	8	5	-22	69	99	7	11	6	223	215	99	7	15	-4	410	397	99	7	19	-1	-119	126	99
7	5	8	134	129	99	7	8	6	-104	95	99	7	11	7	96	7	99	7	15	-3	-134	105	99	7	19	0	-143	12	99
7	6	-10	63	8	99	7	8	7	112	16	99	7	12	-9	74	127	99	7	15	-2	121	147	99	7	19	1	135	180	99
7	6	-9	-85	81	99	7	9	-10	80	84	99	7	12	-8	-123	116	99	7	15	-1	194	194	99	7	19	2	-113	89	99
7	6	-8	-21	79	99	7	9	-9	-202	31	99	7	12	-7	182	206	99	7	15	0	292	303	99	7	19	3	-56	20	99
7	6	-7	66	145	99	7	9	-8	226	175	99	7	12	-6	107	222	99	7	15	1	154	66	99	7	20	-6	86	84	99
7	6	-6	316	303	99	7	9	-7	176	150	99	7	12	-5	162	166	99	7	15	2	61	21	99	7	20	-5	-147	34	99
7	6	-5	-187	53	99	7	9	-6	352	345	99	7	12	-4	209	170	99	7	15	3	-148	48	99	7	20	-4	-124	13	99
7	6	-4	-70	13	99	7	9	-5	101	167	99	7	12	-3	110	90	99	7	15	4	73	40	99	7	20	-3	-27	77	99
7	6	-3	101	112	99	7	9	-4	411	392	99	7	12	-2	105	63	99	7	15	5	-110	19	99	7	20	-2	141	172	99
7	6	-2	405	396	99	7	9	-3	119	132	99	7	12	-1	49	131	99	7	16	-8	93	9	99	7	20	-1	-85	159	99
7	6	-1	685	672	99	7	9	-2	433	439	99	7	12	0	270	297	99	7	16	-7	128	83	99	7	20	0	-66	11	99
7	6	0	284	252	99	7	9	-1	129	130	99	7	12	1	114	44	99	7	16	-6	97	78	99	7	20	1	157	120	99
7	6	1	109	55	99	7	9	0	387	436	99	7	12	2	92	70	99	7	16	-5	92	207	99	7	20	2	160	80	99
7	6	2	425	408	99	7	9	1	316	339	99	7	12	3	-54	31	99	7	16	-4	299	289	99	7	21	-5	-109	103	99
7	6	3	381	334	99	7	9	2	463	489	99	7	12	4	145	156	99	7	16	-3	-177	129	99	7	21	-4	111	80	99
7	6	4	185	162	99	7	9	3	237	232	99	7	12	5	-174	44	99	7	16	-2	403	385	99	7	21	-3	136	80	99
7	6	5	113	61	99	7	9	4	143	198	99	7	12	6	106	183	99	7	16	-1	356	345	99	7	21	-2	90	17	99
7	6	6	24	36	99	7	9	5	-131	82	99	7	13	-9	96	46	99	7	16	0	274	346	99	7	21	-1	-92	44	99
7	6	7	-96	116	99	7	9	6	-221	28	99	7	13	-8	-108	81	99	7	16	1	102	45	99	7	21	0	-124	47	99
7	6	8	-54	20	99	7	9	7	-102	106	99	7	13	-7	69	88	99	7	16	2	-131	45	99	7	21	1	62	69	99
7	7	-10	177	159	99	7	10	-10	-61	4	99	7	13	-6	-57	100	99	7	16	3	144	106	99	7	22	-4	94	6	99
7	7	-9	-83	36	99	7	10	-9	100	48	99	7	13	-5	209	221	99	7	16	4	100	163	99	7	22	-3	95	187	99
7	7	-8	224	214	99	7	10	-8	-165	59	99	7	13	-4	211	157	99	7	16	5	-148	51	99	7	22	-2	47	135	99
7	7	-7	369	366	99	7	10	-7	136	187	99	7	13	-3	-248	15	99	7	17	-8	-53	37	99	7	22	-1	-18	89	99
7	7	-6	473	453	99	7	10	-6	-108	96	99	7	13	-2	-169	129	99	7	17	-7	87	6	99	7	22	0	59	58	99
7	7	-5	330	310	99	7	10	-5	101	62	99	7	13	-1	379	372	99	7	17	-6	119	33	99	8	-20	-2	-162	49	99
7	7	-4	73	31	99	7	10	-4	113	180	99	7	13	0	184	191	99	7	17	-5	65	6	99	8	-20	-1	-117	51	99
8	-20	0	100	24	99	8	-15	5	81	51	99	8	-11	1	314	319	99	8	-8	6	97	89	99	8	-5	7	-42	87	99
8	-20	1	95	99	99	8	-15	6	49	57	99	8	-11	2	291	316	99	8	-8	7	-97	66	99	8	-5	8	79	39	99
8	-20	2	78	11	99	8	-14	-7	-234	29	99	8	-11	3	220	216	99	8	-7	-9	120	61	99	8	-4	-10	96	124	99
8	-19	-4	74	116	99	8	-14	-6	96	105	99	8	-11	4	56	53	99	8	-7	-8	35	12	99	8	-4	-9	221	171	99
8	-19	-3	-99	70	99	8	-14	-5	107	58	99	8	-11	5	28	28	99	8	-7	-7	110	88	99	8	-4	-8	138	87	99
8	-19	-2	-86	73	99	8	-14	-4	-200	33	99	8	-11	6	-208	15	99	8	-7	-6	-62	151	99	8	-4	-7	195	136	99
8	-19	-1	40	24	99	8	-14	-3	93	221	99	8	-11	7	-166	53	99	8	-7	-5	132	42	99	8	-4	-6	-147	54	99
8	-19	0	39	49	99	8	-14	-2	-157	104	99	8	-10	-8	-57	89	99	8	-7	-4	151	149	99	8	-4	-5	335	356	99
8	-19	1	-129	28	99	8	-14	-1	204	179	99	8	-10	-7	219	227	99	8	-7	-3	235	196	99	8	-4	-4	469	488	99
8	-19	2	106	56	99	8	-14	0	80	14	99	8	-10	-6	201	152	99	8	-7	-2	231	217	99	8	-4	-3	282	288	99
8	-19	3	44	16	99	8	-14	1	84	15	99	8	-10	-5	231	211	99	8	-7	-1	305	306	99	8	-4	-2	600	597	99
8	-18	-5	124	103	99	8	-14	2	275	280	99	8	-10	-4	-124	65	99	8	-7	0	517	508	99	8	-4	-1	450	444	99
8	-18	-4	153	111	99	8	-14	3	237	269	99	8	-10	-3	390	365	99	8	-7	1	229	192	99	8	-4	0	652	655	99
8	-18	-3	95	77	99	8	-14	4	158	103	99	8	-10	-2	289	282	99	8	-7	2	225	242	99	8	-4	1	310	297	99
8	-18	-2	-194	44	99	8	-14	5	-123	65	99	8	-10	-1	197	189	99	8	-7	3	-84	94	99	8	-4	2	188	187	99
8	-18	-1	69	115	99	8	-14	6	38	9	99	8	-10	0	310	288	99	8	-7	4	424	417	99	8	-4	3	94	152	99
8	-18	0	55	138	99	8	-13	-7	42	36	99	8	-10	1	71	33	99	8	-7	5	300	325	99	8	-4	4	579	571	99
8	-18	1	142	52	99	8	-13	-6	-131	39	99	8	-10	2	79	166	99	8	-7	6	119	23	99	8	-4	5	86	79	99
8	-18	2	127	8	99	8	-13	-5	102	73	99	8	-10	3	-97	131	99	8	-7	7	-116	12	99	8	-4	6	175	234	99
8	-18	3	111	61	99	8	-13	-4	-74	38	99	8	-10	4	197	217	99	8	-7	8	-57	80	99	8	-4	7	66	157	99
8	-18	4	132	98	99	8	-13	-3	226	225	99	8	-10	5	-41	129	99	8	-6	-9	81	19	99	8	-4	8	-132	142	99
8	-17	-5	-42	99	99	8	-13	-2	-31	48	99	8	-10	6	84	18	99	8	-6	-8	142	92	99	8	-3	-10	73	9	99
8	-17	-4	90	76	99	8	-13	-1	163	92	99	8	-10	7	-171	56	99	8	-6	-7	-66	145	99	8	-3	-9	-118	60	99
8	-17	-3	-107	7	99	8	-13	0	57	59	99	8	-9	-9	100	21	99	8	-6	-6	71	135	99	8	-3	-8	-130	146	99
8	-17	-2	-58	5	99	8	-13	1	194	201	99	8	-9	-8	211	247	99	8	-6	-5	222	163	99	8	-3	-7	121	203	99
8	-17	-1	-79	49	99	8	-13	2	63	45	99	8	-9	-7	366	362	99	8	-6	-4	57	73	99	8	-3	-6	107	97	99
8	-17	0	101	24	99	8	-13	3	150	131	99	8	-9	-6	278	266	99	8	-6	-3	241	265	99	8	-3	-5	59	79	99
8	-17	1	-150	34	99	8	-13	4	108	50	99	8	-9	-5	170	107	99	8	-6	-2	49	5	99	8	-3	-4	-76	50	99
8	-17	2	114	97	99	8	-13	5	-135	55	99	8	-9	-4	204	172	99	8	-6	-1	144	126	99	8	-3	-3	506	509	99
8	-17	3	122	106	99	8	-13	6	95	49	99	8	-9	-3	431	413	99	8	-6	0	-110	17	99	8	-3	-2	651	669	99
8	-17	4	-136	33	99	8	-12	-8	-58	70	99	8	-9	-2	719	751	99	8	-6	1	103	17	99	8	-3	-1	340	344	99
8	-17	5	-113	113	99	8	-12	-7	102	184	99	8	-9	-1	424	401	99	8	-6	2	193	214	99	8	-3	0	297	294	99
8	-16	-6	-62	134	99	8	-12	-6	139	225	99	8	-9	0	126	126	99	8	-6	3	371	388	99	8	-3	1	28	37	99
8	-16	-5	294	309	99	8	-12	-5	202	205	99	8	-9	1	328	324	99	8	-6	4	127	136	99	8	-3	2	177	182	99
8	-16	-4	123	164	99	8	-12	-4	-44	103	99	8	-9	2	231	216	99	8	-6	5	167	121	99	8	-3	3	0	87	99
8	-16	-3	-80	76	99	8	-12	-3	216	154	99	8	-9	3	152	30	99	8	-6	6	125	40	99	8	-3	4	231	300	99
8	-16	-2	232	226	99	8	-12	-2	254	225	99	8	-9	4	115	165	99	8	-6	7	-63	12	99	8	-3	5	90	66	99
8	-16	-1	269	307	99	8	-12	-1	320	296	99	8	-9	5	60	79	99	8	-6	8	89	73	99	8	-3	6	81	185	99
8	-16	0	75	179	99	8	-12	0	-117	25	99	8	-9	6	-73	79	99	8	-5	-10	90	36	99	8	-3	7	128	178	99
8	-16	1	60	5	99	8	-12	1	308	303	99	8	-9	7	-153	7	99	8	-5	-9	119	131	99	8	-3	8	155	173	99
8	-16	2	143	84	99	8	-12	2	139	147	99	8	-8	-9	-101	89	99	8	-5	-8	110	122	99	8	-2	-10	139	141	99
8	-16	3	96	55	99	8	-12	3	122	68	99	8	-8	-8	58	151	99	8	-5	-7	193	89	99	8	-2	-9	202	216	99
8	-16	4	94	177	99	8	-12	4	-150	26	99	8	-8	-7	177	126	99	8	-5	-6	-96	135	99	8	-2	-8	112	252	99
8	-16	5	-74	1	99	8	-12	5	74	5	99	8	-8	-6	200	153	99	8	-5	-5	321	326	99	8	-2	-7	168	121	99
8	-15	-6	86	179	99	8	-12	6	92	44	99	8	-8	-5	168	146	99	8	-5	-4	363	390	99	8	-2	-6	354	340	99
8	-15	-5	156	219	99	8	-12	7	-85	6	99	8	-8	-4	339	334	99	8	-5	-3	155	143	99	8	-2	-5	702	716	99
8	-15	-4	154	124	99	8	-11	-8	-118	79	99	8	-8	-3	-52	140	99	8	-5	-2	237	225	99	8	-2	-4	697	691	99
8	-15	-3	85	44	99	8	-11	-7	75	112	99	8	-8	-2	200	172	99	8	-5	-1	413	428	99	8	-2	-3	94	12	99
8	-15	-2	254	253	99	8	-11	-6	191	174	99	8	-8	-1	46	19	99	8	-5	0	526	509	99	8	-2	-2	186	213	99
8	-15	-1	473	435	99	8	-11	-5	-188	13	99	8	-8	0	662	666	99	8	-5	1	200	217	99	8	-2	-1	393	183	99
8	-15	0	204	200	99	8	-11	-4	-135	32	99	8	-8	1	552	558	99	8	-5	2	-108	24	99	8	-2	0	444	466	99
8	-15	1	-216	159	99	8	-11	-3	-74	29	99	8	-8	2	445	470	99	8	-5	3	349	350	99	8	-2	1	227	198	99
8	-15	2	289	306	99	8	-11	-2	280	272	99	8	-8	3	81	117	99	8	-5	4	299	295	99	8	-2	2	178	119	99
8	-15	3	236	271	99	8	-11	-1	214	187	99	8	-8	4	102	169	99	8	-5	5	135	19	99	8	-2	3	145	123	99
8	-15	4	230	242	99	8	-11	0	97	24	99	8	-8	5	79	194	99	8	-5	6	106	124	99	8	-2	4	251	228	99

h	k	l	Fo	Fc	sigF2
0	-2	5	101	56	99
0	-2	6	-43	48	99
0	-2	7	31	95	99
0	-2	8	-92	97	99
0	-1	-10	-111	66	99
0	-1	-9	55	140	99
0	-1	-8	-163	88	99
0	-1	-7	187	169	99
0	-1	-6	207	184	99
0	-1	-5	622	621	99
0	-1	-4	567	592	99
0	-1	-3	483	503	99
0	-1	-2	863	851	99
0	-1	-1	760	763	99
0	-1	0	843	783	99
0	-1	1	-119	57	99
0	-1	2	348	365	99
0	-1	3	418	404	99
0	-1	4	515	533	99
0	-1	5	197	210	99
0	-1	6	244	283	99
0	-1	7	-142	45	99
0	-1	8	-95	28	99
0	0	-10	-113	68	99
0	0	-9	53	30	99
0	0	-8	-103	98	99
0	0	-7	96	95	99
0	0	-6	235	219	99
0	0	-5	107	158	99
0	0	-4	146	100	99
0	0	-3	393	396	99
0	0	-2	376	380	99
0	0	-1	487	495	99
0	0	0	446	404	99
0	0	1	63	55	99
0	0	2	286	274	99
0	0	3	148	141	99
0	0	4	187	170	99
0	0	5	28	116	99
0	0	6	391	381	99
0	0	7	134	128	99
0	0	8	-41	83	99
0	1	-10	20	83	99
0	1	-9	96	59	99
0	1	-8	186	199	99
0	1	-7	365	352	99
0	1	-6	370	358	99
0	1	-5	545	545	99
0	1	-4	-83	21	99
0	1	-3	489	521	99
0	1	-2	571	536	99
0	1	-1	163	115	99
0	1	0	164	118	99
0	1	1	-106	61	99
0	1	2	246	229	99
0	1	3	385	369	99
0	1	4	274	252	99
0	1	5	-88	16	99
0	1	6	156	135	99
0	1	7	-153	60	99
0	1	8	-105	46	99
0	2	-10	-104	100	99
0	2	-9	-45	88	99
0	2	-8	127	63	99
0	2	-7	384	378	99
0	2	-6	413	412	99
0	2	-5	242	249	99
0	2	-4	85	164	99
0	2	-3	854	855	99
0	2	-2	817	794	99
0	2	-1	-85	23	99
0	2	0	96	118	99
0	2	1	368	367	99
0	2	2	724	652	99
0	2	3	331	291	99
0	2	4	-164	156	99
0	2	5	-193	90	99
0	2	6	220	209	99
0	2	7	-106	74	99
0	2	8	76	35	99
0	3	-10	-75	34	99
0	3	-9	-36	25	99
0	3	-8	104	59	99
0	3	-7	70	141	99
0	3	-6	91	200	99
0	3	-5	-156	53	99
0	3	-4	88	46	99
0	3	-3	562	550	99
0	3	-2	859	822	99
0	3	-1	-168	19	99
0	3	0	-110	87	99
0	3	1	475	431	99
0	3	2	612	589	99
0	3	3	150	141	99
0	3	4	91	160	99
0	3	5	277	256	99
0	3	6	333	340	99
0	3	7	88	165	99
0	3	8	57	41	99
0	4	-10	-171	90	99
0	4	-9	-150	45	99
0	4	-8	-127	10	99
0	4	-7	207	225	99
0	4	-6	507	501	99
0	4	-5	378	384	99
0	4	-4	323	289	99
0	4	-3	-100	40	99
0	4	-2	267	280	99
0	4	-1	90	52	99
0	4	0	108	61	99
0	4	1	451	465	99
0	4	2	253	218	99
0	4	3	196	168	99
0	4	4	213	216	99
0	4	5	315	296	99
0	4	6	243	210	99
0	4	7	167	158	99
0	4	8	52	1	99
0	5	-10	-69	64	99
0	5	-9	74	14	99
0	5	-8	64	57	99
0	5	-7	453	461	99
0	5	-6	428	400	99
0	5	-5	379	372	99
0	5	-4	211	183	99
0	5	-3	532	518	99
0	5	-2	478	455	99
0	5	-1	83	36	99
0	5	0	-30	17	99
0	5	1	47	21	99
0	5	2	357	317	99
0	5	3	194	173	99
0	5	4	37	163	99
0	5	5	252	235	99
0	5	6	-97	24	99
0	5	7	97	69	99
0	6	-10	76	58	99
0	6	-9	-184	55	99
0	6	-8	-44	17	99
0	6	-7	285	301	99
0	6	-6	-30	190	99
0	6	-5	376	363	99
0	6	-4	184	167	99
0	6	-3	500	463	99
0	6	-2	420	439	99
0	6	-1	276	262	99
0	6	0	434	385	99
0	6	1	404	414	99
0	6	2	294	263	99
0	6	3	158	177	99
0	6	4	129	133	99
0	6	5	67	24	99
0	6	6	184	193	99
0	6	7	110	2	99
0	7	-10	120	16	99
0	7	-9	97	64	99
0	7	-8	41	150	99
0	7	-7	107	79	99
0	7	-6	339	314	99
0	7	-5	385	386	99
0	7	-4	190	184	99
0	7	-3	87	17	99
0	7	-2	-115	26	99
0	7	-1	117	130	99
0	7	0	522	553	99
0	7	1	317	306	99
0	7	2	-103	11	99
0	7	3	152	131	99
0	7	4	337	330	99
0	7	5	205	205	99
0	7	6	162	144	99
0	7	7	22	14	99
0	8	-10	-153	92	99
0	8	-9	-98	204	99
0	8	-8	-64	199	99
0	8	-7	222	227	99
0	8	-6	-191	55	99
0	8	-5	283	271	99
0	8	-4	218	238	99
0	8	-3	288	273	99
0	8	-2	229	204	99
0	8	-1	496	503	99
0	8	0	163	152	99
0	8	1	253	268	99
0	8	2	314	312	99
0	8	3	115	97	99
0	8	4	196	174	99
0	8	5	-163	176	99
0	8	6	90	33	99
0	8	7	121	34	99
0	9	-10	106	73	99
0	9	-9	198	175	99
0	9	-8	-144	156	99
0	9	-7	70	110	99
0	9	-6	172	119	99
0	9	-5	441	452	99
0	9	-4	264	260	99
0	9	-3	68	196	99
0	9	-2	-134	7	99
0	9	-1	613	641	99
0	9	0	612	670	99
0	9	1	263	306	99
0	9	2	117	56	99
0	9	3	380	362	99
0	9	4	236	222	99
0	9	5	161	7	99
0	9	6	143	101	99
0	9	7	-105	15	99
0	10	-10	67	7	99
0	10	-9	49	110	99
0	10	-8	169	118	99
0	10	-7	114	72	99
0	10	-6	159	183	99
0	10	-5	434	427	99
0	10	-4	269	251	99
0	10	-3	163	123	99
0	10	-2	87	151	99
0	10	-1	448	417	99
0	10	0	493	575	99
0	10	1	-90	194	99
0	10	2	-162	201	99
0	10	3	519	472	99
0	10	4	402	368	99
0	10	5	75	131	99
0	10	6	-58	46	99
0	11	-9	-169	29	99
0	11	-8	87	23	99
0	11	-7	-198	106	99
0	11	-6	101	54	99
0	11	-5	186	176	99
0	11	-4	295	302	99
0	11	-3	-170	30	99
0	11	-2	76	121	99
0	11	-1	-113	12	99
0	11	0	200	146	99
0	11	1	-114	155	99
0	11	2	87	182	99
0	11	3	249	228	99
0	11	4	275	258	99
0	11	5	-21	161	99
0	11	6	66	5	99
0	12	-9	-82	182	99
0	12	-8	75	85	99
0	12	-7	-240	10	99
0	12	-6	219	211	99
0	12	-5	227	251	99
0	12	-4	156	99	99
0	12	-3	-115	40	99
0	12	-2	-60	16	99
0	12	-1	389	426	99
0	12	0	78	226	99
0	12	1	-94	86	99
0	12	2	-179	53	99
0	12	3	-103	82	99
0	12	4	100	41	99
0	12	5	128	120	99
0	12	6	79	36	99
0	13	-9	-69	68	99
0	13	-8	82	41	99
0	13	-7	120	102	99
0	13	-6	271	267	99
0	13	-5	310	342	99
0	13	-4	103	100	99
0	13	-3	-111	126	99
0	13	-2	212	228	99
0	13	-1	487	526	99
0	13	0	289	272	99
0	13	1	103	15	99
0	13	2	128	119	99
0	13	3	260	265	99
0	13	4	-62	105	99
0	13	5	84	58	99
0	14	-9	123	149	99
0	14	-8	90	7	99
0	14	-7	-38	24	99
0	14	-6	100	5	99
0	14	-5	116	47	99
0	14	-4	105	95	99
0	14	-3	-76	98	99
0	14	-2	-99	171	99
0	14	-1	-163	18	99
0	14	0	181	110	99
0	14	1	88	45	99
0	14	2	209	208	99
0	14	3	273	250	99
0	14	4	-130	55	99
0	14	5	-140	12	99
0	15	-8	-118	79	99
0	15	-7	137	134	99
0	15	-6	287	237	99
0	15	-5	262	288	99
0	15	-4	-46	95	99
0	15	-3	146	114	99
0	15	-2	110	99	99
0	15	-1	406	402	99
0	15	0	276	296	99
0	15	1	-90	40	99
0	15	2	-54	51	99
0	15	3	52	28	99
0	15	4	-150	83	99
0	15	5	125	19	99
0	16	-8	102	55	99
0	16	-7	83	115	99
0	16	-6	176	197	99
0	16	-5	184	180	99
0	16	-4	126	138	99
0	16	-3	231	258	99
0	16	-2	260	268	99
0	16	-1	296	278	99
0	16	0	109	91	99
0	16	1	107	84	99
0	16	2	-74	150	99
0	16	3	76	136	99
0	16	4	-114	76	99
0	17	-8	-70	53	99
0	17	-7	116	12	99
0	17	-6	110	87	99
0	17	-5	-36	61	99
0	17	-4	69	20	99
0	17	-3	138	134	99
0	17	-2	214	174	99
0	17	-1	104	10	99
0	17	0	115	100	99
0	17	1	114	100	99
0	17	2	167	187	99
0	17	3	-46	111	99
0	17	4	-39	10	99
0	18	-7	96	41	99
0	18	-6	126	30	99
0	18	-5	-110	18	99
0	18	-4	84	72	99
0	18	-3	51	39	99
0	18	-2	102	70	99
0	18	-1	-171	74	99
0	18	0	110	89	99
0	18	1	-58	26	99
0	18	2	109	137	99
0	18	3	-103	42	99
0	19	-6	-83	28	99
0	19	-5	-81	6	99
0	19	-4	49	85	99
0	19	-3	96	151	99
0	19	-2	24	7	99
0	19	-1	86	19	99
0	19	0	25	9	99
0	19	1	-95	33	99
0	19	2	116	62	99
0	20	-6	81	0	99
0	20	-5	-149	69	99
0	20	-4	109	118	99
0	20	-3	191	168	99
0	20	-2	70	53	99
0	20	-1	-190	123	99
0	20	0	-166	94	99
0	20	1	-89	55	99
0	21	-4	62	57	99
0	21	-3	-91	41	99
0	21	-2	9	4	99
0	21	-1	-127	183	99
0	21	0	152	164	99
9	-19	-3	81	47	99
9	-19	-2	55	9	99
9	-19	-1	111	100	99
9	-19	0	-51	88	99
9	-19	1	-103	75	99
9	-19	2	94	36	99
9	-18	-4	152	111	99
9	-18	-3	-68	8	99
9	-18	-2	103	134	99
9	-18	-1	-159	143	99
9	-18	0	-70	133	99
9	-18	1	-69	17	99
9	-18	2	-167	87	99
9	-18	3	-80	177	99
9	-17	-5	-179	41	99
9	-17	-4	90	83	99
9	-17	-3	72	27	99
9	-17	-2	-92	46	99
9	-17	-1	109	70	99
9	-17	0	103	40	99
9	-17	1	55	66	99
9	-17	2	162	160	99
9	-17	3	-77	101	99
9	-17	4	92	59	99
9	-16	-5	114	136	99
9	-16	-4	-203	96	99
9	-16	-3	-67	101	99
9	-16	-2	-170	111	99
9	-16	-1	-59	116	99
9	-16	0	84	70	99
9	-16	1	92	20	99
9	-16	2	45	32	99
9	-16	3	121	134	99
9	-16	4	86	44	99
9	-15	-6	122	137	99
9	-15	-5	97	68	99
9	-15	-4	-69	50	99
9	-15	-3	105	174	99
9	-15	-2	200	142	99
9	-15	-1	-166	35	99
9	-15	0	78	101	99
9	-15	1	52	148	99
9	-15	2	121	225	99
9	-15	3	148	170	99
9	-15	4	117	32	99
9	-15	5	142	71	99
9	-14	-7	-182	104	99
9	-14	-6	-141	87	99
9	-14	-5	84	34	99
9	-14	-4	-83	25	99
9	-14	-3	104	158	99
9	-14	-2	140	140	99
9	-14	-1	-111	96	99
9	-14	0	262	230	99
9	-14	1	224	271	99
9	-14	2	263	242	99
9	-14	3	91	17	99
9	-14	4	-92	65	99
9	-14	5	120	123	99
9	-13	-7	-187	53	99
9	-13	-6	101	37	99
9	-13	-5	118	81	99
9	-13	-4	102	19	99
9	-13	-3	131	67	99
9	-13	-2	136	162	99
9	-13	-1	-24	65	99
9	-13	0	89	161	99
9	-13	1	210	258	99
9	-13	2	201	175	99
9	-13	3	78	47	99
9	-13	4	83	92	99
9	-13	5	113	81	99
9	-13	6	120	161	99
9	-12	-7	100	129	99
9	-12	-6	-133	106	99
9	-12	-5	97	132	99
9	-12	-4	-135	29	99
9	-12	-3	102	115	99
9	-12	-2	-75	26	99
9	-12	-1	-130	83	99
9	-12	0	104	81	99
9	-12	1	119	123	99
9	-12	2	-20	36	99
9	-12	3	-72	37	99
9	-12	4	-65	54	99
9	-12	5	-39	49	99
9	-12	6	-79	86	99
9	-11	-8	-122	57	99
9	-11	-7	-112	120	99
9	-11	-6	-157	6	99
9	-11	-5	-141	104	99
9	-11	-4	59	80	99
9	-11	-3	-171	132	99
9	-11	-2	159	160	99
9	-11	-1	291	329	99
9	-11	0	510	497	99
9	-11	1	165	194	99
9	-11	2	168	170	99
9	-11	3	-117	14	99
9	-11	4	-20	134	99
9	-11	5	66	24	99
9	-11	6	104	89	99
9	-10	-8	65	22	99
9	-10	-7	-71	22	99
9	-10	-6	75	81	99
9	-10	-5	119	108	99
9	-10	-4	89	66	99
9	-10	-3	121	15	99
9	-10	-2	98	14	99
9	-10	-1	472	486	99
9	-10	0	457	460	99
9	-10	1	-114	129	99
9	-10	2	110	140	99
9	-10	3	194	222	99
9	-10	4	222	269	99
9	-10	5	98	25	99
9	-10	6	154	98	99
9	-10	7	-124	59	99
9	-9	-8	93	94	99
9	-9	-7	137	83	99
9	-9	-6	-87	44	99
9	-9	-5	225	225	99
9	-9	-4	320	320	99
9	-9	-3	98	88	99
9	-9	-2	126	19	99
9	-9	-1	124	126	99
9	-9	0	-80	86	99
9	-9	1	94	85	99
9	-9	2	98	111	99
9	-9	3	-80	103	99
9	-9	4	68	76	99
9	-9	5	103	105	99
9	-9	6	-96	35	99
9	-9	7	-96	63	99
9	-8	-9	136	156	99
9	-8	-8	-54	138	99
9	-8	-7	-156	37	99
9	-8	-6	41	85	99
9	-8	-5	176	172	99
9	-8	-4	215	195	99
9	-8	-3	187	157	99
9	-8	-2	182	192	99
9	-8	-1	789	808	99
9	-8	0	668	671	99
9	-8	1	336	352	99
9	-8	2	126	96	99
9	-8	3	29	184	99
9	-8	4	169	202	99
9	-8	5	182	160	99
9	-8	6	93	69	99
9	-8	7	58	19	99
9	-7	-9	85	173	99
9	-7	-8	70	150	99
9	-7	-7	126	169	99
9	-7	-6	119	95	99
9	-7	-5	312	271	99
9	-7	-4	125	59	99
9	-7	-3	-59	97	99
9	-7	-2	152	56	99
9	-7	-1	612	607	99
9	-7	0	605	607	99
9	-7	1	297	281	99
9	-7	2	-35	110	99
9	-7	3	335	368	99
9	-7	4	258	274	99
9	-7	5	124	70	99
9	-7	6	-161	56	99
9	-7	7	94	118	99
9	-6	-9	67	62	99
9	-6	-8	148	74	99
9	-6	-7	208	181	99
9	-6	-6	78	172	99
9	-6	-5	-36	124	99
9	-6	-4	164	129	99
9	-6	-3	73	88	99
9	-6	-2	-114	77	99
9	-6	-1	61	94	99
9	-6	0	271	272	99
9	-6	1	202	166	99
9	-6	2	-155	10	99
9	-6	3	232	218	99
9	-6	4	-101	152	99
9	-6	5	-124	76	99
9	-6	6	-84	145	99
9	-6	7	103	122	99
9	-5	-9	59	166	99
9	-5	-8	-121	2	99
9	-5	-7	129	67	99
9	-5	-6	210	214	99
9	-5	-5	75	147	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	-5	-4	77	26	99	9	-2	-2	223	214	99	9	1	-1	-46	66	99	9	4	0	469	437	99	9	7	1	-103	10	99
9	-5	-3	-55	36	99	9	-2	-1	393	378	99	9	1	0	78	5	99	9	4	1	328	330	99	9	7	2	184	189	99
9	-5	-2	101	43	99	9	-2	0	325	296	99	9	1	1	38	17	99	9	4	2	53	119	99	9	7	3	299	348	99
9	-5	-1	376	362	99	9	-2	1	94	15	99	9	1	2	205	223	99	9	4	3	224	226	99	9	7	4	125	189	99
9	-5	0	80	111	99	9	-2	2	113	25	99	9	1	3	-205	25	99	9	4	4	415	384	99	9	7	5	162	178	99
9	-5	1	260	243	99	9	-2	3	-46	8	99	9	1	4	176	167	99	9	4	5	303	300	99	9	7	6	-5	28	99
9	-5	2	-189	41	99	9	-2	4	235	205	99	9	1	5	330	298	99	9	4	6	88	123	99	9	7	7	120	64	99
9	-5	3	79	30	99	9	-2	5	333	321	99	9	1	6	255	253	99	9	4	7	-186	78	99	9	8	-10	112	170	99
9	-5	4	-58	39	99	9	-2	6	82	186	99	9	1	7	125	77	99	9	5	-10	134	165	99	9	8	-9	-178	39	99
9	-5	5	-96	54	99	9	-2	7	87	93	99	9	2	-10	92	26	99	9	5	-9	129	57	99	9	8	-8	91	70	99
9	-5	6	-25	52	99	9	-1	-10	44	28	99	9	2	-9	91	13	99	9	5	-8	86	170	99	9	8	-7	127	125	99
9	-5	7	120	26	99	9	-1	-9	81	112	99	9	2	-8	124	81	99	9	5	-7	100	89	99	9	8	-6	208	239	99
9	-4	-9	109	164	99	9	-1	-8	101	78	99	9	2	-7	-133	37	99	9	5	-6	224	177	99	9	8	-5	135	155	99
9	-4	-8	-64	30	99	9	-1	-7	171	131	99	9	2	-6	98	116	99	9	5	-5	178	103	99	9	8	-4	-30	82	99
9	-4	-7	-149	53	99	9	-1	-6	-134	75	99	9	2	-5	119	43	99	9	5	-4	187	181	99	9	8	-3	217	196	99
9	-4	-6	-130	162	99	9	-1	-5	227	204	99	9	2	-4	331	340	99	9	5	-3	75	53	99	9	8	-2	568	546	99
9	-4	-5	167	214	99	9	-1	-4	343	343	99	9	2	-3	244	237	99	9	5	-2	385	391	99	9	8	-1	156	91	99
9	-4	-4	-44	37	99	9	-1	-3	477	462	99	9	2	-2	490	461	99	9	5	-1	-126	22	99	9	8	0	224	152	99
9	-4	-3	258	268	99	9	-1	-2	173	185	99	9	2	-1	205	236	99	9	5	0	173	179	99	9	8	1	269	232	99
9	-4	-2	249	243	99	9	-1	-1	272	301	99	9	2	0	173	159	99	9	5	1	49	128	99	9	8	2	-34	93	99
9	-4	-1	641	654	99	9	-1	0	286	276	99	9	2	1	342	311	99	9	5	2	314	269	99	9	8	3	54	76	99
9	-4	0	321	338	99	9	-1	1	362	365	99	9	2	2	115	74	99	9	5	3	141	93	99	9	8	4	118	112	99
9	-4	1	-121	195	99	9	-1	2	231	220	99	9	2	3	193	141	99	9	5	4	276	258	99	9	8	5	62	54	99
9	-4	2	-43	66	99	9	-1	3	-113	179	99	9	2	4	91	64	99	9	5	5	-98	99	99	9	8	6	75	40	99
9	-4	3	263	259	99	9	-1	4	192	145	99	9	2	5	-202	128	99	9	5	6	-77	39	99	9	9	-10	115	139	99
9	-4	4	184	139	99	9	-1	5	-158	117	99	9	2	6	123	84	99	9	5	7	96	11	99	9	9	-9	72	27	99
9	-4	5	273	265	99	9	-1	6	92	37	99	9	2	7	-55	108	99	9	6	-10	169	104	99	9	9	-8	-172	22	99
9	-4	6	122	85	99	9	-1	7	-122	24	99	9	3	-10	64	46	99	9	6	-9	25	10	99	9	9	-7	-108	93	99
9	-4	7	-83	37	99	9	0	-10	137	39	99	9	3	-9	-179	23	99	9	6	-8	-174	55	99	9	9	-6	287	261	99
9	-3	-10	-66	80	99	9	0	-9	201	170	99	9	3	-8	-101	71	99	9	6	-7	-79	50	99	9	9	-5	-61	87	99
9	-3	-9	-125	51	99	9	0	-8	101	113	99	9	3	-7	-128	5	99	9	6	-6	254	261	99	9	9	-4	129	119	99
9	-3	-8	75	56	99	9	0	-7	138	67	99	9	3	-6	98	128	99	9	6	-5	331	327	99	9	9	-3	189	149	99
9	-3	-7	191	170	99	9	0	-6	80	48	99	9	3	-5	241	229	99	9	6	-4	383	404	99	9	9	-2	591	563	99
9	-3	-6	84	189	99	9	0	-5	171	170	99	9	3	-4	514	500	99	9	6	-3	383	360	99	9	9	-1	272	267	99
9	-3	-5	96	69	99	9	0	-4	415	407	99	9	3	-3	531	541	99	9	6	-2	395	394	99	9	9	0	93	56	99
9	-3	-4	313	326	99	9	0	-3	586	573	99	9	3	-2	272	282	99	9	6	-1	485	441	99	9	9	1	117	51	99
9	-3	-3	342	356	99	9	0	-2	110	66	99	9	3	-1	366	312	99	9	6	0	-184	85	99	9	9	2	172	134	99
9	-3	-2	193	193	99	9	0	-1	-68	51	99	9	3	0	315	291	99	9	6	1	353	349	99	9	9	3	-93	98	99
9	-3	-1	287	262	99	9	0	0	-125	23	99	9	3	1	396	366	99	9	6	2	137	69	99	9	9	4	-140	30	99
9	-3	0	-90	121	99	9	0	1	361	360	99	9	3	2	105	21	99	9	6	3	181	203	99	9	9	5	-113	33	99
9	-3	1	187	190	99	9	0	2	259	243	99	9	3	3	274	266	99	9	6	4	125	18	99	9	9	6	-230	20	99
9	-3	2	176	130	99	9	0	3	44	9	99	9	3	4	291	293	99	9	6	5	93	125	99	9	10	-9	-18	74	99
9	-3	3	354	354	99	9	0	4	123	142	99	9	3	5	375	343	99	9	6	6	113	58	99	9	10	-8	-140	5	99
9	-3	4	69	53	99	9	0	5	456	453	99	9	3	6	-76	69	99	9	6	7	83	57	99	9	10	-7	-117	82	99
9	-3	5	370	413	99	9	0	6	101	242	99	9	3	7	29	116	99	9	7	-10	-86	83	99	9	10	-6	88	171	99
9	-3	6	216	224	99	9	0	7	-61	30	99	9	4	-10	22	18	99	9	7	-9	-65	82	99	9	10	-5	62	162	99
9	-3	7	60	95	99	9	1	-10	-107	70	99	9	4	-9	121	47	99	9	7	-8	-127	34	99	9	10	-4	112	29	99
9	-2	-10	169	124	99	9	1	-9	150	121	99	9	4	-8	137	91	99	9	7	-7	85	76	99	9	10	-3	-67	36	99
9	-2	-9	15	109	99	9	1	-8	7	130	99	9	4	-7	-52	7	99	9	7	-6	-118	20	99	9	10	-2	-45	214	99
9	-2	-8	182	123	99	9	1	-7	218	190	99	9	4	-6	121	96	99	9	7	-5	-149	36	99	9	10	-1	266	249	99
9	-2	-7	66	211	99	9	1	-6	201	132	99	9	4	-5	435	425	99	9	7	-4	231	210	99	9	10	0	71	37	99
9	-2	-6	292	346	99	9	1	-5	56	79	99	9	4	-4	377	395	99	9	7	-3	245	271	99	9	10	1	-139	256	99
9	-2	-5	206	233	99	9	1	-4	92	61	99	9	4	-3	524	507	99	9	7	-2	23	58	99	9	10	2	297	332	99
9	-2	-4	165	161	99	9	1	-3	267	226	99	9	4	-2	87	117	99	9	7	-1	407	366	99	9	10	3	-96	117	99
9	-2	-3	48	35	99	9	1	-2	232	248	99	9	4	-1	294	311	99	9	7	0	150	184	99	9	10	4	81	20	99
9	10	5	78	10	99	9	14	-1	88	118	99	9	19	-3	-137	117	99	10	-14	3	186	159	99	10	-10	4	-23	43	99
9	10	6	-140	58	99	9	14	0	175	187	99	9	19	-2	73	60	99	10	-14	4	98	131	99	10	-10	5	65	26	99
9	11	-9	105	48	99	9	14	1	149	255	99	9	19	-1	-132	13	99	10	-14	5	113	95	99	10	-10	6	30	41	99
9	11	-8	69	50	99	9	14	2	94	146	99	9	19	0	110	6	99	10	-13	-7	-14	77	99	10	-9	-8	72	83	99
9	11	-7	76	85	99	9	14	3	141	44	99	9	19	1	140	107	99	10	-13	-6	82	25	99	10	-9	-7	25	208	99
9	11	-6	-146	18	99	9	14	4	-149	91	99	9	20	-5	94	116	99	10	-13	-5	-138	48	99	10	-9	-6	264	305	99
9	11	-5	21	137	99	9	15	-8	-108	131	99	9	20	-4	32	62	99	10	-13	-4	-112	76	99	10	-9	-5	245	239	99
9	11	-4	82	104	99	9	15	-7	105	20	99	9	20	-3	-103	7	99	10	-13	-3	51	157	99	10	-9	-4	59	18	99
9	11	-3	-102	8	99	9	15	-6	125	12	99	9	20	-2	96	94	99	10	-13	-2	62	40	99	10	-9	-3	289	267	99
9	11	-2	-114	39	99	9	15	-5	128	135	99	9	20	-1	-62	91	99	10	-13	-1	-79	156	99	10	-9	-2	196	198	99
9	11	-1	-168	123	99	9	15	-4	69	153	99	9	20	0	87	14	99	10	-13	0	-69	114	99	10	-9	-1	97	96	99
9	11	0	149	177	99	9	15	-3	126	15	99	9	21	-3	27	13	99	10	-13	1	204	165	99	10	-9	0	-85	114	99
9	11	1	310	312	99	9	15	-2	104	125	99	9	21	-2	101	90	99	10	-13	2	-55	35	99	10	-9	1	120	55	99
9	11	2	280	307	99	9	15	-1	-153	131	99	10	-18	-3	-73	55	99	10	-13	3	108	87	99	10	-9	2	-203	36	99
9	11	3	98	74	99	9	15	0	-85	12	99	10	-18	-2	69	16	99	10	-13	4	104	75	99	10	-9	3	68	15	99
9	11	4	28	101	99	9	15	1	29	98	99	10	-18	-1	111	58	99	10	-13	5	-111	111	99	10	-9	4	77	104	99
9	11	5	-74	54	99	9	15	2	142	153	99	10	-18	0	100	48	99	10	-12	-7	-135	8	99	10	-9	5	-73	55	99
9	11	6	-74	111	99	9	15	3	110	9	99	10	-18	1	64	111	99	10	-12	-6	105	97	99	10	-9	6	-147	78	99
9	12	-9	-84	32	99	9	15	4	113	23	99	10	-18	2	-143	132	99	10	-12	-5	169	130	99	10	-8	-8	-141	52	99
9	12	-8	80	17	99	9	16	-8	156	89	99	10	-17	-4	-164	23	99	10	-12	-4	56	26	99	10	-8	-7	-57	50	99
9	12	-7	82	15	99	9	16	-7	-108	22	99	10	-17	-3	-199	42	99	10	-12	-3	151	124	99	10	-8	-6	172	105	99
9	12	-6	124	142	99	9	16	-6	114	91	99	10	-17	-2	50	45	99	10	-12	-2	-143	109	99	10	-8	-5	-126	13	99
9	12	-5	-37	1	99	9	16	-5	166	226	99	10	-17	-1	133	106	99	10	-12	-1	87	11	99	10	-8	-4	220	236	99
9	12	-4	81	21	99	9	16	-4	-106	213	99	10	-17	0	105	51	99	10	-12	0	114	77	99	10	-8	-3	280	274	99
9	12	-3	-181	47	99	9	16	-3	90	20	99	10	-17	1	176	165	99	10	-12	1	-34	12	99	10	-8	-2	329	297	99
9	12	-2	163	124	99	9	16	-2	84	32	99	10	-17	2	-115	141	99	10	-12	2	-157	86	99	10	-8	-1	86	129	99
9	12	-1	146	174	99	9	16	-1	151	81	99	10	-17	3	44	32	99	10	-12	3	43	5	99	10	-8	0	-139	124	99
9	12	0	-134	102	99	9	16	0	-148	211	99	10	-16	-5	81	157	99	10	-12	4	-151	29	99	10	-8	1	186	201	99
9	12	1	201	236	99	9	16	1	153	126	99	10	-16	-4	114	84	99	10	-12	5	44	87	99	10	-8	2	-124	15	99
9	12	2	244	250	99	9	16	2	-98	44	99	10	-16	-3	-39	64	99	10	-11	-7	84	60	99	10	-8	3	-80	70	99
9	12	3	110	58	99	9	16	3	-114	59	99	10	-16	-2	71	79	99	10	-11	-6	-18	122	99	10	-8	4	-66	12	99
9	12	4	92	134	99	9	16	4	-131	69	99	10	-16	-1	30	86	99	10	-11	-5	119	59	99	10	-8	5	84	59	99
9	12	5	-165	70	99	9	17	-7	48	54	99	10	-16	0	95	79	99	10	-11	-4	-55	48	99	10	-8	6	88	18	99
9	13	-9	-79	16	99	9	17	-6	32	39	99	10	-16	1	-92	6	99	10	-11	-3	82	27	99	10	-7	-9	-12	26	99
9	13	-8	84	66	99	9	17	-5	-80	114	99	10	-16	2	76	58	99	10	-11	-2	320	308	99	10	-7	-8	97	49	99
9	13	-7	89	54	99	9	17	-4	-24	93	99	10	-16	3	-111	17	99	10	-11	-1	245	273	99	10	-7	-7	149	102	99
9	13	-6	-113	12	99	9	17	-3	-101	107	99	10	-15	-5	120	163	99	10	-11	0	-38	57	99	10	-7	-6	-112	60	99
9	13	-5	87	98	99	9	17	-2	107	24	99	10	-15	-4	102	87	99	10	-11	1	53	135	99	10	-7	-5	-54	122	99
9	13	-4	84	115	99	9	17	-1	84	137	99	10	-15	-3	-45	45	99	10	-11	2	164	118	99	10	-7	-4	263	257	99
9	13	-3	-54	41	99	9	17	0	116	117	99	10	-15	-2	224	228	99	10	-11	3	-19	102	99	10	-7	-3	-60	46	99
9	13	-2	-146	80	99	9	17	1	-153	139	99	10	-15	-1	179	201	99	10	-11	4	49	8	99	10	-7	-2	364	367	99
9	13	-1	114	126	99	9	17	2	104	38	99	10	-15	0	119	161	99	10	-11	5	48	30	99	10	-7	-1	123	192	99
9	13	0	124	169	99	9	17	3	113	107	99	10	-15	1	191	174	99	10	-11	6	-114	15	99	10	-7	0	314	319	99
9	13	1	89	94	99	9	18	-6	-243	77	99	10	-15	2	108	42	99	10	-10	-8	-68	44	99	10	-7	1	281	266	99
9	13	2	124	35	99	9	18	-5	98	4	99	10	-15	3	115	121	99	10	-10	-7	149	144	99	10	-7	2	97	53	99
9	13	3	-129	41	99	9	18	-4	-109	18	99	10	-15	4	-149	100	99	10	-10	-6	166	141	99	10	-7	3	82	14	99
9	13	4	-109	102	99	9	18	-3	129	182	99	10	-14	-6	100	26	99	10	-10	-5	214	192	99	10	-7	4	-75	116	99
9	13	5	90	18	99	9	18	-2	-96	9	99	10	-14	-5	78	67	99	10	-10	-4	-262	79	99	10	-7	5	195	182	99
9	14	-8	-123	18	99	9	18	-1	96	115	99	10	-14	-4	75	54	99	10	-10	-3	36	94	99	10	-7	6	-43	115	99
9	14	-7	85	48	99	9	18	0	65	27	99	10	-14	-3	-150	69	99	10	-10	-2	-143	99	99	10	-6	-9	-107	36	99
9	14	-6	68	121	99	9	18	1	-86	139	99	10	-14	-2	173	145	99	10	-10	-1	107	198	99	10	-6	-8	94	87	99
9	14	-5	-157	79	99	9	18	2	111	121	99	10	-14	-1	117	197	99	10	-10	0	109	12	99	10	-6	-7	99	66	99
9	14	-4	-184	78	99	9	19	-6	-64	142	99	10	-14	0	-54	103	99	10	-10	1	-111	10	99	10	-6	-6	108	28	99
9	14	-3	-101	65	99	9	19	-5	131	88	99	10	-14	1	43	218	99	10	-10	2	-188	31	99	10	-6	-5	111	90	99
9	14	-2	69	57	99	9	19	-4	-92	29	99	10	-14	2	62	7	99	10	-10	3	109	131	99	10	-6	-4	131	10	99

h	k	l	Fo	Fc	sigF2
10	-6	-3	102	53	99
10	-6	-2	113	256	99
10	-6	-1	301	279	99
10	-6	0	47	51	99
10	-6	1	158	192	99
10	-6	2	168	156	99
10	-6	3	123	28	99
10	-6	4	97	63	99
10	-6	5	226	199	99
10	-6	6	85	129	99
10	-6	7	-178	147	99
10	-5	-9	69	68	99
10	-5	-8	28	91	99
10	-5	-7	34	24	99
10	-5	-6	86	114	99
10	-5	-5	151	70	99
10	-5	-4	195	193	99
10	-5	-3	87	22	99
10	-5	-2	-143	92	99
10	-5	-1	111	174	99
10	-5	0	483	458	99
10	-5	1	100	46	99
10	-5	2	206	198	99
10	-5	3	180	116	99
10	-5	4	149	91	99
10	-5	5	107	85	99
10	-5	6	101	93	99
10	-5	7	85	55	99
10	-4	-9	50	116	99
10	-4	-8	-138	101	99
10	-4	-7	-64	97	99
10	-4	-6	273	211	99
10	-4	-5	249	290	99
10	-4	-4	342	351	99
10	-4	-3	168	140	99
10	-4	-2	-115	115	99
10	-4	-1	67	87	99
10	-4	0	464	482	99
10	-4	1	-119	73	99
10	-4	2	167	161	99
10	-4	3	256	207	99
10	-4	4	235	249	99
10	-4	5	121	57	99
10	-4	6	-132	24	99
10	-4	7	29	6	99
10	-3	-9	85	33	99
10	-3	-8	73	83	99
10	-3	-7	180	163	99
10	-3	-6	208	230	99
10	-3	-5	172	188	99
10	-3	-4	251	283	99
10	-3	-3	116	186	99
10	-3	-2	-42	59	99
10	-3	-1	-93	21	99
10	-3	0	406	383	99
10	-3	1	204	222	99
10	-3	2	-16	47	99
10	-3	3	206	203	99
10	-3	4	380	409	99
10	-3	5	153	135	99
10	-3	6	-58	56	99
10	-3	7	44	11	99
10	-2	-9	-50	228	99
10	-2	-8	239	261	99
10	-2	-7	-126	32	99
10	-2	-6	117	100	99
10	-2	-5	332	329	99
10	-2	-4	202	174	99
10	-2	-3	75	7	99
10	-2	-2	171	132	99
10	-2	-1	66	177	99
10	-2	0	176	213	99
10	-2	1	53	21	99
10	-2	2	-93	64	99
10	-2	3	102	134	99
10	-2	4	296	306	99
10	-2	5	78	68	99
10	-2	6	-138	64	99
10	-2	7	-141	27	99
10	-1	-10	-81	55	99
10	-1	-9	117	167	99
10	-1	-8	162	168	99
10	-1	-7	206	190	99
10	-1	-6	270	264	99
10	-1	-5	515	510	99
10	-1	-4	376	388	99
10	-1	-3	-143	35	99
10	-1	-2	87	35	99
10	-1	-1	389	389	99
10	-1	0	648	639	99
10	-1	1	177	206	99
10	-1	2	342	309	99
10	-1	3	97	69	99
10	-1	4	142	146	99
10	-1	5	102	171	99
10	-1	6	102	24	99
10	-1	7	94	58	99
10	0	-10	-116	81	99
10	0	-9	159	89	99
10	0	-8	120	28	99
10	0	-7	-170	110	99
10	0	-6	97	60	99
10	0	-5	242	222	99
10	0	-4	197	214	99
10	0	-3	11	31	99
10	0	-2	-53	27	99
10	0	-1	118	129	99
10	0	0	344	332	99
10	0	1	230	139	99
10	0	2	209	235	99
10	0	3	193	204	99
10	0	4	342	338	99
10	0	5	192	224	99
10	0	6	123	66	99
10	0	7	56	27	99
10	1	-10	111	96	99
10	1	-9	208	204	99
10	1	-8	102	17	99
10	1	-7	248	247	99
10	1	-6	238	208	99
10	1	-5	-39	38	99
10	1	-4	-100	126	99
10	1	-3	257	226	99
10	1	-2	397	391	99
10	1	-1	220	197	99
10	1	0	196	163	99
10	1	1	128	45	99
10	1	2	175	119	99
10	1	3	216	188	99
10	1	4	231	227	99
10	1	5	-154	103	99
10	1	6	-192	61	99
10	1	7	-153	20	99
10	2	-10	-114	91	99
10	2	-9	146	160	99
10	2	-8	-146	28	99
10	2	-7	334	360	99
10	2	-6	356	375	99
10	2	-5	107	149	99
10	2	-4	124	65	99
10	2	-3	431	396	99
10	2	-2	465	490	99
10	2	-1	132	89	99
10	2	0	245	260	99
10	2	1	115	87	99
10	2	2	369	387	99
10	2	3	63	5	99
10	2	4	100	52	99
10	2	5	53	30	99
10	2	6	16	55	99
10	2	7	-109	29	99
10	3	-10	35	12	99
10	3	-9	-122	41	99
10	3	-8	31	37	99
10	3	-7	230	226	99
10	3	-6	230	240	99
10	3	-5	223	219	99
10	3	-4	233	247	99
10	3	-3	435	421	99
10	3	-2	337	361	99
10	3	-1	-52	113	99
10	3	0	39	14	99
10	3	1	171	139	99
10	3	2	406	391	99
10	3	3	168	166	99
10	4	-12	-124	19	99
10	4	-11	162	80	99
10	4	-10	152	99	99
10	4	-9	146	153	99
10	4	-8	-177	121	99
10	4	-7	-152	9	99
10	4	-6	87	57	99
10	4	-5	-116	14	99
10	4	-4	-146	74	99
10	4	-3	140	185	99
10	4	-2	71	129	99
10	4	-1	187	200	99
10	4	0	310	283	99
10	4	1	211	183	99
10	4	2	363	316	99
10	4	3	314	299	99
10	4	4	91	78	99
10	4	5	111	108	99
10	4	6	-109	141	99
10	5	-10	-123	150	99
10	5	-9	111	153	99
10	5	-8	94	104	99
10	5	-7	290	229	99
10	5	-6	229	245	99
10	5	-5	97	117	99
10	5	-4	211	191	99
10	5	-3	149	130	99
10	5	-2	198	147	99
10	5	-1	131	126	99
10	5	0	330	308	99
10	5	1	-105	149	99
10	5	2	99	54	99
10	5	3	220	187	99
10	5	4	-21	30	99
10	5	5	78	83	99
10	5	6	-113	41	99
10	6	-10	-185	42	99
10	6	-9	-102	76	99
10	6	-8	-88	59	99
10	6	-7	98	175	99
10	6	-6	268	212	99
10	6	-5	89	76	99
10	6	-4	32	140	99
10	6	-3	413	368	99
10	6	-2	314	301	99
10	6	-1	115	102	99
10	6	0	153	44	99
10	6	1	96	17	99
10	6	2	73	182	99
10	6	3	-59	5	99
10	6	4	-187	7	99
10	6	5	123	5	99
10	6	6	-108	40	99
10	7	-9	-140	107	99
10	7	-8	45	46	99
10	7	-7	96	95	99
10	7	-6	-124	45	99
10	7	-5	-27	43	99
10	7	-4	326	305	99
10	7	-3	180	154	99
10	7	-2	-145	106	99
10	7	-1	332	329	99
10	7	0	431	445	99
10	7	1	350	326	99
10	7	2	233	224	99
10	7	3	45	83	99
10	7	4	130	47	99
10	7	5	64	122	99
10	7	6	69	74	99
10	8	-9	55	52	99
10	8	-8	106	62	99
10	8	-7	215	200	99
10	8	-6	55	21	99
10	8	-5	239	218	99
10	8	-4	131	138	99
10	8	-3	292	292	99
10	8	-2	-98	68	99
10	8	-1	50	38	99
10	8	0	268	204	99
10	8	1	180	167	99
10	8	2	-120	45	99
10	8	3	79	14	99
10	8	4	94	21	99
10	8	5	-96	104	99
10	8	6	43	17	99
10	9	-9	78	157	99
10	9	-8	-175	55	99
10	9	-7	-30	106	99
10	9	-6	-114	55	99
10	9	-5	301	314	99
10	9	-4	371	336	99
10	9	-3	381	391	99
10	9	-2	123	82	99
10	9	-1	418	425	99
10	9	0	-133	62	99
10	9	1	-169	29	99
10	9	2	142	111	99
10	9	3	86	97	99
10	9	4	246	175	99
10	9	5	-144	24	99
10	9	6	97	56	99
10	10	-9	102	188	99
10	10	-8	-99	85	99
10	10	-7	-55	41	99
10	10	-6	-87	67	99
10	10	-5	220	221	99
10	10	-4	287	240	99
10	10	-3	241	202	99
10	10	-2	101	97	99
10	10	-1	492	469	99
10	10	0	354	368	99
10	10	1	198	229	99
10	10	2	129	32	99
10	10	3	-59	165	99
10	10	4	67	206	99
10	10	5	127	115	99
10	11	-9	95	67	99
10	11	-8	77	118	99
10	11	-7	52	19	99
10	11	-6	36	32	99
10	11	-5	150	28	99
10	11	-4	137	118	99
10	11	-3	132	126	99
10	11	-2	114	117	99
10	11	-1	51	102	99
10	11	0	358	394	99
10	11	1	316	342	99
10	11	2	7	73	99
10	11	3	77	78	99
10	11	4	105	83	99
10	11	5	126	124	99
10	12	-9	118	123	99
10	12	-8	99	14	99
10	12	-7	95	25	99
10	12	-6	99	65	99
10	12	-5	103	214	99
10	12	-4	-59	115	99
10	12	-3	107	16	99
10	12	-2	-220	16	99
10	12	-1	184	140	99
10	12	0	-218	132	99
10	12	1	262	277	99
10	12	2	-88	69	99
10	12	3	71	52	99
10	12	4	106	34	99
10	12	5	-66	64	99
10	13	-8	87	55	99
10	13	-7	53	52	99
10	13	-6	148	196	99
10	13	-5	263	267	99
10	13	-4	205	248	99
10	13	-3	89	54	99
10	13	-2	188	145	99
10	13	-1	225	254	99
10	13	0	240	224	99
10	13	1	123	40	99
10	13	2	92	22	99
10	13	3	50	109	99
10	13	4	-116	42	99
10	14	-8	-30	33	99
10	14	-7	-114	96	99
10	14	-6	-96	104	99
10	14	-5	119	56	99
10	14	-4	57	47	99
10	14	-3	125	70	99
10	14	-2	79	157	99
10	14	-1	-138	129	99
10	14	0	185	220	99
10	14	1	-164	28	99
10	14	2	182	154	99
10	14	3	102	110	99
10	14	4	-66	10	99
10	15	-8	-44	75	99
10	15	-7	113	50	99
10	15	-6	112	109	99
10	15	-5	291	325	99
10	15	-4	-68	138	99
10	15	-3	-135	83	99
10	15	-2	88	28	99
10	15	-1	92	111	99
10	15	0	165	7	99
10	15	1	107	15	99
10	15	2	143	109	99
10	15	3	-106	19	99
10	16	-7	192	155	99
10	16	-6	115	173	99
10	16	-5	170	233	99
10	16	-4	-121	47	99
10	16	-3	103	71	99
10	16	-2	162	125	99
10	16	-1	139	225	99
10	16	0	-80	103	99
10	16	1	99	70	99
10	16	2	-92	82	99
10	16	3	90	62	99
10	17	-6	83	110	99
10	17	-5	-56	40	99
10	17	-4	-97	36	99
10	17	-3	64	76	99
10	17	-2	103	135	99
10	17	-1	134	122	99
10	17	0	84	27	99
10	17	1	-107	102	99
10	17	2	114	191	99
10	18	-6	-175	34	99
10	18	-5	75	56	99
10	18	-4	55	52	99
10	18	-3	86	26	99
10	18	-2	97	120	99
10	18	-1	-218	27	99
10	18	0	122	5	99
10	18	1	98	14	99
10	19	-5	95	34	99
10	19	-4	46	20	99
10	19	-3	-80	5	99
10	19	-2	-54	61	99
10	19	-1	-103	7	99
10	19	0	-49	23	99
10	20	-3	-82	61	99
10	20	-2	-49	43	99
11	-17	-2	70	85	99
11	-17	-1	-88	29	99
11	-17	0	-84	77	99
11	-17	1	-67	57	99
11	-16	-4	112	49	99
11	-16	-3	70	21	99
11	-16	-2	-108	32	99
11	-16	-1	107	145	99
11	-16	0	89	69	99
11	-16	1	94	70	99
11	-16	2	-80	35	99
11	-15	-5	154	7	99
11	-15	-4	53	75	99
11	-15	-3	123	140	99
11	-15	-2	-57	178	99
11	-15	-1	107	115	99
11	-15	0	-158	51	99
11	-15	1	-105	103	99
11	-15	2	-134	90	99
11	-15	3	97	24	99
11	-14	-5	-23	55	99
11	-14	-4	-72	95	99
11	-14	-3	168	209	99
11	-14	-2	204	208	99
11	-14	-1	-60	20	99
11	-14	0	-33	15	99
11	-14	1	22	86	99
11	-14	2	171	201	99
11	-14	3	85	50	99
11	-14	4	-184	108	99
11	-13	-6	-74	34	99
11	-13	-5	92	93	99
11	-13	-4	146	88	99
11	-13	-3	174	208	99
11	-13	-2	126	137	99
11	-13	-1	32	43	99
11	-13	0	95	32	99
11	-13	1	80	79	99
11	-13	2	174	181	99
11	-13	3	-31	49	99
11	-13	4	100	83	99
11	-12	-6	-146	97	99
11	-12	-5	111	35	99
11	-12	-4	-160	17	99
11	-12	-3	-69	25	99
11	-12	-2	39	57	99
11	-12	-1	99	47	99
11	-12	0	-121	97	99
11	-12	1	114	119	99
11	-12	2	75	14	99
11	-12	3	106	64	99
11	-12	4	-108	36	99
11	-11	-7	122	70	99
11	-11	-6	-68	44	99
11	-11	-5	-39	134	99
11	-11	-4	252	258	99
11	-11	-3	188	220	99
11	-11	-2	182	148	99
11	-11	-1	-97	55	99
11	-11	0	121	49	99
11	-11	1	112	46	99
11	-11	2	53	172	99
11	-11	3	-84	62	99
11	-11	4	113	165	99
11	-11	5	-89	36	99
11	-10	-7	102	29	99
11	-10	-6	88	112	99
11	-10	-5	241	211	99
11	-10	-4	248	266	99
11	-10	-3	259	256	99
11	-10	-2	-100	98	99
11	-10	-1	208	202	99
11	-10	0	196	249	99
11	-10	1	-35	81	99
11	-10	2	44	164	99
11	-10	3	78	40	99
11	-10	4	165	226	99
11	-10	5	-59	124	99
11	-9	-8	95	105	99
11	-9	-7	-110	108	99
11	-9	-6	-141	35	99
11	-9	-5	85	84	99
11	-9	-4	127	133	99
11	-9	-3	-27	70	99
11	-9	-2	64	43	99
11	-9	-1	142	82	99
11	-9	0	120	106	99
11	-9	1	-71	12	99
11	-9	2	119	45	99
11	-9	3	-140	60	99
11	-9	4	76	114	99
11	-9	5	-163	76	99
11	-8	-8	78	62	99
11	-8	-7	67	82	99
11	-8	-6	77	86	99
11	-8	-5	413	451	99
11	-8	-4	396	401	99
11	-8	-3	223	216	99
11	-8	-2	74	33	99
11	-8	-1	407	384	99
11	-8	0	251	268	99
11	-8	1	211	173	99
11	-8	2	-132	136	99
11	-8	3	80	33	99
11	-8	4	80	206	99
11	-8	5	-77	97	99
11	-8	6	160	26	99
11	-7	-8	101	39	99
11	-7	-7	-60	23	99
11	-7	-6	-111	80	99
11	-7	-5	401	407	99
11	-7	-4	362	358	99
11	-7	-3	218	235	99
11	-7	-2	-186	94	99
11	-7	-1	310	331	99
11	-7	0	276	283	99
11	-7	1	-86	52	99
11	-7	2	-185	5	99
11	-7	3	90	161	99
11	-7	4	309	330	99
11	-7	5	70	158	99
11	-7	6	78	64	99
11	-6	-8	-90	21	99
11	-6	-7	-148	19	99
11	-6	-6	53	42	99
11	-6	-5	-134	76	99
11	-6	-4	124	79	99
11	-6	-3	212	206	99
11	-6	-2	160	111	99
11	-6	-1	123	186	99
11	-6	0	188	191	99
11	-6	1	26	11	99
11	-6	2	-92	125	99
11	-6	3	92	179	99
11	-6	4	151	181	99
11	-6	5	-84	146	99
11	-6	6	80	46	99
11	-5	-9	-44	117	99
11	-5	-8	-45	77	99
11	-5	-7	68	10	99
11	-5	-6	-111	45	99
11	-5	-5	279	270	99
11	-5	-4	132	198	99
11	-5	-3	-49	74	99
11	-5	-2	170	145	99
11	-5	-1	111	25	99
11	-5	0	-125	4	99
11	-5	1	149	82	99
11	-5	2	81	103	99
11	-5	3	86	113	99
11	-5	4	96	11	99
11	-5	5	-174	98	99
11	-5	6	-68	15	99
11	-4	-9	-68	149	99
11	-4	-8	-49	21	99
11	-4	-7	-34	93	99
11	-4	-6	206	183	99
11	-4	-5	404	413	99
11	-4	-4	303	310	99
11	-4	-3	-123	19	99
11	-4	-2	-103	105	99
11	-4	-1	347	342	99
11	-4	0	-123	153	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
11	-4	1	269	277	99	11	0	-8	45	117	99	11	3	-1	98	54	99	11	6	6	-113	17	99	11	10	0	-279	60	99
11	-4	2	-35	124	99	11	0	-7	216	215	99	11	3	0	303	287	99	11	7	-9	31	57	99	11	10	1	66	87	99
11	-4	3	120	121	99	11	0	-6	173	171	99	11	3	1	567	547	99	11	7	-8	63	139	99	11	10	2	122	86	99
11	-4	4	110	131	99	11	0	-5	96	57	99	11	3	2	97	93	99	11	7	-7	197	83	99	11	10	3	166	143	99
11	-4	5	-104	4	99	11	0	-4	62	124	99	11	3	3	-42	124	99	11	7	-6	38	10	99	11	10	4	83	74	99
11	-4	6	94	3	99	11	0	-3	78	158	99	11	3	4	-98	64	99	11	7	-5	131	176	99	11	10	5	-84	20	99
11	-3	-9	48	57	99	11	0	-2	288	296	99	11	3	5	83	75	99	11	7	-4	246	217	99	11	11	-8	109	46	99
11	-3	-8	72	177	99	11	0	-1	141	157	99	11	3	6	-74	64	99	11	7	-3	-80	60	99	11	11	-7	78	6	99
11	-3	-7	97	172	99	11	0	0	134	184	99	11	4	-9	180	206	99	11	7	-2	139	194	99	11	11	-6	-109	24	99
11	-3	-6	159	159	99	11	0	1	585	573	99	11	4	-8	83	133	99	11	7	-1	439	388	99	11	11	-5	156	156	99
11	-3	-5	44	57	99	11	0	2	395	371	99	11	4	-7	183	157	99	11	7	0	313	287	99	11	11	-4	43	61	99
11	-3	-4	93	6	99	11	0	3	164	130	99	11	4	-6	-129	53	99	11	7	1	181	230	99	11	11	-3	283	257	99
11	-3	-3	95	126	99	11	0	4	-60	70	99	11	4	-5	251	260	99	11	7	2	102	156	99	11	11	-2	245	260	99
11	-3	-2	149	93	99	11	0	5	117	119	99	11	4	-4	404	396	99	11	7	3	179	92	99	11	11	-1	282	247	99
11	-3	-1	314	295	99	11	0	6	94	42	99	11	4	-3	282	314	99	11	7	4	210	179	99	11	11	0	158	164	99
11	-3	0	-152	79	99	11	1	-9	124	6	99	11	4	-2	183	146	99	11	7	5	-134	92	99	11	11	1	112	87	99
11	-3	1	361	373	99	11	1	-8	86	15	99	11	4	-1	229	210	99	11	8	-9	-187	27	99	11	11	2	-160	151	99
11	-3	2	326	334	99	11	1	-7	86	102	99	11	4	0	544	518	99	11	8	-8	102	10	99	11	11	3	45	87	99
11	-3	3	212	213	99	11	1	-6	35	87	99	11	4	1	556	497	99	11	8	-7	-144	56	99	11	11	4	-85	75	99
11	-3	4	49	80	99	11	1	-5	118	41	99	11	4	2	266	291	99	11	8	-6	278	275	99	11	12	-6	139	54	99
11	-3	5	112	3	99	11	1	-4	-128	11	99	11	4	3	-61	17	99	11	8	-5	-202	54	99	11	12	-7	-195	31	99
11	-3	6	-102	41	99	11	1	-3	104	57	99	11	4	4	195	231	99	11	8	-4	-108	9	99	11	12	-6	128	106	99
11	-2	-9	-66	204	99	11	1	-2	179	178	99	11	4	5	-49	167	99	11	8	-3	128	157	99	11	12	-5	107	99	99
11	-2	-8	121	87	99	11	1	-1	-83	110	99	11	4	6	-120	45	99	11	8	-2	-67	58	99	11	12	-4	-61	94	99
11	-2	-7	116	16	99	11	1	0	278	232	99	11	5	-9	48	37	99	11	8	-1	90	230	99	11	12	-3	243	228	99
11	-2	-6	103	86	99	11	1	1	426	376	99	11	5	-8	146	161	99	11	8	0	162	93	99	11	12	-2	-116	90	99
11	-2	-5	338	350	99	11	1	2	372	385	99	11	5	-7	127	81	99	11	8	1	132	7	99	11	12	-1	-113	112	99
11	-2	-4	226	249	99	11	1	3	226	188	99	11	5	-6	74	157	99	11	8	2	-193	84	99	11	12	0	-54	110	99
11	-2	-3	102	66	99	11	1	4	71	64	99	11	5	-5	-64	27	99	11	8	3	-108	46	99	11	12	1	211	211	99
11	-2	-2	-93	35	99	11	1	5	122	217	99	11	5	-4	-61	46	99	11	8	4	168	185	99	11	12	2	171	183	99
11	-2	-1	199	223	99	11	1	6	124	70	99	11	5	-3	99	77	99	11	8	5	-95	16	99	11	12	3	-76	7	99
11	-2	0	130	191	99	11	2	-9	114	33	99	11	5	-2	162	161	99	11	9	-9	128	83	99	11	12	4	-115	23	99
11	-2	1	185	239	99	11	2	-8	128	126	99	11	5	-1	194	127	99	11	9	-8	87	20	99	11	13	-8	77	58	99
11	-2	2	368	355	99	11	2	-7	130	96	99	11	5	0	325	283	99	11	9	-7	78	7	99	11	13	-7	-166	52	99
11	-2	3	101	149	99	11	2	-6	111	107	99	11	5	1	149	62	99	11	9	-6	310	290	99	11	13	-6	-19	90	99
11	-2	4	-20	87	99	11	2	-5	-46	7	99	11	5	2	101	128	99	11	9	-5	251	243	99	11	13	-5	120	108	99
11	-2	5	-45	68	99	11	2	-4	62	59	99	11	5	3	-116	27	99	11	9	-4	-160	59	99	11	13	-4	113	43	99
11	-2	6	78	110	99	11	2	-3	149	132	99	11	5	4	298	287	99	11	9	-3	-106	51	99	11	13	-3	107	37	99
11	-1	-9	-108	97	99	11	2	-2	133	92	99	11	5	5	-80	101	99	11	9	-2	168	170	99	11	13	-2	95	108	99
11	-1	-8	59	121	99	11	2	-1	-100	65	99	11	5	6	-100	4	99	11	9	-1	106	73	99	11	13	-1	-69	23	99
11	-1	-7	221	215	99	11	2	0	45	28	99	11	6	-9	131	108	99	11	9	0	13	2	99	11	13	0	118	64	99
11	-1	-6	273	250	99	11	2	1	278	215	99	11	6	-8	306	305	99	11	9	1	-66	120	99	11	13	1	112	107	99
11	-1	-5	300	276	99	11	2	2	192	180	99	11	6	-7	112	129	99	11	9	2	-209	62	99	11	13	2	-174	56	99
11	-1	-4	81	70	99	11	2	3	225	212	99	11	6	-6	181	159	99	11	9	3	131	88	99	11	13	3	79	32	99
11	-1	-3	165	174	99	11	2	4	63	32	99	11	6	-5	284	273	99	11	9	4	-43	17	99	11	14	-7	71	61	99
11	-1	-2	246	238	99	11	2	5	32	93	99	11	6	-4	380	346	99	11	9	5	38	57	99	11	14	-6	57	52	99
11	-1	-1	470	473	99	11	2	6	82	19	99	11	6	-3	376	349	99	11	10	-9	84	91	99	11	14	-5	130	52	99
11	-1	0	-97	146	99	11	3	-9	165	101	99	11	6	-2	120	50	99	11	10	-8	-18	26	99	11	14	-4	-131	77	99
11	-1	1	252	195	99	11	3	-8	223	222	99	11	6	-1	43	116	99	11	10	-7	-197	44	99	11	14	-3	229	263	99
11	-1	2	-114	36	99	11	3	-7	270	288	99	11	6	0	123	118	99	11	10	-6	105	124	99	11	14	-2	197	184	99
11	-1	3	111	36	99	11	3	-6	158	110	99	11	6	1	283	246	99	11	10	-5	342	318	99	11	14	-1	-159	6	99
11	-1	4	222	217	99	11	3	-5	94	131	99	11	6	2	137	129	99	11	10	-4	150	124	99	11	14	0	-119	55	99
11	-1	5	134	60	99	11	3	-4	295	257	99	11	6	3	83	45	99	11	10	-3	228	156	99	11	14	1	65	148	99
11	-1	6	77	83	99	11	3	-3	300	276	99	11	6	4	84	89	99	11	10	-2	286	285	99	11	14	2	98	124	99
11	0	-9	-45	2	99	11	3	-2	-42	72	99	11	6	5	-45	36	99	11	10	-1	301	250	99	11	14	3	-94	5	99
11	15	-7	61	13	99	12	-13	0	145	81	99	12	-8	-1	130	94	99	12	-4	-2	-41	57	99	12	0	-6	170	35	99
11	15	-6	153	147	99	12	-13	1	151	166	99	12	-8	0	-108	6	99	12	-4	-1	-105	103	99	12	0	-5	25	93	99
11	15	-5	116	85	99	12	-13	2	-144	71	99	12	-8	1	90	54	99	12	-4	0	-109	178	99	12	0	-4	203	170	99
11	15	-4	90	3	99	12	-13	3	82	134	99	12	-8	2	105	16	99	12	-4	1	-43	12	99	12	0	-3	158	115	99
11	15	-3	99	139	99	12	-12	-6	61	14	99	12	-8	3	-66	116	99	12	-4	2	-121	23	99	12	0	-2	91	32	99
11	15	-2	96	90	99	12	-12	-5	97	12	99	12	-8	4	-81	4	99	12	-4	3	53	111	99	12	0	-1	252	253	99
11	15	-1	-145	3	99	12	-12	-4	-101	17	99	12	-8	5	-35	34	99	12	-4	4	-119	49	99	12	0	0	447	475	99
11	15	0	-102	7	99	12	-12	-3	-193	33	99	12	-7	-8	-144	23	99	12	-4	5	88	8	99	12	0	1	283	267	99
11	15	1	142	177	99	12	-12	-2	116	70	99	12	-7	-7	-71	12	99	12	-3	-8	135	140	99	12	0	2	-159	27	99
11	15	2	23	118	99	12	-12	-1	85	40	99	12	-7	-6	206	201	99	12	-3	-7	-101	115	99	12	0	3	-164	66	99
11	16	-6	81	55	99	12	-12	0	100	66	99	12	-7	-5	72	142	99	12	-3	-6	104	47	99	12	0	4	110	13	99
11	16	-5	-183	26	99	12	-12	1	-52	60	99	12	-7	-4	-91	6	99	12	-3	-5	68	8	99	12	0	5	156	83	99
11	16	-4	-37	121	99	12	-12	2	-122	65	99	12	-7	-3	100	93	99	12	-3	-4	162	153	99	12	1	-9	77	37	99
11	16	-3	75	88	99	12	-12	3	76	67	99	12	-7	-2	97	134	99	12	-3	-3	56	216	99	12	1	-8	89	81	99
11	16	-2	42	10	99	12	-11	-6	95	109	99	12	-7	-1	-127	38	99	12	-3	-2	93	66	99	12	1	-7	180	196	99
11	16	-1	-85	58	99	12	-11	-5	205	200	99	12	-7	0	100	140	99	12	-3	-1	71	124	99	12	1	-6	90	112	99
11	16	0	86	87	99	12	-11	-4	99	128	99	12	-7	1	-41	182	99	12	-3	0	381	365	99	12	1	-5	-85	29	99
11	16	1	82	24	99	12	-11	-3	199	197	99	12	-7	2	25	148	99	12	-3	1	111	249	99	12	1	-4	-146	76	99
11	16	2	68	5	99	12	-11	-2	-142	52	99	12	-7	3	241	285	99	12	-3	2	217	169	99	12	1	-3	-130	107	99
11	17	-6	69	34	99	12	-11	-1	48	106	99	12	-7	4	104	75	99	12	-3	3	100	70	99	12	1	-2	179	139	99
11	17	-5	48	86	99	12	-11	0	59	12	99	12	-7	5	86	101	99	12	-3	4	102	57	99	12	1	-1	135	172	99
11	17	-4	124	113	99	12	-11	1	51	105	99	12	-6	-8	117	23	99	12	-3	5	89	55	99	12	1	0	252	265	99
11	17	-3	97	166	99	12	-11	2	26	6	99	12	-6	-7	-162	44	99	12	-2	-9	-143	80	99	12	1	1	283	254	99
11	17	-2	-28	55	99	12	-11	3	103	101	99	12	-6	-6	148	142	99	12	-2	-8	-92	45	99	12	1	2	81	35	99
11	17	-1	72	65	99	12	-11	4	43	41	99	12	-6	-5	171	176	99	12	-2	-7	-151	5	99	12	1	3	105	37	99
11	17	0	-131	95	99	12	-10	-7	-151	44	99	12	-6	-4	71	17	99	12	-2	-6	-170	39	99	12	1	4	28	43	99
11	17	1	-48	165	99	12	-10	-6	-89	76	99	12	-6	-3	45	99	99	12	-2	-5	-27	28	99	12	1	5	78	37	99
11	18	-5	120	86	99	12	-10	-5	172	153	99	12	-6	-2	-123	227	99	12	-2	-4	201	216	99	12	2	-9	94	65	99
11	18	-4	13	57	99	12	-10	-4	-19	101	99	12	-6	-1	105	104	99	12	-2	-3	-105	49	99	12	2	-8	65	11	99
11	18	-3	154	143	99	12	-10	-3	43	77	99	12	-6	0	-39	70	99	12	-2	-2	109	109	99	12	2	-7	55	168	99
11	18	-2	41	106	99	12	-10	-2	42	38	99	12	-6	1	254	259	99	12	-2	-1	107	93	99	12	2	-6	138	139	99
11	18	-1	90	22	99	12	-10	-1	78	94	99	12	-6	2	175	209	99	12	-2	0	233	239	99	12	2	-5	-95	101	99
11	18	0	-42	64	99	12	-10	0	-88	33	99	12	-6	3	213	220	99	12	-2	1	230	252	99	12	2	-4	147	151	99
11	19	-3	41	69	99	12	-10	1	162	110	99	12	-6	4	93	107	99	12	-2	2	182	192	99	12	2	-3	173	120	99
11	19	-2	-110	98	99	12	-10	2	-147	27	99	12	-6	5	152	105	99	12	-2	3	80	84	99	12	2	-2	233	240	99
12	-16	-2	-120	45	99	12	-10	3	176	212	99	12	-5	-8	65	26	99	12	-2	4	96	92	99	12	2	-1	-70	16	99
12	-16	-1	-66	34	99	12	-10	4	140	62	99	12	-5	-7	94	62	99	12	-2	5	108	30	99	12	2	0	-150	9	99
12	-16	0	89	27	99	12	-9	-7	-77	40	99	12	-5	-6	-73	18	99	12	-1	-9	132	156	99	12	2	1	212	165	99
12	-15	-3	81	118	99	12	-9	-6	120	132	99	12	-5	-5	115	21	99	12	-1	-8	55	190	99	12	2	2	149	145	99
12	-15	-2	-21	2	99	12	-9	-5	-172	78	99	12	-5	-4	136	76	99	12	-1	-7	24	46	99	12	2	3	-102	70	99
12	-15	-1	-121	77	99	12	-9	-4	66	1	99	12	-5	-3	124	97	99	12	-1	-6	120	43	99	12	2	4	106	58	99
12	-15	0	-221	90	99	12	-9	-3	-115	103	99	12	-5	-2	235	241	99	12	-1	-5	132	125	99	12	2	5	-16	15	99
12	-15	1	-108	56	99	12	-9	-2	-39	48	99	12	-5	-1	152	176	99	12	-1	-4	413	412	99	12	3	-9	127	153	99
12	-14	-4	-96	119	99	12	-9	-1	-145	53	99	12	-5	0	-119	54	99	12	-1	-3	11	161	99	12	3	-8	66	116	99
12	-14	-3	48	175	99	12	-9	0	149	117	99	12	-5	1	196	183	99	12	-1	-2	138	70	99	12	3	-7	104	29	99
12	-14	-2	-152	34	99	12	-9	1	158	61	99	12	-5	2	185	190	99	12	-1	-1	41	93	99	12	3	-6	128	111	99
12	-14	-1	59	64	99	12	-9	2	136	104	99	12	-5	3	118	60	99	12	-1	0	233	222	99	12	3	-5	60	77	99
12	-14	0	98	81	99	12	-9	3	-127	127	99	12	-5	4	85	105	99	12	-1	1	-131	42	99	12	3	-4	96	105	99
12	-14	1	-129	150	99	12	-9	4	-71	77	99	12	-5	5	90	36	99	12	-1	2	147	56	99	12	3	-3	117	12	99
12	-14	2	99	16	99	12	-8	-7	62	12	99	12	-4	-8	137	105	99	12	-1	3	-68	119	99	12	3	-2	202	158	99
12	-13	-5	132	119	99	12	-8	-6	182	225	99	12	-4	-7	-150	68	99	12	-1	4	-82	52	99	12	3	-1	200	186	99
12	-13	-4	-126	132	99	12	-8	-5	88	123	99	12	-4	-6	-70	81	99	12	-1	5	-76	66	99	12	3	0	203	185	99
12	-13	-3	136	157	99	12	-8	-4	-138	20	99	12	-4	-5	112	89	99	12	0	-9	101	77	99	12	3	1	104	51	99
12	-13	-2	-119	13	99	12	-8	-3	-96	8	99	12	-4	-4	218	236	99	12	0	-8	70	152	99	12	3	2	145	159	99
12	-13	-1	127	65	99	12	-8	-2	126	60	99	12	-4	-3	33	91	99	12	0	-7	63	71	99	12	3	3	-157	46	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
12	3	4	115	103	99	12	7	-1	131	104	99	12	11	1	-36	127	99	13	-13	-4	49	13	99	13	-7	-7	103	126	99
12	3	5	87	47	99	12	7	0	132	32	99	12	11	2	89	12	99	13	-13	-3	73	35	99	13	-7	-6	-125	62	99
12	4	-9	-87	2	99	12	7	1	83	97	99	12	11	3	-81	21	99	13	-13	-2	106	115	99	13	-7	-5	140	213	99
12	4	-8	-101	48	99	12	7	2	-180	143	99	12	12	-7	-177	72	99	13	-13	-1	96	64	99	13	-7	-4	245	216	99
12	4	-7	-20	16	99	12	7	3	78	30	99	12	12	-6	-110	1	99	13	-13	0	-150	25	99	13	-7	-3	-124	93	99
12	4	-6	116	99	99	12	7	4	141	33	99	12	12	-5	-6	52	99	13	-13	1	109	122	99	13	-7	-2	-40	15	99
12	4	-5	-45	31	99	12	7	5	66	53	99	12	12	-4	-15	120	99	13	-12	-5	-148	19	99	13	-7	-1	159	182	99
12	4	-4	58	110	99	12	8	-8	117	30	99	12	12	-3	119	169	99	13	-12	-4	-64	91	99	13	-7	0	315	325	99
12	4	-3	133	64	99	12	8	-7	165	134	99	12	12	-2	120	30	99	13	-12	-3	78	92	99	13	-7	1	188	208	99
12	4	-2	191	145	99	12	8	-6	61	80	99	12	12	-1	-100	86	99	13	-12	-2	-90	31	99	13	-7	2	145	171	99
12	4	-1	360	327	99	12	8	-5	-73	86	99	12	12	0	-191	75	99	13	-12	-1	130	57	99	13	-7	3	52	4	99
12	4	0	240	211	99	12	8	-4	58	143	99	12	12	1	33	82	99	13	-12	0	113	21	99	13	-7	4	57	133	99
12	4	1	-174	56	99	12	8	-3	61	132	99	12	12	2	115	6	99	13	-12	1	35	103	99	13	-6	-7	-199	120	99
12	4	2	152	127	99	12	8	-2	83	94	99	12	12	3	-108	46	99	13	-12	2	-50	136	99	13	-6	-6	-32	90	99
12	4	3	185	113	99	12	8	-1	158	130	99	12	13	-7	-65	44	99	13	-11	-5	87	7	99	13	-6	-5	-43	52	99
12	4	4	-152	33	99	12	8	0	-200	39	99	12	13	-6	-25	18	99	13	-11	-4	27	38	99	13	-6	-4	43	136	99
12	4	5	-21	82	99	12	8	1	83	27	99	12	13	-5	-150	136	99	13	-11	-3	68	20	99	13	-6	-3	125	72	99
12	5	-9	99	118	99	12	8	2	95	45	99	12	13	-4	118	187	99	13	-11	-2	92	97	99	13	-6	-2	184	123	99
12	5	-8	67	78	99	12	8	3	117	82	99	12	13	-3	-52	25	99	13	-11	-1	7	45	99	13	-6	-1	96	155	99
12	5	-7	115	101	99	12	8	4	97	12	99	12	13	-2	103	49	99	13	-11	0	110	79	99	13	-6	0	200	170	99
12	5	-6	-140	36	99	12	9	-8	165	82	99	12	13	-1	114	141	99	13	-11	1	10	5	99	13	-6	1	100	157	99
12	5	-5	125	98	99	12	9	-7	194	165	99	12	13	0	-161	22	99	13	-11	2	-88	58	99	13	-6	2	93	70	99
12	5	-4	258	258	99	12	9	-6	-79	42	99	12	13	1	53	13	99	13	-11	3	60	46	99	13	-6	3	-132	24	99
12	5	-3	40	224	99	12	9	-5	222	247	99	12	13	2	100	40	99	13	-10	-6	-60	31	99	13	-6	4	154	168	99
12	5	-2	140	108	99	12	9	-4	153	72	99	12	14	-7	-50	65	99	13	-10	-5	122	94	99	13	-5	-7	83	10	99
12	5	-1	254	218	99	12	9	-3	81	60	99	12	14	-6	33	51	99	13	-10	-4	77	105	99	13	-5	-6	-178	5	99
12	5	0	125	45	99	12	9	-2	79	9	99	12	14	-5	-159	70	99	13	-10	-3	-111	90	99	13	-5	-5	149	118	99
12	5	1	-37	87	99	12	9	-1	-113	83	99	12	14	-4	220	223	99	13	-10	-2	128	116	99	13	-5	-4	-148	36	99
12	5	2	87	36	99	12	9	0	-52	111	99	12	14	-3	127	102	99	13	-10	-1	124	76	99	13	-5	-3	-148	83	99
12	5	3	172	217	99	12	9	1	120	89	99	12	14	-2	-86	113	99	13	-10	0	174	184	99	13	-5	-2	96	118	99
12	5	4	-41	67	99	12	9	2	71	29	99	12	14	-1	92	92	99	13	-10	1	141	135	99	13	-5	-1	57	11	99
12	5	5	110	115	99	12	9	3	87	98	99	12	14	0	-44	29	99	13	-10	2	162	234	99	13	-5	0	114	40	99
12	6	-9	114	43	99	12	9	4	-12	34	99	12	14	1	-34	19	99	13	-10	3	-132	34	99	13	-5	1	-109	80	99
12	6	-8	-149	27	99	12	10	-8	91	120	99	12	14	2	74	6	99	13	-9	-6	108	6	99	13	-5	2	-205	23	99
12	6	-7	125	181	99	12	10	-7	82	99	99	12	15	-6	-104	9	99	13	-9	-5	-118	18	99	13	-5	3	28	15	99
12	6	-6	29	117	99	12	10	-6	-111	13	99	12	15	-5	-106	96	99	13	-9	-4	-176	56	99	13	-5	4	84	71	99
12	6	-5	-217	36	99	12	10	-5	169	203	99	12	15	-4	86	36	99	13	-9	-3	-162	18	99	13	-4	-8	99	134	99
12	6	-4	-224	43	99	12	10	-4	235	241	99	12	15	-3	100	42	99	13	-9	-2	-67	40	99	13	-4	-7	94	82	99
12	6	-3	69	29	99	12	10	-3	134	123	99	12	15	-2	109	84	99	13	-9	-1	-54	43	99	13	-4	-6	-125	27	99
12	6	-2	-118	58	99	12	10	-2	-191	35	99	12	15	-1	-69	27	99	13	-9	0	62	68	99	13	-4	-5	188	232	99
12	6	-1	92	16	99	12	10	-1	135	105	99	12	15	0	61	50	99	13	-9	1	68	84	99	13	-4	-4	123	153	99
12	6	0	116	104	99	12	10	0	-186	183	99	12	15	1	-14	4	99	13	-9	2	109	164	99	13	-4	-3	-176	43	99
12	6	1	18	27	99	12	10	1	103	143	99	12	16	-5	41	148	99	13	-9	3	-44	50	99	13	-4	-2	-33	24	99
12	6	2	-90	78	99	12	10	2	-152	17	99	12	16	-4	-38	65	99	13	-8	-7	76	115	99	13	-4	-1	138	147	99
12	6	3	76	166	99	12	10	3	56	58	99	12	16	-3	57	40	99	13	-8	-6	56	6	99	13	-4	0	-102	95	99
12	6	4	64	61	99	12	10	4	-57	106	99	12	16	-2	-45	86	99	13	-8	-5	178	206	99	13	-4	1	-92	28	99
12	6	5	-32	93	99	12	11	-8	-148	76	99	12	16	-1	82	112	99	13	-8	-4	152	151	99	13	-4	2	79	59	99
12	7	-9	84	13	99	12	11	-7	-113	22	99	12	16	0	126	59	99	13	-8	-3	146	60	99	13	-4	3	-75	18	99
12	7	-8	-122	25	99	12	11	-6	51	22	99	12	17	-4	98	73	99	13	-8	-2	134	113	99	13	-4	4	-131	39	99
12	7	-7	-21	68	99	12	11	-5	185	86	99	12	17	-3	-79	26	99	13	-8	-1	90	97	99	13	-3	-8	-111	10	99
12	7	-6	-94	17	99	12	11	-4	296	335	99	12	17	-2	125	154	99	13	-8	0	198	246	99	13	-3	-7	95	25	99
12	7	-5	-102	97	99	12	11	-3	256	248	99	12	17	-1	-171	76	99	13	-8	1	84	103	99	13	-3	-6	101	11	99
12	7	-4	251	212	99	12	11	-2	102	43	99	13	-14	-2	111	95	99	13	-8	2	44	62	99	13	-3	-5	200	108	99
12	7	-3	152	229	99	12	11	-1	58	6	99	13	-14	-1	56	25	99	13	-8	3	76	27	99	13	-3	-4	87	87	99
12	7	-2	201	171	99	12	11	0	133	137	99	13	-14	0	54	13	99	13	-8	4	101	17	99	13	-3	-3	144	182	99
13	-3	-2	296	300	99	13	1	-2	389	375	99	13	5	1	202	167	99	13	10	-6	126	142	99	14	-12	-2	111	55	99
13	-3	-1	261	276	99	13	1	-1	183	190	99	13	5	2	-43	35	99	13	10	-5	121	171	99	14	-12	-1	89	43	99
13	-3	0	-122	143	99	13	1	0	-187	100	99	13	5	3	155	100	99	13	10	-4	162	121	99	14	-12	0	101	183	99
13	-3	1	-160	77	99	13	1	1	132	160	99	13	5	4	98	189	99	13	10	-3	-45	20	99	14	-11	-4	113	28	99
13	-3	2	119	15	99	13	1	2	182	185	99	13	6	-8	140	186	99	13	10	-2	-106	61	99	14	-11	-3	130	146	99
13	-3	3	-89	97	99	13	1	3	107	86	99	13	6	-7	81	196	99	13	10	-1	122	106	99	14	-11	-2	72	28	99
13	-3	4	117	58	99	13	1	4	-83	41	99	13	6	-6	-15	14	99	13	10	0	120	207	99	14	-11	-1	-75	49	99
13	-2	-8	84	100	99	13	2	-8	-144	32	99	13	6	-5	-107	44	99	13	10	1	-92	46	99	14	-11	0	-101	35	99
13	-2	-7	107	61	99	13	2	-7	70	35	99	13	6	-4	147	170	99	13	10	2	117	100	99	14	-11	1	93	73	99
13	-2	-6	120	58	99	13	2	-6	-157	21	99	13	6	-3	302	305	99	13	10	3	-85	74	99	14	-10	-4	108	45	99
13	-2	-5	165	156	99	13	2	-5	-162	144	99	13	6	-2	272	206	99	13	11	-7	-141	115	99	14	-10	-3	87	127	99
13	-2	-4	66	121	99	13	2	-4	88	47	99	13	6	-1	157	34	99	13	11	-6	133	133	99	14	-10	-2	-53	20	99
13	-2	-3	216	210	99	13	2	-3	227	189	99	13	6	0	103	17	99	13	11	-5	190	195	99	14	-10	-1	110	161	99
13	-2	-2	250	260	99	13	2	-2	221	212	99	13	6	1	-137	85	99	13	11	-4	143	161	99	14	-10	0	85	142	99
13	-2	-1	191	172	99	13	2	-1	-132	156	99	13	6	2	-42	50	99	13	11	-3	151	90	99	14	-10	1	83	163	99
13	-2	0	-45	83	99	13	2	0	117	16	99	13	6	3	80	55	99	13	11	-2	144	86	99	14	-9	-5	43	11	99
13	-2	1	91	77	99	13	2	1	-145	24	99	13	6	4	128	111	99	13	11	-1	-54	101	99	14	-9	-4	-73	31	99
13	-2	2	173	163	99	13	2	2	46	119	99	13	7	-8	52	114	99	13	11	0	108	166	99	14	-9	-3	-98	60	99
13	-2	3	93	146	99	13	2	3	113	69	99	13	7	-7	-63	113	99	13	11	1	-89	71	99	14	-9	-2	-72	50	99
13	-2	4	42	50	99	13	2	4	70	60	99	13	7	-6	81	85	99	13	11	2	174	178	99	14	-9	-1	90	117	99
13	-2	5	-99	13	99	13	3	-8	113	102	99	13	7	-5	248	255	99	13	12	-7	134	127	99	14	-9	0	147	112	99
13	-1	-8	-151	20	99	13	3	-7	34	98	99	13	7	-4	223	206	99	13	12	-6	106	45	99	14	-9	1	33	50	99
13	-1	-7	-135	40	99	13	3	-6	92	22	99	13	7	-3	259	232	99	13	12	-5	-65	71	99	14	-9	2	105	88	99
13	-1	-6	124	146	99	13	3	-5	62	33	99	13	7	-2	211	185	99	13	12	-4	89	54	99	14	-8	-6	-47	56	99
13	-1	-5	240	264	99	13	3	-4	106	220	99	13	7	-1	103	99	99	13	12	-3	-29	193	99	14	-8	-5	77	20	99
13	-1	-4	202	116	99	13	3	-3	287	343	99	13	7	0	295	266	99	13	12	-2	102	130	99	14	-8	-4	-92	8	99
13	-1	-3	110	123	99	13	3	-2	46	93	99	13	7	1	84	153	99	13	12	-1	-115	25	99	14	-8	-3	-80	110	99
13	-1	-2	108	101	99	13	3	-1	26	63	99	13	7	2	-26	4	99	13	12	0	96	21	99	14	-8	-2	114	3	99
13	-1	-1	120	59	99	13	3	0	131	129	99	13	7	3	-55	88	99	13	12	1	145	153	99	14	-8	-1	-144	71	99
13	-1	0	101	182	99	13	3	1	110	161	99	13	7	4	-21	63	99	13	12	2	-148	146	99	14	-8	0	-131	4	99
13	-1	1	-62	75	99	13	3	2	-150	6	99	13	8	-8	-97	17	99	13	13	-6	-77	77	99	14	-8	1	-146	5	99
13	-1	2	99	129	99	13	3	3	-53	58	99	13	8	-7	96	0	99	13	13	-5	137	78	99	14	-8	2	166	129	99
13	-1	3	-133	34	99	13	3	4	-37	44	99	13	8	-6	75	48	99	13	13	-4	-98	4	99	14	-7	-6	-124	104	99
13	-1	4	-63	144	99	13	4	-8	123	180	99	13	8	-5	181	167	99	13	13	-3	78	70	99	14	-7	-5	68	21	99
13	-1	5	83	12	99	13	4	-7	-129	111	99	13	8	-4	-116	100	99	13	13	-2	116	58	99	14	-7	-4	-111	64	99
13	0	-8	-148	42	99	13	4	-6	-105	15	99	13	8	-3	-23	21	99	13	13	-1	122	52	99	14	-7	-3	-91	11	99
13	0	-7	-101	63	99	13	4	-5	253	224	99	13	8	-2	166	68	99	13	13	0	-81	62	99	14	-7	-2	39	94	99
13	0	-6	129	113	99	13	4	-4	432	412	99	13	8	-1	-95	46	99	13	13	1	-82	87	99	14	-7	-1	192	235	99
13	0	-5	125	86	99	13	4	-3	363	343	99	13	8	0	201	204	99	13	14	-6	-90	81	99	14	-7	0	115	92	99
13	0	-4	-90	42	99	13	4	-2	288	298	99	13	8	1	-164	22	99	13	14	-5	67	92	99	14	-7	1	83	26	99
13	0	-3	389	350	99	13	4	-1	-63	16	99	13	8	2	-174	95	99	13	14	-4	80	48	99	14	-7	2	-44	15	99
13	0	-2	324	371	99	13	4	0	224	258	99	13	8	3	-84	119	99	13	14	-3	93	164	99	14	-7	3	37	39	99
13	0	-1	200	197	99	13	4	1	281	279	99	13	9	-8	-71	89	99	13	14	-2	100	95	99	14	-6	-6	43	114	99
13	0	0	-196	51	99	13	4	2	-233	61	99	13	9	-7	112	31	99	13	14	-1	-103	38	99	14	-6	-5	-89	66	99
13	0	1	-73	65	99	13	4	3	-116	80	99	13	9	-6	99	86	99	13	14	0	-144	13	99	14	-6	-4	-125	33	99
13	0	2	-192	36	99	13	4	4	52	162	99	13	9	-5	83	56	99	13	14	1	-111	80	99	14	-6	-3	55	163	99
13	0	3	102	56	99	13	5	-8	-119	4	99	13	9	-4	93	32	99	13	15	-5	55	28	99	14	-6	-2	188	204	99
13	0	4	79	83	99	13	5	-7	-145	52	99	13	9	-3	-111	81	99	13	15	-4	42	40	99	14	-6	-1	196	242	99
13	0	5	151	94	99	13	5	-6	-123	58	99	13	9	-2	-164	20	99	13	15	-3	112	172	99	14	-6	0	153	166	99
13	1	-8	48	10	99	13	5	-5	246	220	99	13	9	-1	101	42	99	13	15	-2	-90	93	99	14	-6	1	-59	46	99
13	1	-7	-121	18	99	13	5	-4	170	187	99	13	9	0	-124	55	99	13	15	-1	-45	47	99	14	-6	2	-78	134	99
13	1	-6	49	54	99	13	5	-3	125	55	99	13	9	1	-89	85	99	13	15	0	-72	94	99	14	-6	3	155	160	99
13	1	-5	110	121	99	13	5	-2	37	132	99	13	9	2	56	52	99	13	16	-3	-130	20	99	14	-5	-7	101	106	99
13	1	-4	134	113	99	13	5	-1	130	52	99	13	9	3	-89	24	99	13	16	-2	-179	19	99	14	-5	-6	115	111	99
13	1	-3	146	120	99	13	5	0	225	216	99	13	10	-7	99	3	99	14	-12	-3	86	30	99	14	-5	-5	70	83	99

h	k	l	Fo	Fc	sigF2
14	-5	-4	-66	23	99
14	-5	-3	197	211	99
14	-5	-2	223	246	99
14	-5	-1	-129	49	99
14	-5	0	116	141	99
14	-5	1	-167	60	99
14	-5	2	158	195	99
14	-5	3	115	159	99
14	-4	-7	120	11	99
14	-4	-6	-133	15	99
14	-4	-5	-97	5	99
14	-4	-4	-53	103	99
14	-4	-3	143	14	99
14	-4	-2	116	54	99
14	-4	-1	-149	133	99
14	-4	0	92	7	99
14	-4	1	-86	37	99
14	-4	2	143	111	99
14	-4	3	-87	64	99
14	-3	-7	112	117	99
14	-3	-6	-207	95	99
14	-3	-5	183	34	99
14	-3	-4	230	232	99
14	-3	-3	273	292	99
14	-3	-2	189	215	99
14	-3	-1	140	124	99
14	-3	0	-101	61	99
14	-3	1	-137	48	99
14	-3	2	-181	83	99
14	-3	3	-139	29	99
14	-2	-7	-131	46	99
14	-2	-6	-85	13	99
14	-2	-5	-171	7	99
14	-2	-4	-149	154	99
14	-2	-3	338	320	99
14	-2	-2	180	162	99
14	-2	-1	65	63	99
14	-2	0	-106	44	99
14	-2	1	91	138	99
14	-2	2	104	213	99
14	-2	3	-79	29	99
14	-1	-7	82	76	99
14	-1	-6	-50	45	99
14	-1	-5	44	20	99
14	-1	-4	48	114	99
14	-1	-3	-57	7	99
14	-1	-2	-70	51	99
14	-1	-1	-121	144	99
14	-1	0	-126	55	99
14	-1	1	-232	22	99
14	-1	2	151	86	99
14	-1	3	90	63	99
14	-1	4	64	49	99
14	0	-7	-83	105	99
14	0	-6	-50	47	99
14	0	-5	121	81	99
14	0	-4	227	245	99
14	0	-3	266	302	99
14	0	-2	102	124	99
14	0	-1	-179	55	99
14	0	0	96	15	99
14	0	1	83	100	99
14	0	2	92	107	99
14	0	3	64	77	99
14	0	4	84	42	99
14	1	-8	70	12	99
14	1	-7	66	120	99
14	1	-6	-151	74	99
14	1	-5	103	80	99
14	1	-4	-118	201	99
14	1	-3	373	397	99
14	1	-2	122	148	99
14	1	-1	85	76	99
14	1	0	78	81	99
14	1	1	88	89	99
14	1	2	122	154	99
14	1	3	72	14	99
14	2	-8	34	18	99
14	2	-7	65	78	99
14	2	-6	73	39	99
14	2	-5	71	28	99
14	2	-4	103	17	99
14	2	-3	213	233	99
14	2	-2	174	158	99
14	2	-1	-137	133	99
14	2	0	176	120	99
14	2	1	124	60	99
14	2	2	35	70	99
14	2	3	82	80	99
14	3	-8	145	78	99
14	3	-7	76	24	99
14	3	-6	-158	23	99
14	3	-5	47	69	99
14	3	-4	178	203	99
14	3	-3	81	56	99
14	3	-2	-65	26	99
14	3	-1	49	85	99
14	3	0	-98	84	99
14	3	1	107	29	99
14	3	2	121	33	99
14	3	3	99	67	99
14	4	-7	113	10	99
14	4	-6	-162	38	99
14	4	-5	216	179	99
14	4	-4	162	205	99
14	4	-3	110	119	99
14	4	-2	109	58	99
14	4	-1	-110	119	99
14	4	0	62	27	99
14	4	1	127	45	99
14	4	2	-58	13	99
14	4	3	107	80	99
14	5	-7	133	90	99
14	5	-6	18	94	99
14	5	-5	207	160	99
14	5	-4	-119	5	99
14	5	-3	-104	28	99
14	5	-2	-175	11	99
14	5	-1	281	296	99
14	5	0	32	138	99
14	5	1	-146	92	99
14	5	2	72	122	99
14	5	3	205	216	99
14	6	-7	81	58	99
14	6	-6	122	20	99
14	6	-5	-102	19	99
14	6	-4	121	118	99
14	6	-3	-50	98	99
14	6	-2	73	12	99
14	6	-1	162	174	99
14	6	0	109	107	99
14	6	1	77	121	99
14	6	2	160	152	99
14	6	3	176	167	99
14	7	-7	62	50	99
14	7	-6	111	77	99
14	7	-5	190	126	99
14	7	-4	-164	43	99
14	7	-3	51	21	99
14	7	-2	104	97	99
14	7	-1	124	81	99
14	7	0	-162	36	99
14	7	1	54	8	99
14	7	2	-142	13	99
14	7	3	122	11	99
14	8	-7	-198	64	99
14	8	-6	122	108	99
14	8	-5	115	122	99
14	8	-4	-102	17	99
14	8	-3	-168	25	99
14	8	-2	-129	77	99
14	8	-1	149	186	99
14	8	0	104	26	99
14	8	1	135	127	99
14	8	2	92	143	99
14	9	-7	-31	26	99
14	9	-6	61	66	99
14	9	-5	-126	82	99
14	9	-4	-11	35	99
14	9	-3	73	41	99
14	9	-2	44	13	99
14	9	-1	-184	109	99
14	9	0	40	45	99
14	9	1	-57	90	99
14	9	2	92	146	99
14	10	-6	-72	46	99
14	10	-5	-98	32	99
14	10	-4	-182	52	99
14	10	-3	102	23	99
14	10	-2	-146	7	99
14	10	-1	-103	5	99
14	10	0	-174	58	99
14	10	1	10	62	99
14	11	-6	-79	134	99
14	11	-5	83	21	99
14	11	-4	-110	100	99
14	11	-3	-158	93	99
14	11	-2	-56	59	99
14	11	-1	91	105	99
14	11	0	64	75	99
14	11	1	197	230	99
14	12	-5	54	36	99
14	12	-4	118	91	99
14	12	-3	-121	105	99
14	12	-2	-138	66	99
14	12	-1	-152	75	99
14	12	0	-104	84	99
14	13	-5	55	12	99
14	13	-4	-154	14	99
14	13	-3	105	13	99
14	13	-2	113	1	99
14	13	-1	-49	29	99
14	13	0	-115	68	99
14	14	-4	112	69	99
14	14	-3	-64	63	99
14	14	-2	107	16	99
15	-9	-3	80	51	99
15	-9	-2	86	120	99
15	-9	-1	113	112	99
15	-9	0	-209	17	99
15	-8	-4	-129	87	99
15	-8	-3	-44	79	99
15	-8	-2	-104	50	99
15	-8	-1	103	112	99
15	-8	0	95	51	99
15	-8	1	81	83	99
15	-7	-5	132	123	99
15	-7	-4	-52	131	99
15	-7	-3	-103	132	99
15	-7	-2	122	153	99
15	-7	-1	-30	20	99
15	-7	0	108	112	99
15	-7	1	47	5	99
15	-6	-5	-172	43	99
15	-6	-4	124	81	99
15	-6	-3	81	128	99
15	-6	-2	163	145	99
15	-6	-1	126	92	99
15	-6	0	119	97	99
15	-6	1	14	71	99
15	-5	-5	80	32	99
15	-5	-4	-97	28	99
15	-5	-3	-137	106	99
15	-5	-2	64	34	99
15	-5	-1	99	63	99
15	-5	0	-156	55	99
15	-5	1	170	171	99
15	-5	2	122	66	99
15	-4	-6	-190	11	99
15	-4	-5	118	102	99
15	-4	-4	108	44	99
15	-4	-3	52	19	99
15	-4	-2	16	105	99
15	-4	-1	-127	25	99
15	-4	0	87	11	99
15	-4	1	139	146	99
15	-4	2	-103	105	99
15	-3	-6	45	80	99
15	-3	-5	81	115	99
15	-3	-4	71	71	99
15	-3	-3	89	10	99
15	-3	-2	168	78	99
15	-3	-1	-136	37	99
15	-3	0	-125	35	99
15	-3	1	-92	15	99
15	-3	2	-40	99	99
15	-2	-6	-79	90	99
15	-2	-5	-108	34	99
15	-2	-4	110	29	99
15	-2	-3	-159	28	99
15	-2	-2	103	90	99
15	-2	-1	83	14	99
15	-2	0	8	21	99
15	-2	1	103	80	99
15	-2	2	-106	75	99
15	-1	-6	108	64	99
15	-1	-5	-130	95	99
15	-1	-4	77	27	99
15	-1	-3	91	21	99
15	-1	-2	107	98	99
15	-1	-1	127	6	99
15	-1	0	-180	74	99
15	-1	1	-87	84	99
15	-1	2	-185	24	99
15	0	-6	183	176	99
15	0	-5	123	115	99
15	0	-4	129	21	99
15	0	-3	-106	29	99
15	0	-2	-27	63	99
15	0	-1	72	13	99
15	0	0	102	18	99
15	0	1	-48	58	99
15	0	2	-88	65	99
15	1	-7	59	42	99
15	1	-6	79	154	99
15	1	-5	111	74	99
15	1	-4	-139	33	99
15	1	-3	-133	24	99
15	1	-2	-197	145	99
15	1	-1	90	26	99
15	1	0	128	97	99
15	1	1	-122	32	99
15	1	2	-110	108	99
15	2	-7	-193	41	99
15	2	-6	99	81	99
15	2	-5	78	64	99
15	2	-4	-144	68	99
15	2	-3	13	10	99
15	2	-2	93	167	99
15	2	-1	111	55	99
15	2	0	-68	38	99
15	2	1	86	51	99
15	2	2	105	53	99
15	3	-7	42	100	99
15	3	-6	-149	41	99
15	3	-5	121	38	99
15	3	-4	-18	84	99
15	3	-3	80	97	99
15	3	-2	103	75	99
15	3	-1	-166	114	99
15	3	0	32	76	99
15	3	1	-75	75	99
15	3	2	117	29	99
15	4	-6	151	149	99
15	4	-5	75	23	99
15	4	-4	110	109	99
15	4	-3	78	176	99
15	4	-2	-124	91	99
15	4	-1	118	92	99
15	4	0	136	174	99
15	4	1	92	76	99
15	4	2	78	84	99
15	5	-6	-85	87	99
15	5	-5	-103	45	99
15	5	-4	-171	85	99
15	5	-3	-117	80	99
15	5	-2	116	134	99
15	5	-1	43	16	99
15	5	0	92	180	99
15	5	1	61	82	99
15	5	2	54	84	99
15	6	-6	91	55	99
15	6	-5	123	33	99
15	6	-4	80	50	99
15	6	-3	109	112	99
15	6	-2	-72	5	99
15	6	-1	129	24	99
15	6	0	115	90	99
15	6	1	119	50	99
15	7	-6	169	95	99
15	7	-5	-117	22	99
15	7	-4	136	139	99
15	7	-3	136	113	99
15	7	-2	69	25	99
15	7	-1	91	83	99
15	7	0	-227	66	99
15	7	1	68	6	99
15	8	-6	-77	78	99
15	8	-5	22	15	99
15	8	-4	72	69	99
15	8	-3	-166	11	99
15	8	-2	79	10	99
15	8	-1	-174	81	99
15	8	0	103	165	99
15	8	1	65	56	99
15	9	-5	96	71	99
15	9	-4	154	74	99
15	9	-3	79	48	99
15	9	-2	120	18	99
15	9	-1	52	31	99
15	9	0	59	98	99
15	10	-5	99	74	99
15	10	-4	23	108	99
15	10	-3	-40	7	99
15	10	-2	49	64	99
15	10	-1	77	110	99
15	10	0	-144	29	99
15	11	-4	-98	66	99
15	11	-3	83	54	99
15	11	-2	119	68	99
15	11	-1	154	118	99
16	-6	-2	-131	100	99
16	-6	-1	51	147	99
16	-5	-3	101	92	99
16	-5	-2	24	115	99
16	-5	-1	-167	161	99
16	-4	-4	-163	41	99
16	-4	-3	-71	73	99
16	-4	-2	-80	46	99
16	-4	-1	-133	41	99
16	-4	0	133	86	99
16	-3	-4	66	35	99
16	-3	-3	-140	59	99
16	-3	-2	-169	95	99
16	-3	-1	169	92	99
16	-3	0	86	25	99
16	-2	-5	-170	3	99
16	-2	-4	-163	37	99
16	-2	-3	-116	107	99
16	-2	-2	171	139	99
16	-2	-1	51	30	99
16	-2	0	109	23	99
16	-1	-5	-144	83	99
16	-1	-4	82	38	99
16	-1	-3	53	29	99
16	-1	-2	-147	40	99
16	-1	-1	-74	90	99
16	-1	0	129	8	99
16	0	-5	81	37	99
16	0	-4	-106	38	99
16	0	-3	-85	72	99
16	0	-2	83	87	99
16	0	-1	-74	86	99
16	0	0	55	50	99
16	0	1	136	128	99
16	1	-5	98	38	99
16	1	-4	-155	61	99
16	1	-3	-73	126	99
16	1	-2	102	92	99
16	1	-1	89	33	99
16	1	0	115	98	99
16	1	1	84	186	99
16	2	-5	73	60	99
16	2	-4	-33	39	99
16	2	-3	-187	119	99
16	2	-2	-99	27	99
16	2	-1	52	92	99
16	2	0	62	65	99
16	3	-5	-245	10	99
16	3	-4	111	2	99
16	3	-3	103	10	99
16	3	-2	81	58	99
16	3	-1	-42	58	99
16	3	0	-59	7	99
16	4	-5	118	97	99
16	4	-4	90	45	99
16	4	-3	-90	38	99
16	4	-2	-78	12	99
16	4	-1	90	86	99
16	4	0	97	72	99
16	5	-5	92	155	99
16	5	-4	-140	65	99
16	5	-3	114	56	99
16	5	-2	154	141	99
16	5	-1	265	244	99
16	5	0	102	119	99
16	6	-5	-37	59	99
16	6	-4	-122	10	99
16	6	-3	73	113	99
16	6	-2	-37	140	99
16	6	-1	183	177	99
16	7	-4	102	39	99
16	7	-3	126	17	99
16	7	-2	132	39	99
16	7	-1	-126	43	99
16	8	-3	44	95	99
16	8	-2	184	172	99

APPENDIX 5.II

$[Zn(S_2CN(Et)Cy)_2]$

Table 5.II.1: Crystallographic Parameters for [Zn($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]

Formula	$C_{18}H_{22}N_2S_4Zn$
Formula weight	470.08
Crystal morphology / colour	block / colourless
Crystal dimensions (mm)	0.08 x 0.16 x 0.34
Crystal system	monoclinic
Space group	$P2_1/c$ (#14)
a (Å)	8.618(5)
b (Å)	16.500(4)
c (Å)	16.242(2)
α (°)	90
β (°)	97.70(2)
γ (°)	90
V (Å^3)	2288(1)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.364
F(000)	992
Temperature (°K)	200
μ (cm^{-1})	14.43
θ limits, cell (°)	23.2 – 27.1
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 11, 0 – 21, -21 – 21
Range of transmission factors	0.935 – 1
Scan technique	ω:2θ
No. of data measured	5835
No. of unique data	5490
R_{amal}	0.072
No. of parameters	226
R (I≥0σ(I))	0.068
R_w (I≥0σ(I))	0.079
R (I≥3σ(I))	0.037
R_w (I≥3σ(I))	0.038
Maximum and minimum residual electron density (e Å^{-3})	0.70, -0.73

Table 5.II.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Zn(S_2CN(CH_2CH_3)(CH(CH_2)5))2]$

Atom	*x*	*y*	*z*
Zn	0.43506(4)	0.01132(2)	0.10287(2)
S(1)	0.4779(1)	0.14572(5)	0.14430(5)
S(2)	0.44108(9)	0.01037(5)	0.25663(5)
S(3)	0.22091(9)	-0.06387(5)	0.04022(5)
S(4)	0.6513(1)	-0.06083(4)	0.06431(5)
N(1)	0.4784(3)	0.1653(1)	0.3071(1)
N(2)	0.1209(3)	-0.0445(1)	-0.1203(1)
C(1)	0.4675(3)	0.1126(2)	0.2438(2)
C(2)	0.4898(4)	0.2536(2)	0.2923(2)
C(3)	0.6544(5)	0.2828(2)	0.2880(2)
C(4)	0.4608(4)	0.1381(2)	0.3923(2)
C(5)	0.5829(4)	0.1730(2)	0.4593(2)
C(6)	0.5613(5)	0.1369(3)	0.5437(2)
C(7)	0.3997(6)	0.1494(2)	0.5644(2)
C(8)	0.2766(5)	0.1195(3)	0.4966(2)
C(9)	0.2987(4)	0.1560(2)	0.4126(2)
C(10)	0.2196(3)	-0.0200(2)	-0.0556(2)
C(11)	-0.0034(3)	-0.1043(2)	-0.1082(2)
C(12)	0.0484(4)	-0.1917(2)	-0.1120(2)
C(13)	0.1191(3)	-0.0079(2)	-0.2038(2)
C(14)	-0.0007(4)	0.0610(2)	-0.2164(2)
C(15)	0.0012(4)	0.1004(2)	-0.3010(2)
C(16)	-0.0269(4)	0.0385(2)	-0.3703(2)
C(17)	0.0944(4)	-0.0288(2)	-0.3574(2)
C(18)	0.0936(4)	-0.0701(2)	-0.2733(2)

Table 5.II.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Zn(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Zn	0.0331(2)	0.0376(2)	0.0377(2)	-0.0024(2)	0.0051(1)	-0.0061(2)
S(1)	0.0712(6)	0.0336(5)	0.0361(4)	0.0005(4)	0.0104(4)	-0.0002(4)
S(2)	0.0444(5)	0.0340(4)	0.0366(4)	-0.0080(4)	0.0062(3)	-0.0033(3)
S(3)	0.0358(5)	0.0453(5)	0.0354(4)	-0.0065(4)	0.0025(3)	0.0045(4)
S(4)	0.0321(4)	0.0305(4)	0.0373(4)	-0.0014(3)	0.0035(3)	-0.0012(3)
N(1)	0.050(2)	0.034(1)	0.037(1)	-0.004(1)	0.009(1)	-0.004(1)
N(2)	0.026(1)	0.033(1)	0.038(1)	0.000(1)	0.003(1)	0.000(1)
C(1)	0.030(2)	0.038(2)	0.036(2)	0.001(1)	0.004(1)	-0.003(1)
C(2)	0.074(3)	0.033(2)	0.047(2)	0.004(2)	0.014(2)	-0.006(2)
C(3)	0.088(3)	0.037(2)	0.071(3)	-0.019(2)	0.026(2)	-0.007(2)
C(4)	0.060(2)	0.039(2)	0.034(2)	-0.007(2)	0.008(2)	-0.006(1)
C(5)	0.055(2)	0.074(3)	0.044(2)	-0.008(2)	0.000(2)	-0.003(2)
C(6)	0.100(4)	0.079(3)	0.043(2)	-0.020(3)	-0.009(2)	0.000(2)
C(7)	0.108(4)	0.069(3)	0.048(2)	-0.036(3)	0.026(2)	-0.017(2)
C(8)	0.088(3)	0.098(3)	0.056(3)	-0.040(3)	0.027(2)	-0.016(2)
C(9)	0.052(2)	0.089(3)	0.054(2)	-0.023(2)	0.007(2)	-0.007(2)
C(10)	0.026(1)	0.031(2)	0.035(1)	0.002(1)	0.004(1)	-0.003(1)
C(11)	0.030(2)	0.047(2)	0.043(2)	-0.009(1)	0.004(1)	-0.004(2)
C(12)	0.061(3)	0.041(2)	0.073(3)	-0.011(2)	0.014(2)	-0.006(2)
C(13)	0.027(2)	0.044(2)	0.031(1)	-0.002(1)	0.002(1)	0.003(1)
C(14)	0.033(2)	0.042(2)	0.047(2)	0.000(1)	0.005(1)	0.006(2)
C(15)	0.041(2)	0.054(2)	0.059(2)	0.002(2)	0.005(2)	0.017(2)
C(16)	0.042(2)	0.076(3)	0.039(2)	-0.003(2)	-0.001(2)	0.013(2)
C(17)	0.046(2)	0.071(3)	0.041(2)	0.001(2)	0.001(2)	-0.006(2)
C(18)	0.038(2)	0.054(2)	0.038(2)	0.003(2)	0.001(1)	-0.004(2)

Table 5.II.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Zn(S_2CN(CH_2CH_3)(CH(CH_2)5))2]^*$

Atom	x	y	z	B_{eq}
H(2a)	0.4274	0.2661	0.2411	4.8194
H(2b)	0.4501	0.2814	0.3362	4.8194
H(3a)	0.7184	0.2708	0.3388	6.0710
H(3b)	0.6952	0.2563	0.2436	6.0710
H(3c)	0.6533	0.3397	0.2789	6.0710
H(4a)	0.4733	0.0809	0.3936	4.2172
H(5a)	0.6846	0.1603	0.4467	5.4876
H(5b)	0.5710	0.2302	0.4612	5.4876
H(6a)	0.5819	0.0803	0.5427	7.2010
H(6b)	0.6335	0.1619	0.5854	7.2010
H(7a)	0.3892	0.1209	0.6142	6.9691
H(7b)	0.3840	0.2057	0.5725	6.9691
H(8a)	0.2834	0.0621	0.4932	7.4732
H(8b)	0.1762	0.1342	0.5097	7.4732
H(9a)	0.2844	0.2130	0.4146	6.1436
H(9b)	0.2236	0.1334	0.3708	6.1436
H(11a)	-0.0356	-0.0950	-0.0553	3.8016
H(11b)	-0.0896	-0.0960	-0.1503	3.8016
H(12a)	-0.0359	-0.2264	-0.1035	5.5153
H(12b)	0.0794	-0.2023	-0.1649	5.5153
H(12c)	0.1343	-0.2012	-0.0700	5.5153
H(13a)	0.2193	0.0155	-0.2055	3.2209
H(14a)	-0.1022	0.0399	-0.2131	3.8333

Table 5.II.4: Cont.

Atom	x	y	z	B_{eq}
H(14b)	0.0243	0.1005	-0.1742	3.8333
H(15a)	-0.0786	0.1405	-0.3090	4.8649
H(15b)	0.1003	0.1252	-0.3025	4.8649
H(16a)	-0.1284	0.0159	-0.3709	5.0196
H(16b)	-0.0202	0.0645	-0.4219	5.0196
H(17a)	0.1952	-0.0064	-0.3599	5.0233
H(17b)	0.0717	-0.0680	-0.4002	5.0233
H(18a)	0.1751	-0.1092	-0.2656	4.1626
H(18b)	-0.0044	-0.0961	-0.2721	4.1626

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 5.II.5: Bond distances (Å) for [Zn($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]

Zn — S(1)	2.3324(9)	C(2) — C(3)	1.509(5)
Zn — S(2)	2.4910(8)	C(4) — C(5)	1.522(4)
Zn — S(3)	2.340(1)	C(4) — C(9)	1.507(5)
Zn — S(4)	2.366(1)	C(5) — C(6)	1.529(5)
S(1) — C(1)	1.720(3)	C(6) — C(7)	1.490(6)
S(2) — C(1)	1.718(3)	C(7) — C(8)	1.507(5)
S(3) — C(10)	1.715(3)	C(8) — C(9)	1.526(5)
S(4) — C(10)	1.755(3)	C(11) — C(12)	1.513(4)
N(1) — C(1)	1.340(3)	C(13) — C(14)	1.531(4)
N(1) — C(2)	1.483(4)	C(13) — C(18)	1.520(4)
N(1) — C(4)	1.482(4)	C(14) — C(15)	1.522(4)
N(2) — C(10)	1.324(3)	C(15) — C(16)	1.515(5)
N(2) — C(11)	1.489(4)	C(16) — C(17)	1.521(5)
N(2) — C(13)	1.482(3)	C(17) — C(18)	1.526(4)

Table 5.II.6: Bond angles (deg.) for [Zn($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]

S(1) — Zn — S(2)	74.67(3)	N(1) — C(4) — C(5)	113.9(3)
S(1) — Zn — S(3)	135.62(4)	N(1) — C(4) — C(9)	111.0(3)
S(1) — Zn — S(4)	117.05(4)	C(5) — C(4) — C(9)	110.0(3)
S(2) — Zn — S(3)	109.99(3)	C(4) — C(5) — C(6)	109.7(3)
S(2) — Zn — S(4)	110.55(3)	C(5) — C(6) — C(7)	112.2(3)
S(3) — Zn — S(4)	102.80(4)	C(6) — C(7) — C(8)	112.2(3)
Zn — S(1) — C(1)	86.7(1)	C(7) — C(8) — C(9)	111.3(3)
Zn — S(2) — C(1)	81.8(1)	C(4) — C(9) — C(8)	110.4(3)
Zn — S(3) — C(10)	94.6(1)	S(3) — C(10) — S(4)*	117.8(2)
Zn — S(4) — C(10)*	99.7(1)	S(3) — C(10) — N(2)	121.2(2)
C(1) — N(1) — C(2)	120.8(3)	S(4)* — C(10) — N(2)	121.0(2)
C(1) — N(1) — C(4)	121.0(3)	N(2) — C(11) — C(12)	113.9(3)
C(2) — N(1) — C(4)	117.8(2)	N(2) — C(13) — C(14)	110.4(2)
C(10) — N(2) — C(11)	119.6(2)	N(2) — C(13) — C(18)	112.8(3)
C(10) — N(2) — C(13)	121.9(2)	C(14) — C(13) — C(18)	112.0(2)
C(11) — N(2) — C(13)	118.2(2)	C(13) — C(14) — C(15)	110.5(3)
S(1) — C(1) — S(2)	116.8(2)	C(14) — C(15) — C(16)	111.2(3)
S(1) — C(1) — N(1)	120.5(2)	C(15) — C(16) — C(17)	110.6(3)
S(2) — C(1) — N(1)	122.7(2)	C(16) — C(17) — C(18)	111.3(3)
N(1) — C(2) — C(3)	113.9(3)	C(13) — C(18) — C(17)	110.2(3)

* symmetry operation: 1-*x*, -*y*, -*z*.

Table 5.II.7: Observed and calculated structure factors for $[Zn(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

h	k	l	Fo	Fc	sigF2
0	0	4	594	638	99
0	0	6	1490	1589	99
0	0	8	372	377	99
0	0	10	46	44	99
0	0	12	381	387	99
0	0	14	323	312	99
0	0	16	-92	15	99
0	0	18	40	43	99
0	0	20	441	354	99
0	1	-5	1151	1200	99
0	1	3	214	218	99
0	1	4	76	86	91
0	1	6	920	991	99
0	1	7	382	427	99
0	1	8	226	244	99
0	1	9	96	100	99
0	1	10	-39	33	99
0	1	11	76	63	99
0	1	12	87	121	99
0	1	13	388	401	99
0	1	14	14	38	99
0	1	15	163	169	99
0	1	16	63	62	99
0	1	17	66	70	99
0	1	18	-7	7	99
0	1	19	359	326	99
0	1	20	-117	26	99
0	2	-8	515	529	99
0	2	-5	1005	1024	99
0	2	2	219	230	99
0	2	3	141	130	91
0	2	4	355	368	99
0	2	6	1253	1244	99
0	2	7	1043	1012	99
0	2	9	293	309	99
0	2	10	49	49	99
0	2	11	47	94	99
0	2	12	-26	13	99
0	2	13	254	279	99
0	2	14	439	450	99
0	2	15	81	104	99
0	2	16	-60	54	99
0	2	17	-62	29	99
0	2	18	119	119	99
0	2	19	130	122	99
0	2	20	214	173	99
0	3	1	1927	1935	99
0	3	2	310	309	99
0	3	3	694	700	99
0	3	4	735	725	99
0	3	5	618	637	99
0	3	6	680	676	99
0	3	7	1144	1106	99
0	3	8	206	216	99
0	3	9	253	252	99
0	3	10	107	92	99
0	3	11	588	609	99
0	3	12	265	261	99
0	3	13	627	642	99
0	3	14	-44	6	99
0	3	15	201	201	99
0	3	16	120	116	99
0	3	17	75	62	99
0	3	18	-77	60	99
0	3	19	347	319	99
0	3	20	-42	5	99
0	4	-7	934	912	99
0	4	0	573	559	99
0	4	1	246	226	99
0	4	2	586	603	99
0	4	3	869	856	99
0	4	4	222	226	99
0	4	5	348	347	99
0	4	6	955	955	99
0	4	8	344	366	99
0	4	9	51	60	99
0	4	10	444	453	99
0	4	11	115	97	99
0	4	12	4	47	99
0	4	13	374	348	99
0	4	14	402	401	99
0	4	15	56	19	99
0	4	16	56	24	99
0	4	17	66	40	99
0	4	18	136	111	99
0	4	19	37	62	99
0	4	20	125	105	99
0	5	-12	727	765	99
0	5	-9	702	724	99
0	5	1	595	617	99
0	5	2	416	412	99
0	5	3	491	476	99
0	5	4	24	5	99
0	5	5	488	493	99
0	5	6	925	894	99
0	5	7	223	204	99
0	5	8	544	558	99
0	5	10	89	83	99
0	5	11	551	555	99
0	5	13	259	270	99
0	5	14	55	70	99
0	5	15	127	119	99
0	5	16	99	115	99
0	5	17	-102	53	99
0	5	18	39	38	99
0	5	19	285	273	99
0	5	20	27	47	99
0	6	-4	962	971	99
0	6	0	1116	1141	99
0	6	1	151	146	99
0	6	2	163	143	99
0	6	3	-11	31	99
0	6	5	119	110	99
0	6	6	446	450	99
0	6	7	413	412	99
0	6	8	598	631	99
0	6	9	216	223	99
0	6	10	271	272	99
0	6	11	212	209	99
0	6	12	204	218	99
0	6	13	315	308	99
0	6	14	290	306	99
0	6	15	85	104	99
0	6	16	33	34	99
0	6	17	-18	56	99
0	6	18	73	67	99
0	6	19	63	8	99
0	6	20	241	233	99
0	7	1	387	365	99
0	7	2	267	265	99
0	7	3	718	737	99
0	7	4	54	95	99
0	7	5	580	581	99
0	7	6	685	674	99
0	7	7	532	550	99
0	7	8	264	277	99
0	7	9	532	526	99
0	7	10	98	93	99
0	7	11	348	349	99
0	7	12	239	246	99
0	7	13	-58	20	99
0	7	14	36	31	99
0	7	15	95	94	99
0	7	16	-36	10	99
0	7	17	186	194	99
0	7	18	66	68	99
0	7	19	125	135	99
0	8	0	647	646	99
0	8	1	924	925	99
0	8	2	659	663	99
0	8	3	301	298	99
0	8	4	348	366	99
0	8	5	244	233	99
0	8	6	337	323	99
0	8	7	225	216	99
0	8	8	778	774	99
0	8	9	58	28	99
0	8	10	423	438	99
0	8	11	120	131	99
0	8	12	315	320	99
0	8	13	61	93	99
0	8	14	252	249	99
0	8	15	16	51	99
0	8	16	67	54	99
0	8	17	43	32	99
0	8	18	63	45	99
0	8	19	171	189	99
0	9	1	-84	53	99
0	9	2	681	723	99
0	9	3	488	483	99
0	9	4	438	432	99
0	9	5	406	408	99
0	9	6	47	68	99
0	9	7	66	53	99
0	9	8	-65	78	99
0	9	9	528	524	99
0	9	10	81	86	99
0	9	11	500	485	99
0	9	12	21	94	99
0	9	13	233	234	99
0	9	14	-92	29	99
0	9	15	178	182	99
0	9	16	40	29	99
0	9	17	57	71	99
0	9	18	123	135	99
0	9	19	119	129	99
0	10	0	123	115	99
0	10	1	505	515	99
0	10	2	369	400	99
0	10	3	624	636	99
0	10	4	32	65	99
0	10	5	367	353	99
0	10	6	460	457	99
0	10	7	337	333	99
0	10	8	466	464	99
0	10	9	124	125	99
0	10	10	528	518	99
0	10	11	87	99	99
0	10	12	264	272	99
0	10	13	169	153	99
0	10	14	429	434	99
0	10	15	100	122	99
0	10	16	58	17	99
0	10	17	46	73	99
0	10	18	45	53	99
0	11	-18	127	117	99
0	11	1	126	139	99
0	11	2	788	782	99
0	11	3	52	30	99
0	11	4	600	604	99
0	11	5	517	505	99
0	11	6	376	365	99
0	11	7	-33	24	99
0	11	8	405	403	99
0	11	9	341	344	99
0	11	10	-81	5	99
0	11	11	393	390	99
0	11	12	267	265	99
0	11	13	235	238	99
0	11	14	36	115	99
0	11	15	143	159	99
0	11	16	169	184	99
0	11	17	-16	9	99
0	12	0	482	465	99
0	12	1	524	535	99
0	12	2	147	177	99
0	12	3	478	491	99
0	12	4	58	43	99
0	12	5	854	855	99
0	12	6	271	263	99
0	12	7	209	184	99
0	12	8	38	31	99
0	12	9	66	108	99
0	12	10	174	173	99
0	12	11	62	16	99
0	12	12	55	33	99
0	12	13	110	119	99
0	12	14	205	202	99
0	12	15	268	256	99
0	12	16	54	43	99
0	12	17	121	124	99
0	13	1	317	326	99
0	13	2	474	473	99
0	13	3	127	133	99
0	13	4	588	588	99
0	13	5	125	122	99
0	13	6	145	147	99
0	13	7	158	146	99
0	13	8	318	321	99
0	13	9	57	14	99
0	13	10	49	54	99
0	13	11	58	23	99
0	13	12	189	176	99
0	13	13	47	67	99
0	13	14	-70	51	99
0	13	15	-40	45	99
0	13	16	156	172	99
0	14	0	685	689	99
0	14	1	474	498	99
0	14	2	68	99	99
0	14	3	394	384	99
0	14	4	69	102	99
0	14	5	340	352	99
0	14	6	222	220	99
0	14	7	139	139	99
0	14	8	56	41	99
0	14	9	62	22	99
0	14	10	167	155	99
0	14	11	102	76	99
0	14	12	-65	10	99
0	14	13	35	56	99
0	14	14	72	24	99
0	14	15	46	88	99
0	15	-15	84	69	99
0	15	1	425	431	99
0	15	2	464	452	99
0	15	3	-34	44	99
0	15	4	267	260	99
0	15	5	-42	86	99
0	15	6	61	41	99
0	15	7	58	90	99
0	15	8	49	20	99
0	15	9	115	124	99
0	15	10	75	90	99
0	15	11	61	45	99
0	15	12	25	16	99
0	15	13	137	126	99
0	15	14	40	41	99
0	16	-14	104	105	99
0	16	0	410	401	99
0	16	1	398	408	99
0	16	2	130	143	99
0	16	3	178	182	99
0	16	4	163	155	99
0	16	5	55	8	99
0	16	6	325	304	99
0	16	7	319	314	99
0	16	8	-22	45	99
0	16	9	61	35	99
0	16	10	-13	25	99
0	16	11	50	30	99
0	16	12	-40	41	99
0	16	13	64	68	99
0	17	1	227	229	99
0	17	2	173	169	99
0	17	3	142	133	99
0	17	4	93	77	99
0	17	5	122	124	99
0	17	6	153	149	99
0	17	7	241	240	99
0	17	8	126	127	99
0	17	9	-60	23	99
0	17	10	79	88	99
0	17	11	-67	26	99
0	17	12	144	151	99
0	18	0	219	226	99
0	18	1	180	155	99
0	18	2	-78	10	99
0	18	3	111	89	99
0	18	4	156	162	99
0	18	5	108	101	99
0	18	6	172	184	99
0	18	7	296	302	99
0	18	8	-10	83	99
0	18	9	107	85	99
0	18	10	21	15	99
0	18	11	80	59	99
0	19	1	134	129	99
0	19	2	132	91	99
0	19	3	-57	23	99
0	19	4	-62	27	99
0	19	5	73	99	99
0	19	6	169	178	99
0	19	7	32	6	99
0	19	8	230	220	99
0	19	9	-11	25	99
0	20	0	197	178	99
0	20	1	144	115	99
0	20	2	-64	62	99
0	20	3	126	133	99
0	20	4	141	123	99
0	20	5	-78	15	99
0	20	6	-19	6	99
0	20	7	268	247	99
0	21	1	78	19	99
0	21	2	63	87	99
0	21	3	132	143	99
0	21	4	-103	25	99
1	0	-20	463	437	99
1	0	-18	232	235	99
1	0	-16	175	177	99
1	0	-14	417	440	99
1	0	-12	148	144	99
1	0	-10	472	528	99
1	0	-8	38	19	99
1	0	-6	1029	1075	99
1	0	-4	97	96	72
1	0	-2	283	299	99
1	0	2	302	333	99
1	0	4	164	163	99
1	0	6	965	975	99
1	0	8	424	433	99
1	0	10	253	256	99
1	0	12	627	642	99
1	0	14	188	186	99
1	0	16	179	165	99
1	0	18	315	311	99
1	0	20	173	149	99
1	1	-21	128	119	99
1	1	-20	55	78	99
1	1	-19	362	365	99
1	1	-18	-62	35	99
1	1	-17	112	104	99
1	1	-16	173	170	99
1	1	-15	60	64	99
1	1	-14	301	311	99
1	1	-13	361	384	99
1	1	-12	101	99	99
1	1	-11	92	94	99
1	1	-10	167	173	99
1	1	-9	-10	49	99
1	1	-8	443	455	99
1	1	-7	507	531	99
1	1	-6	391	400	99
1	1	-5	1075	1077	99
1	1	-4	151	158	99
1	1	-3	766	780	99
1	1	-2	211	222	99
1	1	1	641	645	99
1	1	2	642	689	99
1	1	3	586	603	99
1	1	4	332	344	99
1	1	5	779	838	99
1	1	6	178	159	99
1	1	7	-43	30	99
1	1	8	348	368	99
1	1	9	440	507	99
1	1	10	67	67	99
1	1	11	481	522	99
1	1	12	528	566	99
1	1	13	480	489	99
1	1	14	-70	17	99
1	1	15	122	121	99
1	1	16	-21	38	99
1	1	17	304	292	99
1	1	18	55	42	99
1	1	19	108	100	99
1	1	20	86	83	99
1	2	-21	-109	12	99
1	2	-20	254	241	99
1	2	-19	245	248	99
1	2	-18	317	316	99
1	2	-17	48	88	99
1	2	-16	179	172	99
1	2	-15	167	189	99
1	2	-14	707	711	99
1	2	-13	253	241	99
1	2	-12	163	171	99
1	2	-11	36	45	99
1	2	-10	66	79	99
1	2	-9	36	60	99
1	2	-8	512	516	99
1	2	-7	97	86	99
1	2	-6	719	739	99
1	2	-5	699	689	99
1	2	-4	494	519	99
1	2	-3	782	786	99
1	2	-2	435	432	99
1	2	-1	311	298	99
1	2	0	132	166	88
1	2	1	1278	1273	99
1	2	2	627	640	99
1	2	3	198	202	99
1	2	4	126	134	99
1	2	5	308	310	99
1	2	6	1530	1503	99
1	2	7	139	121	99
1	2	8	492	472	99
1	2	9	319	321	99
1	2	10	411	417	99
1	2	11	111	108	99
1	2	12	907	887	99
1	2	13	111	101	99
1	2	14	352	349	99
1	2	15	37	14	99
1	2	16	75	111	99
1	2	17	61	7	99
1	2	18	91	103	99
1	2	19	235	208	99
1	2	20	84	47	99
1	3	-20	21	71	99
1	3	-19	291	291	99
1	3	-18	110	117	99
1	3	-17	236	223	99
1	3	-16	159	177	99
1	3	-15	65	108	99
1	3	-14	393	414	99
1	3	-13	806	808	99
1	3	-12	275	275	99
1	3	-11	453	474	99
1	3	-10	441	446	99
1	3	-9	200	218	99
1	3	-8	79	74	99
1	3	-7	59	44	99
1	3	-6	89	70	99
1	3	-5	1562	1528	99
1	3	-4	519	504	99
1	3	-3	101	81	83
1	3	-2	66	77	75
1	3	-1	1627	1652	99
1	3	0	132	129	89
1	3	1	1279	1278	99
1	3	2	222	199	99
1	3	3	187	184	99
1	3	4	278	268	99
1	3	5	1138	1127	99
1	3	6	436	421	99
1	3	7	598	584	99
1	3	8	39	19	99
1	3	9	467	475	99
1	3	10	56	43	99
1	3	11	672	671	99
1	3	12	378	376	99
1	3	13	163	176	99
1	3	14	17	60	99
1	3	15	372	365	99
1	3	16	159	164	99
1	3	17	61	48	99
1	3	18	213	200	99
1	3	19	129	127	99
1	3	20	23	71	99
1	4	-20	35	71	99
1	4	-19	35	30	99
1	4	-18	250	242	99
1	4	-17	-11	8	99
1	4	-16	41	38	99
1	4	-15	127	134	99
1	4	-14	607	617	99
1	4	-13	555	566	99
1	4	-12	51	57	99
1	4	-11	431	447	99
1	4	-10	658	658	99
1	4	-9	6	17	99
1	4	-8	478	497	99
1	4	-7	742	724	99
1	4	-6	532	535	99
1	4	-5	184	187	99
1	4	-4	107	87	99
1	4	-3	781	763	99
1	4	-2	658	657	99
1	4	-1	118	101	90
1	4	0	348	350	99
1	4	1	43	36	86
1	4	2	190	175	99
1	4	3	176	174	99
1	4	4	354	346	99
1	4	5	534	525	99
1	4	6	1278	1268	99
1	4	7	-13	25	99
1	4	8	-84	57	99
1	4	9	174	176	99
1	4	10	606	604	99
1	4	11	59	57	99
1	4	12	496	506	99
1	4	13	33	77	99
1	4	14	385	376	99
1	4	15	240	238	99
1	4	16	106	117	99
1	4	17	179	174	99
1	4	18	-84	47	99
1	4	19	64	53	99
1	4	20	105	103	99
1	5	-20	-63	14	99
1	5	-19	186	180	99
1	5	-18	28	75	99
1	5	-17	-27	68	99
1	5	-16	-19	99	99
1	5	-15	231	243	99
1	5	-14	243	232	99
1	5	-13	465	469	99
1	5	-12	782	801	99
1	5	-11	373	402	99
1	5	-10	109	117	99
1	5	-9	636	636	99
1	5	-8	615	611	99
1	5	-7	380	836	99
1	5	-6	172	164	99
1	5	-5	1022	1025	99
1	5	-4	92	96	99
1	5	-3	49	32	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	5	-2	413	404	99	1	6	12	112	91	99	1	8	-12	9	60	99	1	9	4	238	244	99	1	11	-15	124	128	99
1	5	-1	268	287	99	1	6	13	56	61	99	1	8	-11	138	142	99	1	9	5	121	118	99	1	11	-14	285	284	99
1	5	0	619	631	99	1	6	14	378	378	99	1	8	-10	380	380	99	1	9	6	266	262	99	1	11	-13	326	329	99
1	5	1	800	809	99	1	6	15	226	221	99	1	8	-9	161	162	99	1	9	7	508	504	99	1	11	-12	224	220	99
1	5	2	204	199	99	1	6	16	-56	92	99	1	8	-8	1077	1094	99	1	9	8	-59	79	99	1	11	-11	347	353	99
1	5	3	215	213	99	1	6	17	179	171	99	1	8	-7	356	356	99	1	9	9	225	225	99	1	11	-10	153	155	99
1	5	4	25	19	99	1	6	18	51	40	99	1	8	-6	71	70	99	1	9	10	138	156	99	1	11	-9	312	314	99
1	5	5	1027	1014	99	1	6	19	65	45	99	1	8	-5	216	210	99	1	9	11	136	136	99	1	11	-8	39	17	99
1	5	6	361	357	99	1	7	-20	80	54	99	1	8	-4	449	448	99	1	9	12	35	34	99	1	11	-7	123	127	99
1	5	7	312	328	99	1	7	-19	52	44	99	1	8	-3	236	239	99	1	9	13	310	303	99	1	11	-6	-15	50	99
1	5	8	334	317	99	1	7	-18	205	210	99	1	8	-2	651	662	99	1	9	14	196	194	99	1	11	-5	391	380	99
1	5	9	221	218	99	1	7	-17	274	280	99	1	8	-1	806	827	99	1	9	15	200	209	99	1	11	-4	463	469	99
1	5	10	64	50	99	1	7	-16	45	11	99	1	8	0	1274	1297	99	1	9	16	152	148	99	1	11	-3	47	40	99
1	5	11	356	348	99	1	7	-15	170	176	99	1	8	1	678	660	99	1	9	17	-41	8	99	1	11	-2	227	223	99
1	5	12	270	272	99	1	7	-14	116	108	99	1	8	2	97	80	99	1	9	18	103	102	99	1	11	-1	-63	19	99
1	5	13	99	80	99	1	7	-13	323	292	99	1	8	3	383	389	99	1	10	-18	-55	14	99	1	11	0	98	103	99
1	5	14	32	62	99	1	7	-12	381	389	99	1	8	4	173	180	99	1	10	-17	137	147	99	1	11	1	208	196	99
1	5	15	213	226	99	1	7	-11	269	276	99	1	8	5	161	157	99	1	10	-16	34	36	99	1	11	2	168	174	99
1	5	16	317	308	99	1	7	-10	82	96	99	1	8	6	1049	1030	99	1	10	-15	249	254	99	1	11	3	261	262	99
1	5	17	-42	59	99	1	7	-9	531	545	99	1	8	7	556	545	99	1	10	-14	396	390	99	1	11	4	156	144	99
1	5	18	156	159	99	1	7	-8	351	348	99	1	8	8	422	405	99	1	10	-13	66	60	99	1	11	5	349	343	99
1	5	19	266	250	99	1	7	-7	1276	1264	99	1	8	9	-53	20	99	1	10	-12	-25	85	99	1	11	6	91	84	99
1	5	20	-76	17	99	1	7	-6	469	472	99	1	8	10	124	126	99	1	10	-11	72	74	99	1	11	7	367	371	99
1	6	-20	72	74	99	1	7	-5	659	645	99	1	8	11	50	60	99	1	10	-10	290	277	99	1	11	8	498	476	99
1	6	-19	-16	12	99	1	7	-4	82	81	99	1	8	12	38	61	99	1	10	-9	60	94	99	1	11	9	216	214	99
1	6	-18	41	58	99	1	7	-3	770	776	99	1	8	13	188	185	99	1	10	-8	740	736	99	1	11	10	257	241	99
1	6	-17	57	70	99	1	7	-2	80	91	99	1	8	14	312	310	99	1	10	-7	447	446	99	1	11	11	238	231	99
1	6	-16	159	171	99	1	7	-1	91	106	99	1	8	15	12	67	99	1	10	-6	255	246	99	1	11	12	287	275	99
1	6	-15	-51	7	99	1	7	0	159	146	99	1	8	16	45	56	99	1	10	-5	38	22	99	1	11	13	158	165	99
1	6	-14	382	399	99	1	7	1	694	710	99	1	8	17	27	9	99	1	10	-4	87	29	99	1	11	14	263	271	99
1	6	-13	453	492	99	1	7	2	338	359	99	1	8	18	124	121	99	1	10	-3	257	259	99	1	11	15	221	227	99
1	6	-12	88	57	99	1	7	3	213	220	99	1	8	19	130	128	99	1	10	-2	365	356	99	1	11	16	59	95	99
1	6	-11	435	446	99	1	7	4	39	54	99	1	9	-19	34	12	99	1	10	-1	381	416	99	1	11	17	56	75	99
1	6	-10	340	349	99	1	7	5	801	797	99	1	9	-18	182	167	99	1	10	0	199	28	99	1	12	-17	139	119	99
1	6	-9	10	38	99	1	7	6	85	80	99	1	9	-17	99	111	99	1	10	1	290	308	99	1	12	-16	91	88	99
1	6	-8	652	678	99	1	7	7	43	27	99	1	9	-16	104	64	99	1	10	2	111	113	99	1	12	-15	362	370	99
1	6	-7	214	211	99	1	7	8	184	189	99	1	9	-15	148	148	99	1	10	3	290	277	99	1	12	-14	167	153	99
1	6	-6	84	95	99	1	7	9	195	182	99	1	9	-14	109	95	99	1	10	4	309	301	99	1	12	-13	55	27	99
1	6	-5	136	108	99	1	7	10	104	100	99	1	9	-13	384	383	99	1	10	5	235	236	99	1	12	-12	104	104	99
1	6	-4	674	659	99	1	7	11	-65	29	99	1	9	-12	-47	47	99	1	10	6	723	711	99	1	12	-11	-40	23	99
1	6	-3	92	99	99	1	7	12	-24	29	99	1	9	-11	385	375	99	1	10	7	748	748	99	1	12	-10	69	74	99
1	6	-2	335	340	99	1	7	13	-24	8	99	1	9	-10	54	20	99	1	10	8	197	206	99	1	12	-9	51	85	99
1	6	-1	303	280	99	1	7	14	124	114	99	1	9	-9	526	501	99	1	10	9	63	19	99	1	12	-8	222	216	99
1	6	0	1706	1706	99	1	7	15	160	157	99	1	9	-8	232	236	99	1	10	10	66	67	99	1	12	-7	203	207	99
1	6	1	411	393	99	1	7	16	51	11	99	1	9	-7	288	279	99	1	10	11	109	112	99	1	12	-6	42	102	99
1	6	2	36	56	99	1	7	17	98	109	99	1	9	-6	518	520	99	1	10	12	218	219	99	1	12	-5	470	492	99
1	6	3	72	75	99	1	7	18	158	176	99	1	9	-5	249	241	99	1	10	13	399	395	99	1	12	-4	413	403	99
1	6	4	247	248	99	1	7	19	214	232	99	1	9	-4	312	319	99	1	10	14	354	356	99	1	12	-3	53	41	99
1	6	5	609	610	99	1	8	-19	67	94	99	1	9	-3	373	353	99	1	10	15	124	115	99	1	12	-2	255	250	99
1	6	6	988	966	99	1	8	-18	22	93	99	1	9	-2	649	658	99	1	10	16	-87	26	99	1	12	-1	310	323	99
1	6	7	155	155	99	1	8	-17	148	155	99	1	9	-1	-52	15	99	1	10	17	105	96	99	1	12	0	570	566	99
1	6	8	300	311	99	1	8	-16	199	208	99	1	9	0	287	299	99	1	10	18	113	119	99	1	12	1	108	98	99
1	6	9	172	176	99	1	8	-15	-29	22	99	1	9	1	561	566	99	1	11	-18	47	69	99	1	12	2	93	83	99
1	6	10	50	36	99	1	8	-14	319	324	99	1	9	2	593	609	99	1	11	-17	59	32	99	1	12	3	45	45	99
1	6	11	98	84	99	1	8	-13	142	143	99	1	9	3	-12	57	99	1	11	-16	194	198	99	1	12	4	14	18	99
1	12	5	572	571	99	1	14	-7	139	126	99	1	16	-12	63	71	99	1	18	-8	-56	27	99	1	21	-3	81	75	99
1	12	6	357	348	99	1	14	-6	138	138	99	1	16	-11	107	93	99	1	18	-7	338	332	99	1	21	-2	97	99	99
1	12	7	390	400	99	1	14	-5	-12	22	99	1	16	-10	-102	84	99	1	18	-6	135	150	99	1	21	-1	35	24	99
1	12	8	240	238	99	1	14	-4	479	476	99	1	16	-9	189	195	99	1	18	-5	-86	14	99	1	21	0	115	121	99
1	12	9	341	335	99	1	14	-3	267	258	99	1	16	-8	27	32	99	1	18	-4	47	70	99	1	21	1	-105	11	99
1	12	10	184	178	99	1	14	-2	51	49	99	1	16	-7	301	293	99	1	18	-3	-70	16	99	1	21	2	95	113	99
1	12	11	108	82	99	1	14	-1	447	443	99	1	16	-6	192	189	99	1	18	-2	-92	17	99	1	21	3	-98	47	99
1	12	12	-60	71	99	1	14	0	613	598	99	1	16	-5	227	215	99	1	18	-1	168	176	99	2	0	-20	130	133	99
1	12	13	398	412	99	1	14	1	298	300	99	1	16	-4	61	65	99	1	18	0	66	66	99	2	0	-18	113	130	99
1	12	14	190	183	99	1	14	2	164	161	99	1	16	-3	178	173	99	1	18	1	42	79	99	2	0	-16	-85	6	99
1	12	15	53	35	99	1	14	3	331	323	99	1	16	-2	-94	62	99	1	18	2	63	4	99	2	0	-14	185	187	99
1	12	16	-70	49	99	1	14	4	428	425	99	1	16	-1	337	336	99	1	18	3	136	132	99	2	0	-12	511	518	99
1	12	17	112	99	99	1	14	5	135	148	99	1	16	0	165	169	99	1	18	4	92	68	99	2	0	-10	166	173	99
1	13	-16	230	230	99	1	14	6	185	176	99	1	16	1	264	267	99	1	18	5	315	281	99	2	0	-8	1329	1359	99
1	13	-15	-88	10	99	1	14	7	474	462	99	1	16	2	55	27	99	1	18	6	133	120	99	2	0	-6	216	216	99
1	13	-14	156	172	99	1	14	8	297	297	99	1	16	3	355	362	99	1	18	7	207	214	99	2	0	-4	978	984	99
1	13	-13	128	128	99	1	14	9	192	204	99	1	16	4	-35	16	99	1	18	8	91	24	99	2	0	-2	2497	2423	99
1	13	-12	127	139	99	1	14	10	115	81	99	1	16	5	31	16	99	1	18	9	78	81	99	2	0	0	2609	2509	99
1	13	-11	36	59	99	1	14	11	-40	43	99	1	16	6	244	233	99	1	18	10	53	69	99	2	0	2	978	950	99
1	13	-10	64	50	99	1	14	12	74	105	99	1	16	7	418	421	99	1	18	11	76	5	99	2	0	4	1040	1072	99
1	13	-9	-48	44	99	1	14	13	278	287	99	1	16	8	141	121	99	1	19	-9	-67	49	99	2	0	6	1277	1296	99
1	13	-8	50	60	99	1	14	14	61	43	99	1	16	9	11	28	99	1	19	-8	135	151	99	2	0	8	423	404	99
1	13	-7	277	270	99	1	14	15	38	32	99	1	16	10	130	129	99	1	19	-7	56	27	99	2	0	10	605	585	99
1	13	-6	361	342	99	1	15	-15	53	85	99	1	16	11	-45	55	99	1	19	-6	232	242	99	2	0	12	595	590	99
1	13	-5	358	363	99	1	15	-14	165	144	99	1	16	12	157	161	99	1	19	-5	60	76	99	2	0	14	171	175	99
1	13	-4	475	466	99	1	15	-13	94	105	99	1	16	13	173	164	99	1	19	-4	56	5	99	2	0	16	41	82	99
1	13	-3	363	351	99	1	15	-12	102	86	99	1	17	-13	14	125	99	1	19	-3	54	51	99	2	0	18	219	251	99
1	13	-2	76	70	99	1	15	-11	-81	56	99	1	17	-12	246	222	99	1	19	-2	-75	55	99	2	0	20	225	234	99
1	13	-1	102	140	99	1	15	-10	-28	66	99	1	17	-11	36	38	99	1	19	-1	84	34	99	2	1	-21	97	102	99
1	13	0	125	138	99	1	15	-9	202	211	99	1	17	-10	99	105	99	1	19	0	53	72	99	2	1	-20	26	54	99
1	13	1	443	454	99	1	15	-8	95	112	99	1	17	-9	85	79	99	1	19	1	93	76	99	2	1	-19	358	331	99
1	13	2	218	242	99	1	15	-7	60	7	99	1	17	-8	49	12	99	1	19	2	57	87	99	2	1	-18	-53	47	99
1	13	3	-39	51	99	1	15	-6	391	389	99	1	17	-7	165	165	99	1	19	3	-55	15	99	2	1	-17	-62	25	99
1	13	4	341	363	99	1	15	-5	224	230	99	1	17	-6	259	251	99	1	19	4	177	169	99	2	1	-16	135	122	99
1	13	5	382	387	99	1	15	-4	-28	45	99	1	17	-5	166	173	99	1	19	5	49	83	99	2	1	-15	67	48	99
1	13	6	270	261	99	1	15	-3	113	118	99	1	17	-4	-34	16	99	1	19	6	-33	18	99	2	1	-14	77	102	99
1	13	7	42	75	99	1	15	-2	462	477	99	1	17	-3	166	163	99	1	19	7	-32	7	99	2	1	-13	350	337	99
1	13	8	432	418	99	1	15	-1	142	155	99	1	17	-2	158	183	99	1	19	8	267	254	99	2	1	-12	103	90	99
1	13	9	233	229	99	1	15	0	125	112	99	1	17	-1	68	45	99	1	19	9	-73	14	99	2	1	-11	98	108	99
1	13	10	221	221	99	1	15	1	233	222	99	1	17	0	91	97	99	1	20	-7	256	226	99	2	1	-10	43	60	99
1	13	11	146	146	99	1	15	2	517	505	99	1	17	1	45	28	99	1	20	-6	-104	35	99	2	1	-9	649	652	99
1	13	12	258	239	99	1	15	3	-110	12	99	1	17	2	342	325	99	1	20	-5	-48	56	99	2	1	-8	322	309	99
1	13	13	-68	29	99	1	15	4	312	313	99	1	17	3	111	127	99	1	20	-4	66	50	99	2	1	-7	1660	1626	99
1	13	14	270	272	99	1	15	5	174	180	99	1	17	4	186	167	99	1	20	-3	61	77	99	2	1	-6	623	612	99
1	13	15	96	88	99	1	15	6	200	211	99	1	17	5	155	143	99	1	20	-2	-17	13	99	2	1	-5	454	458	99
1	13	16	30	34	99	1	15	7	40	52	99	1	17	6	20	40	99	1	20	-1	203	206	99	2	1	-4	43	34	82
1	14	-16	72	92	99	1	15	8	209	215	99	1	17	7	135	138	99	1	20	0	77	106	99	2	1	-3	444	451	99
1	14	-15	223	238	99	1	15	9	173	162	99	1	17	8	209	204	99	1	20	1	116	113	99	2	1	-2	880	870	99
1	14	-14	-109	26	99	1	15	10	-125	28	99	1	17	9	116	115	99	1	20	2	5	48	99	2	1	-1	1456	1457	99
1	14	-13	59	47	99	1	15	11	184	174	99	1	17	10	71	51	99	1	20	3	81	18	99	2	1	0	800	788	99
1	14	-12	63	74	99	1	15	12	35	37	99	1	17	11	190	181	99	1	20	4	-26	33	99	2	1	1	1319	1335	99
1	14	-11	60	52	99	1	15	13	78	40	99	1	17	12	-66	95	99	1	20	5	232	229	99	2	1	2	681	673	99
1	14	-10	192	213	99	1	15	14	91	114	99	1	18	-11	162	162	99	1	20	6	-47	12	99	2	1	3	744	745	99
1	14	-9	71	106	99	1	16	-14	69	102	99	1	18	-10	84	81	99	1	20	7	149	155	99	2	1	4	732	760	99
1	14	-8	226	224	99	1	16	-13	117	117	99	1	18	-9	35	57	99	1	21	-4	-112	10	99	2	1	5	1052	1042	99

h	k	l	Fo	Fc	sigF2
2	1	6	-43	8	99
2	1	7	632	660	99
2	1	8	164	188	99
2	1	9	698	736	99
2	1	10	111	114	99
2	1	11	906	887	99
2	1	12	219	216	99
2	1	13	521	501	99
2	1	14	74	35	99
2	1	15	155	161	99
2	1	16	-73	44	99
2	1	17	227	227	99
2	1	18	-85	61	99
2	1	19	-33	9	99
2	1	20	75	68	99
2	2	-21	-70	49	99
2	2	-20	44	15	99
2	2	-19	131	132	99
2	2	-18	212	209	99
2	2	-17	-63	57	99
2	2	-16	57	51	99
2	2	-15	-11	61	99
2	2	-14	308	290	99
2	2	-13	101	102	99
2	2	-12	349	342	99
2	2	-11	190	198	99
2	2	-10	370	375	99
2	2	-9	160	156	99
2	2	-8	1358	1309	99
2	2	-7	179	169	99
2	2	-6	93	92	99
2	2	-5	311	316	99
2	2	-4	401	417	99
2	2	-3	822	802	99
2	2	-2	1077	1077	99
2	2	-1	1349	1337	99
2	2	0	515	507	99
2	2	1	237	237	99
2	2	2	376	368	99
2	2	3	191	191	99
2	2	4	393	384	99
2	2	5	106	120	99
2	2	6	1409	1464	99
2	2	7	108	77	99
2	2	8	190	198	99
2	2	9	602	641	99
2	2	10	468	499	99
2	2	11	144	138	99
2	2	12	893	916	99
2	2	13	127	118	99
2	2	14	209	211	99
2	2	15	102	96	99
2	2	16	140	98	99
2	2	17	-86	68	99
2	2	18	130	148	99
2	3	1	120	91	99
2	3	2	703	709	99
2	3	3	94	92	99
2	3	4	258	254	99
2	3	5	144	118	99
2	3	6	353	370	99
2	3	7	-25	52	99
2	3	8	-33	72	99
2	3	9	160	159	99
2	3	10	264	264	99
2	3	11	56	25	99
2	3	12	37	16	99
2	3	13	142	156	99
2	3	14	334	339	99
2	3	15	125	115	99
2	3	16	76	84	99
2	3	17	-49	34	99
2	3	18	83	85	99
2	3	-19	135	127	99
2	3	-18	71	90	99
2	3	-17	100	93	99
2	3	-16	92	79	99
2	3	-15	65	12	99
2	3	-14	80	34	99
2	3	-13	349	354	99
2	3	-12	43	14	99
2	3	-11	166	179	99
2	3	-10	105	134	99
2	3	-9	157	148	99
2	3	-8	260	256	99
2	3	-7	83	70	99
2	3	-6	634	627	99
2	3	-5	866	893	99
2	3	-4	397	385	99
2	3	-3	248	244	99
2	3	-2	133	152	99
2	3	-1	54	67	99
2	3	0	580	568	99
2	3	1	1128	1145	99
2	3	2	381	395	99
2	3	3	522	515	99
2	3	4	285	275	99
2	3	5	245	236	99
2	3	6	199	198	99
2	3	7	215	207	99
2	3	8	267	266	99
2	3	9	51	26	99
2	3	10	61	90	99
2	3	11	-77	48	99
2	3	12	51	81	99
2	3	13	232	240	99
2	3	14	177	184	99
2	3	15	266	271	99
2	3	16	69	107	99
2	3	17	33	17	99
2	2	19	185	163	99
2	2	20	139	122	99
2	3	-20	69	57	99
2	3	-19	251	242	99
2	3	-18	-57	62	99
2	3	-17	128	115	99
2	3	-16	41	66	99
2	3	-15	64	49	99
2	3	-14	29	59	99
2	3	-13	751	741	99
2	3	-12	55	39	99
2	3	-11	378	373	99
2	3	-10	-54	29	99
2	3	-9	418	412	99
2	3	-8	279	250	99
2	3	-7	203	226	99
2	3	-6	227	225	99
2	3	-5	313	323	99
2	3	-4	430	405	99
2	3	-3	293	305	99
2	3	-2	913	900	99
2	3	-1	851	838	99
2	3	0	1515	1483	99
2	3	1	471	476	99
2	3	2	620	614	99
2	3	3	160	158	99
2	3	4	465	460	99
2	3	5	8	105	99
2	3	6	700	693	99
2	3	7	963	1010	99
2	3	8	263	273	99
2	3	9	402	379	99
2	3	10	224	237	99
2	3	11	731	730	99
2	3	12	86	68	99
2	3	13	66	79	99
2	3	14	180	171	99
2	3	15	303	306	99
2	3	16	112	105	99
2	3	17	-22	106	99
2	3	18	132	151	99
2	4	19	97	81	99
2	4	-20	77	84	99
2	4	-19	-59	40	99
2	4	-18	254	251	99
2	4	-17	72	50	99
2	4	-16	119	96	99
2	4	-15	62	41	99
2	4	-14	299	274	99
2	4	-13	116	98	99
2	4	-12	317	313	99
2	4	-11	-53	10	99
2	4	-10	385	382	99
2	4	-9	65	56	99
2	4	-8	1003	1004	99
2	9	18	24	31	99
2	10	-18	171	173	99
2	10	-17	-32	57	99
2	10	-16	114	102	99
2	10	-15	33	71	99
2	10	-14	374	367	99
2	10	-13	164	157	99
2	10	-12	58	61	99
2	10	-11	199	179	99
2	10	-10	220	216	99
2	10	-9	212	216	99
2	10	-8	392	376	99
2	10	-7	558	559	99
2	10	-6	679	681	99
2	10	-5	383	388	99
2	10	-4	265	253	99
2	10	-3	301	285	99
2	10	-2	265	260	99
2	10	-1	222	229	99
2	10	0	353	379	99
2	10	1	227	220	99
2	10	2	591	603	99
2	10	3	94	88	99
2	10	4	412	431	99
2	10	5	57	39	99
2	10	6	428	433	99
2	10	7	563	571	99
2	10	8	160	168	99
2	10	9	311	314	99
2	10	10	71	47	99
2	10	11	190	186	99
2	10	12	225	235	99
2	10	13	296	303	99
2	10	14	421	409	99
2	10	15	159	169	99
2	10	16	78	44	99
2	10	17	40	34	99
2	11	-18	-137	54	99
2	11	-17	117	87	99
2	11	-16	93	88	99
2	11	-15	-79	28	99
2	11	-14	204	188	99
2	11	-13	351	357	99
2	11	-12	453	451	99
2	11	-11	206	198	99
2	11	-10	246	247	99
2	11	-9	272	272	99
2	11	-8	162	163	99
2	11	-7	116	121	99
2	11	-6	323	316	99
2	11	-5	720	699	99
2	11	-4	394	412	99
2	11	-3	-105	39	99
2	11	-2	-56	62	99
2	11	-1	-55	2	99
2	4	-7	597	574	99
2	4	-6	315	311	99
2	4	-5	432	412	99
2	4	-4	232	217	99
2	4	-3	652	633	99
2	4	-2	656	672	99
2	4	-1	444	436	99
2	4	0	100	114	99
2	4	1	770	755	99
2	4	2	837	828	99
2	4	3	322	307	99
2	4	4	390	382	99
2	4	5	1024	1007	99
2	4	6	740	752	99
2	4	7	427	433	99
2	4	8	162	136	99
2	4	9	212	211	99
2	4	10	479	474	99
2	4	11	145	133	99
2	4	12	657	669	99
2	4	13	245	251	99
2	4	14	303	292	99
2	4	15	223	217	99
2	4	16	170	156	99
2	4	17	206	205	99
2	4	18	125	111	99
2	4	19	96	105	99
2	5	-20	22	11	99
2	5	-19	194	200	99
2	5	-18	68	55	99
2	5	-17	28	37	99
2	5	-16	172	177	99
2	5	-15	101	75	99
2	5	-14	222	230	99
2	5	-13	472	484	99
2	5	-12	304	285	99
2	5	-11	110	107	99
2	5	-10	244	230	99
2	5	-9	399	386	99
2	5	-8	95	87	99
2	5	-7	432	421	99
2	5	-6	259	251	99
2	5	-5	762	754	99
2	5	-4	592	566	99
2	5	-3	574	584	99
2	5	-2	353	351	99
2	5	-1	462	460	99
2	5	0	1089	1050	99
2	5	1	1333	1314	99
2	5	2	294	314	99
2	5	3	350	352	99
2	5	4	549	542	99
2	5	5	471	474	99
2	5	6	541	550	99
2	5	7	651	665	99
2	11	0	132	114	99
2	11	1	512	527	99
2	11	2	246	262	99
2	11	3	235	222	99
2	11	4	118	99	99
2	11	5	187	174	99
2	11	6	70	65	99
2	11	7	320	310	99
2	11	8	863	873	99
2	11	9	66	15	99
2	11	10	163	162	99
2	11	11	135	127	99
2	11	12	196	203	99
2	11	13	125	125	99
2	11	14	265	259	99
2	11	15	180	186	99
2	11	16	-96	38	99
2	11	17	83	52	99
2	12	-17	86	79	99
2	12	-16	59	60	99
2	12	-15	211	214	99
2	12	-14	102	69	99
2	12	-13	209	195	99
2	12	-12	116	108	99
2	12	-11	366	359	99
2	12	-10	221	211	99
2	12	-9	164	163	99
2	12	-8	106	92	99
2	12	-7	606	600	99
2	12	-6	-66	73	99
2	12	-5	92	78	99
2	12	-4	144	154	99
2	12	-3	326	329	99
2	12	-2	290	305	99
2	12	-1	83	67	99
2	12	0	366	364	99
2	12	1	46	111	99
2	12	2	61	22	99
2	12	3	51	32	99
2	12	4	206	214	99
2	12	5	240	240	99
2	12	6	193	184	99
2	12	7	464	476	99
2	12	8	-100	22	99
2	12	9	519	505	99
2	12	10	56	92	99
2	12	11	70	132	99
2	12	12	132	142	99
2	12	13	378	393	99
2	12	14	115	120	99
2	12	15	104	104	99
2	12	16	58	10	99
2	13	-16	125	149	99
2	13	-15	-78	57	99
2	13	-14	11	55	99
2	13	-13	-22	76	99
2	13	-12	373	380	99
2	13	-11	76	66	99
2	13	-10	237	226	99
2	13	-9	116	81	99
2	13	-8	136	139	99
2	13	-7	359	369	99
2	13	-6	476	476	99
2	13	-5	218	212	99
2	13	-4	53	38	99
2	13	-3	161	172	99
2	13	-2	292	294	99
2	13	-1	136	132	99
2	13	0	82	99	99
2	13	1	289	279	99
2	13	2	244	242	99
2	13	3	307	306	99
2	13	4	17	23	99
2	13	5	251	245	99
2	13	6	247	238	99
2	13	7	37	33	99
2	13	8	629	625	99
2	13	9	-19	34	99
2	13	10	218	227	99
2	13	11	105	110	99
2	13	12	212	195	99
2	13	13	99	110	99
2	13	14	256	259	99
2	13	15	-101	54	99
2	14	-16	36	79	99
2	14	-15	105	89	99
2	14	-14	52	19	99
2	14	-13	84	81	99
2	14	-12	-52	9	99
2	14	-11	265	247	99
2	14	-10	73	41	99
2	14	-9	207	199	99
2	14	-8	339	326	99
2	14	-7	205	203	99
2	14	-6	141	124	99
2	14	-5	252	238	99
2	14	-4	67	67	99
2	14	-3	156	176	99
2	14	-2	169	175	99
2	14	-1	201	195	99
2	14	0	141	119	99
2	14	1	262	263	99
2	14	2	61	69	99
2	14	3	-68	33	99
2	14	4	359	374	99
2	14	5	29	17	99
2	14	6	212	207	99
2	14	7	358	345	99
2	14	8	167	165	99
2	14	9	292	296	99
2	14	10	-40	14	99
2	14	11	101	107	99
2	14	12	211	220	99
2	14	13	212	205	99
2	14	14	68	35	99
2	15	-15	113	96	99
2	15	-14	72	61	99
2	15	-13	140	135	99
2	15	-12	170	168	99
2	15	-11	39	36	99
2	15	-10	71	103	99
2	15	-9	77	66	99
2	15	-8	-29	96	99
2	15	-7	335	313	99
2	15	-6	336	344	99
2	15	-5	-50	63	99
2	15	-4	160	169	99
2	15	-3	149	144	99
2	15	-2	158	168	99
2	15	-1	156	138	99
2	15	0	222	224	99
2	15	1	44	69	99
2	15	2	305	309	99
2	15	3	354	358	99
2	15	4	32	46	99
2	15	5	132	109	99
2	15	6	-89	39	99
2	15	7	-21	87	99
2	15	8	200	210	99
2	15	9	172	152	99
2	15	10	-103	56	99
2	15	11	229	223	99
2	15	12	-80	11	99
2	15	13	55	90	99
2	15	14	139	159	99
2	16	-14	47	81	99
2	16	-13	-18	20	99
2	16	-12	134	129	99
2	16	-11	133	165	99
2	16	-10	111	105	99
2	16	-9	178	168	99
2	16	-8	194	182	99
2	16	-7	209	219	99
2	16	-6	-26	48	99
2	16	-5	244	228	99
2	16	-4	157	160	99
2	16	-3	47	33	99
2	16	-2	114	124	99
2	16	-1	378	384	99
2	16	0	64	22	99
2	16	1	131	146	99
2	16	2	242	247	99
2	16	3	174	172	99
2	16	4	52	108	99
2	16	5	-60	38	99
2	7	-16	39	39	99
2	7	-15	58	60	99
2	7	-14	19	32	99
2	7	-13	234	212	99
2	7	-12	51	57	99
2	7	-11	-26	19	99
2	7	-10	102	64	99
2	7	-9	-24	28	99
2	7	-8	43	25	99
2	7	-7	543	540	99
2	7	-6	670	643	99
2	7	-5	785	773	99
2	7	-4	118	127	99
2	7	-3	768	763	99
2	7	-2	328	340	99
2	7	-1	87	96	99
2	7	0	962	941	99
2	7	1	1432	1419	99
2	7	2	184	177	99
2	7	3	559	556	99
2	7	4	665	677	99
2	7	5	100	104	99
2	7	6	51	34	99
2	7	7	95	81	99
2	7	8	138	134	99
2	7	9	52	38	99
2	7	10	50	15	99
2	7	11	78	84	99
2	7	12	119	115	99
2	7	13	-71	32	99
2	7	14	52	68	99
2	7	15	212	215	99
2	7	16	35	52	99
2	7	17	181	189	99
2	7	18	55	98	99
2	8	-19	66	40	99
2	8	-18	65	48	99
2	8	-17	31	26	99
2	8	-16	48	53	99
2	8	-15	56	14	99
2	8	-14	257	258	99
2	8	-13	10	40	99
2	8	-12	104	70	99
2	8	-11	16	63	99
2	8	-10	-68	13	99
2	8	-9	203	209	99
2	8	-8	431	436	99
2	8	-7	187	186	99
2	8	-6	612	592	99
2	8	-5	486	480	99
2	8	-4	571	573	99
2	8	-3	124	112	99
2	8	-2	483	488	99
2	8	-1	767	757	99
2	8	0	1071	1071	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	16	6	392	394	99	2	19	-7	122	118	99	3	1	-20	-17	34	99	3	2	-5	-8	34	99	3	3	10	57	8	99
2	16	7	246	245	99	2	19	-6	160	176	99	3	1	-19	157	136	99	3	2	-4	150	153	99	3	3	11	291	302	99
2	16	8	113	72	99	2	19	-5	54	19	99	3	1	-18	53	26	99	3	2	-3	220	212	99	3	3	12	209	218	99
2	16	9	-24	27	99	2	19	-4	233	233	99	3	1	-17	119	115	99	3	2	-2	614	634	99	3	3	13	37	36	99
2	16	10	178	190	99	2	19	-3	54	76	99	3	1	-16	152	132	99	3	2	-1	1750	1707	99	3	3	14	169	175	99
2	16	11	-80	82	99	2	19	-2	-27	72	99	3	1	-15	59	65	99	3	2	0	378	357	99	3	3	15	281	287	99
2	16	12	235	229	99	2	19	-1	-48	2	99	3	1	-14	96	86	99	3	2	1	177	164	99	3	3	16	128	125	99
2	17	-12	167	167	99	2	19	0	242	258	99	3	1	-13	754	750	99	3	2	2	547	541	99	3	3	17	79	80	99
2	17	-11	-78	24	99	2	19	1	79	67	99	3	1	-12	341	340	99	3	2	3	372	386	99	3	3	18	47	91	99
2	17	-10	-99	53	99	2	19	2	-58	11	99	3	1	-11	69	84	99	3	2	4	127	125	99	3	3	19	83	78	99
2	17	-9	176	172	99	2	19	3	68	101	99	3	1	-10	182	183	99	3	2	5	241	239	99	3	4	-20	60	58	99
2	17	-8	84	84	99	2	19	4	135	138	99	3	1	-9	285	279	99	3	2	6	947	972	99	3	4	-19	236	239	99
2	17	-7	-46	89	99	2	19	5	137	147	99	3	1	-8	48	89	99	3	2	7	85	61	99	3	4	-18	324	316	99
2	17	-6	317	305	99	2	19	6	232	238	99	3	1	-7	1547	1554	99	3	2	8	213	214	99	3	4	-17	100	104	99
2	17	-5	64	45	99	2	19	7	65	25	99	3	1	-6	190	174	99	3	2	9	175	160	99	3	4	-16	223	225	99
2	17	-4	115	113	99	2	19	8	66	74	99	3	1	-5	112	97	99	3	2	10	38	26	99	3	4	-15	119	146	99
2	17	-3	167	170	99	2	20	-7	163	163	99	3	1	-4	31	4	99	3	2	11	66	60	99	3	4	-14	208	204	99
2	17	-2	81	86	99	2	20	-6	47	89	99	3	1	-3	343	345	99	3	2	12	392	404	99	3	4	-13	211	210	99
2	17	-1	105	92	99	2	20	-5	15	28	99	3	1	-2	105	102	99	3	2	13	210	208	99	3	4	-12	482	502	99
2	17	0	339	335	99	2	20	-4	54	15	99	3	1	-1	275	270	99	3	2	14	190	189	99	3	4	-11	241	237	99
2	17	1	84	102	99	2	20	-3	116	78	99	3	1	0	117	119	99	3	2	15	155	159	99	3	4	-10	431	412	99
2	17	2	177	170	99	2	20	-2	45	85	99	3	1	1	982	975	99	3	2	16	173	183	99	3	4	-9	272	258	99
2	17	3	195	179	99	2	20	-1	314	320	99	3	1	2	254	246	99	3	2	17	229	209	99	3	4	-8	344	344	99
2	17	4	158	147	99	2	20	0	174	188	99	3	1	3	78	58	99	3	2	18	139	132	99	3	4	-7	596	562	99
2	17	5	125	124	99	2	20	1	69	37	99	3	1	4	183	175	99	3	2	19	41	5	99	3	4	-6	-25	14	99
2	17	6	115	128	99	2	20	2	-52	7	99	3	1	5	210	206	99	3	3	-20	173	185	99	3	4	-5	156	152	99
2	17	7	193	186	99	2	20	3	-59	15	99	3	1	6	-19	32	99	3	3	-19	131	122	99	3	4	-4	518	499	99
2	17	8	-42	46	99	2	20	4	-53	81	99	3	1	7	631	646	99	3	3	-18	-69	65	99	3	4	-3	385	379	99
2	17	9	166	151	99	2	20	5	313	310	99	3	1	8	196	188	99	3	3	-17	197	180	99	3	4	-2	487	486	99
2	17	10	49	81	99	2	20	6	-74	52	99	3	1	9	-33	65	99	3	3	-16	85	63	99	3	4	-1	943	928	99
2	17	11	214	222	99	2	21	-3	106	123	99	3	1	10	65	51	99	3	3	-15	42	52	99	3	4	0	391	394	99
2	18	-11	134	125	99	2	21	-2	179	184	99	3	1	11	-74	49	99	3	3	-14	253	242	99	3	4	1	373	363	99
2	18	-10	68	10	99	2	21	-1	-90	82	99	3	1	12	316	299	99	3	3	-13	1013	1015	99	3	4	2	569	582	99
2	18	-9	-57	15	99	2	21	0	290	289	99	3	1	13	269	266	99	3	3	-12	350	336	99	3	4	3	209	189	99
2	18	-8	23	95	99	2	21	1	136	122	99	3	1	14	106	84	99	3	3	-11	165	182	99	3	4	4	615	621	99
2	18	-7	245	255	99	3	0	-20	115	111	99	3	1	15	251	235	99	3	3	-10	358	365	99	3	4	5	371	371	99
2	18	-6	-74	5	99	3	0	-18	-12	21	99	3	1	16	-18	70	99	3	3	-9	537	542	99	3	4	6	758	755	99
2	18	-5	51	54	99	3	0	-16	164	161	99	3	1	17	209	214	99	3	3	-8	284	283	99	3	4	7	-55	29	99
2	18	-4	209	206	99	3	0	-14	573	580	99	3	1	18	-46	44	99	3	3	-7	767	769	99	3	4	8	357	359	99
2	18	-3	69	110	99	3	0	-12	316	322	99	3	1	19	9	34	99	3	3	-6	246	249	99	3	4	9	190	174	99
2	18	-2	65	75	99	3	0	-10	96	114	99	3	2	-20	100	45	99	3	3	-5	562	574	99	3	4	10	311	297	99
2	18	-1	325	330	99	3	0	-8	1100	1092	99	3	2	-19	-53	8	99	3	3	-4	109	111	99	3	4	11	66	59	99
2	18	0	59	59	99	3	0	-6	916	914	99	3	2	-18	178	175	99	3	3	-3	714	698	99	3	4	12	485	465	99
2	18	1	46	82	99	3	0	-4	417	416	99	3	2	-17	-19	74	99	3	3	-2	629	617	99	3	4	13	46	11	99
2	18	2	126	149	99	3	0	-2	1120	1112	99	3	2	-16	-68	13	99	3	3	-1	341	341	99	3	4	14	151	151	99
2	18	3	79	58	99	3	0	0	552	559	99	3	2	-15	-51	25	99	3	3	0	475	468	99	3	4	15	71	66	99
2	18	4	-84	13	99	3	0	2	223	214	99	3	2	-14	514	512	99	3	3	1	747	739	99	3	4	16	157	172	99
2	18	5	339	318	99	3	0	4	179	164	99	3	2	-13	246	249	99	3	3	2	121	137	99	3	4	17	68	69	99
2	18	6	193	167	99	3	0	6	505	499	99	3	2	-12	450	453	99	3	3	3	456	468	99	3	4	18	109	109	99
2	18	7	56	9	99	3	0	8	43	50	99	3	2	-11	471	460	99	3	3	4	129	126	99	3	4	19	44	87	99
2	18	8	59	3	99	3	0	10	244	226	99	3	2	-10	187	184	99	3	3	5	249	235	99	3	5	-20	310	284	99
2	18	9	56	16	99	3	0	12	116	116	99	3	2	-9	162	152	99	3	3	6	341	332	99	3	5	-19	177	174	99
2	18	10	-90	149	99	3	0	14	-33	56	99	3	2	-8	977	984	99	3	3	7	947	941	99	3	5	-18	181	183	99
2	19	-9	38	24	99	3	0	16	141	139	99	3	2	-7	69	15	99	3	3	8	28	56	99	3	5	-17	177	187	99
2	19	-8	66	121	99	3	0	18	234	249	99	3	2	-6	408	408	99	3	3	9	146	150	99	3	5	-16	191	174	99
3	5	-15	157	158	99	3	6	1	253	254	99	3	7	18	65	74	99	3	9	-1	444	452	99	3	11	-16	122	121	99
3	5	-14	425	440	99	3	6	2	609	609	99	3	8	-19	-37	49	99	3	9	0	487	495	99	3	11	-15	150	136	99
3	5	-13	446	446	99	3	6	3	160	162	99	3	8	-18	181	169	99	3	9	1	693	698	99	3	11	-14	190	198	99
3	5	-12	101	120	99	3	6	4	517	501	99	3	8	-17	64	98	99	3	9	2	444	444	99	3	11	-13	259	251	99
3	5	-11	52	22	99	3	6	5	578	573	99	3	8	-16	228	208	99	3	9	3	487	468	99	3	11	-12	477	486	99
3	5	-10	308	294	99	3	6	6	384	400	99	3	8	-15	53	83	99	3	9	4	257	255	99	3	11	-11	146	152	99
3	5	-9	93	113	99	3	6	7	83	70	99	3	8	-14	227	215	99	3	9	5	510	504	99	3	11	-10	288	273	99
3	5	-8	671	666	99	3	6	8	42	20	99	3	8	-13	92	89	99	3	9	6	241	230	99	3	11	-9	85	55	99
3	5	-7	512	502	99	3	6	9	163	163	99	3	8	-12	176	175	99	3	9	7	734	719	99	3	11	-8	212	204	99
3	5	-6	129	125	99	3	6	10	52	41	99	3	8	-11	68	85	99	3	9	8	80	72	99	3	11	-7	37	58	99
3	5	-5	961	943	99	3	6	11	54	38	99	3	8	-10	127	109	99	3	9	9	144	134	99	3	11	-6	316	313	99
3	5	-4	621	606	99	3	6	12	268	279	99	3	8	-9	225	220	99	3	9	10	61	61	99	3	11	-5	185	185	99
3	5	-3	311	324	99	3	6	13	64	38	99	3	8	-8	91	97	99	3	9	11	205	196	99	3	11	-4	157	147	99
3	5	-2	674	659	99	3	6	14	-22	27	99	3	8	-7	104	100	99	3	9	12	138	141	99	3	11	-3	82	76	99
3	5	-1	269	272	99	3	6	15	-34	52	99	3	8	-6	120	113	99	3	9	13	219	221	99	3	11	-2	304	306	99
3	5	0	382	388	99	3	6	16	68	25	99	3	8	-5	660	658	99	3	9	14	120	110	99	3	11	-1	278	277	99
3	5	1	913	895	99	3	6	17	56	48	99	3	8	-4	729	737	99	3	9	15	48	81	99	3	11	0	158	170	99
3	5	2	509	504	99	3	6	18	180	184	99	3	8	-3	256	255	99	3	9	16	-105	27	99	3	11	1	328	326	99
3	5	3	343	325	99	3	7	-19	220	221	99	3	8	-2	913	908	99	3	9	17	45	86	99	3	11	2	104	84	99
3	5	4	92	78	99	3	7	-18	32	3	99	3	8	-1	716	726	99	3	10	-18	160	167	99	3	11	3	312	313	99
3	5	5	170	169	99	3	7	-17	181	163	99	3	8	0	795	806	99	3	10	-17	70	92	99	3	11	4	64	24	99
3	5	6	493	493	99	3	7	-16	45	10	99	3	8	1	-73	14	99	3	10	-16	299	291	99	3	11	5	170	151	99
3	5	7	700	700	99	3	7	-15	431	429	99	3	8	2	547	564	99	3	10	-15	26	40	99	3	11	6	534	525	99
3	5	8	211	208	99	3	7	-14	187	177	99	3	8	3	458	448	99	3	10	-14	-49	48	99	3	11	7	596	604	99
3	5	9	-43	44	99	3	7	-13	-8	50	99	3	8	4	441	414	99	3	10	-13	75	96	99	3	11	8	262	267	99
3	5	10	185	184	99	3	7	-12	152	144	99	3	8	5	129	132	99	3	10	-12	109	93	99	3	11	9	7	7	99
3	5	11	219	231	99	3	7	-11	156	160	99	3	8	6	686	674	99	3	10	-11	363	360	99	3	11	10	81	101	99
3	5	12	86	82	99	3	7	-10	-43	35	99	3	8	7	217	211	99	3	10	-10	50	74	99	3	11	11	171	167	99
3	5	13	230	227	99	3	7	-9	229	240	99	3	8	8	-44	34	99	3	10	-9	419	400	99	3	11	12	45	11	99
3	5	14	170	167	99	3	7	-8	300	288	99	3	8	9	65	108	99	3	10	-8	111	85	99	3	11	13	102	111	99
3	5	15	155	160	99	3	7	-7	368	362	99	3	8	10	78	42	99	3	10	-7	53	72	99	3	11	14	182	167	99
3	5	16	50	14	99	3	7	-6	268	265	99	3	8	11	65	48	99	3	10	-6	336	341	99	3	11	15	105	113	99
3	5	17	66	92	99	3	7	-5	699	684	99	3	8	12	307	317	99	3	10	-5	410	406	99	3	11	16	59	57	99
3	5	18	72	86	99	3	7	-4	272	260	99	3	8	13	-60	21	99	3	10	-4	218	220	99	3	12	-17	23	42	99
3	6	-20	59	68	99	3	7	-3	900	918	99	3	8	14	53	51	99	3	10	-3	158	159	99	3	12	-16	81	115	99
3	6	-19	235	239	99	3	7	-2	538	536	99	3	8	15	70	37	99	3	10	-2	334	326	99	3	12	-15	185	172	99
3	6	-18	234	237	99	3	7	-1	440	417	99	3	8	16	14	17	99	3	10	-1	322	327	99	3	12	-14	50	25	99
3	6	-17	-109	3	99	3	7	0	223	218	99	3	8	17	41	89	99	3	10	0	-54	15	99	3	12	-13	168	160	99
3	6	-16	219	213	99	3	7	1	1340	1326	99	3	9	-18	-66	53	99	3	10	1	-48	24	99	3	12	-12	218	209	99
3	6	-15	193	176	99	3	7	2	98	110	99	3	9	-17	239	243	99	3	10	2	465	449	99	3	12	-11	447	448	99
3	6	-14	103	111	99	3	7	3	290	279	99	3	9	-16	48	17	99	3	10	3	258	258	99	3	12	-10	-39	61	99
3	6	-13	216	218	99	3	7	4	71	73	99	3	9	-15	390	371	99	3	10	4	563	554	99	3	12	-9	251	239	99
3	6	-12	226	225	99	3	7	5	59	51	99	3	9	-14	99	94	99	3	10	5	313	288	99	3	12	-8	156	152	99
3	6	-11	40	29	99	3	7	6	249	249	99	3	9	-13	202	202	99	3	10	6	573	558	99	3	12	-7	60	37	99
3	6	-10	35	43	99	3	7	7	607	589	99	3	9	-12	187	184	99	3	10	7	297	291	99	3	12	-6	235	225	99
3	6	-9	370	358	99	3	7	8	168	163	99	3	9	-11	115	123	99	3	10	8	231	220	99	3	12	-5	205	192	99
3	6	-8	43	57	99	3	7	9	233	217	99	3	9	-10	204	209	99	3	10	9	48	34	99	3	12	-4	223	219	99
3	6	-7	401	390	99	3	7	10	118	100	99	3	9	-9	153	146	99	3	10	10	74	35	99	3	12	-3	297	303	99
3	6	-6	122	115	99	3	7	11	70	83	99	3	9	-8	362	357	99	3	10	11	134	134	99	3	12	-2	443	458	99
3	6	-5	-51	39	99	3	7	12	98	93	99	3	9	-7	60	61	99	3	10	12	432	431	99	3	12	-1	53	48	99
3	6	-4	1085	1077	99	3	7	13	395	405	99	3	9	-6	670	660	99	3	10	13	126	109	99	3	12	0	247	265	99
3	6	-3	384	370	99	3	7	14	66	101	99	3	9	-5	483	480	99	3	10	14	103	94	99	3	12	1	158	162	99
3	6	-2	1000	1031	99	3	7	15	33	57	99	3	9	-4	169	157	99	3	10	15	-32	43	99	3	12	2	168	171	99
3	6	-1	596	565	99	3	7	16	-40	25	99	3	9	-3	513	534	99	3	10	16	58	56	99	3	12	3	93	71	99
3	6	0	968	960	99	3	7	17	190	204	99	3	9	-2	151	157	99	3	11	-17	-14	36	99	3	12	4	293	306	99

h	k	l	Fo	Fc	sigF2
3	12	5	521	523	99
3	12	6	340	324	99
3	12	7	55	22	99
3	12	8	138	126	99
3	12	9	186	187	99
3	12	10	59	112	99
3	12	11	133	141	99
3	12	12	129	128	99
3	12	13	237	235	99
3	12	14	63	33	99
3	12	15	47	45	99
3	13	-16	122	127	99
3	13	-15	68	26	99
3	13	-14	48	85	99
3	13	-13	164	141	99
3	13	-12	368	374	99
3	13	-11	82	69	99
3	13	-10	269	267	99
3	13	-9	-27	41	99
3	13	-8	267	269	99
3	13	-7	495	488	99
3	13	-6	463	452	99
3	13	-5	-40	28	99
3	13	-4	80	63	99
3	13	-3	255	247	99
3	13	-2	367	380	99
3	13	-1	132	118	99
3	13	0	268	268	99
3	13	1	349	345	99
3	13	2	54	11	99
3	13	3	68	74	99
3	13	4	201	193	99
3	13	5	307	305	99
3	13	6	174	167	99
3	13	7	192	196	99
3	13	8	172	190	99
3	13	9	-72	32	99
3	13	10	146	144	99
3	13	11	92	70	99
3	13	12	53	38	99
3	13	13	61	82	99
3	13	14	189	204	99
3	14	-15	152	136	99
3	14	-14	131	99	99
3	14	-13	-63	16	99
3	14	-12	126	107	99
3	14	-11	286	276	99
3	14	-10	72	61	99
3	14	-9	276	258	99
3	14	-8	419	415	99
3	14	-7	25	46	99
3	14	-6	388	394	99
3	14	-5	472	454	99
3	14	-4	116	129	99
3	14	-3	190	210	99
3	14	-2	172	156	99
3	14	-1	292	290	99
3	14	0	192	195	99
3	14	1	78	88	99
3	14	2	150	147	99
3	14	3	127	131	99
3	14	4	223	232	99
3	14	5	292	301	99
3	14	6	207	204	99
3	14	7	55	48	99
3	14	8	43	61	99
3	14	9	146	148	99
3	14	10	-19	25	99
3	14	11	119	78	99
3	14	12	-73	38	99
3	14	13	164	152	99
3	14	14	9	68	99
3	15	-14	124	136	99
3	15	-13	211	205	99
3	15	-12	111	106	99
3	15	-11	-11	16	99
3	15	-10	149	154	99
3	15	-9	-55	7	99
3	15	-8	246	244	99
3	15	-7	434	442	99
3	15	-6	333	326	99
3	15	-5	144	148	99
3	15	-4	276	284	99
3	15	-3	-55	76	99
3	15	-2	202	210	99
3	15	-1	109	129	99
3	15	0	420	425	99
3	15	1	-87	60	99
3	15	2	175	169	99
3	15	3	66	36	99
3	15	4	147	141	99
3	15	5	104	109	99
3	15	6	75	120	99
3	15	7	38	83	99
3	15	8	188	196	99
3	15	9	22	51	99
3	15	10	75	14	99
3	15	11	-47	57	99
3	15	12	20	32	99
3	15	13	41	5	99
3	16	-13	62	61	99
3	16	-12	148	169	99
3	16	-11	-26	66	99
3	16	-10	112	103	99
3	16	-9	150	151	99
3	16	-8	228	226	99
3	16	-7	-12	78	99
3	16	-6	156	167	99
3	16	-5	284	294	99
3	16	-4	178	178	99
3	16	-3	-58	6	99
3	16	-2	77	43	99
3	16	-1	336	346	99
3	16	0	-47	11	99
3	16	1	57	88	99
3	16	2	154	153	99
3	16	3	189	182	99
3	16	4	-80	15	99
3	16	5	139	145	99
3	16	6	192	194	99
3	16	7	142	134	99
3	16	8	-78	18	99
3	16	9	-72	37	99
3	16	10	61	91	99
3	16	11	91	72	99
3	16	12	73	69	99
3	17	-12	14	67	99
3	17	-11	73	58	99
3	17	-10	82	42	99
3	17	-9	151	145	99
3	17	-8	103	113	99
3	17	-7	209	216	99
3	17	-6	264	253	99
3	17	-5	19	93	99
3	17	-4	-17	55	99
3	17	-3	176	170	99
3	17	-2	147	142	99
3	17	-1	103	128	99
3	17	0	354	358	99
3	17	1	103	108	99
3	17	2	-96	37	99
3	17	3	-77	8	99
3	17	4	83	137	99
3	17	5	49	12	99
3	17	6	184	200	99
3	17	7	168	140	99
3	17	8	161	146	99
3	17	9	91	75	99
3	17	10	64	94	99
3	18	-10	45	10	99
3	18	-9	49	34	99
3	18	-8	149	163	99
3	18	-7	209	183	99
3	18	-6	91	108	99
3	18	-5	-56	23	99
3	18	-4	99	72	99
3	18	-3	-43	78	99
3	18	-2	-105	36	99
3	18	-1	270	273	99
3	18	0	130	120	99
3	18	1	215	214	99
3	18	2	67	80	99
3	18	3	-73	11	99
3	18	4	98	67	99
3	18	5	299	304	99
3	18	6	79	99	99
3	18	7	-87	24	99
3	18	8	-28	9	99
3	18	9	32	144	99
3	19	-8	49	91	99
3	19	-7	167	161	99
3	19	-6	153	142	99
3	19	-5	45	0	99
3	19	-4	45	74	99
3	19	-3	75	46	99
3	19	-2	87	97	99
3	19	-1	71	58	99
3	19	0	293	301	99
3	19	1	-82	34	99
3	19	2	-59	8	99
3	19	3	103	78	99
3	19	4	133	107	99
3	19	5	53	64	99
3	19	6	271	269	99
3	19	7	71	8	99
3	20	-6	106	81	99
3	20	-5	33	29	99
3	20	-4	68	32	99
3	20	-3	41	10	99
3	20	-2	109	68	99
3	20	-1	308	325	99
3	20	0	-61	64	99
3	20	1	71	69	99
3	20	2	-49	63	99
3	20	3	-96	44	99
3	20	4	78	45	99
4	0	-20	97	82	99
4	0	-18	52	99	99
4	0	-16	61	33	99
4	0	-14	134	135	99
4	0	-12	492	479	99
4	0	-10	-66	35	99
4	0	-8	460	452	99
4	0	-6	828	841	99
4	0	-4	939	922	99
4	0	-2	1297	1299	99
4	0	0	599	576	99
4	0	2	944	923	99
4	0	4	939	932	99
4	0	6	160	150	99
4	0	8	0	29	99
4	0	10	60	61	99
4	0	12	175	168	99
4	0	14	160	148	99
4	0	16	170	186	99
4	0	18	252	252	99
4	1	-20	41	21	99
4	1	-19	159	167	99
4	1	-18	-84	19	99
4	1	-17	32	50	99
4	1	-16	88	63	99
4	1	-15	-26	16	99
4	1	-14	-43	77	99
4	1	-13	368	367	99
4	1	-12	203	200	99
4	1	-11	434	435	99
4	1	-10	144	144	99
4	1	-9	301	293	99
4	1	-8	388	362	99
4	1	-7	968	972	99
4	1	-6	241	229	99
4	1	-5	334	332	99
4	1	-4	291	287	99
4	1	-3	443	472	99
4	1	-2	470	461	99
4	1	-1	1168	1148	99
4	1	0	246	252	99
4	1	1	1184	1153	99
4	1	2	630	625	99
4	1	3	728	701	99
4	1	4	231	203	99
4	1	5	517	517	99
4	1	6	174	190	99
4	1	7	491	480	99
4	1	8	162	164	99
4	1	9	-90	17	99
4	1	10	0	78	99
4	1	11	190	186	99
4	1	12	215	213	99
4	1	13	297	294	99
4	1	14	65	13	99
4	1	15	193	185	99
4	1	16	51	29	99
4	1	17	267	233	99
4	1	18	58	40	99
4	2	-20	125	122	99
4	2	-19	54	31	99
4	2	-18	231	227	99
4	2	-17	45	31	99
4	2	-16	89	67	99
4	2	-15	50	7	99
4	2	-14	121	116	99
4	2	-13	-24	31	99
4	2	-12	554	549	99
4	2	-11	165	174	99
4	2	-10	153	134	99
4	2	-9	135	133	99
4	2	-8	430	418	99
4	2	-7	18	71	99
4	2	-6	302	300	99
4	2	-5	188	187	99
4	2	-4	169	177	99
4	2	-3	203	199	99
4	2	-2	598	592	99
4	2	-1	236	239	99
4	2	0	235	216	99
4	2	1	281	280	99
4	2	2	931	916	99
4	2	3	411	405	99
4	2	4	821	809	99
4	2	5	62	57	99
4	2	6	248	244	99
4	2	7	376	363	99
4	2	8	340	335	99
4	2	9	225	207	99
4	2	10	150	140	99
4	2	11	306	295	99
4	2	12	359	356	99
4	2	13	-23	70	99
4	2	14	208	210	99
4	2	15	80	73	99
4	2	16	190	171	99
4	2	17	172	176	99
4	2	18	142	154	99
4	3	-20	97	84	99
4	3	-19	72	85	99
4	3	-18	61	46	99
4	3	-17	186	176	99
4	3	-16	43	82	99
4	3	-15	53	62	99
4	3	-14	118	85	99
4	3	-13	533	541	99
4	3	-12	80	79	99
4	3	-11	27	41	99
4	3	-10	59	57	99
4	3	-9	150	149	99
4	3	-8	315	305	99
4	3	-7	572	572	99
4	3	-6	174	171	99
4	3	-5	200	208	99
4	3	-4	347	345	99
4	3	-3	186	198	99
4	3	-2	229	234	99
4	3	-1	877	875	99
4	3	0	104	106	99
4	3	1	433	422	99
4	3	2	656	629	99
4	3	3	638	633	99
4	3	4	216	201	99
4	3	5	757	733	99
4	3	6	77	48	99
4	3	7	771	760	99
4	3	8	495	499	99
4	3	9	131	114	99
4	3	10	317	324	99
4	3	11	187	185	99
4	3	12	317	335	99
4	3	13	271	290	99
4	3	14	61	18	99
4	3	15	199	190	99
4	3	16	84	124	99
4	3	17	125	116	99
4	3	18	132	129	99
4	4	-20	227	218	99
4	4	-19	181	174	99
4	4	-18	266	263	99
4	4	-17	96	59	99
4	4	-16	243	239	99
4	4	-15	111	94	99
4	4	-14	72	30	99
4	4	-13	-53	19	99
4	4	-12	*575	590	99
4	4	-11	99	110	99
4	4	-10	121	113	99
4	4	-9	132	113	99
4	4	-8	269	262	99
4	4	-7	93	82	99
4	4	-6	355	343	99
4	4	-5	156	155	99
4	4	-4	179	190	99
4	4	-3	67	51	99
4	4	-2	342	360	99
4	4	-1	1074	1039	99
4	4	0	603	589	99
4	4	1	-27	20	99
4	4	2	690	666	99
4	4	3	244	222	99
4	4	4	676	657	99
4	4	5	261	252	99
4	4	6	552	541	99
4	4	7	159	151	99
4	4	8	588	563	99
4	4	9	510	486	99
4	4	10	-93	52	99
4	4	11	637	619	99
4	4	12	532	527	99
4	4	13	89	55	99
4	4	14	38	49	99
4	4	15	-98	11	99
4	4	16	149	133	99
4	4	17	56	81	99
4	4	18	136	95	99
4	5	-19	-56	86	99
4	5	-18	209	194	99
4	5	-17	140	142	99
4	5	-16	120	94	99
4	5	-15	245	239	99
4	5	-14	186	179	99
4	5	-13	334	349	99
4	5	-12	86	105	99
4	5	-11	143	142	99
4	5	-10	70	40	99
4	5	-9	99	75	99
4	5	-8	103	107	99
4	5	-7	314	318	99
4	5	-6	80	82	99
4	5	-5	66	54	99
4	5	-4	202	191	99
4	5	-3	73	89	99
4	5	-2	392	399	99
4	5	-1	575	561	99
4	5	0	50	17	99
4	5	1	479	452	99
4	5	2	215	202	99
4	5	3	401	389	99
4	5	4	237	238	99
4	5	5	173	174	99
4	5	6	284	271	99
4	5	7	724	700	99
4	5	8	473	463	99
4	5	9	258	248	99
4	5	10	573	564	99
4	5	11	233	212	99
4	5	12	188	171	99
4	5	13	422	422	99
4	5	14	86	74	99
4	5	15	-19	8	99
4	5	16	54	100	99
4	5	17	21	25	99
4	6	-19	189	191	99
4	6	-18	203	194	99
4	6	-17	-6	20	99
4	6	-16	155	148	99
4	6	-15	157	155	99
4	6	-14	50	40	99
4	6	-13	154	164	99
4	6	-12	214	223	99
4	6	-11	230	224	99
4	6	-10	250	250	99
4	6	-9	-46	17	99
4	6	-8	494	492	99
4	6	-7	135	135	99
4	6	-6	639	650	99
4	6	-5	51	45	99
4	6	-4	340	359	99
4	6	-3	327	335	99
4	6	-2	556	572	99
4	6	-1	525	509	99
4	6	0	74	71	99
4	6	1	273	261	99
4	6	2	556	549	99
4	6	3	65	82	99
4	6	4	112	100	99
4	6	5	467	475	99
4	6	6	615	614	99
4	6	7	129	137	99
4	6	8	378	352	99
4	6	9	521	511	99
4	6	10	7	78	99
4	6	11	497	482	99
4	6	12	479	488	99
4	6	13	75	92	99
4	6	14	216	232	99
4	6	15	98	103	99
4	6	16	96	73	99
4	6	17	94	77	99
4	7	-19	121	114	99
4	7	-18	-69	6	99
4	7	-17	97	107	99
4	7	-16	48	31	99
4	7	-15	300	305	99
4	7	-14	134	112	99
4	7	-13	129	120	99
4	7	-12	82	83	99
4	7	-11	274	276	99
4	7	-10	188	203	99
4	7	-9	324	332	99
4	7	-8	472	483	99
4	7	-7	903	890	99
4	7	-6	113	107	99
4	7	-5	47	13	99
4	7	-4	216	217	99
4	7	-3	160	158	99
4	7	-2	200	198	99
4	7	-1	491	478	99
4	7	0	350	341	99
4	7	1	698	680	99
4	7	2	115	104	99
4	7	3	116	117	99
4	7	4	383	376	99
4	7	5	540	523	99
4	7	6	118	105	99
4	7	7	570	567	99
4	7	8	165	157	99
4	7	9	150	154	99
4	7	10	282	276	99
4	7	11	123	115	99
4	7	12	234	239	99
4	7	13	459	491	99
4	7	14	84	83	99
4	7	15	113	122	99
4	7	16	69	75	99
4	7	17	-69	17	99
4	8	-18	158	167	99
4	8	-17	40	82	99
4	8	-16	117	133	99
4	8	-15	97	74	99
4	8	-14	-7	26	99
4	8	-13	124	127	99
4	8	-12	185	190	99
4	8	-11	-99	18	99
4	8	-10	136	122	99
4	8	-9	127	119	99
4	8	-8	442	445	99
4	8	-7	283	284	99
4	8	-6	389	394	99
4	8	-5	377	385	99
4	8	-4	55	41	99
4	8	-3	102	77	99
4	8	-2	229	219	99
4	8	-1	290	294	99
4	8	0	268	266	99
4	8	1	162	143	99
4	8	2	188	179	99
4	8	3	97	82	99
4	8	4	263	257	99
4	8	5	303	298	99
4	8	6	678	671	99
4	8	7	191	193	99
4	8	8	312	302	99
4	8	9	149	142	99
4	8	10	108	77	99
4	8	11	226	223	99
4	8	12	414	408	99
4	8	13	-23	15	99
4	8	14	246	249	99
4	8	15	158	166	99
4	8	16	126	132	99
4	9	-18	132	105	99
4	9	-17	207	204	99
4	9	-16	-74	7	99
4	9	-15	201	208	99
4	9	-14	123	96	99
4	9	-13	363	368	99
4	9	-12	22	96	99
4	9	-11	7	20	99
4	9	-10	80	84	99
4	9	-9	77	83	99
4	9	-8	580	569	99
4	9	-7	656	647	99
4	9	-6	342	346	99
4	9	-5	289	268	99
4	9	-4	250	241	99
4	9	-3	-61	26	99
4	9	-2	27	6	99
4	9	-1	258	256	99
4	9	0	647	659	99
4	9	1	316	312	99
4	9	2	16	38	99
4	9	3	-36	25	99
4	9	4	227	227	99
4	9	5	320	323	99
4	9	6	151	144	99
4	9	7	661	651	99
4	9	8	93	83	99
4	9	9	79	56	99
4	9	10	20	32	99
4	9	11	211	218	99
4	9	12	176	180	99
4	9	13	369	365	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	9	14	130	121	99	4	11	1	349	346	99	4	13	-6	363	365	99	4	15	-8	215	219	99	4	17	1	-118	33	99
4	9	15	-58	16	99	4	11	2	132	125	99	4	13	-5	-87	58	99	4	15	-7	199	204	99	4	17	2	53	54	99
4	9	16	83	63	99	4	11	3	112	103	99	4	13	-4	52	73	99	4	15	-6	268	273	99	4	17	3	119	131	99
4	10	-18	188	198	99	4	11	4	-9	29	99	4	13	-3	156	166	99	4	15	-5	78	70	99	4	17	4	139	133	99
4	10	-17	138	152	99	4	11	5	142	140	99	4	13	-2	53	7	99	4	15	-4	218	228	99	4	17	5	265	263	99
4	10	-16	279	282	99	4	11	6	601	578	99	4	13	-1	159	156	99	4	15	-3	291	293	99	4	17	6	161	155	99
4	10	-15	85	96	99	4	11	7	457	433	99	4	13	0	479	481	99	4	15	-2	74	57	99	4	17	7	-93	58	99
4	10	-14	101	103	99	4	11	8	76	94	99	4	13	1	353	363	99	4	15	-1	263	263	99	4	17	8	149	156	99
4	10	-13	86	45	99	4	11	9	32	39	99	4	13	2	135	139	99	4	15	0	462	459	99	4	17	9	-61	67	99
4	10	-12	296	295	99	4	11	10	110	106	99	4	13	3	119	111	99	4	15	1	260	256	99	4	18	-9	-37	95	99
4	10	-11	167	153	99	4	11	11	118	139	99	4	13	4	108	70	99	4	15	2	62	62	99	4	18	-8	-43	50	99
4	10	-10	71	50	99	4	11	12	77	48	99	4	13	5	87	51	99	4	15	3	177	165	99	4	18	-7	-85	14	99
4	10	-9	303	296	99	4	11	13	172	163	99	4	13	6	313	314	99	4	15	4	-51	16	99	4	18	-6	82	43	99
4	10	-8	308	308	99	4	11	14	149	160	99	4	13	7	48	40	99	4	15	5	259	269	99	4	18	-5	147	157	99
4	10	-7	56	75	99	4	11	15	-15	62	99	4	13	8	16	24	99	4	15	6	158	156	99	4	18	-4	-66	66	99
4	10	-6	85	75	99	4	12	-16	86	74	99	4	13	9	65	60	99	4	15	7	-84	16	99	4	18	-3	47	29	99
4	10	-5	-33	48	99	4	12	-15	234	228	99	4	13	10	16	88	99	4	15	8	38	40	99	4	18	-2	146	138	99
4	10	-4	-80	16	99	4	12	-14	56	15	99	4	13	11	62	68	99	4	15	9	91	87	99	4	18	-1	-110	21	99
4	10	-3	118	111	99	4	12	-13	53	49	99	4	13	12	-91	50	99	4	15	10	-36	47	99	4	18	0	96	74	99
4	10	-2	-72	27	99	4	12	-12	264	260	99	4	13	13	-58	63	99	4	15	11	45	20	99	4	18	1	122	105	99
4	10	-1	389	380	99	4	12	-11	317	312	99	4	14	-15	106	95	99	4	16	-12	144	108	99	4	18	2	-20	19	99
4	10	0	-70	56	99	4	12	-10	27	8	99	4	14	-14	69	11	99	4	16	-11	109	95	99	4	18	3	76	99	99
4	10	1	360	352	99	4	12	-9	195	198	99	4	14	-13	113	96	99	4	16	-10	-76	27	99	4	18	4	236	228	99
4	10	2	270	270	99	4	12	-8	47	54	99	4	14	-12	55	79	99	4	16	-9	156	167	99	4	18	5	161	167	99
4	10	3	-32	16	99	4	12	-7	212	219	99	4	14	-11	180	154	99	4	16	-8	92	98	99	4	18	6	58	26	99
4	10	4	-58	26	99	4	12	-6	191	199	99	4	14	-10	42	123	99	4	16	-7	41	31	99	4	18	7	80	54	99
4	10	5	292	282	99	4	12	-5	154	135	99	4	14	-9	130	141	99	4	16	-6	-32	37	99	4	19	-7	96	76	99
4	10	6	548	560	99	4	12	-4	199	199	99	4	14	-8	111	117	99	4	16	-5	338	340	99	4	19	-6	127	137	99
4	10	7	228	227	99	4	12	-3	62	35	99	4	14	-7	-27	56	99	4	16	-4	66	68	99	4	19	-5	83	107	99
4	10	8	340	337	99	4	12	-2	260	269	99	4	14	-6	252	229	99	4	16	-3	-73	74	99	4	19	-4	93	95	99
4	10	9	89	74	99	4	12	-1	276	291	99	4	14	-5	330	330	99	4	16	-2	225	214	99	4	19	-3	87	9	99
4	10	10	52	55	99	4	12	0	112	121	99	4	14	-4	264	261	99	4	16	-1	199	211	99	4	19	-2	196	190	99
4	10	11	34	52	99	4	12	1	520	511	99	4	14	-3	64	29	99	4	16	0	-61	26	99	4	19	-1	111	111	99
4	10	12	446	448	99	4	12	2	171	163	99	4	14	-2	173	188	99	4	16	1	134	131	99	4	19	0	-25	91	99
4	10	13	33	106	99	4	12	3	223	214	99	4	14	-1	323	316	99	4	16	2	172	160	99	4	19	1	-126	19	99
4	10	14	81	7	99	4	12	4	155	148	99	4	14	0	-21	8	99	4	16	3	169	169	99	4	19	2	37	111	99
4	10	15	86	70	99	4	12	5	433	446	99	4	14	1	298	288	99	4	16	4	287	286	99	4	19	3	63	46	99
4	11	-17	168	154	99	4	12	6	157	171	99	4	14	2	345	330	99	4	16	5	146	108	99	4	19	4	118	72	99
4	11	-16	107	106	99	4	12	7	190	190	99	4	14	3	47	7	99	4	16	6	25	49	99	4	19	5	13	29	99
4	11	-15	-17	79	99	4	12	8	135	128	99	4	14	4	-46	72	99	4	16	7	-110	32	99	4	20	-2	182	164	99
4	11	-14	315	311	99	4	12	9	48	21	99	4	14	5	209	209	99	4	16	8	101	76	99	4	20	-1	-66	29	99
4	11	-13	298	304	99	4	12	10	-33	19	99	4	14	6	-98	52	99	4	16	9	68	13	99	4	20	0	-105	44	99
4	11	-12	207	213	99	4	12	11	51	14	99	4	14	7	98	116	99	4	16	10	-46	5	99	5	0	-20	101	99	99
4	11	-11	57	81	99	4	12	12	149	147	99	4	14	8	136	144	99	4	17	-11	60	33	99	5	0	-18	50	47	99
4	11	-10	157	158	99	4	12	13	199	219	99	4	14	9	-37	28	99	4	17	-10	-106	67	99	5	0	-16	129	134	99
4	11	-9	117	130	99	4	12	14	-26	13	99	4	14	10	178	178	99	4	17	-9	115	124	99	5	0	-14	432	434	99
4	11	-8	108	86	99	4	13	-15	63	80	99	4	14	11	40	48	99	4	17	-8	238	231	99	5	0	-12	-41	43	99
4	11	-7	420	425	99	4	13	-14	213	202	99	4	14	12	54	21	99	4	17	-7	-31	18	99	5	0	-10	24	54	99
4	11	-6	265	267	99	4	13	-13	103	63	99	4	14	13	-56	55	99	4	17	-6	272	288	99	5	0	-8	249	242	99
4	11	-5	232	250	99	4	13	-12	186	195	99	4	15	-14	120	113	99	4	17	-5	129	142	99	5	0	-6	678	679	99
4	11	-4	149	143	99	4	13	-11	165	182	99	4	15	-13	40	101	99	4	17	-4	68	95	99	5	0	-4	801	805	99
4	11	-3	191	195	99	4	13	-10	161	165	99	4	15	-12	-88	2	99	4	17	-3	-121	30	99	5	0	-2	1365	1333	99
4	11	-2	153	154	99	4	13	-9	103	99	99	4	15	-11	78	86	99	4	17	-2	107	74	99	5	0	0	294	292	99
4	11	-1	233	235	99	4	13	-8	121	111	99	4	15	-10	128	129	99	4	17	-1	203	208	99	5	0	2	324	301	99
4	11	0	614	609	99	4	13	-7	312	317	99	4	15	-9	67	47	99	4	17	0	253	262	99	5	0	4	570	546	99
5	0	6	187	181	99	5	2	-8	471	453	99	5	3	10	106	109	99	5	5	-9	97	87	99	5	6	10	-89	19	99
5	0	8	57	38	99	5	2	-7	422	422	99	5	3	11	262	268	99	5	5	-8	250	244	99	5	6	11	102	100	99
5	0	10	42	54	99	5	2	-6	407	404	99	5	3	12	180	175	99	5	5	-7	650	641	99	5	6	12	164	163	99
5	0	12	230	214	99	5	2	-5	27	10	99	5	3	13	208	227	99	5	5	-6	173	184	99	5	6	13	56	14	99
5	0	14	294	287	99	5	2	-4	404	407	99	5	3	14	87	70	99	5	5	-5	325	332	99	5	6	14	167	154	99
5	0	16	-135	11	99	5	2	-3	227	224	99	5	3	15	63	49	99	5	5	-4	201	200	99	5	6	15	70	47	99
5	1	-20	49	7	99	5	2	-2	962	954	99	5	3	16	20	32	99	5	5	-3	102	101	99	5	6	16	-40	10	99
5	1	-19	47	22	99	5	2	-1	332	320	99	5	3	17	22	31	99	5	5	-2	366	355	99	5	7	-18	63	65	99
5	1	-18	89	97	99	5	2	0	601	605	99	5	4	-19	-67	5	99	5	5	-1	458	446	99	5	7	-17	35	12	99
5	1	-17	87	57	99	5	2	1	612	609	99	5	4	-18	160	158	99	5	5	0	316	311	99	5	7	-16	94	96	99
5	1	-16	72	34	99	5	2	2	721	702	99	5	4	-17	119	112	99	5	5	1	267	272	99	5	7	-15	30	46	99
5	1	-15	520	495	99	5	2	3	319	317	99	5	4	-16	166	158	99	5	5	2	160	161	99	5	7	-14	195	201	99
5	1	-14	71	76	99	5	2	4	551	545	99	5	4	-15	155	152	99	5	5	3	184	196	99	5	7	-13	265	259	99
5	1	-13	101	63	99	5	2	5	68	41	99	5	4	-14	77	110	99	5	5	4	193	190	99	5	7	-12	100	84	99
5	1	-12	81	75	99	5	2	6	-24	109	99	5	4	-13	236	228	99	5	5	5	161	175	99	5	7	-11	605	606	99
5	1	-11	142	146	99	5	2	7	89	85	99	5	4	-12	735	718	99	5	5	6	345	339	99	5	7	-10	361	353	99
5	1	-10	253	252	99	5	2	8	346	348	99	5	4	-11	465	457	99	5	5	7	559	532	99	5	7	-9	255	242	99
5	1	-9	247	245	99	5	2	9	9	8	99	5	4	-10	60	76	99	5	5	8	247	237	99	5	7	-8	226	213	99
5	1	-8	563	548	99	5	2	10	48	85	99	5	4	-9	705	689	99	5	5	9	129	118	99	5	7	-7	697	722	99
5	1	-7	836	804	99	5	2	11	-89	36	99	5	4	-8	158	141	99	5	5	10	290	275	99	5	7	-6	105	75	99
5	1	-6	-30	3	99	5	2	12	315	308	99	5	4	-7	463	461	99	5	5	11	56	20	99	5	7	-5	588	585	99
5	1	-5	240	226	99	5	2	13	142	152	99	5	4	-6	544	529	99	5	5	12	17	47	99	5	7	-4	213	214	99
5	1	-4	70	62	99	5	2	14	114	102	99	5	4	-5	52	7	99	5	5	13	262	259	99	5	7	-3	153	172	99
5	1	-3	883	882	99	5	2	15	83	92	99	5	4	-4	137	147	99	5	5	14	132	103	99	5	7	-2	186	172	99
5	1	-2	479	457	99	5	2	16	63	32	99	5	4	-3	449	455	99	5	5	15	54	53	99	5	7	-1	541	526	99
5	1	-1	1504	1475	99	5	2	17	62	82	99	5	4	-2	531	532	99	5	5	16	34	9	99	5	7	0	76	41	99
5	1	0	150	147	99	5	3	-19	33	81	99	5	4	-1	130	133	99	5	6	-19	90	102	99	5	7	1	589	568	99
5	1	1	576	571	99	5	3	-18	121	111	99	5	4	0	330	335	99	5	6	-18	96	78	99	5	7	2	132	128	99
5	1	2	267	263	99	5	3	-17	192	191	99	5	4	1	352	339	99	5	6	-17	91	95	99	5	7	3	82	49	99
5	1	3	521	512	99	5	3	-16	-47	38	99	5	4	2	340	349	99	5	6	-16	68	74	99	5	7	4	75	79	99
5	1	4	90	90	99	5	3	-15	310	309	99	5	4	3	296	289	99	5	6	-15	139	137	99	5	7	5	104	83	99
5	1	5	575	588	99	5	3	-14	197	184	99	5	4	4	532	511	99	5	6	-14	36	3	99	5	7	6	238	224	99
5	1	6	102	96	99	5	3	-13	319	320	99	5	4	5	360	345	99	5	6	-13	210	205	99	5	7	7	577	562	99
5	1	7	326	326	99	5	3	-12	102	96	99	5	4	6	128	109	99	5	6	-12	486	479	99	5	7	8	125	118	99
5	1	8	39	79	99	5	3	-11	-111	30	99	5	4	7	41	24	99	5	6	-11	426	412	99	5	7	9	102	82	99
5	1	9	68	39	99	5	3	-10	375	363	99	5	4	8	540	527	99	5	6	-10	176	171	99	5	7	10	64	92	99
5	1	10	33	19	99	5	3	-9	195	189	99	5	4	9	208	219	99	5	6	-9	477	493	99	5	7	11	93	106	99
5	1	11	-36	21	99	5	3	-8	688	683	99	5	4	10	72	11	99	5	6	-8	98	101	99	5	7	12	-97	57	99
5	1	12	156	166	99	5	3	-7	601	608	99	5	4	11	102	119	99	5	6	-7	218	214	99	5	7	13	322	320	99
5	1	13	273	262	99	5	3	-6	238	244	99	5	4	12	269	256	99	5	6	-6	873	894	99	5	7	14	49	56	99
5	1	14	40	12	99	5	3	-5	117	113	99	5	4	13	52	33	99	5	6	-5	113	122	99	5	7	15	41	25	99
5	1	15	60	11	99	5	3	-4	254	253	99	5	4	14	65	59	99	5	6	-4	44	84	99	5	7	16	-76	44	99
5	1	16	72	4	99	5	3	-3	346	357	99	5	4	15	-46	44	99	5	6	-3	217	216	99	5	8	-18	105	66	99
5	1	17	-105	45	99	5	3	-2	347	352	99	5	4	16	-102	83	99	5	6	-2	293	287	99	5	8	-17	-75	32	99
5	2	-19	122	116	99	5	3	-1	946	968	99	5	4	17	70	38	99	5	6	-1	140	130	99	5	8	-16	90	78	99
5	2	-18	180	157	99	5	3	0	137	138	99	5	5	-19	-51	40	99	5	6	0	17	15	99	5	8	-15	-31	31	99
5	2	-17	56	80	99	5	3	1	160	152	99	5	5	-18	57	35	99	5	6	1	-80	41	99	5	8	-14	32	3	99
5	2	-16	199	200	99	5	3	2	307	286	99	5	5	-17	100	76	99	5	6	2	185	182	99	5	8	-13	215	220	99
5	2	-15	-43	24	99	5	3	3	355	350	99	5	5	-16	218	210	99	5	6	3	185	188	99	5	8	-12	516	516	99
5	2	-14	280	276	99	5	3	4	151	155	99	5	5	-15	107	101	99	5	6	4	82	91	99	5	8	-11	17	26	99
5	2	-13	89	84	99	5	3	5	518	491	99	5	5	-14	282	291	99	5	6	5	149	141	99	5	8	-10	286	267	99
5	2	-12	323	323	99	5	3	6	172	155	99	5	5	-13	340	336	99	5	6	6	218	212	99	5	8	-9	189	184	99
5	2	-11	63	87	99	5	3	7	595	596	99	5	5	-12	221	225	99	5	6	7	40	29	99	5	8	-8	159	161	99
5	2	-10	89	77	99	5	3	8	217	211	99	5	5	-11	301	297	99	5	6	8	368	359	99	5	8	-7	215	214	99
5	2	-9	278	289	99	5	3	9	-27	26	99	5	5	-10	334	334	99	5	6	9	267	269	99	5	8	-6	822	826	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	8	-5	552	566	99	5	10	-16	81	88	99	5	11	8	77	98	99	5	13	4	53	79	99	5	15	7	-90	27	99
5	8	-4	461	451	99	5	10	-15	72	26	99	5	11	9	143	159	99	5	13	5	115	112	99	5	15	8	-19	3	99
5	8	-3	-75	34	99	5	10	-14	-79	36	99	5	11	10	-64	58	99	5	13	6	325	322	99	5	15	9	-63	9	99
5	8	-2	159	147	99	5	10	-13	186	187	99	5	11	11	82	65	99	5	13	7	28	42	99	5	15	10	41	20	99
5	8	-1	343	328	99	5	10	-12	424	416	99	5	11	12	82	106	99	5	13	8	90	64	99	5	16	-11	103	86	99
5	8	0	36	40	99	5	10	-11	-24	35	99	5	11	13	169	191	99	5	13	9	40	50	99	5	16	-10	76	111	99
5	8	1	183	156	99	5	10	-10	181	178	99	5	11	14	125	143	99	5	13	10	75	64	99	5	16	-9	72	103	99
5	8	2	196	200	99	5	10	-9	137	114	99	5	12	-15	74	35	99	5	13	11	-48	14	99	5	16	-8	-123	4	99
5	8	3	224	219	99	5	10	-8	46	96	99	5	12	-14	108	92	99	5	13	12	79	106	99	5	16	-7	77	93	99
5	8	4	52	28	99	5	10	-7	106	114	99	5	12	-13	135	139	99	5	14	-14	159	152	99	5	16	-6	122	147	99
5	8	5	-16	20	99	5	10	-6	299	303	99	5	12	-12	214	222	99	5	14	-13	111	103	99	5	16	-5	214	207	99
5	8	6	286	288	99	5	10	-5	449	449	99	5	12	-11	128	117	99	5	14	-12	-8	9	99	5	16	-4	152	144	99
5	8	7	120	95	99	5	10	-4	350	364	99	5	12	-10	71	59	99	5	14	-11	-32	41	99	5	16	-3	146	129	99
5	8	8	374	371	99	5	10	-3	156	154	99	5	12	-9	130	127	99	5	14	-10	20	14	99	5	16	-2	229	224	99
5	8	9	-101	30	99	5	10	-2	34	102	99	5	12	-8	-96	43	99	5	14	-9	-71	24	99	5	16	-1	83	73	99
5	8	10	107	103	99	5	10	-1	240	233	99	5	12	-7	166	164	99	5	14	-8	42	14	99	5	16	0	52	99	99
5	8	11	73	34	99	5	10	0	300	300	99	5	12	-6	225	219	99	5	14	-7	65	11	99	5	16	1	157	161	99
5	8	12	149	162	99	5	10	1	549	553	99	5	12	-5	377	374	99	5	14	-6	80	104	99	5	16	2	104	94	99
5	8	13	86	59	99	5	10	2	193	161	99	5	12	-4	-82	11	99	5	14	-5	192	418	99	5	16	3	53	67	99
5	8	14	137	147	99	5	10	3	28	27	99	5	12	-3	151	167	99	5	14	-4	226	244	99	5	16	4	207	219	99
5	8	15	96	99	99	5	10	4	294	279	99	5	12	-2	282	284	99	5	14	-3	-71	126	99	5	16	5	89	52	99
5	9	-17	54	19	99	5	10	5	37	20	99	5	12	-1	107	85	99	5	14	-2	339	337	99	5	16	6	73	82	99
5	9	-16	-46	22	99	5	10	6	166	157	99	5	12	0	93	85	99	5	14	-1	191	192	99	5	16	7	57	103	99
5	9	-15	52	75	99	5	10	7	178	154	99	5	12	1	577	587	99	5	14	0	-82	30	99	5	16	8	46	42	99
5	9	-14	107	101	99	5	10	8	349	351	99	5	12	2	105	92	99	5	14	1	429	433	99	5	16	9	-85	13	99
5	9	-13	418	421	99	5	10	9	54	34	99	5	12	3	406	386	99	5	14	2	204	187	99	5	17	-10	84	79	99
5	9	-12	79	75	99	5	10	10	-26	72	99	5	12	4	219	215	99	5	14	3	58	115	99	5	17	-9	57	47	99
5	9	-11	281	280	99	5	10	11	112	85	99	5	12	5	114	112	99	5	14	4	61	76	99	5	17	-8	225	212	99
5	9	-10	89	87	99	5	10	12	273	266	99	5	12	6	89	79	99	5	14	5	97	84	99	5	17	-7	60	20	99
5	9	-9	152	157	99	5	10	13	64	13	99	5	12	7	264	272	99	5	14	6	-62	11	99	5	17	-6	74	59	99
5	9	-8	290	289	99	5	10	14	-112	43	99	5	12	8	179	187	99	5	14	7	171	189	99	5	17	-5	221	212	99
5	9	-7	346	358	99	5	11	-16	77	63	99	5	12	9	-89	95	99	5	14	8	90	21	99	5	17	-4	169	150	99
5	9	-6	348	349	99	5	11	-15	15	50	99	5	12	10	30	53	99	5	14	9	-73	90	99	5	17	-3	79	45	99
5	9	-5	466	472	99	5	11	-14	100	133	99	5	12	11	81	110	99	5	14	10	35	41	99	5	17	-2	128	122	99
5	9	-4	437	430	99	5	11	-13	238	246	99	5	12	12	129	132	99	5	14	11	127	113	99	5	17	-1	241	226	99
5	9	-3	232	230	99	5	11	-12	68	37	99	5	12	13	52	59	99	5	15	-13	69	67	99	5	17	0	150	127	99
5	9	-2	107	95	99	5	11	-11	-44	115	99	5	13	-15	127	143	99	5	15	-12	32	36	99	5	17	1	-115	29	99
5	9	-1	280	280	99	5	11	-10	127	125	99	5	13	-14	103	83	99	5	15	-11	121	102	99	5	17	2	50	15	99
5	9	0	634	624	99	5	11	-9	40	22	99	5	13	-13	-32	33	99	5	15	-10	-113	55	99	5	17	3	-95	102	99
5	9	1	128	105	99	5	11	-8	116	129	99	5	13	-12	-33	12	99	5	15	-9	81	102	99	5	17	4	-44	15	99
5	9	2	155	132	99	5	11	-7	174	167	99	5	13	-11	100	69	99	5	15	-8	169	176	99	5	17	5	205	208	99
5	9	3	139	136	99	5	11	-6	326	332	99	5	13	-10	37	54	99	5	15	-7	106	99	99	5	17	6	195	198	99
5	9	4	21	60	99	5	11	-5	120	132	99	5	13	-9	139	126	99	5	15	-6	211	221	99	5	17	7	96	66	99
5	9	5	326	325	99	5	11	-4	148	117	99	5	13	-8	-53	43	99	5	15	-5	207	213	99	5	18	-7	79	104	99
5	9	6	174	152	99	5	11	-3	317	314	99	5	13	-7	190	207	99	5	15	-4	318	322	99	5	18	-6	47	36	99
5	9	7	713	704	99	5	11	-2	119	123	99	5	13	-6	339	346	99	5	15	-3	248	238	99	5	18	-5	80	48	99
5	9	8	36	106	99	5	11	-1	293	299	99	5	13	-5	-20	7	99	5	15	-2	112	96	99	5	18	-4	88	113	99
5	9	9	-17	49	99	5	11	0	554	549	99	5	13	-4	-80	52	99	5	15	-1	260	257	99	5	18	-3	127	132	99
5	9	10	64	33	99	5	11	1	3	23	99	5	13	-3	221	224	99	5	15	0	417	401	99	5	18	-2	67	125	99
5	9	11	55	21	99	5	11	2	378	368	99	5	13	-2	207	224	99	5	15	1	131	111	99	5	18	-1	115	144	99
5	9	12	109	127	99	5	11	3	72	21	99	5	13	-1	283	304	99	5	15	2	-104	75	99	5	18	0	49	73	99
5	9	13	292	304	99	5	11	4	286	282	99	5	13	0	455	454	99	5	15	3	144	138	99	5	18	1	96	71	99
5	9	14	106	110	99	5	11	5	275	286	99	5	13	1	210	204	99	5	15	4	-45	28	99	5	18	2	60	83	99
5	9	15	-135	47	99	5	11	6	451	436	99	5	13	2	376	368	99	5	15	5	153	148	99	5	18	3	-94	29	99
5	10	-17	-26	41	99	5	11	7	386	376	99	5	13	3	161	158	99	5	15	6	172	173	99	5	18	4	200	196	99
5	10	5	144	137	99	6	1	11	422	419	99	6	3	-5	152	140	99	6	5	-18	-35	54	99	6	6	3	407	400	99
5	19	-4	-115	15	99	6	1	12	63	5	99	6	3	-4	164	172	99	6	5	-17	86	67	99	6	6	4	352	347	99
5	19	-3	83	65	99	6	1	13	464	460	99	6	3	-3	90	88	99	6	5	-16	166	152	99	6	6	5	54	67	99
5	19	-2	236	229	99	6	1	14	82	69	99	6	3	-2	97	86	99	6	5	-15	233	224	99	6	6	6	179	162	99
5	19	-1	109	101	99	6	1	15	101	90	99	6	3	-1	471	471	99	6	5	-14	200	207	99	6	6	7	274	270	99
5	19	0	96	57	99	6	1	16	-65	17	99	6	3	0	222	213	99	6	5	-13	121	139	99	6	6	8	-23	29	99
5	19	1	47	89	99	6	2	-19	85	97	99	6	3	1	404	389	99	6	5	-12	22	7	99	6	6	9	36	27	99
6	0	-18	-62	49	99	6	2	-18	52	46	99	6	3	2	119	126	99	6	5	-11	297	289	99	6	6	10	62	54	99
6	0	-16	66	102	99	6	2	-17	122	107	99	6	3	3	137	122	99	6	5	-10	63	14	99	6	6	11	62	16	99
6	0	-14	407	387	99	6	2	-16	155	156	99	6	3	4	358	344	99	6	5	-9	265	270	99	6	6	12	75	100	99
6	0	-12	40	23	99	6	2	-15	134	120	99	6	3	5	599	597	99	6	5	-8	69	78	99	6	6	13	155	126	99
6	0	-10	35	35	99	6	2	-14	263	252	99	6	3	6	-22	29	99	6	5	-7	362	368	99	6	6	14	77	86	99
6	0	-8	210	213	99	6	2	-13	74	23	99	6	3	7	394	388	99	6	5	-6	27	4	99	6	6	15	134	132	99
6	0	-6	798	803	99	6	2	-12	147	141	99	6	3	8	52	9	99	6	5	-5	291	296	99	6	7	-17	54	55	99
6	0	-4	98	90	99	6	2	-11	229	232	99	6	3	9	270	263	99	6	5	-4	86	104	99	6	7	-16	46	12	99
6	0	-2	529	524	99	6	2	-10	68	42	99	6	3	10	257	277	99	6	5	-3	104	111	99	6	7	-15	139	138	99
6	0	0	301	282	99	6	2	-9	-44	52	99	6	3	11	148	146	99	6	5	-2	108	108	99	6	7	-14	113	126	99
6	0	2	128	97	99	6	2	-8	30	12	99	6	3	12	-80	77	99	6	5	-1	606	606	99	6	7	-13	127	117	99
6	0	4	177	171	99	6	2	-7	159	152	99	6	3	13	343	340	99	6	5	0	84	67	99	6	7	-12	163	158	99
6	0	6	170	182	99	6	2	-6	465	466	99	6	3	14	171	157	99	6	5	1	95	92	99	6	7	-11	305	300	99
6	0	8	454	429	99	6	2	-5	127	116	99	6	3	15	-82	54	99	6	5	2	423	415	99	6	7	-10	71	115	99
6	0	10	167	179	99	6	2	-4	92	68	99	6	4	-18	115	98	99	6	5	3	379	371	99	6	7	-9	473	475	99
6	0	12	39	80	99	6	2	-3	67	57	99	6	4	-17	181	168	99	6	5	4	340	335	99	6	7	-8	242	229	99
6	0	14	364	366	99	6	2	-2	162	169	99	6	4	-16	167	177	99	6	5	5	551	546	99	6	7	-7	590	605	99
6	0	16	166	155	99	6	2	-1	44	2	99	6	4	-15	249	250	99	6	5	6	101	77	99	6	7	-6	29	43	99
6	1	-19	122	100	99	6	2	0	581	560	99	6	4	-14	240	238	99	6	5	7	175	166	99	6	7	-5	176	165	99
6	1	-18	96	96	99	6	2	1	142	142	99	6	4	-13	63	55	99	6	5	8	180	153	99	6	7	-4	236	246	99
6	1	-17	-53	66	99	6	2	2	436	436	99	6	4	-12	406	420	99	6	5	9	181	171	99	6	7	-3	152	158	99
6	1	-16	79	68	99	6	2	3	-50	3	99	6	4	-11	195	186	99	6	5	10	102	119	99	6	7	-2	150	160	99
6	1	-15	307	298	99	6	2	4	376	381	99	6	4	-10	48	60	99	6	5	11	75	94	99	6	7	-1	681	684	99
6	1	-14	-34	12	99	6	2	5	220	228	99	6	4	-9	121	109	99	6	5	12	122	128	99	6	7	0	195	179	99
6	1	-13	118	124	99	6	2	6	-46	16	99	6	4	-8	95	97	99	6	5	13	232	224	99	6	7	1	222	220	99
6	1	-12	64	50	99	6	2	7	46	44	99	6	4	-7	33	56	99	6	5	14	176	172	99	6	7	2	271	255	99
6	1	-11	123	119	99	6	2	8	528	513	99	6	4	-6	510	516	99	6	5	15	44	34	99	6	7	3	340	332	99
6	1	-10	147	139	99	6	2	9	186	203	99	6	4	-5	63	75	99	6	6	-18	55	76	99	6	7	4	52	43	99
6	1	-9	160	158	99	6	2	10	287	292	99	6	4	-4	37	34	99	6	6	-17	-62	27	99	6	7	5	389	377	99
6	1	-8	330	328	99	6	2	11	212	205	99	6	4	-3	-44	54	99	6	6	-16	47	50	99	6	7	6	127	117	99
6	1	-7	500	494	99	6	2	12	-28	59	99	6	4	-2	181	178	99	6	6	-15	175	173	99	6	7	7	37	82	99
6	1	-6	131	115	99	6	2	13	98	81	99	6	4	-1	340	325	99	6	6	-14	138	135	99	6	7	8	176	190	99
6	1	-5	157	159	99	6	2	14	225	211	99	6	4	0	665	659	99	6	6	-13	115	108	99	6	7	9	42	44	99
6	1	-4	52	71	99	6	2	15	66	79	99	6	4	1	402	389	99	6	6	-12	249	246	99	6	7	10	71	42	99
6	1	-3	151	130	99	6	2	16	113	85	99	6	4	2	377	379	99	6	6	-11	198	192	99	6	7	11	60	81	99
6	1	-2	47	59	99	6	3	-18	128	130	99	6	4	3	271	257	99	6	6	-10	376	366	99	6	7	12	67	87	99
6	1	-1	584	572	99	6	3	-17	160	148	99	6	4	4	722	696	99	6	6	-9	101	80	99	6	7	13	145	155	99
6	1	0	360	345	99	6	3	-16	70	83	99	6	4	5	158	135	99	6	6	-8	146	122	99	6	7	14	88	92	99
6	1	1	245	249	99	6	3	-15	266	265	99	6	4	6	141	120	99	6	6	-7	183	176	99	6	8	-17	43	27	99
6	1	2	56	51	99	6	3	-14	162	152	99	6	4	7	208	207	99	6	6	-6	726	737	99	6	8	-16	56	13	99
6	1	3	275	261	99	6	3	-13	105	88	99	6	4	8	410	396	99	6	6	-5	88	111	99	6	8	-15	110	89	99
6	1	4	-70	36	99	6	3	-12	-42	39	99	6	4	9	135	146	99	6	6	-4	92	98	99	6	8	-14	66	44	99
6	1	5	412	418	99	6	3	-11	55	38	99	6	4	10	190	188	99	6	6	-3	125	117	99	6	8	-13	138	126	99
6	1	6	126	115	99	6	3	-10	132	123	99	6	4	11	129	103	99	6	6	-2	315	320	99	6	8	-12	312	312	99
6	1	7	501	502	99	6	3	-9	110	112	99	6	4	12	53	140	99	6	6	-1	325	329	99	6	8	-11	56	36	99
6	1	8	-5	53	99	6	3	-8	218	222	99	6	4	13	216	197	99	6	6	0	560	579	99	6	8	-10	234	231	99
6	1	9	358	329	99	6	3	-7	258	257	99	6	4	14	140	124	99	6	6	1	515	533	99	6	8	-9	116	117	99
6	1	10	95	104	99	6	3	-6	64	28	99	6	4	15	118	114	99	6	6	2	257	253	99	6	8	-8	54	77	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	8	-7	341	340	99	6	10	-13	76	97	99	6	12	-14	119	106	99	6	14	-7	183	179	99	6	17	-5	20	30	99
6	8	-6	458	473	99	6	10	-12	318	325	99	6	12	-13	143	155	99	6	14	-6	263	262	99	6	17	-4	164	173	99
6	8	-5	256	262	99	6	10	-11	49	29	99	6	12	-12	130	124	99	6	14	-5	228	237	99	6	17	-3	129	106	99
6	8	-4	-22	35	99	6	10	-10	108	82	99	6	12	-11	105	124	99	6	14	-4	-116	29	99	6	17	-2	34	95	99
6	8	-3	195	188	99	6	10	-9	-89	34	99	6	12	-10	45	37	99	6	14	-3	82	53	99	6	17	-1	-85	31	99
6	8	-2	307	300	99	6	10	-8	54	51	99	6	12	-9	66	28	99	6	14	-2	103	70	99	6	17	0	177	193	99
6	8	-1	-56	28	99	6	10	-7	52	73	99	6	12	-8	50	51	99	6	14	-1	-74	12	99	6	17	1	83	62	99
6	8	0	344	351	99	6	10	-6	282	286	99	6	12	-7	-89	19	99	6	14	0	72	102	99	6	17	2	144	175	99
6	8	1	202	202	99	6	10	-5	125	152	99	6	12	-6	347	367	99	6	14	1	220	228	99	6	17	3	94	18	99
6	8	2	148	146	99	6	10	-4	56	51	99	6	12	-5	203	189	99	6	14	2	116	125	99	6	17	4	76	19	99
6	8	3	212	216	99	6	10	-3	143	152	99	6	12	-4	57	66	99	6	14	3	-32	8	99	6	18	-4	-38	2	99
6	8	4	281	278	99	6	10	-2	164	151	99	6	12	-3	154	158	99	6	14	4	68	34	99	6	18	-3	-19	69	99
6	8	5	56	9	99	6	10	-1	72	52	99	6	12	-2	132	105	99	6	14	5	150	163	99	6	18	-2	75	38	99
6	8	6	182	180	99	6	10	0	380	393	99	6	12	-1	-19	75	99	6	14	6	83	74	99	6	18	-1	-73	69	99
6	8	7	164	162	99	6	10	1	204	206	99	6	12	0	201	198	99	6	14	7	155	147	99	6	18	0	81	54	99
6	8	8	33	78	99	6	10	2	179	166	99	6	12	1	225	229	99	6	14	8	68	120	99	7	0	-18	67	34	99
6	8	9	80	15	99	6	10	3	-76	25	99	6	12	2	67	57	99	6	14	9	-31	43	99	7	0	-16	45	28	99
6	8	10	72	10	99	6	10	4	359	362	99	6	12	3	68	74	99	6	15	-11	-44	7	99	7	0	-14	299	303	99
6	8	11	-50	45	99	6	10	5	189	184	99	6	12	4	130	134	99	6	15	-10	68	10	99	7	0	-12	289	289	99
6	8	12	111	57	99	6	10	6	119	97	99	6	12	5	327	317	99	6	15	-9	-36	100	99	7	0	-10	620	608	99
6	8	13	149	132	99	6	10	7	202	199	99	6	12	6	80	0	99	6	15	-8	196	205	99	7	0	-8	494	514	99
6	8	14	69	16	99	6	10	8	136	118	99	6	12	7	187	197	99	6	15	-7	136	127	99	7	0	-6	604	613	99
6	9	-16	129	114	99	6	10	9	-15	20	99	6	12	8	141	134	99	6	15	-6	-43	50	99	7	0	-4	369	384	99
6	9	-15	154	144	99	6	10	10	20	43	99	6	12	9	142	159	99	6	15	-5	137	152	99	7	0	-2	237	239	99
6	9	-14	-44	12	99	6	10	11	183	191	99	6	12	10	78	12	99	6	15	-4	216	238	99	7	0	0	282	277	99
6	9	-13	233	241	99	6	10	12	159	165	99	6	12	11	187	200	99	6	15	-3	79	101	99	7	0	2	268	258	99
6	9	-12	122	118	99	6	10	13	159	159	99	6	13	-13	-12	103	99	6	15	-2	-65	63	99	7	0	4	166	159	99
6	9	-11	158	150	99	6	11	-15	111	97	99	6	13	-12	24	43	99	6	15	-1	124	105	99	7	0	6	79	106	99
6	9	-10	-41	8	99	6	11	-14	123	123	99	6	13	-11	98	92	99	6	15	0	218	221	99	7	0	8	475	473	99
6	9	-9	281	282	99	6	11	-13	145	123	99	6	13	-10	34	15	99	6	15	1	90	88	99	7	0	10	420	420	99
6	9	-8	301	300	99	6	11	-12	-49	20	99	6	13	-9	93	93	99	6	15	2	61	77	99	7	0	12	-90	37	99
6	9	-7	414	421	99	6	11	-11	149	127	99	6	13	-8	-66	46	99	6	15	3	95	77	99	7	0	14	241	239	99
6	9	-6	211	223	99	6	11	-10	67	52	99	6	13	-7	157	166	99	6	15	4	73	41	99	7	1	-18	95	41	99
6	9	-5	110	97	99	6	11	-9	-53	110	99	6	13	-6	88	78	99	6	15	5	-39	30	99	7	1	-17	-65	53	99
6	9	-4	297	311	99	6	11	-8	89	80	99	6	13	-5	170	179	99	6	15	6	189	190	99	7	1	-16	-41	17	99
6	9	-3	-35	9	99	6	11	-7	293	291	99	6	13	-4	66	29	99	6	15	7	280	274	99	7	1	-15	234	234	99
6	9	-2	143	166	99	6	11	-6	146	139	99	6	13	-3	172	159	99	6	15	8	42	41	99	7	1	-14	103	87	99
6	9	-1	483	490	99	6	11	-5	51	25	99	6	13	-2	110	95	99	6	16	-9	42	76	99	7	1	-13	-71	100	99
6	9	0	283	265	99	6	11	-4	86	107	99	6	13	-1	252	240	99	6	16	-8	62	10	99	7	1	-12	-16	56	99
6	9	1	-87	57	99	6	11	-3	56	83	99	6	13	0	143	162	99	6	16	-7	234	245	99	7	1	-11	460	462	99
6	9	2	99	79	99	6	11	-2	96	119	99	6	13	1	122	100	99	6	16	-6	66	39	99	7	1	-10	96	69	99
6	9	3	142	143	99	6	11	-1	396	399	99	6	13	2	-66	41	99	6	16	-5	170	180	99	7	1	-9	709	711	99
6	9	4	-72	20	99	6	11	0	158	162	99	6	13	3	106	93	99	6	16	-4	76	24	99	7	1	-8	121	94	99
6	9	5	368	356	99	6	11	1	-95	69	99	6	13	4	63	43	99	6	16	-3	29	90	99	7	1	-7	200	210	99
6	9	6	-77	97	99	6	11	2	87	57	99	6	13	5	61	24	99	6	16	-2	73	13	99	7	1	-6	173	176	99
6	9	7	86	88	99	6	11	3	128	155	99	6	13	6	353	347	99	6	16	-1	96	62	99	7	1	-5	492	494	99
6	9	8	66	65	99	6	11	4	56	78	99	6	13	7	178	175	99	6	16	0	98	57	99	7	1	-4	121	108	99
6	9	9	173	170	99	6	11	5	145	149	99	6	13	8	70	9	99	6	16	1	269	278	99	7	1	-3	437	440	99
6	9	10	-51	16	99	6	11	6	384	395	99	6	13	9	-56	26	99	6	16	2	85	90	99	7	1	-2	122	151	99
6	9	11	46	32	99	6	11	7	145	146	99	6	13	10	117	92	99	6	16	3	49	37	99	7	1	-1	373	366	99
6	9	12	246	257	99	6	11	8	101	95	99	6	14	-12	-90	23	99	6	16	4	60	77	99	7	1	0	261	251	99
6	9	13	143	133	99	6	11	9	80	27	99	6	14	-11	-82	13	99	6	16	5	59	71	99	7	1	1	488	487	99
6	10	-16	162	153	99	6	11	10	86	106	99	6	14	-10	55	75	99	6	16	6	86	117	99	7	1	2	92	46	99
6	10	-15	118	84	99	6	11	11	52	28	99	6	14	-9	74	16	99	6	17	-7	-77	5	99	7	1	3	378	381	99
6	10	-14	57	17	99	6	11	12	244	248	99	6	14	-8	-63	41	99	6	17	-6	-83	31	99	7	1	4	66	38	99
7	1	5	283	275	99	7	3	-5	357	360	99	7	5	-14	78	22	99	7	6	10	-41	23	99	7	8	5	46	34	99
7	1	6	110	117	99	7	3	-4	402	415	99	7	5	-13	136	141	99	7	6	11	77	12	99	7	8	6	378	379	99
7	1	7	387	383	99	7	3	-3	323	322	99	7	5	-12	-110	10	99	7	6	12	41	26	99	7	8	7	153	139	99
7	1	8	56	26	99	7	3	-2	352	355	99	7	5	-11	247	244	99	7	6	13	66	67	99	7	8	8	61	11	99
7	1	9	391	396	99	7	3	-1	408	395	99	7	5	-10	68	23	99	7	7	-16	60	25	99	7	8	9	-38	43	99
7	1	10	26	48	99	7	3	0	335	339	99	7	5	-9	53	98	99	7	7	-15	129	131	99	7	8	10	-132	13	99
7	1	11	248	248	99	7	3	1	174	171	99	7	5	-8	69	109	99	7	7	-14	30	17	99	7	8	11	-77	11	99
7	1	12	-109	15	99	7	3	2	372	354	99	7	5	-7	62	47	99	7	7	-13	216	228	99	7	8	12	-43	15	99
7	1	13	48	123	99	7	3	3	238	239	99	7	5	-6	173	168	99	7	7	-12	116	96	99	7	9	-15	164	159	99
7	1	14	90	55	99	7	3	4	381	360	99	7	5	-5	182	188	99	7	7	-11	46	88	99	7	9	-14	-43	29	99
7	2	-18	76	59	99	7	3	5	331	331	99	7	5	-4	244	249	99	7	7	-10	-54	50	99	7	9	-13	64	70	99
7	2	-17	55	58	99	7	3	6	-58	2	99	7	5	-3	79	4	99	7	7	-9	91	78	99	7	9	-12	181	188	99
7	2	-16	110	109	99	7	3	7	275	261	99	7	5	-2	344	340	99	7	7	-8	43	16	99	7	9	-11	28	13	99
7	2	-15	184	168	99	7	3	8	100	60	99	7	5	-1	530	514	99	7	7	-7	258	251	99	7	9	-10	-47	10	99
7	2	-14	278	275	99	7	3	9	279	296	99	7	5	0	63	91	99	7	7	-6	137	110	99	7	9	-9	54	66	99
7	2	-13	58	7	99	7	3	10	78	69	99	7	5	1	203	177	99	7	7	-5	193	195	99	7	9	-8	310	317	99
7	2	-12	353	333	99	7	3	11	81	89	99	7	5	2	508	523	99	7	7	-4	189	204	99	7	9	-7	174	185	99
7	2	-11	127	141	99	7	3	12	82	6	99	7	5	3	136	132	99	7	7	-3	243	244	99	7	9	-6	158	175	99
7	2	-10	467	467	99	7	3	13	38	127	99	7	5	4	379	395	99	7	7	-2	154	148	99	7	9	-5	191	189	99
7	2	-9	100	90	99	7	3	14	90	94	99	7	5	5	318	294	99	7	7	-1	703	700	99	7	9	-4	166	180	99
7	2	-8	318	319	99	7	4	-17	57	61	99	7	5	6	70	71	99	7	7	0	148	112	99	7	9	-3	-17	74	99
7	2	-7	89	86	99	7	4	-16	133	119	99	7	5	7	-31	20	99	7	7	1	138	128	99	7	9	-2	190	174	99
7	2	-6	391	384	99	7	4	-15	153	142	99	7	5	8	-113	23	99	7	7	2	185	177	99	7	9	-1	539	546	99
7	2	-5	334	351	99	7	4	-14	309	304	99	7	5	9	77	103	99	7	7	3	121	106	99	7	9	0	152	145	99
7	2	-4	278	272	99	7	4	-13	164	161	99	7	5	10	49	8	99	7	7	4	115	98	99	7	9	1	288	313	99
7	2	-3	343	348	99	7	4	-12	345	337	99	7	5	11	76	96	99	7	7	5	326	328	99	7	9	2	46	17	99
7	2	-2	301	293	99	7	4	-11	58	71	99	7	5	12	-47	50	99	7	7	6	-28	82	99	7	9	3	59	84	99
7	2	-1	142	128	99	7	4	-10	66	60	99	7	5	13	113	115	99	7	7	7	104	99	99	7	9	4	154	136	99
7	2	0	391	388	99	7	4	-9	-80	49	99	7	6	-17	-9	62	99	7	7	8	45	64	99	7	9	5	493	507	99
7	2	1	167	166	99	7	4	-8	158	158	99	7	6	-16	58	26	99	7	7	9	-72	38	99	7	9	6	155	177	99
7	2	2	457	450	99	7	4	-7	136	123	99	7	6	-15	77	64	99	7	7	10	-122	10	99	7	9	7	-18	14	99
7	2	3	324	331	99	7	4	-6	283	279	99	7	6	-14	264	260	99	7	7	11	-63	121	99	7	9	8	-63	66	99
7	2	4	289	279	99	7	4	-5	292	302	99	7	6	-13	119	119	99	7	7	12	72	21	99	7	9	9	80	46	99
7	2	5	210	210	99	7	4	-4	121	108	99	7	6	-12	-90	21	99	7	7	13	79	168	99	7	9	10	-72	34	99
7	2	6	188	166	99	7	4	-3	387	388	99	7	6	-11	114	97	99	7	8	-16	57	30	99	7	9	11	74	70	99
7	2	7	-24	57	99	7	4	-2	52	28	99	7	6	-10	15	71	99	7	8	-15	103	111	99	7	9	12	132	150	99
7	2	8	514	520	99	7	4	-1	-46	31	99	7	6	-9	71	6	99	7	8	-14	251	253	99	7	10	-14	160	153	99
7	2	9	76	80	99	7	4	0	423	412	99	7	6	-8	55	91	99	7	8	-13	152	153	99	7	10	-13	211	210	99
7	2	10	377	376	99	7	4	1	359	352	99	7	6	-7	63	77	99	7	8	-12	66	12	99	7	10	-12	86	72	99
7	2	11	89	97	99	7	4	2	232	220	99	7	6	-6	473	473	99	7	8	-11	113	104	99	7	10	-11	90	117	99
7	2	12	52	77	99	7	4	3	425	403	99	7	6	-5	324	349	99	7	8	-10	48	45	99	7	10	-10	-97	52	99
7	2	13	37	60	99	7	4	4	343	326	99	7	6	-4	-55	23	99	7	8	-9	67	120	99	7	10	-9	180	197	99
7	2	14	156	128	99	7	4	5	132	108	99	7	6	-3	202	208	99	7	8	-8	61	12	99	7	10	-8	93	100	99
7	3	-17	149	149	99	7	4	6	287	285	99	7	6	-2	318	315	99	7	8	-7	281	299	99	7	10	-7	367	378	99
7	3	-16	133	112	99	7	4	7	-123	49	99	7	6	-1	157	146	99	7	8	-6	317	324	99	7	10	-6	68	94	99
7	3	-15	230	205	99	7	4	8	382	398	99	7	6	0	592	583	99	7	8	-5	159	176	99	7	10	-5	118	119	99
7	3	-14	92	69	99	7	4	9	67	33	99	7	6	1	329	328	99	7	8	-4	65	25	99	7	10	-4	56	25	99
7	3	-13	38	6	99	7	4	10	122	145	99	7	6	2	60	32	99	7	8	-3	144	141	99	7	10	-3	66	61	99
7	3	-12	15	60	99	7	4	11	-103	32	99	7	6	3	276	277	99	7	8	-2	427	419	99	7	10	-2	166	153	99
7	3	-11	351	338	99	7	4	12	-46	65	99	7	6	4	46	88	99	7	8	-1	-40	59	99	7	10	-1	153	147	99
7	3	-10	-38	64	99	7	4	13	100	92	99	7	6	5	110	97	99	7	8	0	643	634	99	7	10	0	533	521	99
7	3	-9	396	409	99	7	4	14	130	107	99	7	6	6	388	384	99	7	8	1	203	207	99	7	10	1	167	162	99
7	3	-8	-59	8	99	7	5	-17	79	63	99	7	6	7	66	58	99	7	8	2	-37	20	99	7	10	2	-49	10	99
7	3	-7	133	142	99	7	5	-16	73	54	99	7	6	8	14	62	99	7	8	3	22	19	99	7	10	3	236	226	99
7	3	-6	220	239	99	7	5	-15	119	107	99	7	6	9	15	29	99	7	8	4	91	106	99	7	10	4	175	162	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
7	10	5	116	105	99	7	13	-12	160	202	99	7	16	-5	-99	27	99	8	2	-14	220	221	99	8	3	12	84	77	99
7	10	6	229	261	99	7	13	-11	131	125	99	7	16	-4	59	64	99	8	2	-13	220	222	99	8	4	-16	-37	37	99
7	10	7	290	295	99	7	13	-10	19	20	99	7	16	-3	29	22	99	8	2	-12	239	243	99	8	4	-15	102	95	99
7	10	8	119	88	99	7	13	-9	116	99	99	7	16	-2	157	160	99	8	2	-11	-97	12	99	8	4	-14	262	270	99
7	10	9	-69	6	99	7	13	-8	235	225	99	7	16	-1	97	52	99	8	2	-10	262	260	99	8	4	-13	119	117	99
7	10	10	55	44	99	7	13	-7	103	81	99	7	16	0	-99	40	99	8	2	-9	-31	57	99	8	4	-12	163	190	99
7	10	11	120	118	99	7	13	-6	257	260	99	7	16	1	154	151	99	8	2	-8	411	391	99	8	4	-11	103	108	99
7	11	-14	145	164	99	7	13	-5	56	73	99	7	16	2	102	101	99	8	2	-7	38	15	99	8	4	-10	108	95	99
7	11	-13	-21	11	99	7	13	-4	240	248	99	7	16	3	41	40	99	8	2	-6	289	285	99	8	4	-9	-123	20	99
7	11	-12	132	125	99	7	13	-3	-113	68	99	8	0	-16	-60	52	99	8	2	-5	204	206	99	8	4	-8	251	250	99
7	11	-11	-41	30	99	7	13	-2	128	144	99	8	0	-14	226	225	99	8	2	-4	241	229	99	8	4	-7	138	158	99
7	11	-10	-37	26	99	7	13	-1	111	119	99	8	0	-12	187	209	99	8	2	-3	58	88	99	8	4	-6	302	310	99
7	11	-9	-92	31	99	7	13	0	77	17	99	8	0	-10	360	361	99	8	2	-2	97	108	99	8	4	-5	-86	53	99
7	11	-8	281	299	99	7	13	1	60	106	99	8	0	-8	490	494	99	8	2	-1	-95	49	99	8	4	-4	186	193	99
7	11	-7	92	76	99	7	13	2	-45	16	99	8	0	-6	440	480	99	8	2	0	294	296	99	8	4	-3	66	20	99
7	11	-6	274	264	99	7	13	3	46	31	99	8	0	-4	276	290	99	8	2	1	64	74	99	8	4	-2	115	106	99
7	11	-5	45	47	99	7	13	4	131	119	99	8	0	-2	74	53	99	8	2	2	-34	35	99	8	4	-1	185	182	99
7	11	-4	142	150	99	7	13	5	-74	39	99	8	0	0	225	215	99	8	2	3	99	80	99	8	4	0	432	429	99
7	11	-3	111	131	99	7	13	6	268	257	99	8	0	2	124	85	99	8	2	4	53	28	99	8	4	1	111	53	99
7	11	-2	156	166	99	7	13	7	66	36	99	8	0	4	-58	36	99	8	2	5	107	55	99	8	4	2	20	38	99
7	11	-1	264	273	99	7	13	8	160	160	99	8	0	6	231	241	99	8	2	6	264	269	99	8	4	3	-30	52	99
7	11	0	51	51	99	7	14	-10	-70	122	99	8	0	8	99	43	99	8	2	7	79	34	99	8	4	4	156	143	99
7	11	1	235	218	99	7	14	-9	-86	63	99	8	0	10	134	138	99	8	2	8	-25	73	99	8	4	5	96	96	99
7	11	2	-119	26	99	7	14	-8	32	118	99	8	0	12	143	168	99	8	2	9	-97	62	99	8	4	6	229	215	99
7	11	3	47	59	99	7	14	-7	306	318	99	8	1	-16	73	58	99	8	2	10	63	46	99	8	4	7	129	143	99
7	11	4	59	90	99	7	14	-6	154	172	99	8	1	-15	182	168	99	8	2	11	-58	7	99	8	4	8	176	186	99
7	11	5	328	319	99	7	14	-5	-46	13	99	8	1	-14	-67	46	99	8	2	12	96	88	99	8	4	9	84	45	99
7	11	6	345	345	99	7	14	-4	107	119	99	8	1	-13	17	25	99	8	3	-16	124	130	99	8	4	10	-94	98	99
7	11	7	-83	18	99	7	14	-3	-47	43	99	8	1	-12	-77	2	99	8	3	-15	170	164	99	8	4	11	85	20	99
7	11	8	124	112	99	7	14	-2	-137	65	99	8	1	-11	350	358	99	8	3	-14	-32	89	99	8	4	12	-117	42	99
7	11	9	85	78	99	7	14	-1	133	114	99	8	1	-10	48	45	99	8	3	-13	61	21	99	8	5	-15	129	117	99
7	11	10	-70	61	99	7	14	0	-66	43	99	8	1	-9	365	362	99	8	3	-12	138	136	99	8	5	-14	88	80	99
7	12	-13	249	250	99	7	14	1	115	119	99	8	1	-8	-52	50	99	8	3	-11	211	211	99	8	5	-13	158	154	99
7	12	-12	113	93	99	7	14	2	162	151	99	8	1	-7	114	122	99	8	3	-10	-80	21	99	8	5	-12	140	131	99
7	12	-11	-132	8	99	7	14	3	83	73	99	8	1	-6	53	70	99	8	3	-9	160	158	99	8	5	-11	142	151	99
7	12	-10	70	24	99	7	14	4	71	57	99	8	1	-5	323	319	99	8	3	-8	-101	36	99	8	5	-10	88	99	99
7	12	-9	126	121	99	7	14	5	97	86	99	8	1	-4	91	92	99	8	3	-7	105	81	99	8	5	-9	105	119	99
7	12	-8	64	54	99	7	14	6	76	22	99	8	1	-3	212	215	99	8	3	-6	182	177	99	8	5	-8	67	24	99
7	12	-7	292	282	99	7	14	7	237	246	99	8	1	-2	-93	27	99	8	3	-5	346	361	99	8	5	-7	29	15	99
7	12	-6	265	269	99	7	15	-9	156	161	99	8	1	-1	59	86	99	8	3	-4	201	211	99	8	5	-6	113	109	99
7	12	-5	173	174	99	7	15	-8	201	200	99	8	1	0	115	92	99	8	3	-3	208	221	99	8	5	-5	403	401	99
7	12	-4	-20	45	99	7	15	-7	59	60	99	8	1	1	150	161	99	8	3	-2	65	49	99	8	5	-4	131	114	99
7	12	-3	55	90	99	7	15	-6	134	111	99	8	1	2	-40	86	99	8	3	-1	-82	39	99	8	5	-3	141	144	99
7	12	-2	75	22	99	7	15	-5	-106	32	99	8	1	3	-71	93	99	8	3	0	40	17	99	8	5	-2	77	109	99
7	12	-1	219	222	99	7	15	-4	-20	58	99	8	1	4	70	75	99	8	3	1	465	470	99	8	5	-1	253	249	99
7	12	0	213	195	99	7	15	-3	141	161	99	8	1	5	277	278	99	8	3	2	26	73	99	8	5	0	174	183	99
7	12	1	39	66	99	7	15	-2	-20	47	99	8	1	6	-61	50	99	8	3	3	105	92	99	8	5	1	306	307	99
7	12	2	-88	44	99	7	15	-1	-58	64	99	8	1	7	74	53	99	8	3	4	58	6	99	8	5	2	167	179	99
7	12	3	108	116	99	7	15	0	66	95	99	8	1	8	-115	8	99	8	3	5	392	401	99	8	5	3	38	11	99
7	12	4	68	93	99	7	15	1	157	127	99	8	1	9	14	38	99	8	3	6	19	20	99	8	5	4	77	58	99
7	12	5	151	151	99	7	15	2	-90	23	99	8	1	10	80	39	99	8	3	7	-115	25	99	8	5	5	347	358	99
7	12	6	-81	61	99	7	15	3	-17	27	99	8	1	11	-20	124	99	8	3	8	84	23	99	8	5	6	66	92	99
7	12	7	338	356	99	7	15	4	-82	70	99	8	1	12	55	17	99	8	3	9	78	115	99	8	5	7	-45	27	99
7	12	8	106	87	99	7	15	5	52	12	99	8	2	-16	76	74	99	8	3	10	34	46	99	8	5	8	176	163	99
7	12	9	127	94	99	7	16	-6	63	14	99	8	2	-15	136	121	99	8	3	11	92	108	99	8	5	9	163	190	99
8	5	10	-33	31	99	8	7	11	201	205	99	8	10	-7	320	330	99	8	13	-8	-37	90	99	9	1	0	172	127	99
8	5	11	119	144	99	8	8	-14	186	182	99	8	10	-6	112	130	99	8	13	-7	54	80	99	9	1	1	487	480	99
8	6	-15	39	52	99	8	8	-13	-41	87	99	8	10	-5	118	110	99	8	13	-6	247	249	99	9	1	2	-97	39	99
8	6	-14	236	228	99	8	8	-12	-56	41	99	8	10	-4	64	58	99	8	13	-5	187	188	99	9	1	3	206	223	99
8	6	-13	36	15	99	8	8	-11	71	36	99	8	10	-3	8	12	99	8	13	-4	53	58	99	9	1	4	-32	32	99
8	6	-12	56	46	99	8	8	-10	101	93	99	8	10	-2	62	53	99	8	13	-3	-36	6	99	9	1	5	126	117	99
8	6	-11	47	98	99	8	8	-9	21	5	99	8	10	-1	129	131	99	8	13	-2	154	153	99	9	1	6	108	46	99
8	6	-10	-40	44	99	8	8	-8	125	143	99	8	10	0	279	295	99	8	13	-1	99	89	99	9	1	7	194	198	99
8	6	-9	32	19	99	8	8	-7	285	296	99	8	10	1	-109	63	99	8	13	0	114	78	99	9	1	8	85	70	99
8	6	-8	143	169	99	8	8	-6	346	346	99	8	10	2	-80	7	99	8	13	1	36	31	99	9	1	9	105	84	99
8	6	-7	38	39	99	8	8	-5	106	92	99	8	10	3	69	60	99	8	13	2	-46	48	99	9	1	10	-119	65	99
8	6	-6	520	539	99	8	8	-4	85	91	99	8	10	4	113	136	99	8	13	3	120	58	99	9	2	-14	165	158	99
8	6	-5	131	140	99	8	8	-3	158	150	99	8	10	5	114	114	99	8	13	4	159	172	99	9	2	-13	38	13	99
8	6	-4	137	142	99	8	8	-2	51	4	99	8	10	6	173	181	99	8	13	5	113	93	99	9	2	-12	74	61	99
8	6	-3	119	110	99	8	8	-1	115	90	99	8	10	7	83	72	99	8	14	-7	240	270	99	9	2	-11	50	81	99
8	6	-2	25	23	99	8	8	0	345	341	99	8	10	8	180	207	99	8	14	-6	104	84	99	9	2	-10	-88	27	99
8	6	-1	233	225	99	8	8	1	-70	66	99	8	11	-12	147	132	99	8	14	-5	50	8	99	9	2	-9	-106	91	99
8	6	0	459	462	99	8	8	2	59	11	99	8	11	-11	-71	25	99	8	14	-4	129	122	99	9	2	-8	185	178	99
8	6	1	67	71	99	8	8	3	94	77	99	8	11	-10	-52	5	99	8	14	-3	97	87	99	9	2	-7	188	206	99
8	6	2	50	7	99	8	8	4	58	79	99	8	11	-9	-63	86	99	8	14	-2	73	20	99	9	2	-6	245	235	99
8	6	3	81	88	99	8	8	5	-77	67	99	8	11	-8	150	145	99	8	14	-1	164	169	99	9	2	-5	80	60	99
8	6	4	115	104	99	8	8	6	182	194	99	8	11	-7	46	8	99	8	14	0	136	120	99	9	2	-4	219	199	99
8	6	5	-81	20	99	8	8	7	149	129	99	8	11	-6	207	200	99	8	14	1	55	46	99	9	2	-3	57	55	99
8	6	6	147	147	99	8	8	8	119	135	99	8	11	-5	144	152	99	8	14	2	70	26	99	9	2	-2	233	220	99
8	6	7	163	177	99	8	8	9	49	61	99	8	11	-4	9	5	99	8	14	3	47	77	99	9	2	-1	77	88	99
8	6	8	146	164	99	8	8	10	-68	155	99	8	11	-3	-73	123	99	8	15	-3	57	20	99	9	2	0	637	672	99
8	6	9	-79	13	99	8	9	-13	84	95	99	8	11	-2	96	128	99	8	15	-2	57	107	99	9	2	1	112	34	99
8	6	10	176	191	99	8	9	-12	173	187	99	8	11	-1	164	159	99	8	15	-1	86	43	99	9	2	2	283	277	99
8	6	11	108	54	99	8	9	-11	58	76	99	8	11	0	115	89	99	9	0	-14	142	139	99	9	2	3	79	35	99
8	7	-15	60	49	99	8	9	-10	-82	19	99	8	11	1	78	151	99	9	0	-12	181	187	99	9	2	4	40	43	99
8	7	-14	47	31	99	8	9	-9	-26	54	99	8	11	2	63	63	99	9	0	-10	-77	22	99	9	2	5	161	155	99
8	7	-13	171	184	99	8	9	-8	168	185	99	8	11	3	-95	76	99	9	0	-8	209	190	99	9	2	6	320	341	99
8	7	-12	141	119	99	8	9	-7	164	162	99	8	11	4	183	205	99	9	0	-6	370	399	99	9	2	7	183	180	99
8	7	-11	32	43	99	8	9	-6	154	137	99	8	11	5	195	220	99	9	0	-4	180	195	99	9	2	8	44	33	99
8	7	-10	112	82	99	8	9	-5	164	160	99	8	11	6	143	136	99	9	0	-2	192	204	99	9	2	9	71	75	99
8	7	-9	142	131	99	8	9	-4	72	67	99	8	11	7	-38	18	99	9	0	0	749	745	99	9	2	10	62	41	99
8	7	-8	91	101	99	8	9	-3	119	124	99	8	11	8	-87	33	99	9	0	2	308	317	99	9	3	-14	-60	37	99
8	7	-7	140	152	99	8	9	-2	80	121	99	8	12	-10	-12	20	99	9	0	4	133	122	99	9	3	-13	203	204	99
8	7	-6	138	123	99	8	9	-1	250	259	99	8	12	-9	-24	32	99	9	0	6	294	302	99	9	3	-12	122	116	99
8	7	-5	276	286	99	8	9	0	-119	20	99	8	12	-8	174	182	99	9	0	8	39	73	99	9	3	-11	60	18	99
8	7	-4	102	98	99	8	9	1	143	145	99	8	12	-7	229	247	99	9	0	10	22	18	99	9	3	-10	126	103	99
8	7	-3	-61	30	99	8	9	2	39	13	99	8	12	-6	177	180	99	9	1	-14	52	18	99	9	3	-9	113	114	99
8	7	-2	108	104	99	8	9	3	-78	11	99	8	12	-5	113	109	99	9	1	-13	250	248	99	9	3	-8	75	50	99
8	7	-1	325	319	99	8	9	4	88	77	99	8	12	-4	52	39	99	9	1	-12	-93	85	99	9	3	-7	60	8	99
8	7	0	-35	37	99	8	9	5	250	250	99	8	12	-3	18	12	99	9	1	-11	55	17	99	9	3	-6	151	166	99
8	7	1	34	89	99	8	9	6	78	19	99	8	12	-2	55	32	99	9	1	-10	35	58	99	9	3	-5	284	278	99
8	7	2	149	146	99	8	9	7	50	117	99	8	12	-1	186	212	99	9	1	-9	263	220	99	9	3	-4	170	153	99
8	7	3	-113	12	99	8	9	8	68	20	99	8	12	0	171	168	99	9	1	-8	71	43	99	9	3	-3	179	194	99
8	7	4	-32	25	99	8	9	9	119	132	99	8	12	1	86	51	99	9	1	-7	61	82	99	9	3	-2	73	33	99
8	7	5	178	190	99	8	10	-13	203	199	99	8	12	2	57	24	99	9	1	-6	-77	73	99	9	3	-1	113	119	99
8	7	6	92	16	99	8	10	-12	32	38	99	8	12	3	76	90	99	9	1	-5	374	369	99	9	3	0	137	110	99
8	7	7	61	61	99	8	10	-11	-58	53	99	8	12	4	138	132	99	9	1	-4	89	79	99	9	3	1	452	476	99
8	7	8	151	150	99	8	10	-10	69	84	99	8	12	5	-87	76	99	9	1	-3	191	179	99	9	3	2	65	3	99
8	7	9	154	146	99	8	10	-9	58	5	99	8	12	6	100	116	99	9	1	-2	75	6	99	9	3	3	66	56	99
8	7	10	-123	3	99	8	10	-8	101	80	99	8	13	-9	152	158	99	9	1	-1	401	402	99	9	3	4	-22	45	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	3	5	149	144	99	9	6	-10	81	91	99	9	8	3	46	79	99	9	12	-3	144	135	99	10	3	-9	-58	17	99
9	3	6	236	244	99	9	6	-9	60	101	99	9	8	4	149	155	99	9	12	-2	-78	39	99	10	3	-8	-54	1	99
9	3	7	120	137	99	9	6	-8	260	277	99	9	8	5	-67	74	99	9	12	-1	313	321	99	10	3	-7	172	195	99
9	3	8	24	152	99	9	6	-7	47	67	99	9	8	6	188	215	99	9	12	0	147	119	99	10	3	-6	-95	62	99
9	3	9	-41	43	99	9	6	-6	62	93	99	9	8	7	-50	53	99	9	12	1	79	36	99	10	3	-5	159	175	99
9	4	-14	-31	124	99	9	6	-5	115	129	99	9	9	-11	-83	53	99	9	12	2	-115	14	99	10	3	-4	118	131	99
9	4	-13	77	116	99	9	6	-4	80	98	99	9	9	-10	-53	87	99	10	0	-12	110	109	99	10	3	-3	139	158	99
9	4	-12	51	31	99	9	6	-3	84	144	99	9	9	-9	195	186	99	10	0	-10	65	24	99	10	3	-2	90	139	99
9	4	-11	82	75	99	9	6	-2	182	165	99	9	9	-8	44	58	99	10	0	-8	76	130	99	10	3	-1	102	77	99
9	4	-10	-95	15	99	9	6	-1	68	59	99	9	9	-7	28	119	99	10	0	-6	207	234	99	10	3	0	127	95	99
9	4	-9	96	97	99	9	6	0	94	101	99	9	9	-6	-78	98	99	10	0	-4	228	238	99	10	3	1	224	262	99
9	4	-8	191	203	99	9	6	1	57	53	99	9	9	-5	30	37	99	10	0	-2	67	39	99	10	3	2	62	2	99
9	4	-7	152	147	99	9	6	2	80	50	99	9	9	-4	90	124	99	10	0	0	38	133	99	10	3	3	-95	89	99
9	4	-6	75	80	99	9	6	3	110	58	99	9	9	-3	42	90	99	10	0	2	139	155	99	10	3	4	61	47	99
9	4	-5	215	217	99	9	6	4	29	85	99	9	9	-2	149	159	99	10	0	4	131	116	99	10	3	5	107	140	99
9	4	-4	121	125	99	9	6	5	24	67	99	9	9	-1	80	49	99	10	0	6	173	168	99	10	3	6	64	23	99
9	4	-3	153	139	99	9	6	6	183	188	99	9	9	0	78	77	99	10	1	-12	55	69	99	10	4	-11	187	178	99
9	4	-2	236	228	99	9	6	7	166	157	99	9	9	1	21	18	99	10	1	-11	-36	4	99	10	4	-10	73	64	99
9	4	-1	27	27	99	9	6	8	66	86	99	9	9	2	123	126	99	10	1	-10	85	83	99	10	4	-9	-89	86	99
9	4	0	349	352	99	9	7	-12	90	109	99	9	9	3	118	122	99	10	1	-9	40	38	99	10	4	-8	193	180	99
9	4	1	69	112	99	9	7	-11	65	88	99	9	9	4	46	136	99	10	1	-8	27	10	99	10	4	-7	81	42	99
9	4	2	139	172	99	9	7	-10	69	56	99	9	9	5	212	218	99	10	1	-7	49	52	99	10	4	-6	-42	2	99
9	4	3	-49	34	99	9	7	-9	230	240	99	9	9	6	131	145	99	10	1	-6	52	33	99	10	4	-5	79	129	99
9	4	4	-49	42	99	9	7	-8	98	87	99	9	10	-10	84	95	99	10	1	-5	230	241	99	10	4	-4	110	125	99
9	4	5	132	148	99	9	7	-7	78	153	99	9	10	-9	86	21	99	10	1	-4	-109	39	99	10	4	-3	174	186	99
9	4	6	248	268	99	9	7	-6	204	207	99	9	10	-8	138	133	99	10	1	-3	192	175	99	10	4	-2	26	131	99
9	4	7	266	281	99	9	7	-5	150	148	99	9	10	-7	32	97	99	10	1	-2	-46	35	99	10	4	-1	65	78	99
9	4	8	67	44	99	9	7	-4	51	11	99	9	10	-6	-38	21	99	10	1	-1	-103	70	99	10	4	0	194	181	99
9	4	9	92	106	99	9	7	-3	-23	86	99	9	10	-5	53	35	99	10	1	0	82	119	99	10	4	1	113	67	99
9	5	-13	214	206	99	9	7	-2	-87	48	99	9	10	-4	-149	20	99	10	1	1	239	228	99	10	4	2	96	77	99
9	5	-12	113	83	99	9	7	-1	40	28	99	9	10	-3	186	176	99	10	1	2	-49	3	99	10	4	3	24	26	99
9	5	-11	80	87	99	9	7	0	54	69	99	9	10	-2	137	145	99	10	1	3	112	128	99	10	4	4	77	6	99
9	5	-10	-78	44	99	9	7	1	-39	17	99	9	10	-1	252	261	99	10	1	4	-150	10	99	10	4	5	71	54	99
9	5	-9	120	126	99	9	7	2	64	100	99	9	10	0	68	119	99	10	1	5	72	73	99	10	4	6	208	229	99
9	5	-8	60	75	99	9	7	3	162	158	99	9	10	1	81	102	99	10	1	6	-33	27	99	10	5	-10	149	156	99
9	5	-7	123	125	99	9	7	4	93	78	99	9	10	2	172	119	99	10	2	-11	197	188	99	10	5	-9	72	114	99
9	5	-6	191	179	99	9	7	5	122	135	99	9	10	3	142	158	99	10	2	-10	37	8	99	10	5	-8	60	46	99
9	5	-5	149	162	99	9	7	6	83	18	99	9	10	4	115	91	99	10	2	-9	-152	71	99	10	5	-7	283	303	99
9	5	-4	154	162	99	9	7	7	120	85	99	9	10	5	194	225	99	10	2	-8	-69	81	99	10	5	-6	135	92	99
9	5	-3	176	161	99	9	7	8	139	160	99	9	11	-8	43	66	99	10	2	-7	-60	38	99	10	5	-5	134	132	99
9	5	-2	84	86	99	9	8	-12	-43	46	99	9	11	-7	110	104	99	10	2	-6	103	99	99	10	5	-4	138	155	99
9	5	-1	-132	20	99	9	8	-11	83	130	99	9	11	-6	54	13	99	10	2	-5	73	63	99	10	5	-3	70	109	99
9	5	0	76	52	99	9	8	-10	154	141	99	9	11	-5	-132	22	99	10	2	-4	182	200	99	10	5	-2	84	95	99
9	5	1	177	200	99	9	8	-9	47	59	99	9	11	-4	114	135	99	10	2	-3	126	117	99	10	5	-1	-99	16	99
9	5	2	80	85	99	9	8	-8	276	283	99	9	11	-3	-69	75	99	10	2	-2	68	58	99	10	5	0	-115	21	99
9	5	3	142	89	99	9	8	-7	112	110	99	9	11	-2	202	234	99	10	2	-1	-84	57	99	10	5	1	135	166	99
9	5	4	35	5	99	9	8	-6	73	57	99	9	11	-1	46	5	99	10	2	0	160	162	99	10	5	2	-63	72	99
9	5	5	119	112	99	9	8	-5	-76	15	99	9	11	0	177	182	99	10	2	1	222	32	99	10	5	3	-58	9	99
9	5	6	259	267	99	9	8	-4	-58	99	99	9	11	1	65	81	99	10	2	2	59	126	99	10	5	4	38	48	99
9	5	7	178	189	99	9	8	-3	110	54	99	9	11	2	158	177	99	10	2	3	55	86	99	10	5	5	165	173	99
9	5	8	205	206	99	9	8	-2	102	121	99	9	11	3	86	39	99	10	2	4	39	86	99	10	6	-10	130	140	99
9	5	9	44	87	99	9	8	-1	153	149	99	9	11	4	169	204	99	10	2	5	59	4	99	10	6	-9	26	69	99
9	6	-13	34	69	99	9	8	0	57	84	99	9	12	-6	120	108	99	10	2	6	208	227	99	10	6	-8	295	323	99
9	6	-12	39	77	99	9	8	1	78	92	99	9	12	-5	-20	66	99	10	3	-11	73	33	99	10	6	-7	29	47	99
9	6	-11	72	38	99	9	8	2	133	163	99	9	12	-4	-92	42	99	10	3	-10	186	187	99	10	6	-6	-20	60	99
10	6	-5	-61	117	99	11	1	1	78	77	99																		
10	6	-4	-59	48	99	11	2	-6	91	105	99																		
10	6	-3	74	90	99	11	2	-5	-104	17	99																		
10	6	-2	165	161	99	11	2	-4	-27	28	99																		
10	6	-1	-82	19	99	11	2	-3	-57	53	99																		
10	6	0	109	129	99	11	2	-2	212	221	99																		
10	6	1	-62	19	99	11	2	-1	75	106	99																		
10	6	2	-20	38	99	11	2	0	103	69	99																		
10	6	3	55	50	99	11	2	1	-39	83	99																		
10	6	4	93	21	99	11	3	-5	53	36	99																		
10	6	5	-147	38	99	11	3	-4	-81	6	99																		
10	7	-9	172	174	99	11	3	-3	61	92	99																		
10	7	-8	-71	37	99	11	3	-2	37	73	99																		
10	7	-7	232	290	99	11	3	-1	190	205	99																		
10	7	-6	91	139	99	11	3	0	114	146	99																		
10	7	-5	-90	32	99	11	4	-4	-60	57	99																		
10	7	-4	53	6	99	11	4	-3	65	43	99																		
10	7	-3	73	85	99	11	4	-2	151	182	99																		
10	7	-2	78	18	99																								
10	7	-1	61	7	99																								
10	7	0	66	8	99																								
10	7	1	62	23	99																								
10	7	2	104	112	99																								
10	7	3	50	8	99																								
10	7	4	-122	24	99																								
10	8	-8	308	315	99																								
10	8	-7	130	123	99																								
10	8	-6	133	131	99																								
10	8	-5	50	18	99																								
10	8	-4	-74	22	99																								
10	8	-3	-102	19	99																								
10	8	-2	172	155	99																								
10	8	-1	67	48	99																								
10	8	0	-55	72	99																								
10	8	1	-78	6	99																								
10	8	2	-45	41	99																								
10	9	-6	83	98	99																								
10	9	-5	-51	80	99																								
10	9	-4	-90	57	99																								
10	9	-3	47	125	99																								
10	9	-2	-51	91	99																								
10	9	-1	-78	71	99																								
10	9	0	-75	37	99																								
10	9	1	70	46	99																								
11	0	-6	114	53	99																								
11	0	-4	-27	12	99																								
11	0	-2	236	257	99																								
11	0	0	85	84	99																								
11	1	-6	-46	2	99																								
11	1	-5	80	45	99																								
11	1	-4	-118	9	99																								
11	1	-3	45	48	99																								
11	1	-2	94	47	99																								
11	1	-1	136	131	99																								
11	1	0	58	5	99																								

APPENDIX 5.III

$[Zn(S_2CNCy_2)_2]$

Table 5.III.1: Crystallographic Parameters for $[Zn(S_2CN(CH(CH_2)_5)_2)_2]$

Formula	$C_{26}H_{44}N_2S_4Zn$
Formula weight	578.27
Crystal morphology / colour	cube / colourless
Crystal dimensions (mm)	0.13 x 0.13 x 0.13
Crystal system	trigonal
Space group	$P3_221$ (#154)
a (Å)	10.264(10)
b (Å)	10.264(10)
c (Å)	23.630(9)
α (°)	90
β (°)	90
γ (°)	90
V (Å^3)	2154(5)
Z	3
$\rho_{calc.}$ (g cm^{-3})	1.343
$F(000)$	924
Temperature (°K)	110
μ (cm^{-1})	11.68
θ limits, cell (°)	10.6 – 15.0
θ limits, data (°)	3.0 – 25.0
hkl range	0 – 10, 0 – 7, 0 – 28
Range of transmission factors	0.899 – 1
Scan technique	ω:2θ
No. of data measured	2847
No. of unique data	1516
R_{amal}	0.122
No. of parameters	150
R (I≥0σ(I))	0.101
R_w (I≥0σ(I))	0.100
R (I≥3σ(I))	0.041
R_w (I≥3σ(I))	0.037
Maximum and minimum residual electron density (e Å^{-3})	1.16, -2.09

Table 5.III.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Zn(S_2CN(CH(CH_2)5)2)2]$

Atom	*x*	*y*	*z*
Zn	0.3474(1)	0	1/3
S(1)	0.3005(2)	0.1118(2)	0.24337(9)
S(2)	0.5542(2)	0.2458(2)	0.16401(8)
N(1)	0.5181(7)	0.4020(6)	0.2483(2)
C(1)	0.4645(9)	0.2707(8)	0.2223(3)
C(2)	0.6607(9)	0.5358(9)	0.2278(3)
C(3)	0.782(1)	0.6009(9)	0.2742(3)
C(4)	0.9266(9)	0.7336(9)	0.2505(3)
C(5)	0.8936(9)	0.8541(9)	0.2278(3)
C(6)	0.7751(9)	0.7889(9)	0.1814(3)
C(7)	0.6296(8)	0.6542(9)	0.2028(3)
C(8)	0.4401(9)	0.4342(9)	0.2953(3)
C(9)	0.2923(9)	0.4193(9)	0.2761(3)
C(10)	0.2256(9)	0.4690(9)	0.3235(3)
C(11)	0.208(1)	0.3823(10)	0.3768(3)
C(12)	0.3566(10)	0.3974(10)	0.3957(3)
C(13)	0.4246(8)	0.3448(9)	0.3499(3)

Table 5.III.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Zn(S_2CN(CH(CH_2)_5)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Zn	0.0283(7)	0.0218(8)	0.0242(6)	0.0109(-)	-0.0029(3)	-0.0057(6)
S(1)	0.022(1)	0.019(1)	0.030(1)	0.005(1)	0.0047(9)	-0.0048(10)
S(2)	0.024(1)	0.022(1)	0.022(1)	0.008(1)	0.0058(10)	-0.001(1)
N(1)	0.016(4)	0.015(3)	0.018(3)	0.007(3)	0.004(3)	0.001(3)
C(1)	0.015(4)	0.022(4)	0.020(4)	0.010(4)	-0.001(4)	0.001(3)
C(2)	0.011(4)	0.016(4)	0.023(4)	0.003(4)	0.011(3)	0.005(4)
C(3)	0.032(6)	0.023(5)	0.033(4)	0.009(5)	-0.004(4)	0.006(4)
C(4)	0.019(5)	0.024(5)	0.033(5)	0.003(4)	-0.004(4)	0.006(4)
C(5)	0.020(5)	0.027(5)	0.032(5)	0.001(4)	-0.006(4)	0.000(4)
C(6)	0.028(5)	0.020(4)	0.021(4)	0.013(4)	0.004(4)	0.001(4)
C(7)	0.017(4)	0.020(5)	0.026(4)	0.000(4)	0.003(3)	0.011(4)
C(8)	0.030(5)	0.013(4)	0.024(4)	0.008(4)	0.006(4)	-0.007(4)
C(9)	0.021(5)	0.022(5)	0.023(4)	0.012(4)	0.004(4)	0.000(4)
C(10)	0.025(5)	0.026(5)	0.043(5)	0.012(4)	0.004(4)	-0.007(4)
C(11)	0.048(6)	0.029(5)	0.028(5)	0.019(5)	0.017(5)	0.007(4)
C(12)	0.037(6)	0.030(5)	0.023(4)	0.012(5)	0.001(4)	-0.001(4)
C(13)	0.018(5)	0.026(5)	0.024(4)	0.015(4)	-0.005(4)	-0.004(4)

Table 5.III.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Zn(S_2CN(CH(CH_2)_5)_2)_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.6995	0.5011	0.1975	1.7771
H(3a)	0.8026	0.5236	0.2873	2.9238
H(3b)	0.7459	0.6353	0.3056	2.9238
H(4a)	1.0012	0.7764	0.2804	2.7329
H(4b)	0.9647	0.6985	0.2201	2.7329
H(5a)	0.9854	0.9371	0.2125	2.9154
H(5b)	0.8571	0.8902	0.2585	2.9154
H(6a)	0.7537	0.8659	0.1684	2.1413
H(6b)	0.8136	0.7568	0.1501	2.1413
H(7a)	0.5858	0.6877	0.2317	2.3436
H(7b)	0.5596	0.6104	0.1715	2.3436
H(8a)	0.5047	0.5394	0.3049	2.2256
H(9a)	0.2225	0.3152	0.2664	1.9927
H(9b)	0.3097	0.4821	0.2431	1.9927
H(10a)	0.2920	0.5752	0.3308	2.9594
H(10b)	0.1278	0.4522	0.3118	2.9594
H(11a)	0.1704	0.4202	0.4065	3.3134
H(11b)	0.1359	0.2768	0.3701	3.3134
H(12a)	0.3396	0.3370	0.4294	3.0546
H(12b)	0.4266	0.5021	0.4043	3.0546
H(13a)	0.3593	0.2381	0.3431	1.9960
H(13b)	0.5228	0.3633	0.3619	1.9960

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 5.III.5: Bond distances (Å) for [Zn($S_2CN(CH(CH_2)_5)_2)_2$]

Zn — S(1)	2.321(2)	C(4) — C(5)	1.53(1)
Zn — S(2)	2.349(2)	C(5) — C(6)	1.52(1)
S(1) — C(1)	1.731(7)	C(6) — C(7)	1.53(1)
S(2) — C(1)	1.746(7)	C(8) — C(9)	1.52(1)
N(1) — C(1)	1.325(8)	C(8) — C(13)	1.54(1)
N(1) — C(2)	1.501(9)	C(9) — C(10)	1.53(1)
N(1) — C(8)	1.499(9)	C(10) — C(11)	1.50(1)
C(2) — C(3)	1.54(1)	C(11) — C(12)	1.52(1)
C(2) — C(7)	1.52(1)	C(12) — C(13)	1.52(1)
C(3) — C(4)	1.53(1)		

Table 5.III.6: Bond angles (deg.) for $[Zn(S_2CN(CH(CH_2)5)2)2]$

S(1) — Zn — S(1)*	125.9(1)	C(3) — C(2) — C(7)	112.1(6)
S(1) — Zn — S(2)	77.83(8)	C(2) — C(3) — C(4)	109.9(6)
S(1) — Zn — S(2)*	122.97(7)	C(3) — C(4) — C(5)	109.7(7)
S(2) — Zn — S(2)*	137.0(1)	C(4) — C(5) — C(6)	110.4(6)
Zn — S(1) — C(1)	84.1(3)	C(5) — C(6) — C(7)	111.3(6)
Zn — S(2) — C(1)	82.9(3)	C(2) — C(7) — C(6)	110.6(7)
C(1) — N(1) — C(2)	120.0(6)	N(1) — C(8) — C(9)	111.8(6)
C(1) — N(1) — C(8)	124.9(6)	N(1) — C(8) — C(13)	113.3(7)
C(2) — N(1) — C(8)	114.9(6)	C(9) — C(8) — C(13)	113.0(6)
S(1) — C(1) — S(2)	115.1(4)	C(8) — C(9) — C(10)	109.8(6)
S(1) — C(1) — N(1)	122.6(6)	C(9) — C(10) — C(11)	111.1(7)
S(2) — C(1) — N(1)	122.3(6)	C(10) — C(11) — C(12)	111.5(7)
N(1) — C(2) — C(3)	112.0(6)	C(11) — C(12) — C(13)	111.7(6)
N(1) — C(2) — C(7)	111.0(7)	C(8) — C(13) — C(12)	108.1(6)

* symmetry operation: *x-y*, *-y*, 1/3-*z*

Table 5.III.7: Observed and calculated structure factors for $[Zn(S_2CN(CH(CH_2)_5)_2)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	6	80	44	99	0	2	21	165	199	99	0	4	21	-82	53	99	0	7	0	112	67	99	0	9	14	-114	48	99
0	0	9	1163	1157	99	0	2	22	-89	116	99	0	4	22	445	434	99	0	7	1	609	605	99	0	10	0	73	71	99
0	0	12	1508	1539	99	0	2	23	112	176	99	0	4	23	-58	44	99	0	7	2	92	95	99	0	10	1	91	60	99
0	0	15	1274	1255	99	0	2	24	-153	8	99	0	4	24	161	101	99	0	7	3	-180	66	99	0	10	2	78	58	99
0	0	18	720	716	99	0	2	25	-92	47	99	0	4	25	363	361	99	0	7	4	219	231	99	0	10	3	174	168	99
0	0	21	366	356	99	0	2	26	285	286	99	0	4	26	122	100	99	0	7	5	262	243	99	0	10	4	-203	59	99
0	0	24	534	531	99	0	2	27	173	194	99	0	5	0	-17	164	99	0	7	6	168	170	99	0	10	5	-123	51	99
0	0	27	572	566	99	0	3	0	408	423	99	0	5	1	221	240	99	0	7	7	51	37	99	0	10	6	306	326	99
0	1	3	619	612	99	0	3	1	928	921	99	0	5	2	282	298	99	0	7	8	-157	134	99	0	10	7	207	170	99
0	1	4	2104	2109	99	0	3	2	258	248	99	0	5	3	118	103	99	0	7	9	-52	27	99	0	10	8	173	180	99
0	1	5	395	383	99	0	3	3	518	532	99	0	5	4	125	130	99	0	7	10	175	145	99	0	10	9	-125	24	99
0	1	6	727	736	99	0	3	4	656	647	99	0	5	5	383	402	99	0	7	11	265	274	99	1	0	1	834	824	99
0	1	7	596	621	99	0	3	5	129	135	99	0	5	6	527	521	99	0	7	12	122	83	99	1	0	4	314	322	99
0	1	8	689	705	99	0	3	6	840	850	99	0	5	7	269	236	99	0	7	13	193	203	99	1	0	5	58	88	99
0	1	9	125	117	99	0	3	7	335	346	99	0	5	8	860	896	99	0	7	14	-85	17	99	1	0	6	448	431	99
0	1	10	877	867	99	0	3	8	177	178	99	0	5	9	392	395	99	0	7	15	245	277	99	1	0	7	608	593	99
0	1	11	190	183	99	0	3	9	1070	1091	99	0	5	10	392	384	99	0	7	16	233	243	99	1	0	8	255	282	99
0	1	12	65	31	99	0	3	10	171	180	99	0	5	11	939	964	99	0	7	17	200	156	99	1	0	9	801	786	99
0	1	13	1113	1110	99	0	3	11	-91	83	99	0	5	12	246	256	99	0	7	18	141	157	99	1	0	10	107	131	99
0	1	14	-101	35	99	0	3	12	514	523	99	0	5	13	318	312	99	0	7	19	230	173	99	1	0	11	1172	1157	99
0	1	15	100	70	99	0	3	13	567	558	99	0	5	14	541	524	99	0	7	20	87	30	99	1	0	12	205	201	99
0	1	16	761	748	99	0	3	14	76	32	99	0	5	15	-104	18	99	0	7	21	140	100	99	1	0	13	257	261	99
0	1	17	88	73	99	0	3	15	175	125	99	0	5	16	324	314	99	0	8	0	70	45	99	1	0	14	1029	1038	99
0	1	18	305	308	99	0	3	16	303	320	99	0	5	17	355	360	99	0	8	1	405	404	99	1	0	15	230	242	99
0	1	19	315	311	99	0	3	17	211	203	99	0	5	18	270	257	99	0	8	2	280	265	99	1	0	16	79	39	99
0	1	20	313	280	99	0	3	18	342	327	99	0	5	19	-109	103	99	0	8	3	320	332	99	1	0	17	375	375	99
0	1	21	79	57	99	0	3	19	192	192	99	0	5	20	337	317	99	0	8	4	-134	50	99	1	0	18	113	147	99
0	1	22	447	445	99	0	3	20	150	185	99	0	5	21	63	93	99	0	8	5	381	386	99	1	0	19	230	224	99
0	1	23	111	120	99	0	3	21	515	520	99	0	5	22	178	158	99	0	8	6	101	151	99	1	0	20	345	314	99
0	1	24	103	67	99	0	3	22	106	168	99	0	5	23	418	415	99	0	8	7	125	209	99	1	0	21	363	377	99
0	1	25	494	464	99	0	3	23	63	46	99	0	5	24	-125	48	99	0	8	8	210	219	99	1	0	22	-91	134	99
0	1	26	48	3	99	0	3	24	330	325	99	0	6	0	283	298	99	0	8	9	181	164	99	1	0	23	385	393	99
0	1	27	118	24	99	0	3	25	150	126	99	0	6	1	206	189	99	0	8	10	184	164	99	1	0	24	94	167	99
0	1	28	286	317	99	0	3	26	-98	10	99	0	6	2	97	130	99	0	8	11	300	284	99	1	0	25	122	128	99
0	2	0	483	474	99	0	4	0	62	13	99	0	6	3	167	185	99	0	8	12	111	118	99	1	0	26	473	459	99
0	2	1	551	553	99	0	4	1	589	591	99	0	6	4	476	462	99	0	8	13	298	313	99	1	0	27	-217	155	99
0	2	2	566	581	99	0	4	2	124	103	99	0	6	5	-58	56	99	0	8	14	439	428	99	1	0	28	82	53	99
0	2	3	1278	1276	99	0	4	3	624	629	99	0	6	6	97	177	99	0	8	15	-73	41	99	1	1	0	1082	1092	99
0	2	4	951	933	99	0	4	4	715	749	99	0	6	7	131	171	99	0	8	16	233	261	99	1	1	1	392	397	99
0	2	5	234	244	99	0	4	5	260	250	99	0	6	8	179	181	99	0	8	17	-161	144	99	1	1	2	857	869	99
0	2	6	17	56	99	0	4	6	327	302	99	0	6	9	101	311	99	0	8	18	107	160	99	1	1	3	1601	1596	99
0	2	7	457	465	99	0	4	7	1437	1419	99	0	6	10	-177	44	99	0	9	0	510	503	99	1	1	4	537	533	99
0	2	8	508	534	99	0	4	8	172	151	99	0	6	11	342	349	99	0	9	1	122	171	99	1	1	5	525	514	99
0	2	9	373	372	99	0	4	9	54	55	99	0	6	12	81	90	99	0	9	2	151	176	99	1	1	6	922	914	99
0	2	10	161	145	99	0	4	10	1209	1216	99	0	6	13	-132	9	99	0	9	3	407	409	99	1	1	7	185	179	99
0	2	11	129	126	99	0	4	11	-76	94	99	0	6	14	245	268	99	0	9	4	222	230	99	1	1	8	340	333	99
0	2	12	191	191	99	0	4	12	70	75	99	0	6	15	318	322	99	0	9	5	92	66	99	1	1	9	351	369	99
0	2	13	-81	114	99	0	4	13	501	492	99	0	6	16	207	188	99	0	9	6	394	395	99	1	1	10	586	597	99
0	2	14	287	304	99	0	4	14	98	160	99	0	6	17	-141	8	99	0	9	7	103	47	99	1	1	11	282	295	99
0	2	15	225	215	99	0	4	15	321	321	99	0	6	18	-61	50	99	0	9	8	196	196	99	1	1	12	566	564	99
0	2	16	239	200	99	0	4	16	538	510	99	0	6	19	263	236	99	0	9	9	279	274	99	1	1	13	229	228	99
0	2	17	334	358	99	0	4	17	51	6	99	0	6	20	91	65	99	0	9	10	23	12	99	1	1	14	201	236	99
0	2	18	351	367	99	0	4	18	164	155	99	0	6	21	-74	42	99	0	9	11	173	154	99	1	1	15	520	517	99
0	2	19	157	148	99	0	4	19	554	563	99	0	6	22	71	14	99	0	9	12	307	282	99	1	1	16	407	408	99
0	2	20	137	95	99	0	4	20	-66	161	99	0	6	23	168	148	99	0	9	13	-140	79	99	1	1	17	213	198	99
1	1	18	273	263	99	1	3	17	398	417	99	1	5	19	217	226	99	1	8	7	392	385	99	2	1	3	241	220	99
1	1	19	370	343	99	1	3	18	240	219	99	1	5	20	235	240	99	1	8	8	205	201	99	2	1	4	611	597	99
1	1	20	297	306	99	1	3	19	172	189	99	1	5	21	192	193	99	1	8	9	-96	71	99	2	1	5	197	213	99
1	1	21	216	208	99	1	3	20	726	714	99	1	5	22	242	249	99	1	8	10	465	473	99	2	1	6	325	322	99
1	1	22	160	164	99	1	3	21	187	187	99	1	5	23	86	215	99	1	8	11	209	169	99	2	1	7	378	363	99
1	1	23	130	198	99	1	3	22	183	196	99	1	6	0	-111	115	99	1	8	12	271	283	99	2	1	8	757	737	99
1	1	24	253	285	99	1	3	23	349	340	99	1	6	1	293	286	99	1	8	13	269	231	99	2	1	9	39	106	99
1	1	25	101	23	99	1	3	24	65	12	99	1	6	2	465	458	99	1	8	14	124	99	99	2	1	10	489	490	99
1	1	26	155	78	99	1	3	25	-42	38	99	1	6	3	538	529	99	1	8	15	157	162	99	2	1	11	486	471	99
1	1	27	151	211	99	1	3	26	80	152	99	1	6	4	77	23	99	1	8	16	392	373	99	2	1	12	324	328	99
1	2	0	550	529	99	1	4	0	714	728	99	1	6	5	279	277	99	1	9	0	201	199	99	2	1	13	233	227	99
1	2	1	684	669	99	1	4	1	112	116	99	1	6	6	424	421	99	1	9	1	46	116	99	2	1	14	543	533	99
1	2	2	839	830	99	1	4	2	373	394	99	1	6	7	235	209	99	1	9	2	172	201	99	2	1	15	47	20	99
1	2	3	576	568	99	1	4	3	752	742	99	1	6	8	39	98	99	1	9	3	170	176	99	2	1	16	352	349	99
1	2	4	669	648	99	1	4	4	231	246	99	1	6	9	263	266	99	1	9	4	139	194	99	2	1	17	536	524	99
1	2	5	375	367	99	1	4	5	281	280	99	1	6	10	193	204	99	1	9	5	-68	129	99	2	1	18	242	231	99
1	2	6	-40	38	99	1	4	6	679	700	99	1	6	11	249	227	99	1	9	6	161	85	99	2	1	19	221	186	99
1	2	7	863	872	99	1	4	7	431	427	99	1	6	12	265	268	99	1	9	7	387	402	99	2	1	20	-67	147	99
1	2	8	321	317	99	1	4	8	496	479	99	1	6	13	249	283	99	1	9	8	167	172	99	2	1	21	-35	81	99
1	2	9	-80	66	99	1	4	9	768	808	99	1	6	14	29	124	99	1	9	9	35	143	99	2	1	22	121	191	99
1	2	10	718	736	99	1	4	10	475	466	99	1	6	15	147	173	99	1	9	10	225	231	99	2	1	23	300	326	99
1	2	11	312	302	99	1	4	11	567	542	99	1	6	16	94	103	99	1	9	11	196	211	99	2	1	24	130	261	99
1	2	12	100	140	99	1	4	12	621	607	99	1	6	17	94	255	99	1	9	12	159	124	99	2	1	25	-152	40	99
1	2	13	418	425	99	1	4	13	339	331	99	1	6	18	203	183	99	1	10	0	-153	62	99	2	1	26	101	197	99
1	2	14	363	349	99	1	4	14	299	277	99	1	6	19	-161	99	99	1	10	1	154	170	99	2	1	27	74	81	99
1	2	15	184	193	99	1	4	15	453	438	99	1	6	20	112	136	99	1	10	2	-129	109	99	2	2	0	358	370	99
1	2	16	258	246	99	1	4	16	255	250	99	1	6	21	-89	25	99	2	0	1	110	120	99	2	2	1	156	142	99
1	2	17	308	302	99	1	4	17	193	160	99	1	6	22	134	113	99	2	0	2	728	752	99	2	2	2	457	445	99
1	2	18	195	206	99	1	4	18	391	393	99	1	7	0	663	647	99	2	0	3	830	858	99	2	2	3	673	695	99
1	2	19	323	324	99	1	4	19	196	216	99	1	7	1	39	131	99	2	0	4	173	177	99	2	2	4	461	461	99
1	2	20	201	188	99	1	4	20	93	103	99	1	7	2	309	296	99	2	0	5	801	811	99	2	2	5	447	436	99
1	2	21	104	197	99	1	4	21	482	483	99	1	7	3	514	504	99	2	0	6	-90	23	99	2	2	6	709	707	99
1	2	22	396	381	99	1	4	22	232	260	99	1	7	4	326	319	99	2	0	7	609	635	99	2	2	7	616	576	99
1	2	23	219	206	99	1	4	23	148	155	99	1	7	5	25	108	99	2	0	8	477	489	99	2	2	8	542	521	99
1	2	24	-140	51	99	1	4	24	434	444	99	1	7	6	-155	116	99	2	0	9	604	597	99	2	2	9	329	327	99
1	2	25	170	184	99	1	4	25	176	100	99	1	7	7	293	328	99	2	0	10	1017	1002	99	2	2	10	398	393	99
1	2	26	127	113	99	1	5	0	405	410	99	1	7	8	147	154	99	2	0	11	374	378	99	2	2	11	111	137	99
1	2	27	151	23	99	1	5	1	181	200	99	1	7	9	213	122	99	2	0	12	463	474	99	2	2	12	259	257	99
1	3	0	327	322	99	1	5	2	100	211	99	1	7	10	34	48	99	2	0	13	627	635	99	2	2	13	195	217	99
1	3	1	650	653	99	1	5	3	152	146	99	1	7	11	111	179	99	2	0	14	101	131	99	2	2	14	303	305	99
1	3	2	474	483	99	1	5	4	478	470	99	1	7	12	424	433	99	2	0	15	-139	44	99	2	2	15	140	126	99
1	3	3	57	21	99	1	5	5	393	389	99	1	7	13	-104	65	99	2	0	16	221	224	99	2	2	16	54	166	99
1	3	4	242	230	99	1	5	6	201	196	99	1	7	14	279	283	99	2	0	17	436	441	99	2	2	17	434	455	99
1	3	5	803	846	99	1	5	7	571	565	99	1	7	15	314	301	99	2	0	18	251	232	99	2	2	18	390	374	99
1	3	6	548	552	99	1	5	8	231	237	99	1	7	16	262	211	99	2	0	19	340	361	99	2	2	19	-38	169	99
1	3	7	188	185	99	1	5	9	439	417	99	1	7	17	107	75	99	2	0	20	326	303	99	2	2	20	-133	75	99
1	3	8	915	928	99	1	5	10	599	559	99	1	7	18	102	161	99	2	0	21	-111	68	99	2	2	21	366	366	99
1	3	9	292	298	99	1	5	11	382	380	99	1	7	19	169	180	99	2	0	22	149	99	99	2	2	22	241	248	99
1	3	10	287	294	99	1	5	12	428	434	99	1	8	0	44	142	99	2	0	23	398	398	99	2	2	23	-41	57	99
1	3	11	600	615	99	1	5	13	350	367	99	1	8	1	408	388	99	2	0	24	99	154	99	2	2	24	295	283	99
1	3	12	199	200	99	1	5	14	33	51	99	1	8	2	-130	155	99	2	0	25	132	165	99	2	2	25	213	201	99
1	3	13	233	237	99	1	5	15	119	199	99	1	8	3	-134	105	99	2	0	26	-106	60	99	2	2	26	-80	95	99
1	3	14	386	371	99	1	5	16	231	186	99	1	8	4	369	373	99	2	0	27	101	27	99	2	3	0	499	487	99
1	3	15	231	239	99	1	5	17	345	325	99	1	8	5	251	216	99	2	1	1	43	55	99	2	3	1	732	725	99
1	3	16	468	464	99	1	5	18	87	65	99	1	8	6	186	109	99	2	1	2	533	529	99	2	3	2	249	248	99

h	k	l	Fo	Fc	sigF2
2	3	3	198	197	99
2	3	4	788	780	99
2	3	5	299	296	99
2	3	6	358	359	99
2	3	7	553	574	99
2	3	8	386	378	99
2	3	9	-99	28	99
2	3	10	399	382	99
2	3	11	207	224	99
2	3	12	231	253	99
2	3	13	752	745	99
2	3	14	370	365	99
2	3	15	280	308	99
2	3	16	461	447	99
2	3	17	178	218	99
2	3	18	164	136	99
2	3	19	327	349	99
2	3	20	222	246	99
2	3	21	18	102	99
2	3	22	210	207	99
2	3	23	155	144	99
2	3	24	-223	152	99
2	3	25	205	230	99
2	4	0	427	436	99
2	4	1	352	344	99
2	4	2	451	452	99
2	4	3	532	517	99
2	4	4	260	248	99
2	4	5	275	287	99
2	4	6	434	425	99
2	4	7	396	389	99
2	4	8	440	442	99
2	4	9	283	289	99
2	4	10	309	311	99
2	4	11	504	502	99
2	4	12	452	453	99
2	4	13	-175	142	99
2	4	14	407	391	99
2	4	15	53	124	99
2	4	16	90	186	99
2	4	17	346	352	99
2	4	18	84	62	99
2	4	19	157	128	99
2	4	20	325	323	99
2	4	21	241	193	99
2	4	22	-66	148	99
2	4	23	259	272	99
2	4	24	-87	176	99
2	5	0	409	410	99
2	5	1	304	296	99
2	5	2	78	202	99
2	5	3	338	352	99
2	5	4	418	406	99
2	5	5	403	392	99
2	5	6	594	578	99
2	5	7	327	338	99
2	5	8	356	354	99
2	5	9	402	389	99
2	5	10	234	190	99
2	5	11	86	149	99
2	5	12	152	132	99
2	5	13	361	360	99
2	5	14	399	408	99
2	5	15	299	304	99
2	5	16	239	239	99
2	5	17	-108	148	99
2	5	18	312	333	99
2	5	19	92	187	99
2	5	20	254	251	99
2	5	21	133	264	99
2	5	22	-183	131	99
2	6	0	431	403	99
2	6	1	536	549	99
2	6	2	383	386	99
2	6	3	274	257	99
2	6	4	463	472	99
2	6	5	335	331	99
2	6	6	-72	154	99
2	6	7	269	257	99
2	6	8	-28	138	99
2	6	9	246	251	99
2	6	10	212	206	99
2	6	11	100	175	99
2	6	12	177	213	99
2	6	13	435	424	99
2	6	14	364	353	99
2	6	15	-105	84	99
2	6	16	324	303	99
2	6	17	209	242	99
2	6	18	107	105	99
2	6	19	-163	111	99
2	6	20	222	215	99
2	7	0	243	248	99
2	7	1	232	205	99
2	7	2	349	359	99
2	7	3	314	322	99
2	7	4	493	512	99
2	7	5	-37	88	99
2	7	6	341	320	99
2	7	7	281	278	99
2	7	8	354	387	99
2	7	9	241	212	99
2	7	10	105	134	99
2	7	11	381	385	99
2	7	12	278	267	99
2	7	13	181	126	99
2	7	14	362	304	99
2	7	15	-56	157	99
2	7	16	-158	107	99
2	7	17	151	125	99
2	8	0	258	250	99
2	8	1	221	214	99
2	8	2	-92	76	99
2	8	3	298	287	99
2	8	4	229	224	99
2	8	5	241	227	99
2	8	6	326	296	99
2	8	7	295	279	99
2	8	8	-170	93	99
2	8	9	220	206	99
2	8	10	283	296	99
2	8	11	-35	146	99
2	8	12	213	222	99
2	8	13	183	182	99
2	8	14	105	60	99
2	9	0	119	120	99
2	9	1	114	107	99
2	9	2	231	224	99
2	9	3	192	194	99
2	9	4	100	150	99
2	9	5	250	228	99
2	9	6	197	202	99
2	9	7	-99	151	99
2	9	8	92	148	99
3	0	1	400	387	99
3	0	2	64	42	99
3	0	3	1223	1253	99
3	0	4	414	403	99
3	0	5	591	580	99
3	0	6	1084	1083	99
3	0	7	590	559	99
3	0	8	800	766	99
3	0	9	281	297	99
3	0	10	786	745	99
3	0	11	76	104	99
3	0	12	139	161	99
3	0	13	-41	119	99
3	0	14	-62	8	99
3	0	15	655	647	99
3	0	16	130	87	99
3	0	17	237	203	99
3	0	18	455	439	99
3	0	19	93	79	99
3	0	20	-50	29	99
3	0	21	311	317	99
3	0	22	111	9	99
3	0	23	197	139	99
3	0	24	188	134	99
3	0	25	220	228	99
3	0	26	-124	99	99
3	1	1	900	898	99
3	1	2	398	391	99
3	1	3	562	531	99
3	1	4	911	900	99
3	1	5	76	24	99
3	1	6	230	232	99
3	1	7	1253	1228	99
3	1	8	280	270	99
3	1	9	294	294	99
3	1	11	412	413	99
3	1	12	101	119	99
3	1	13	437	448	99
3	1	14	107	107	99
3	1	15	232	228	99
3	1	16	555	570	99
3	1	17	54	47	99
3	1	18	365	374	99
3	1	19	595	576	99
3	1	20	135	236	99
3	1	21	-121	100	99
3	1	22	236	210	99
3	1	23	253	218	99
3	1	24	137	156	99
3	1	25	-163	105	99
3	1	26	126	147	99
3	2	1	535	535	99
3	2	2	888	899	99
3	2	3	505	498	99
3	2	4	685	660	99
3	2	5	621	598	99
3	2	6	223	197	99
3	2	7	270	267	99
3	2	8	654	632	99
3	2	9	418	415	99
3	2	10	144	160	99
3	2	11	353	336	99
3	2	12	410	421	99
3	2	13	387	378	99
3	2	14	515	505	99
3	2	15	145	154	99
3	2	16	276	277	99
3	2	17	585	565	99
3	2	18	61	88	99
3	2	19	292	258	99
3	2	20	509	502	99
3	2	21	231	212	99
3	2	22	115	68	99
3	2	23	236	246	99
3	2	24	110	181	99
3	2	25	-99	50	99
3	3	0	629	615	99
3	3	1	270	275	99
3	3	2	432	436	99
3	3	3	375	372	99
3	3	4	42	111	99
3	3	5	-40	71	99
3	3	6	336	309	99
3	3	7	35	114	99
3	3	8	-92	112	99
3	3	9	284	260	99
3	3	10	242	251	99
3	3	11	397	390	99
3	3	12	561	556	99
3	3	13	356	366	99
3	3	14	260	226	99
3	3	15	224	221	99
3	3	16	366	362	99
3	3	17	-25	16	99
3	3	18	216	236	99
3	3	19	178	160	99
3	3	20	26	75	99
3	3	21	215	236	99
3	3	22	-55	93	99
3	3	23	187	208	99
3	3	24	268	221	99
3	4	0	270	282	99
3	4	1	394	378	99
3	4	2	296	268	99
3	4	3	202	175	99
3	4	4	376	389	99
3	4	5	253	265	99
3	4	6	264	266	99
3	4	7	279	268	99
3	4	8	-92	38	99
3	4	9	284	284	99
3	4	10	545	545	99
3	4	11	235	238	99
3	4	12	209	259	99
3	4	13	-129	375	99
3	4	14	-61	180	99
3	4	15	83	81	99
3	4	16	166	126	99
3	4	17	-164	118	99
3	4	18	115	78	99
3	4	19	65	231	99
3	4	20	147	129	99
3	4	21	-83	89	99
3	4	22	243	178	99
3	4	23	132	109	99
3	5	0	309	315	99
3	5	1	400	402	99
3	5	2	568	557	99
3	5	3	298	274	99
3	5	4	246	253	99
3	5	5	617	622	99
3	5	6	89	124	99
3	5	7	137	149	99
3	5	8	313	346	99
3	5	9	-128	40	99
3	5	10	26	110	99
3	5	11	195	228	99
3	5	12	108	121	99
3	5	13	277	289	99
3	5	14	482	512	99
3	5	15	289	337	99
3	5	16	226	230	99
3	5	17	433	456	99
3	5	18	195	191	99
3	5	19	227	172	99
3	5	20	129	221	99
3	5	21	137	76	99
3	6	0	385	376	99
3	6	1	399	397	99
3	6	2	377	376	99
3	6	3	478	491	99
3	6	4	177	156	99
3	6	5	242	240	99
3	6	6	289	313	99
3	6	7	-12	120	99
3	6	8	303	288	99
3	6	9	319	329	99
3	6	10	264	258	99
3	6	11	291	277	99
3	6	12	173	200	99
3	6	13	168	201	99
3	6	14	317	325	99
3	6	15	281	304	99
3	6	16	191	224	99
3	6	17	226	273	99
3	6	18	-73	193	99
3	7	0	222	173	99
3	7	1	83	55	99
3	7	2	106	83	99
3	7	3	349	329	99
3	7	4	266	272	99
3	7	5	277	273	99
3	7	6	203	195	99
3	7	7	346	338	99
3	7	8	274	254	99
3	7	9	138	131	99
3	7	10	204	224	99
3	7	11	199	140	99
3	7	12	-47	53	99
3	7	13	202	221	99
3	7	14	117	213	99
3	7	15	265	257	99
3	8	0	252	235	99
3	8	1	146	173	99
3	8	2	182	190	99
3	8	3	137	124	99
3	8	4	-193	79	99
3	8	5	-64	137	99
3	8	6	42	82	99
3	8	7	-40	69	99
3	8	8	52	102	99
3	8	9	214	184	99
3	8	10	-186	46	99
4	0	1	203	191	99
4	0	2	1153	1185	99
4	0	3	229	227	99
4	0	4	278	294	99
4	0	5	1327	1349	99
4	0	6	701	698	99
4	0	7	137	103	99
4	0	8	655	696	99
4	0	9	155	170	99
4	0	10	263	284	99
4	0	11	737	760	99
4	0	12	89	106	99
4	0	13	-21	33	99
4	0	14	708	727	99
4	0	15	182	205	99
4	0	16	90	93	99
4	0	17	789	811	99
4	0	18	-112	50	99
4	0	19	99	152	99
4	0	20	748	750	99
4	0	21	232	235	99
4	0	22	110	85	99
4	0	23	340	339	99
4	0	24	250	243	99
4	0	25	126	153	99
4	0	26	227	224	99
4	1	1	512	498	99
4	1	2	228	247	99
4	1	3	742	761	99
4	1	4	181	170	99
4	1	5	543	530	99
4	1	6	1025	1012	99
4	1	7	28	133	99
4	1	8	251	268	99
4	1	9	622	613	99
4	1	10	294	284	99
4	1	11	255	288	99
4	1	12	273	244	99
4	1	13	63	159	99
4	1	14	107	136	99
4	1	15	490	486	99
4	1	16	311	301	99
4	1	17	53	111	99
4	1	18	491	492	99
4	1	19	83	23	99
4	1	20	-68	139	99
4	1	21	373	356	99
4	1	22	180	177	99
4	1	23	-19	71	99
4	1	24	342	303	99
4	1	25	-47	125	99
4	2	1	541	670	99
4	2	2	294	302	99
4	2	3	288	283	99
4	2	4	509	493	99
4	2	5	87	131	99
4	2	6	393	374	99
4	2	7	375	372	99
4	2	8	335	324	99
4	2	9	318	311	99
4	2	10	208	209	99
4	2	11	96	103	99
4	2	12	357	356	99
4	2	13	243	281	99
4	2	14	254	267	99
4	2	15	217	208	99
4	2	16	368	363	99
4	2	17	232	268	99
4	2	18	154	111	99
4	2	19	75	77	99
4	2	20	62	102	99
4	2	21	83	40	99
4	2	22	136	64	99
4	2	23	-78	44	99
4	2	24	235	262	99
4	3	1	173	194	99
4	3	2	493	476	99
4	3	3	88	30	99
4	3	4	183	183	99
4	3	5	294	275	99
4	3	6	270	269	99
4	3	7	96	68	99
4	3	8	353	354	99
4	3	9	251	247	99
4	3	10	366	367	99
4	3	11	262	250	99
4	3	12	85	104	99
4	3	13	173	164	99
4	3	14	372	369	99
4	3	15	45	128	99
4	3	16	193	185	99
4	3	17	344	318	99
4	3	18	212	244	99
4	3	19	-120	79	99
4	3	20	214	173	99
4	3	21	232	220	99
4	3	22	151	144	99
4	3	23	108	129	99
4	4	0	502	493	99
4	4	1	67	99	99
4	4	2	212	222	99
4	4	3	581	562	99
4	4	4	461	468	99
4	4	5	229	261	99
4	4	6	548	571	99
4	4	7	45	63	99
4	4	8	320	315	99
4	4	9	586	561	99
4	4	10	39	141	99
4	4	11	273	268	99
4	4	12	339	346	99
4	4	13	90	61	99
4	4	14	189	162	99
4	4	15	389	388	99
4	4	16	116	79	99
4	4	17	-137	24	99
4	4	18	324	316	99
4	4	19	-145	58	99
4	4	20	55	122	99
4	4	21	283	267	99
4	5	0	244	220	99
4	5	1	541	557	99
4	5	2	142	106	99
4	5	3	221	238	99
4	5	4	497	494	99
4	5	5	88	121	99
4	5	6	160	114	99
4	5	7	309	325	99
4	5	8	73	22	99
4	5	9	210	177	99
4	5	10	383	389	99
4	5	11	226	240	99
4	5	12	128	51	99
4	5	13	298	294	99
4	5	14	-124	93	99
4	5	15	272	261	99
4	5	16	351	360	99
4	5	17	-109	86	99
4	5	18	132	83	99
4	6	0	136	126	99
4	6	1	423	419	99
4	6	2	242	235	99
4	6	3	215	195	99
4	6	4	265	281	99
4	6	5	241	229	99
4	6	6	98	126	99
4	6	7	98	152	99
4	6	8	242	234	99
4	6	9	203	205	99
4	6	10	-66	101	99
4	6	11	109	67	99
4	6	12	103	106	99
4	6	13	235	239	99
4	6	14	139	130	99
4	6	15	-96	76	99
4	7	0	-98	52	99
4	7	1	-193	92	99
4	7	2	117	124	99
4	7	3	220	220	99
4	7	4	100	99	99
4	7	5	204	208	99
4	7	6	183	177	99
4	7	7	114	118	99
4	7	8	119	149	99
4	7	9	129	157	99
4	7	10	99	159	99
4	7	11	-83	33	99
4	8	0	-115	66	99
4	8	1	230	203	99
5	0	1	913	907	99
5	0	2	522	526	99
5	0	3	200	169	99
5	0	4	1322	1324	99
5	0	5	518	509	99
5	0	6	167	165	99
5	0	7	690	699	99
5	0	8	243	260	99
5	0	9	485	502	99
5	0	10	729	713	99
5	0	11	52	84	99
5	0	12	89	183	99
5	0	13	588	562	99
5	0	14	449	467	99
5	0	15	233	221	99
5	0	16	485	480	99
5	0	17	323	312	99
5	0	18	-108	42	99
5	0	19	414	434	99
5	0	20	-168	46	99
5	0	21	-100	24	99
5	0	22	273	272	99
5	0	23	-68	53	99
5	0	24	108	35	99
5	1	1	182	164	99
5	1	2	488	496	99
5	1	3	610	614	99
5	1	4	108	177	99
5	1	5	637	618	99
5	1	6	556	555	99
5	1	7	203	192	99
5	1	8	247	210	99
5	1	9	251	259	99
5	1	10	351	352	99
5	1	11	267	272	99
5	1	12	180	176	99
5	1	13	218	226	99
5	1	14	435	425	99
5	1	15	391	386	99
5	1	16	28	128	99
5	1	17	390	368	99
5	1	18	173	215	99
5	1	19	146	46	99
5	1	20	263	238	99
5	1	21	-96	126	99
5	1	22	104	100	99
5	1	23	131	133	99
5	2	1	137	177	99
5	2	2	213	226	99
5	2	3	337	342	99
5	2	4	137	133	99
5	2	5	204	240	99
5	2	6	227	209	99
5	2	7	473	472	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	2	8	322	325	99	5	5	1	-50	135	99	6	0	22	116	117	99	6	3	12	141	341	99	7	0	16	105	114	99
5	2	9	367	339	99	5	5	2	221	224	99	6	0	23	-23	46	99	6	3	13	142	346	99	7	0	17	216	267	99
5	2	10	396	394	99	5	5	3	241	224	99	6	1	1	231	237	99	6	3	14	-98	140	99	7	0	18	32	58	99
5	2	11	248	244	99	5	5	4	41	88	99	6	1	2	497	474	99	6	3	15	229	225	99	7	0	19	-141	41	99
5	2	12	370	341	99	5	5	5	189	216	99	6	1	3	348	311	99	6	3	16	39	79	99	7	0	20	28	106	99
5	2	13	384	364	99	5	5	6	213	237	99	6	1	4	126	128	99	6	3	17	126	149	99	7	0	21	-110	11	99
5	2	14	109	36	99	5	5	7	61	63	99	6	1	5	92	102	99	6	3	18	270	290	99	7	1	1	288	304	99
5	2	15	174	158	99	5	5	8	91	60	99	6	1	6	176	222	99	6	4	1	-13	202	99	7	1	2	78	59	99
5	2	16	206	215	99	5	5	9	48	152	99	6	1	7	639	622	99	6	4	2	204	187	99	7	1	3	436	432	99
5	2	17	189	191	99	5	5	10	365	379	99	6	1	8	-35	52	99	6	4	3	313	291	99	7	1	4	-22	179	99
5	2	18	208	145	99	5	5	11	-68	82	99	6	1	9	629	629	99	6	4	4	143	162	99	7	1	5	351	361	99
5	2	19	199	189	99	5	5	12	111	165	99	6	1	10	254	236	99	6	4	5	285	315	99	7	1	6	216	181	99
5	2	20	-75	149	99	5	5	13	265	225	99	6	1	11	-70	18	99	6	4	6	-144	94	99	7	1	7	-145	65	99
5	2	21	193	150	99	5	5	14	275	260	99	6	1	12	187	183	99	6	4	7	364	333	99	7	1	8	359	351	99
5	2	22	-137	129	99	5	5	15	103	179	99	6	1	13	329	304	99	6	4	8	-77	117	99	7	1	9	210	206	99
5	3	1	437	426	99	5	5	16	-219	119	99	6	1	14	238	194	99	6	4	9	105	44	99	7	1	10	-60	62	99
5	3	2	127	131	99	5	6	0	325	336	99	6	1	15	220	205	99	6	4	10	210	198	99	7	1	11	79	181	99
5	3	3	334	336	99	5	6	1	137	145	99	6	1	16	246	264	99	6	4	11	283	263	99	7	1	12	352	365	99
5	3	4	280	287	99	5	6	2	241	262	99	6	1	17	254	220	99	6	4	12	-83	94	99	7	1	13	-130	123	99
5	3	5	277	252	99	5	6	3	45	160	99	6	1	18	65	142	99	6	4	13	170	156	99	7	1	14	126	76	99
5	3	6	130	176	99	5	6	4	36	107	99	6	1	19	71	111	99	6	4	14	121	169	99	7	1	15	331	325	99
5	3	7	372	386	99	5	6	5	26	37	99	6	1	20	75	112	99	6	4	15	99	90	99	7	1	16	193	175	99
5	3	8	174	178	99	5	6	6	205	203	99	6	1	21	273	241	99	6	5	1	281	307	99	7	1	17	104	110	99
5	3	9	343	353	99	5	6	7	162	155	99	6	1	22	191	180	99	6	5	2	98	109	99	7	1	18	163	87	99
5	3	10	469	456	99	5	6	8	46	222	99	6	2	1	186	167	99	6	5	3	130	108	99	7	1	19	-93	43	99
5	3	11	255	268	99	5	6	9	-48	77	99	6	2	2	191	201	99	6	5	4	230	250	99	7	2	1	239	253	99
5	3	12	290	311	99	5	6	10	-185	34	99	6	2	3	331	333	99	6	5	5	96	97	99	7	2	2	71	85	99
5	3	13	449	474	99	5	6	11	186	234	99	6	2	4	129	184	99	6	5	6	-67	101	99	7	2	3	372	356	99
5	3	14	131	146	99	5	6	12	226	193	99	6	2	5	311	298	99	6	5	7	-127	117	99	7	2	4	326	318	99
5	3	15	44	106	99	5	7	0	198	166	99	6	2	6	365	354	99	6	5	8	222	221	99	7	2	5	269	269	99
5	3	16	265	280	99	5	7	1	116	49	99	6	2	7	532	552	99	6	5	9	191	173	99	7	2	6	442	411	99
5	3	17	-98	135	99	5	7	2	290	344	99	6	2	8	351	338	99	6	5	10	-74	105	99	7	2	7	379	381	99
5	3	18	94	105	99	5	7	3	114	61	99	6	2	9	98	225	99	6	5	11	63	84	99	7	2	8	351	373	99
5	3	19	153	136	99	5	7	4	117	76	99	6	2	10	249	245	99	6	5	12	272	271	99	7	2	9	71	79	99
5	3	20	101	80	99	6	0	1	371	382	99	6	2	11	545	531	99	6	6	0	202	192	99	7	2	10	305	286	99
5	3	21	168	181	99	6	0	2	590	557	99	6	2	12	322	301	99	6	6	1	207	205	99	7	2	11	191	205	99
5	4	1	67	32	99	6	0	3	753	755	99	6	2	13	-47	168	99	6	6	2	-182	146	99	7	2	12	89	135	99
5	4	2	350	338	99	6	0	4	358	359	99	6	2	14	277	253	99	6	6	3	114	121	99	7	2	13	263	226	99
5	4	3	119	130	99	6	0	5	241	228	99	6	2	15	63	121	99	6	6	4	157	161	99	7	2	14	159	172	99
5	4	4	202	165	99	6	0	6	287	239	99	6	2	16	103	113	99	6	6	5	158	129	99	7	2	15	87	222	99
5	4	5	540	519	99	6	0	7	-69	16	99	6	2	17	97	61	99	7	0	1	156	126	99	7	2	16	212	237	99
5	4	6	114	105	99	6	0	8	116	16	99	6	2	18	120	15	99	7	0	2	309	330	99	7	2	17	99	147	99
5	4	7	162	155	99	6	0	9	84	36	99	6	2	19	268	280	99	7	0	3	108	94	99	7	3	1	258	241	99
5	4	8	297	308	99	6	0	10	291	239	99	6	2	20	-273	62	99	7	0	4	79	88	99	7	3	2	281	259	99
5	4	9	214	159	99	6	0	11	53	75	99	6	3	1	335	328	99	7	0	5	233	263	99	7	3	3	248	249	99
5	4	10	-118	69	99	6	0	12	220	199	99	6	3	2	244	234	99	7	0	6	416	414	99	7	3	4	277	264	99
5	4	11	429	411	99	6	0	13	472	479	99	6	3	3	405	408	99	7	0	7	-93	65	99	7	3	5	267	239	99
5	4	12	186	210	99	6	0	14	-142	136	99	6	3	4	218	192	99	7	0	8	176	198	99	7	3	6	263	284	99
5	4	13	103	54	99	6	0	15	167	224	99	6	3	5	-148	65	99	7	0	9	-72	97	99	7	3	7	217	244	99
5	4	14	380	378	99	6	0	16	218	213	99	6	3	6	332	322	99	7	0	10	381	366	99	7	3	8	314	300	99
5	4	15	20	89	99	6	0	17	170	155	99	6	3	7	420	429	99	7	0	11	298	290	99	7	3	9	348	369	99
5	4	16	-73	100	99	6	0	18	131	231	99	6	3	8	-21	104	99	7	0	12	-135	74	99	7	3	10	168	151	99
5	4	17	280	312	99	6	0	19	-45	189	99	6	3	9	404	394	99	7	0	13	134	141	99	7	3	11	-75	209	99
5	4	18	20	93	99	6	0	20	23	52	99	6	3	10	366	393	99	7	0	14	307	295	99	7	3	12	98	137	99
5	5	0	285	281	99	6	0	21	-164	132	99	6	3	11	172	188	99	7	0	15	120	52	99	7	3	13	206	172	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
7	3	14	-21	82	99	8	2	5	218	197	99	-3	3	27	372	354	99
7	3	15	94	40	99	8	2	6	193	220	99	-4	9	19	268	302	99
7	4	1	83	64	99	8	2	7	134	196	99	-5	9	19	139	143	99
7	4	2	122	110	99	8	2	8	212	198	99	10	0	1	93	125	99
7	4	3	149	139	99	8	2	9	231	220	99	10	0	2	81	136	99
7	4	4	120	155	99	8	2	10	-47	122	99	10	0	3	-105	70	99
7	4	5	-90	121	99	8	2	11	244	228	99	10	0	4	179	159	99
7	4	6	76	194	99	8	2	12	221	197	99	10	0	5	128	116	99
7	4	7	-108	97	99	8	2	13	-154	87	99	10	0	6	372	410	99
7	4	8	216	161	99	8	2	14	206	215	99	10	0	7	98	10	99
7	4	9	285	281	99	8	3	1	187	138	99	10	0	8	133	50	99
7	4	10	139	149	99	8	3	2	92	48	99	10	0	9	-13	100	99
7	4	11	78	63	99	8	3	3	309	315	99	10	1	1	107	138	99
7	5	1	101	103	99	8	3	4	109	144	99	10	1	2	192	170	99
7	5	2	168	129	99	8	3	5	-64	38	99						
7	5	3	-71	117	99	8	3	6	186	153	99						
7	5	4	-236	90	99	8	3	7	102	164	99						
8	0	1	520	536	99	8	3	8	101	21	99						
8	0	2	325	314	99	8	3	9	-67	85	99						
8	0	3	-199	68	99	8	3	10	-121	220	99						
8	0	4	569	565	99	8	4	1	45	133	99						
8	0	5	158	139	99	9	0	1	176	179	99						
8	0	6	117	118	99	9	0	2	-71	25	99						
8	0	7	111	121	99	9	0	3	241	252	99						
8	0	8	36	125	99	9	0	4	-78	157	99						
8	0	9	235	277	99	9	0	5	110	18	99						
8	0	10	508	483	99	9	0	6	362	377	99						
8	0	11	285	359	99	9	0	7	197	155	99						
8	0	12	52	69	99	9	0	8	127	110	99						
8	0	13	467	467	99	9	0	9	224	200	99						
8	0	14	150	274	99	9	0	10	-24	30	99						
8	0	15	113	90	99	9	0	11	127	70	99						
8	0	16	253	243	99	9	0	12	320	316	99						
8	0	17	-61	42	99	9	0	13	11	145	99						
8	0	18	-189	12	99	9	0	14	-40	14	99						
8	1	1	88	80	99	9	1	1	254	220	99						
8	1	2	343	314	99	9	1	2	204	201	99						
8	1	3	-85	28	99	9	1	3	75	117	99						
8	1	4	350	323	99	9	1	4	159	205	99						
8	1	5	269	261	99	9	1	5	321	337	99						
8	1	6	196	217	99	9	1	6	-112	128	99						
8	1	7	272	266	99	9	1	7	189	193	99						
8	1	8	330	296	99	9	1	8	249	256	99						
8	1	9	-65	178	99	9	1	9	-98	83	99						
8	1	10	75	208	99	9	1	10	255	257	99						
8	1	11	310	324	99	9	1	11	-113	54	99						
8	1	12	66	104	99	9	1	12	37	61	99						
8	1	13	-138	38	99	9	2	1	273	270	99						
8	1	14	269	251	99	9	2	2	-71	156	99						
8	1	15	122	74	99	9	2	3	275	242	99						
8	1	16	119	74	99	9	2	4	161	167	99						
8	2	1	139	136	99	9	2	5	-73	139	99						
8	2	2	274	271	99	9	2	6	224	208	99						
8	2	3	317	307	99	9	2	7	147	155	99						
8	2	4	-167	139	99	-3	4	10	628	611	99						

APPENDIX 6.I

$[Cd(S_2CNiPr_2)_2]$

Table 6.I.1: Crystallographic Parameters for $[Cd(S_2CN(CH(CH_3)_2)_2)_2]$

Formula	$C_{14}H_{28}CdN_2S_4$
Formula weight	465.04
Crystal morphology / colour	block / colourless
Crystal dimensions (mm)	0.16 x 0.16 x 0.32
Crystal system	monoclinic
Space group	$P2_1/n$ (#14)
a (Å)	11.611(5)
b (Å)	11.228(9)
c (Å)	16.767(2)
α (°)	90
β (°)	108.90(2)
γ (°)	90
V (Å^3)	2067(1)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.494
$F(000)$	952
Temperature (°K)	293
μ (cm^{-1})	14.57
θ limits, cell (°)	25.2 – 26.4
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 15, 0 – 13, -21 – 21
Range of transmission factors	0.933 – 1
Scan technique	ω:2θ
No. of data measured	5291
No. of unique data	5053
R_{amal}	0.104
No. of parameters	190
R (I≥0σ(I))	0.108
R_w (I≥0σ(I))	0.157
R (I≥3σ(I))	0.059
R_w (I≥3σ(I))	0.074
Maximum and minimum residual electron density (e Å^{-3})	2.71, -2.41

Table 6.I.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Cd(S_2CN(CH(CH_3)_2)_2)_2]$

Atom	*x*	*y*	*z*
Cd	0.09580(5)	0.07078(5)	0.44802(3)
S(1)	0.2577(2)	-0.0426(2)	0.5620(1)
S(2)	0.0306(2)	-0.1667(2)	0.4658(1)
S(3)	-0.0081(2)	0.0859(2)	0.2888(1)
S(4)	0.1971(2)	0.2381(2)	0.3862(1)
N(1)	0.2150(5)	-0.2711(5)	0.5862(3)
N(2)	0.0980(5)	0.2492(5)	0.2195(3)
C(1)	0.1737(6)	-0.1699(6)	0.5444(4)
C(2)	0.1401(7)	-0.3819(7)	0.5699(5)
C(3)	0.1847(9)	-0.4688(8)	0.5217(7)
C(4)	0.1277(9)	-0.431(1)	0.6531(8)
C(5)	0.3411(6)	-0.2855(7)	0.6482(5)
C(6)	0.4414(7)	-0.2681(8)	0.6077(5)
C(7)	0.3607(8)	-0.2154(8)	0.7289(5)
C(8)	0.0959(5)	0.1977(6)	0.2893(4)
C(9)	0.0126(7)	0.2214(8)	0.1329(4)
C(10)	0.0340(9)	0.0947(9)	0.1055(5)
C(11)	-0.1195(8)	0.2506(8)	0.1230(5)
C(12)	0.1888(7)	0.3468(7)	0.2209(4)
C(13)	0.2717(9)	0.310(1)	0.1714(6)
C(14)	0.126(1)	0.4665(9)	0.1937(8)

Table 6.I.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Cd(S_2CN(CH(CH_3)_2)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Cd	0.0420(3)	0.0441(3)	0.0361(3)	0.0072(2)	0.0164(2)	0.0101(2)
S(1)	0.045(1)	0.033(1)	0.070(1)	-0.0021(8)	-0.0027(9)	0.0071(9)
S(2)	0.0377(8)	0.040(1)	0.0311(8)	0.0031(7)	0.0095(6)	0.0033(7)
S(3)	0.047(1)	0.041(1)	0.0388(9)	-0.0105(8)	0.0112(7)	0.0047(8)
S(4)	0.052(1)	0.060(1)	0.0338(9)	-0.020(1)	0.0078(8)	0.0031(8)
N(1)	0.033(3)	0.034(3)	0.046(3)	0.005(2)	0.007(2)	0.008(3)
N(2)	0.047(3)	0.042(4)	0.034(3)	-0.008(3)	0.014(2)	0.000(3)
C(1)	0.035(3)	0.046(4)	0.032(3)	0.002(3)	0.012(3)	0.000(3)
C(2)	0.041(4)	0.041(4)	0.077(6)	-0.002(4)	0.006(4)	0.015(4)
C(3)	0.076(7)	0.038(5)	0.135(9)	-0.005(5)	0.016(6)	-0.021(6)
C(4)	0.069(6)	0.100(9)	0.124(9)	-0.010(6)	0.023(6)	0.061(7)
C(5)	0.034(4)	0.050(5)	0.053(4)	0.007(3)	0.005(3)	0.016(4)
C(6)	0.039(4)	0.052(5)	0.078(6)	0.007(4)	0.015(4)	-0.002(4)
C(7)	0.068(5)	0.075(6)	0.042(4)	0.008(5)	0.006(4)	0.006(4)
C(8)	0.034(3)	0.036(4)	0.034(3)	0.004(3)	0.014(3)	0.002(3)
C(9)	0.066(5)	0.058(5)	0.031(4)	-0.013(4)	0.011(3)	0.004(3)
C(10)	0.100(7)	0.071(7)	0.053(5)	-0.021(6)	0.036(5)	-0.019(5)
C(11)	0.072(6)	0.065(6)	0.056(5)	0.001(5)	-0.008(4)	0.006(4)
C(12)	0.062(5)	0.050(5)	0.045(4)	-0.021(4)	0.021(4)	0.003(4)
C(13)	0.075(6)	0.094(8)	0.085(7)	-0.024(6)	0.040(5)	0.019(6)
C(14)	0.088(8)	0.052(6)	0.16(1)	-0.015(6)	0.038(7)	0.017(7)

Table 6.I.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in [Cd($S_2CN(CH(CH_3)2)2)2$]*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.0606	-0.3597	0.5354	5.3107
H(3a)	0.1307	-0.5371	0.5087	8.2717
H(3b)	0.1871	-0.4325	0.4698	8.2717
H(3c)	0.2660	-0.4943	0.5549	8.2717
H(4a)	0.0954	-0.3689	0.6803	9.4320
H(4b)	0.0728	-0.4984	0.6408	9.4320
H(4c)	0.2070	-0.4554	0.6902	9.4320
H(5a)	0.3466	-0.3668	0.6647	4.5565
H(6a)	0.5198	-0.2882	0.6483	5.4118
H(6b)	0.4255	-0.3195	0.5588	5.4118
H(6c)	0.4422	-0.1857	0.5905	5.4118
H(7a)	0.4407	-0.2332	0.7682	6.1429
H(7b)	0.3548	-0.1309	0.7163	6.1429
H(7c)	0.2991	-0.2375	0.7538	6.1429
H(9a)	0.0346	0.2737	0.0957	4.9822
H(10a)	0.0121	0.0370	0.1411	6.8390
H(10b)	-0.0159	0.0822	0.0473	6.8390
H(10c)	0.1191	0.0852	0.1107	6.8390
H(11a)	-0.1256	0.3333	0.1378	6.7333
H(11b)	-0.1697	0.2373	0.0650	6.7333
H(11c)	-0.1471	0.1998	0.1599	6.7333
H(12a)	0.2390	0.3555	0.2779	4.8698
H(13a)	0.3118	0.2355	0.1939	7.7094
H(13b)	0.2238	0.2991	0.1126	7.7094
H(13c)	0.3325	0.3711	0.1762	7.7094

Table 6.I.4: Cont.

Atom	x	y	z	B_{eq}
H(14a)	0.1876	0.5276	0.1990	9.3803
H(14b)	0.0741	0.4617	0.1355	9.3803
H(14c)	0.0780	0.4865	0.2294	9.3803

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 6.I.5: Bond distances (Å) for [Cd($S_2CN(CH(CH_3)_2)_2)_2$]

Cd — S(1)	2.545(2)	N(2) — C(8)	1.313(8)
Cd — S(2)	2.814(2)	N(2) — C(9)	1.502(8)
Cd — S(2)*	2.603(2)	N(2) — C(12)	1.516(9)
Cd — S(3)	2.554(2)	C(2) — C(3)	1.47(1)
Cd — S(4)	2.604(2)	C(2) — C(4)	1.55(1)
S(1) — C(1)	1.701(7)	C(5) — C(6)	1.54(1)
S(2) — C(1)	1.755(6)	C(5) — C(7)	1.52(1)
S(3) — C(8)	1.739(7)	C(9) — C(10)	1.54(1)
S(4) — C(8)	1.730(6)	C(9) — C(11)	1.52(1)
N(1) — C(1)	1.340(8)	C(12) — C(13)	1.52(1)
N(1) — C(2)	1.491(9)	C(12) — C(14)	1.52(1)
N(1) — C(5)	1.505(8)		

* Symmetry operation: -*x*, -*y*, 1-*z*

Table 6.I.6: Bond angles (deg.) for [Cd($S_2CN(CH(CH_3)_2)_2)_2$]

S(1) — Cd — S(2)	66.75(6)	C(8) — N(2) — C(12)	121.2(5)
S(1) — Cd — S(2)*	101.67(7)	C(9) — N(2) — C(12)	113.8(5)
S(1) — Cd — S(3)	143.31(7)	S(1) — C(1) — S(2)	117.6(4)
S(1) — Cd — S(4)	109.92(7)	S(1) — C(1) — N(1)	122.3(5)
S(2) — Cd — S(2)*	96.54(5)	S(2) — C(1) — N(1)	120.1(5)
S(2) — Cd — S(3)	96.99(5)	N(1) — C(2) — C(3)	111.5(7)
S(2) — Cd — S(4)	153.86(6)	N(1) — C(2) — C(4)	110.5(7)
S(2)* — Cd — S(3)	113.11(6)	C(3) — C(2) — C(4)	114.4(8)
S(2)* — Cd — S(4)	109.34(7)	N(1) — C(5) — C(6)	112.9(6)
S(3) — Cd — S(4)	69.95(6)	N(1) — C(5) — C(7)	113.0(6)
Cd — S(1) — C(1)	92.7(2)	C(6) — C(5) — C(7)	114.3(7)
Cd — S(2) — Cd*	83.46(5)	S(3) — C(8) — S(4)	116.9(4)
Cd — S(2) — C(1)	82.9(2)	S(3) — C(8) — N(2)	121.9(5)
Cd — S(2) — C(1)	99.1(2)	S(4) — C(8) — N(2)	121.2(5)
Cd — S(3) — C(8)	87.2(2)	N(2) — C(9) — C(10)	111.2(7)
Cd — S(4) — C(8)	85.8(2)	N(2) — C(9) — C(11)	112.7(6)
C(1) — N(1) — C(2)	121.6(5)	C(10) — C(9) — C(11)	114.9(7)
C(1) — N(1) — C(5)	123.7(6)	N(2) — C(12) — C(13)	110.7(7)
C(2) — N(1) — C(5)	114.6(5)	N(2) — C(12) — C(14)	111.8(7)
C(8) — N(2) — C(9)	124.9(6)	C(13) — C(12) — C(14)	113.7(7)

* symmetry operation: *-x*, *-y*, 1-*z*

Table 6.I.7: Observed and calculated structure factors for $[Cd(S_2CN(CH(CH_3)_2)_2)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	4	146	141	99	0	3	7	294	320	99	0	6	2	258	224	99	0	9	3	441	418	99	0	13	1	208	209	99
0	0	6	1140	1094	99	0	3	8	641	624	99	0	6	3	617	556	99	0	9	4	71	66	99	0	13	2	138	127	99
0	0	8	1063	1097	99	0	3	9	417	402	99	0	6	4	309	280	99	0	9	5	94	84	99	0	13	3	157	147	99
0	0	10	842	836	99	0	3	10	145	145	99	0	6	5	817	792	99	0	9	6	689	672	99	0	13	4	201	203	99
0	0	12	1276	1275	99	0	3	11	132	120	99	0	6	6	608	574	99	0	9	7	424	406	99	0	13	5	75	101	99
0	0	14	54	74	99	0	3	12	851	852	99	0	6	7	194	193	99	0	9	8	123	89	99	0	13	6	177	154	99
0	0	16	47	10	99	0	3	13	263	266	99	0	6	8	344	322	99	0	9	9	532	545	99	0	13	7	42	76	99
0	0	18	470	463	99	0	3	14	616	623	99	0	6	9	24	27	99	0	9	10	184	187	99	0	13	8	75	89	99
0	0	20	193	187	99	0	3	15	328	334	99	0	6	10	180	165	99	0	9	11	330	326	99	0	13	9	69	62	99
0	1	2	1226	1178	99	0	3	16	142	152	99	0	6	11	245	223	99	0	9	12	260	249	99	0	14	0	-41	71	99
0	1	3	722	704	99	0	3	17	206	205	99	0	6	12	440	432	99	0	9	13	54	72	99	0	14	1	-81	14	99
0	1	4	871	895	99	0	3	18	177	177	99	0	6	13	408	405	99	0	9	14	186	188	99	0	14	2	49	40	99
0	1	5	632	595	99	0	3	19	84	83	99	0	6	14	97	92	99	0	9	15	37	21	99	0	14	3	76	101	99
0	1	6	342	355	99	0	3	20	74	66	99	0	6	15	233	231	99	0	9	16	90	76	99	0	14	4	45	35	99
0	1	7	1604	1584	99	0	4	0	614	605	99	0	6	16	177	187	99	0	10	0	421	413	99	0	14	5	128	113	99
0	1	8	348	344	99	0	4	1	860	834	99	0	6	17	39	38	99	0	10	1	218	226	99	0	14	6	-89	28	99
0	1	9	941	930	99	0	4	2	285	274	99	0	6	18	355	372	99	0	10	2	383	369	99	1	0	-21	-80	21	99
0	1	10	138	149	99	0	4	3	1560	1509	99	0	7	1	811	750	99	0	10	3	254	234	99	1	0	-19	279	261	99
0	1	11	969	984	99	0	4	4	888	839	99	0	7	2	137	122	99	0	10	4	41	36	99	1	0	-17	330	314	99
0	1	12	240	234	99	0	4	5	1760	1677	99	0	7	3	399	362	99	0	10	5	463	429	99	1	0	-15	429	409	99
0	1	13	157	154	99	0	4	6	247	250	99	0	7	4	218	208	99	0	10	6	215	200	99	1	0	-13	290	302	99
0	1	14	368	347	99	0	4	7	1085	1073	99	0	7	5	113	99	99	0	10	7	279	280	99	1	0	-11	1206	1174	99
0	1	15	151	132	99	0	4	8	535	527	99	0	7	6	-60	12	99	0	10	8	-21	110	99	1	0	-9	1189	1166	99
0	1	16	220	213	99	0	4	9	87	95	99	0	7	7	803	757	99	0	10	9	46	73	99	1	0	-7	1346	1312	99
0	1	17	221	196	99	0	4	10	271	270	99	0	7	8	39	42	99	0	10	10	172	169	99	1	0	-5	671	656	99
0	1	18	74	81	99	0	4	11	298	264	99	0	7	9	432	441	99	0	10	11	133	125	99	1	0	-3	1829	1904	99
0	1	19	354	341	99	0	4	12	161	153	99	0	7	10	286	265	99	0	10	12	-24	39	99	1	0	3	1246	1252	99
0	1	20	216	196	99	0	4	13	582	591	99	0	7	11	474	478	99	0	10	13	269	270	99	1	0	5	889	894	99
0	2	0	388	361	99	0	4	14	47	66	99	0	7	12	332	336	99	0	10	14	14	27	99	1	0	7	838	821	99
0	2	1	607	569	99	0	4	15	302	331	99	0	7	13	198	191	99	0	10	15	122	123	99	1	0	9	759	766	99
0	2	2	1166	1173	99	0	4	16	171	168	99	0	7	14	45	56	99	0	11	1	113	90	99	1	0	11	359	383	99
0	2	3	776	729	99	0	4	17	287	301	99	0	7	15	142	152	99	0	11	2	219	210	99	1	0	13	651	680	99
0	2	4	990	967	99	0	4	18	69	75	99	0	7	16	86	76	99	0	11	3	72	11	99	1	0	15	371	369	99
0	2	5	1297	1260	99	0	4	19	36	59	99	0	7	17	237	260	99	0	11	4	331	289	99	1	0	17	232	219	99
0	2	6	95	93	94	0	5	1	388	384	99	0	7	18	94	128	99	0	11	5	228	231	99	1	0	19	369	350	99
0	2	7	350	333	99	0	5	2	1298	1263	99	0	8	0	817	779	99	0	11	6	153	139	99	1	1	-21	88	94	99
0	2	8	1319	1269	99	0	5	3	258	231	99	0	8	1	423	436	99	0	11	7	-69	11	99	1	1	-20	192	190	99
0	2	9	165	165	99	0	5	4	1427	1373	99	0	8	2	644	619	99	0	11	8	56	74	99	1	1	-19	253	232	99
0	2	10	706	705	99	0	5	5	110	118	99	0	8	3	92	99	99	0	11	9	58	38	99	1	1	-18	378	345	99
0	2	11	128	126	99	0	5	6	964	953	99	0	8	4	490	446	99	0	11	10	99	107	99	1	1	-17	92	99	99
0	2	12	-44	59	99	0	5	7	298	291	99	0	8	5	355	332	99	0	11	11	126	103	99	1	1	-16	227	213	99
0	2	13	770	744	99	0	5	8	321	295	99	0	8	6	103	94	99	0	11	12	137	144	99	1	1	-15	42	53	99
0	2	14	248	235	99	0	5	9	336	309	99	0	8	7	282	254	99	0	11	13	59	91	99	1	1	-14	191	162	99
0	2	15	396	382	99	0	5	10	45	50	99	0	8	8	723	704	99	0	12	0	321	303	99	1	1	-13	944	899	99
0	2	16	269	262	99	0	5	11	388	364	99	0	8	9	257	258	99	0	12	1	59	67	99	1	1	-12	635	602	99
0	2	17	254	245	99	0	5	12	286	268	99	0	8	10	638	633	99	0	12	2	120	84	99	1	1	-11	-77	45	99
0	2	18	183	167	99	0	5	13	96	69	99	0	8	11	443	453	99	0	12	3	282	272	99	1	1	-10	693	645	99
0	2	19	47	42	99	0	5	14	374	379	99	0	8	12	304	321	99	0	12	4	199	168	99	1	1	-9	160	125	99
0	2	20	239	221	99	0	5	15	165	158	99	0	8	13	130	140	99	0	12	5	249	240	99	1	1	-8	1147	1182	99
0	3	1	40	16	62	0	5	16	313	326	99	0	8	14	37	36	99	0	12	6	57	12	99	1	1	-7	176	179	99
0	3	2	924	880	99	0	5	17	-65	20	99	0	8	15	63	88	99	0	12	7	157	165	99	1	1	-6	1055	1072	99
0	3	3	151	138	99	0	5	18	98	110	99	0	8	16	104	90	99	0	12	8	31	35	99	1	1	-5	264	278	99
0	3	4	984	976	99	0	5	19	159	175	99	0	8	17	193	195	99	0	12	9	79	79	99	1	1	-4	346	351	99
0	3	5	780	712	99	0	6	0	1446	1454	99	0	9	1	894	846	99	0	12	10	-72	62	99	1	1	-3	496	582	99
0	3	6	2009	2002	99	0	6	1	331	341	99	0	9	2	186	174	99	0	12	11	105	104	99	1	1	-2	185	214	99
1	1	1	1302	1296	99	1	2	16	216	224	99	1	4	-7	455	524	99	1	5	11	310	324	99	1	7	-9	66	78	99
1	1	2	1661	1675	99	1	2	17	130	122	99	1	4	-5	15	44	99	1	5	12	459	448	99	1	7	-8	603	644	99
1	1	3	124	103	76	1	2	18	242	231	99	1	4	-3	276	299	99	1	5	13	-15	32	99	1	7	-7	122	128	99
1	1	4	632	616	99	1	2	19	-136	38	99	1	4	-2	1096	1134	99	1	5	14	105	91	99	1	7	-6	438	460	99
1	1	5	745	727	99	1	3	-20	-54	73	99	1	4	-1	679	644	99	1	5	15	155	183	99	1	7	-5	103	84	99
1	1	6	79	78	87	1	3	-19	31	44	99	1	4	0	692	640	99	1	5	16	85	99	99	1	7	-4	315	331	99
1	1	7	326	309	99	1	3	-18	223	188	99	1	4	1	746	683	99	1	5	17	312	325	99	1	7	-3	227	217	99
1	1	8	396	417	99	1	3	-17	357	302	99	1	4	2	314	272	99	1	5	18	130	136	99	1	7	-2	202	219	99
1	1	9	352	344	99	1	3	-16	302	265	99	1	4	3	180	153	99	1	6	-19	338	267	99	1	7	-1	743	731	99
1	1	10	441	448	99	1	3	-15	325	303	99	1	4	4	452	431	99	1	6	-18	-59	36	99	1	7	0	1119	1036	99
1	1	11	129	132	99	1	3	-14	293	263	99	1	4	5	791	762	99	1	6	-17	418	341	99	1	7	1	239	226	99
1	1	12	749	771	99	1	3	-13	508	464	99	1	4	6	1272	1248	99	1	6	-16	-28	94	99	1	7	2	776	710	99
1	1	13	104	111	99	1	3	-12	233	233	99	1	4	7	-6	10	99	1	6	-15	579	542	99	1	7	3	-60	23	99
1	1	14	217	227	99	1	3	-11	555	550	99	1	4	8	702	696	99	1	6	-14	197	182	99	1	7	4	509	475	99
1	1	15	165	180	99	1	3	-10	121	105	99	1	4	9	-42	31	99	1	6	-13	180	178	99	1	7	5	286	285	99
1	1	16	165	155	99	1	3	-9	550	606	99	1	4	10	573	575	99	1	6	-12	292	283	99	1	7	6	137	150	99
1	1	17	273	273	99	1	3	-8	305	314	99	1	4	11	567	563	99	1	6	-11	299	302	99	1	7	7	58	67	99
1	1	18	111	128	99	1	3	-7	399	437	99	1	4	12	86	87	99	1	6	-10	114	100	99	1	7	8	261	250	99
1	1	19	28	25	99	1	3	-6	450	483	99	1	4	13	181	160	99	1	6	-9	469	501	99	1	7	9	170	190	99
1	1	20	179	191	99	1	3	-4	67	88	95	1	4	14	235	239	99	1	6	-8	138	188	99	1	7	10	322	309	99
1	2	-20	350	309	99	1	3	-2	198	251	99	1	4	15	31	43	99	1	6	-7	662	785	99	1	7	11	396	382	99
1	2	-19	377	318	99	1	3	-1	1052	986	99	1	4	16	215	230	99	1	6	-6	325	336	99	1	7	12	467	478	99
1	2	-18	49	38	99	1	3	0	745	664	99	1	4	17	48	89	99	1	6	-5	329	330	99	1	7	13	162	176	99
1	2	-17	234	210	99	1	3	1	906	831	99	1	4	18	277	280	99	1	6	-4	291	300	99	1	7	14	84	93	99
1	2	-16	-63	30	99	1	3	2	602	570	99	1	4	19	74	58	99	1	6	-3	544	546	99	1	7	15	38	41	99
1	2	-15	289	254	99	1	3	3	250	251	99	1	5	-19	175	134	99	1	6	-2	412	406	99	1	7	16	-61	17	99
1	2	-14	531	508	99	1	3	4	121	109	97	1	5	-18	262	225	99	1	6	-1	293	280	99	1	7	17	158	164	99
1	2	-13	222	199	99	1	3	5	908	881	99	1	5	-17	-18	5	99	1	6	0	202	184	99	1	8	-17	109	114	99
1	2	-12	679	660	99	1	3	6	309	288	99	1	5	-16	200	173	99	1	6	1	514	476	99	1	8	-16	40	48	99
1	2	-11	216	204	99	1	3	7	1180	1161	99	1	5	-15	357	302	99	1	6	2	341	311	99	1	8	-15	104	112	99
1	2	-10	351	325	99	1	3	8	-56	31	99	1	5	-14	259	224	99	1	6	3	681	623	99	1	8	-14	154	171	99
1	2	-9	338	359	99	1	3	9	501	504	99	1	5	-13	793	745	99	1	6	4	506	457	99	1	8	-13	-60	7	99
1	2	-8	342	356	99	1	3	10	-70	24	99	1	5	-12	-42	9	99	1	6	5	528	500	99	1	8	-12	179	150	99
1	2	-7	651	712	99	1	3	11	134	106	99	1	5	-11	227	214	99	1	6	6	261	248	99	1	8	-11	309	295	99
1	2	-6	791	843	99	1	3	12	206	199	99	1	5	-10	-43	12	99	1	6	7	393	390	99	1	8	-10	53	75	99
1	2	-5	328	369	99	1	3	13	506	534	99	1	5	-9	154	178	99	1	6	8	133	111	99	1	8	-9	323	317	99
1	2	-4	155	168	99	1	3	14	137	134	99	1	5	-8	593	637	99	1	6	9	184	178	99	1	8	-8	49	58	99
1	2	-3	155	203	99	1	3	15	175	201	99	1	5	-7	484	553	99	1	6	10	158	155	99	1	8	-7	674	731	99
1	2	-1	1105	1081	99	1	3	16	132	141	99	1	5	-6	637	782	99	1	6	11	246	240	99	1	8	-6	304	301	99
1	2	0	461	451	99	1	3	17	235	250	99	1	5	-5	492	646	99	1	6	12	24	5	99	1	8	-5	107	122	99
1	2	1	773	768	99	1	3	18	117	134	99	1	5	-4	139	160	99	1	6	13	215	226	99	1	8	-4	125	125	99
1	2	2	247	233	99	1	3	19	132	131	99	1	5	-3	843	924	99	1	6	14	120	131	99	1	8	-3	87	59	99
1	2	3	93	63	74	1	4	-20	147	130	99	1	5	-2	127	124	99	1	6	15	86	102	99	1	8	-2	552	560	99
1	2	4	366	351	99	1	4	-19	144	113	99	1	5	-1	1138	1072	99	1	6	16	81	87	99	1	8	-1	660	622	99
1	2	5	273	270	99	1	4	-18	-84	27	99	1	5	0	627	584	99	1	6	17	30	36	99	1	8	0	764	708	99
1	2	6	1021	998	99	1	4	-17	84	103	99	1	5	1	403	353	99	1	6	18	66	66	99	1	8	1	806	704	99
1	2	7	159	153	99	1	4	-16	254	229	99	1	5	2	22	24	99	1	7	-18	406	333	99	1	8	2	30	39	99
1	2	8	31	61	99	1	4	-15	75	94	99	1	5	3	620	618	99	1	7	-17	-109	31	99	1	8	3	482	443	99
1	2	9	189	198	99	1	4	-14	614	575	99	1	5	4	895	824	99	1	7	-16	342	293	99	1	8	4	309	274	99
1	2	10	191	192	99	1	4	-13	-52	64	99	1	5	5	957	930	99	1	7	-15	-58	24	99	1	8	5	460	443	99
1	2	11	727	739	99	1	4	-12	611	610	99	1	5	6	161	156	99	1	7	-14	373	357	99	1	8	6	721	701	99
1	2	12	303	292	99	1	4	-11	169	154	99	1	5	7	569	562	99	1	7	-13	141	186	99	1	8	7	158	142	99
1	2	13	-48	16	99	1	4	-10	331	342	99	1	5	8	172	156	99	1	7	-12	309	302	99	1	8	8	411	383	99
1	2	14	383	386	99	1	4	-9	167	172	99	1	5	9	314	300	99	1	7	-11	174	154	99	1	8	9	314	327	99
1	2	15	162	165	99	1	4	-8	108	87	99	1	5	10	199	185	99	1	7	-10	254	241	99	1	8	10	397	386	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	8	11	531	547	99	1	10	2	112	82	99	1	12	2	31	34	99	2	0	8	392	362	99	2	2	-13	471	431	99
1	8	12	171	177	99	1	10	3	153	131	99	1	12	3	377	348	99	2	0	10	47	33	99	2	2	-12	416	393	99
1	8	13	221	233	99	1	10	4	62	75	99	1	12	4	354	356	99	2	0	12	796	788	99	2	2	-11	513	516	99
1	8	14	67	65	99	1	10	5	257	232	99	1	12	5	341	358	99	2	0	14	532	525	99	2	2	-10	511	527	99
1	8	15	15	43	99	1	10	6	440	450	99	1	12	6	223	218	99	2	0	16	591	593	99	2	2	-9	1007	1014	99
1	8	16	-43	72	99	1	10	7	-32	7	99	1	12	7	50	8	99	2	0	18	148	138	99	2	2	-8	247	257	99
1	9	-16	90	64	99	1	10	8	227	224	99	1	12	8	154	151	99	2	1	-21	100	106	99	2	2	-7	856	945	99
1	9	-15	-71	64	99	1	10	9	164	149	99	1	12	9	53	73	99	2	1	-20	217	201	99	2	2	-6	1083	1243	99
1	9	-14	83	39	99	1	10	10	174	178	99	1	12	10	27	4	99	2	1	-19	169	145	99	2	2	-5	20	16	99
1	9	-13	237	236	99	1	10	11	-34	26	99	1	12	11	225	233	99	2	1	-18	266	263	99	2	2	-3	71	51	79
1	9	-12	-91	74	99	1	10	12	177	164	99	1	13	-9	-41	3	99	2	1	-17	137	128	99	2	2	-2	59	17	67
1	9	-11	181	162	99	1	10	13	3	33	99	1	13	-8	164	161	99	2	1	-16	162	158	99	2	2	-1	1865	1917	99
1	9	-10	374	374	99	1	10	14	222	227	99	1	13	-7	66	35	99	2	1	-15	483	465	99	2	2	0	351	343	99
1	9	-9	248	278	99	1	11	-14	-117	16	99	1	13	-6	123	165	99	2	1	-14	-70	8	99	2	2	1	342	339	99
1	9	-8	436	433	99	1	11	-13	336	291	99	1	13	-5	202	192	99	2	1	-13	340	326	99	2	2	2	796	774	99
1	9	-7	-108	32	99	1	11	-12	-76	91	99	1	13	-4	152	156	99	2	1	-12	639	606	99	2	2	3	758	743	99
1	9	-6	350	343	99	1	11	-11	237	237	99	1	13	-3	243	233	99	2	1	-11	41	2	99	2	2	4	668	647	99
1	9	-5	518	522	99	1	11	-10	48	40	99	1	13	-2	-70	21	99	2	1	-10	456	443	99	2	2	5	75	67	89
1	9	-4	366	355	99	1	11	-9	179	182	99	1	13	-1	74	5	99	2	1	-9	313	313	99	2	2	6	754	746	99
1	9	-3	436	447	99	1	11	-8	220	218	99	1	13	0	350	342	99	2	1	-8	181	203	99	2	2	7	596	581	99
1	9	-2	637	602	99	1	11	-7	38	23	99	1	13	1	-61	70	99	2	1	-7	1097	1155	99	2	2	8	280	296	99
1	9	-1	572	577	99	1	11	-6	197	204	99	1	13	2	394	368	99	2	1	-6	66	89	90	2	2	9	224	236	99
1	9	0	425	402	99	1	11	-5	104	85	99	1	13	3	103	119	99	2	1	-5	580	615	99	2	2	10	154	141	99
1	9	1	143	131	99	1	11	-4	130	97	99	1	13	4	355	325	99	2	1	-4	675	680	99	2	2	11	454	436	99
1	9	2	395	342	99	1	11	-3	273	267	99	1	13	5	97	84	99	2	1	-3	1260	1316	99	2	2	12	464	479	99
1	9	3	120	125	99	1	11	-2	60	22	99	1	13	6	43	69	99	2	1	-2	1167	1108	99	2	2	13	188	195	99
1	9	4	229	208	99	1	11	-1	484	461	99	1	13	7	176	182	99	2	1	-1	268	262	99	2	2	14	265	271	99
1	9	5	306	271	99	1	11	0	292	271	99	1	13	8	92	87	99	2	1	0	1183	1209	99	2	2	15	41	39	99
1	9	6	-73	36	99	1	11	1	148	143	99	1	13	9	81	100	99	2	1	1	854	858	99	2	2	16	99	93	99
1	9	7	642	639	99	1	11	2	-57	5	99	1	14	-6	-76	24	99	2	1	2	242	240	99	2	2	17	285	276	99
1	9	8	254	247	99	1	11	3	66	77	99	1	14	-5	174	187	99	2	1	3	1631	1656	99	2	2	18	69	91	99
1	9	9	270	263	99	1	11	4	318	323	99	1	14	-4	121	140	99	2	1	4	893	847	99	2	2	19	158	143	99
1	9	10	313	293	99	1	11	5	360	338	99	1	14	-3	115	119	99	2	1	5	1755	1749	99	2	3	-20	422	366	99
1	9	11	173	191	99	1	11	6	200	199	99	1	14	-2	87	56	99	2	1	6	759	763	99	2	3	-19	-93	51	99
1	9	12	201	213	99	1	11	7	185	169	99	1	14	-1	28	79	99	2	1	7	519	478	99	2	3	-18	102	84	99
1	9	13	216	230	99	1	11	8	23	2	99	1	14	0	22	60	99	2	1	8	104	101	99	2	3	-17	226	214	99
1	9	14	101	108	99	1	11	9	163	148	99	1	14	1	162	157	99	2	1	9	200	203	99	2	3	-16	180	169	99
1	9	15	132	122	99	1	11	10	58	34	99	1	14	2	15	57	99	2	1	10	139	139	99	2	3	-15	203	193	99
1	10	-15	94	4	99	1	11	11	39	37	99	1	14	3	215	208	99	2	1	11	553	546	99	2	3	-14	383	382	99
1	10	-14	192	187	99	1	11	12	204	240	99	1	14	4	-9	43	99	2	1	12	-17	72	99	2	3	-13	272	259	99
1	10	-13	-66	12	99	1	11	13	155	168	99	1	14	5	204	195	99	2	1	13	579	557	99	2	3	-12	465	494	99
1	10	-12	376	347	99	1	12	-12	190	146	99	2	0	-20	-45	4	99	2	1	14	52	53	99	2	3	-11	284	286	99
1	10	-11	84	76	99	1	12	-11	183	163	99	2	0	-18	81	82	99	2	1	15	387	390	99	2	3	-10	465	510	99
1	10	-10	275	274	99	1	12	-10	140	129	99	2	0	-16	317	295	99	2	1	16	-55	34	99	2	3	-9	-58	99	99
1	10	-9	167	186	99	1	12	-9	166	154	99	2	0	-14	750	703	99	2	1	17	288	277	99	2	3	-8	1108	1247	99
1	10	-8	273	277	99	1	12	-8	-86	6	99	2	0	-12	278	248	99	2	1	18	267	263	99	2	3	-7	-34	6	99
1	10	-7	147	156	99	1	12	-7	183	195	99	2	0	-10	332	320	99	2	1	19	93	82	99	2	3	-6	38	31	99
1	10	-6	308	298	99	1	12	-6	-49	48	99	2	0	-8	915	869	99	2	2	-21	293	244	99	2	3	-5	144	201	99
1	10	-5	162	148	99	1	12	-5	47	95	99	2	0	-6	587	578	99	2	2	-20	34	80	99	2	3	-4	160	216	99
1	10	-4	401	378	99	1	12	-4	171	181	99	2	0	-4	908	874	99	2	2	-19	346	314	99	2	3	-2	1873	1922	99
1	10	-3	289	281	99	1	12	-3	110	126	99	2	0	-2	1237	1224	99	2	2	-18	320	292	99	2	3	-1	97	91	89
1	10	-2	387	361	99	1	12	-2	278	270	99	2	0	0	412	423	99	2	2	-17	193	183	99	2	3	0	664	599	99
1	10	-1	114	113	99	1	12	-1	179	158	99	2	0	2	1101	1117	99	2	2	-16	222	201	99	2	3	1	393	368	99
1	10	0	120	123	99	1	12	0	243	210	99	2	0	4	1925	1955	99	2	2	-15	207	189	99	2	3	2	702	679	99
1	10	1	246	227	99	1	12	1	419	406	99	2	0	6	821	808	99	2	2	-14	265	246	99	2	3	3	49	14	75
2	3	4	407	361	99	2	5	-19	258	210	99	2	6	-2	1000	938	99	2	7	17	156	178	99	2	9	2	88	78	99
2	3	5	71	82	97	2	5	-18	160	123	99	2	6	-1	482	425	99	2	8	-18	205	165	99	2	9	3	452	399	99
2	3	6	610	575	99	2	5	-17	301	248	99	2	6	0	425	360	99	2	8	-17	45	30	99	2	9	4	55	22	99
2	3	7	273	260	99	2	5	-16	93	97	99	2	6	1	574	524	99	2	8	-16	117	127	99	2	9	5	271	246	99
2	3	8	621	612	99	2	5	-15	493	457	99	2	6	2	306	271	99	2	8	-15	57	54	99	2	9	6	395	392	99
2	3	9	215	214	99	2	5	-14	171	201	99	2	6	3	232	229	99	2	8	-14	176	190	99	2	9	7	387	385	99
2	3	10	1047	1047	99	2	5	-13	199	191	99	2	6	4	1090	978	99	2	8	-13	362	368	99	2	9	8	145	143	99
2	3	11	139	126	99	2	5	-12	489	474	99	2	6	5	150	140	99	2	8	-12	153	158	99	2	9	9	105	90	99
2	3	12	222	219	99	2	5	-11	-69	39	99	2	6	6	314	278	99	2	8	-11	196	194	99	2	9	10	330	342	99
2	3	13	59	102	99	2	5	-10	379	424	99	2	6	7	448	419	99	2	8	-10	-43	55	99	2	9	11	241	251	99
2	3	14	32	96	99	2	5	-9	138	117	99	2	6	8	55	5	99	2	8	-9	200	218	99	2	9	12	75	97	99
2	3	15	63	23	99	2	5	-8	191	215	99	2	6	9	228	244	99	2	8	-8	197	242	99	2	9	13	290	307	99
2	3	16	238	264	99	2	5	-7	640	777	99	2	6	10	-59	8	99	2	8	-7	164	191	99	2	9	14	56	52	99
2	3	17	108	114	99	2	5	-6	87	143	99	2	6	11	107	137	99	2	8	-6	855	901	99	2	9	15	167	179	99
2	3	18	242	246	99	2	5	-5	268	338	99	2	6	12	297	319	99	2	8	-5	406	427	99	2	10	-15	52	25	99
2	3	19	70	85	99	2	5	-4	249	330	99	2	6	13	62	58	99	2	8	-4	499	487	99	2	10	-14	-44	59	99
2	4	-20	154	126	99	2	5	-3	857	1031	99	2	6	14	105	132	99	2	8	-3	576	555	99	2	10	-13	267	259	99
2	4	-19	214	174	99	2	5	-2	512	461	99	2	6	15	-152	30	99	2	8	-2	176	166	99	2	10	-12	122	79	99
2	4	-18	169	147	99	2	5	-1	80	83	99	2	6	16	251	252	99	2	8	-1	734	634	99	2	10	-11	287	263	99
2	4	-17	80	10	99	2	5	0	1568	1344	99	2	6	17	107	107	99	2	8	0	403	376	99	2	10	-10	-75	37	99
2	4	-16	75	54	99	2	5	1	435	393	99	2	7	-18	-53	89	99	2	8	1	-74	16	99	2	10	-9	488	502	99
2	4	-15	120	100	99	2	5	2	1010	923	99	2	7	-17	237	210	99	2	8	2	508	460	99	2	10	-8	-65	4	99
2	4	-14	128	121	99	2	5	3	440	389	99	2	7	-16	128	71	99	2	8	3	42	34	99	2	10	-7	224	212	99
2	4	-13	512	488	99	2	5	4	98	66	99	2	7	-15	460	451	99	2	8	4	627	572	99	2	10	-6	142	141	99
2	4	-12	112	120	99	2	5	5	571	539	99	2	7	-14	297	269	99	2	8	5	429	398	99	2	10	-5	83	80	99
2	4	-11	311	334	99	2	5	6	916	888	99	2	7	-13	539	520	99	2	8	6	615	595	99	2	10	-4	247	232	99
2	4	-10	119	111	99	2	5	7	169	168	99	2	7	-12	212	210	99	2	8	7	453	445	99	2	10	-3	184	191	99
2	4	-9	865	902	99	2	5	8	861	832	99	2	7	-11	36	53	99	2	8	8	112	94	99	2	10	-2	49	61	99
2	4	-8	348	426	99	2	5	9	171	152	99	2	7	-10	79	53	99	2	8	9	190	194	99	2	10	-1	509	471	99
2	4	-7	32	12	99	2	5	10	559	560	99	2	7	-9	154	197	99	2	8	10	158	136	99	2	10	0	220	214	99
2	4	-6	588	769	99	2	5	11	385	387	99	2	7	-8	401	453	99	2	8	11	224	218	99	2	10	1	85	71	99
2	4	-5	441	585	99	2	5	12	360	357	99	2	7	-7	705	858	99	2	8	12	461	489	99	2	10	2	212	209	99
2	4	-4	-28	87	99	2	5	13	235	230	99	2	7	-6	506	621	99	2	8	13	25	26	99	2	10	3	168	148	99
2	4	-2	879	756	99	2	5	14	-65	67	99	2	7	-5	468	531	99	2	8	14	260	261	99	2	10	4	340	279	99
2	4	-1	1976	1798	99	2	5	15	88	100	99	2	7	-4	291	300	99	2	8	15	134	129	99	2	10	5	104	103	99
2	4	0	1004	895	99	2	5	16	138	144	99	2	7	-3	567	550	99	2	8	16	123	125	99	2	10	6	67	87	99
2	4	1	1293	1189	99	2	5	17	32	47	99	2	7	-2	221	204	99	2	9	-17	134	81	99	2	10	7	86	95	99
2	4	2	111	116	99	2	5	18	329	351	99	2	7	-1	356	338	99	2	9	-16	43	42	99	2	10	8	41	63	99
2	4	3	562	538	99	2	6	-19	82	97	99	2	7	0	128	121	99	2	9	-15	101	48	99	2	10	9	178	177	99
2	4	4	67	72	99	2	6	-18	266	230	99	2	7	1	546	479	99	2	9	-14	193	171	99	2	10	10	172	178	99
2	4	5	600	556	99	2	6	-17	141	161	99	2	7	2	110	77	99	2	9	-13	-25	12	99	2	10	11	209	206	99
2	4	6	344	299	99	2	6	-16	468	415	99	2	7	3	582	520	99	2	9	-12	294	291	99	2	10	12	-62	32	99
2	4	7	727	696	99	2	6	-15	132	125	99	2	7	4	200	182	99	2	9	-11	-90	8	99	2	10	13	63	97	99
2	4	8	150	140	99	2	6	-14	791	752	99	2	7	5	928	911	99	2	9	-10	250	283	99	2	11	-14	-80	80	99
2	4	9	1187	1163	99	2	6	-13	-66	83	99	2	7	6	454	436	99	2	9	-9	71	70	99	2	11	-13	61	105	99
2	4	10	35	42	99	2	6	-12	103	87	99	2	7	7	-92	29	99	2	9	-8	353	371	99	2	11	-12	321	302	99
2	4	11	881	888	99	2	6	-11	251	257	99	2	7	8	34	54	99	2	9	-7	121	157	99	2	11	-11	184	195	99
2	4	12	239	225	99	2	6	-10	-60	52	99	2	7	9	-40	22	99	2	9	-6	261	253	99	2	11	-10	309	312	99
2	4	13	129	135	99	2	6	-9	54	92	99	2	7	10	-103	58	99	2	9	-5	334	321	99	2	11	-9	52	53	99
2	4	14	96	103	99	2	6	-8	538	636	99	2	7	11	253	252	99	2	9	-4	266	260	99	2	11	-8	323	321	99
2	4	15	145	159	99	2	6	-7	208	227	99	2	7	12	78	63	99	2	9	-3	208	208	99	2	11	-7	252	283	99
2	4	16	64	57	99	2	6	-6	461	569	99	2	7	13	254	258	99	2	9	-2	872	815	99	2	11	-6	129	104	99
2	4	17	351	365	99	2	6	-5	37	57	99	2	7	14	134	138	99	2	9	-1	140	135	99	2	11	-5	-52	30	99
2	4	18	70	47	99	2	6	-4	546	644	99	2	7	15	208	199	99	2	9	0	385	359	99	2	11	-4	135	124	99
2	5	-20	64	95	99	2	6	-3	19	44	99	2	7	16	144	138	99	2	9	1	317	267	99	2	11	-3	-96	20	99

h	k	l	Fo	Fc	sigF2
2	11	-2	373	354	99
2	11	-1	212	218	99
2	11	0	386	353	99
2	11	1	261	240	99
2	11	2	233	215	99
2	11	3	36	20	99
2	11	4	50	10	99
2	11	5	109	97	99
2	11	6	271	277	99
2	11	7	-49	24	99
2	11	8	199	183	99
2	11	9	65	91	99
2	11	10	97	102	99
2	11	11	79	113	99
2	11	12	-63	30	99
2	12	-12	133	150	99
2	12	-11	278	264	99
2	12	-10	146	121	99
2	12	-9	171	176	99
2	12	-8	324	323	99
2	12	-7	113	102	99
2	12	-6	152	163	99
2	12	-5	38	32	99
2	12	-4	98	88	99
2	12	-3	202	177	99
2	12	-2	-94	7	99
2	12	-1	257	229	99
2	12	0	377	366	99
2	12	1	249	236	99
2	12	2	263	263	99
2	12	3	-50	38	99
2	12	4	406	396	99
2	12	5	183	170	99
2	12	6	46	62	99
2	12	7	217	209	99
2	12	8	36	15	99
2	12	9	144	145	99
2	12	10	-7	55	99
2	13	-10	116	106	99
2	13	-9	206	214	99
2	13	-8	-37	38	99
2	13	-7	310	328	99
2	13	-6	61	5	99
2	13	-5	145	124	99
2	13	-4	187	191	99
2	13	-3	72	94	99
2	13	-2	187	156	99
2	13	-1	132	120	99
2	13	0	189	163	99
2	13	1	254	231	99
2	13	2	-18	72	99
2	13	3	285	274	99
2	13	4	83	94	99
2	13	5	216	203	99
2	13	6	-113	74	99
2	13	7	66	31	99
2	13	8	177	188	99
2	13	-6	264	281	99
2	14	-5	52	13	99
2	14	-4	159	148	99
2	14	-3	-92	70	99
2	14	-2	63	17	99
2	14	-1	-70	7	99
2	14	0	144	145	99
2	14	1	97	89	99
2	14	2	205	195	99
2	14	3	93	53	99
2	14	4	132	148	99
3	0	-21	201	196	99
3	0	-19	-62	31	99
3	0	-17	64	50	99
3	0	-15	198	390	99
3	0	-13	1026	985	99
3	0	-11	275	269	99
3	0	-9	238	176	99
3	0	-7	1809	1779	99
3	0	-5	1118	1074	99
3	0	-3	1791	1778	99
3	0	-1	1268	1260	99
3	0	1	284	288	99
3	0	3	1070	1038	99
3	0	5	2947	2937	99
3	0	7	920	879	99
3	0	9	257	274	99
3	0	11	597	559	99
3	0	13	391	395	99
3	0	15	334	340	99
3	0	17	458	450	99
3	1	-21	188	169	99
3	1	-20	162	151	99
3	1	-19	181	148	99
3	1	-18	41	54	99
3	1	-17	311	275	99
3	1	-16	181	180	99
3	1	-15	478	458	99
3	1	-14	829	786	99
3	1	-13	75	53	99
3	1	-12	571	532	99
3	1	-11	479	434	99
3	1	-10	649	607	99
3	1	-9	915	943	99
3	1	-8	601	633	99
3	1	-7	488	484	99
3	1	-6	1399	1447	99
3	1	-5	508	525	99
3	1	-4	1303	1368	99
3	1	-3	749	735	99
3	1	-2	1667	1674	99
3	1	-1	109	106	77
3	1	0	998	990	99
3	1	1	492	490	99
3	1	2	782	776	99
3	1	3	1324	1266	99
3	1	4	1757	1713	99
3	1	5	484	464	99
3	1	6	1239	1238	99
3	1	7	283	268	99
3	1	8	564	575	99
3	1	9	380	370	99
3	1	10	64	61	99
3	1	11	90	86	99
3	1	12	588	578	99
3	1	13	124	123	99
3	1	14	352	353	99
3	1	15	92	71	99
3	1	16	386	396	99
3	1	17	50	37	99
3	1	18	101	126	99
3	2	-21	325	273	99
3	2	-20	451	379	99
3	2	-19	56	70	99
3	2	-18	428	407	99
3	2	-17	199	176	99
3	2	-16	534	509	99
3	2	-15	684	677	99
3	2	-14	151	138	99
3	2	-13	304	286	99
3	2	-12	430	415	99
3	2	-11	539	556	99
3	2	-10	935	978	99
3	2	-9	314	339	99
3	2	-8	1390	1482	99
3	2	-7	467	495	99
3	2	-6	534	617	99
3	2	-5	961	1123	99
3	2	-4	671	730	99
3	2	-3	1929	2011	99
3	2	-2	570	563	99
3	2	-1	693	699	99
3	2	0	1450	1459	99
3	2	1	577	565	99
3	2	2	991	959	99
3	2	3	750	743	99
3	2	4	696	696	99
3	2	5	304	317	99
3	2	6	285	287	99
3	2	7	197	188	99
3	2	8	205	207	99
3	2	9	408	396	99
3	2	10	443	412	99
3	2	11	42	70	99
3	2	12	181	189	99
3	2	13	395	399	99
3	2	14	25	26	99
3	2	15	310	326	99
3	2	16	27	17	99
3	2	17	78	45	99
3	2	18	181	182	99
3	3	-21	291	243	99
3	3	-20	89	47	99
3	3	-19	486	424	99
3	3	-18	69	31	99
3	3	-17	386	356	99
3	3	-16	230	209	99
3	3	-15	186	170	99
3	3	-14	236	240	99
3	3	-13	330	316	99
3	3	-12	425	425	99
3	3	-11	312	308	99
3	3	-10	319	349	99
3	3	-9	1057	1182	99
3	3	-8	107	119	99
3	3	-7	1195	1395	99
3	3	-6	137	156	99
3	3	-5	282	361	99
3	3	-4	452	487	99
3	3	-3	885	897	99
3	3	-2	615	610	99
3	3	-1	1783	1790	99
3	3	0	195	179	99
3	3	1	1086	1033	99
3	3	2	349	334	99
3	3	3	871	880	99
3	3	4	31	42	99
3	3	5	-56	35	99
3	3	6	203	212	99
3	3	7	248	224	99
3	3	8	66	76	99
3	3	9	413	410	99
3	3	10	189	182	99
3	3	11	1056	1044	99
3	3	12	148	156	99
3	3	13	245	246	99
3	3	14	82	81	99
3	3	15	32	9	99
3	3	16	44	35	99
3	3	17	335	343	99
3	3	18	135	136	99
3	4	-20	276	227	99
3	4	-19	-25	69	99
3	4	-18	219	190	99
3	4	-17	44	69	99
3	4	-16	435	382	99
3	4	-15	273	255	99
3	4	-14	106	139	99
3	4	-13	230	251	99
3	4	-12	427	423	99
3	4	-11	256	239	99
3	4	-10	578	577	99
3	4	-9	-18	47	99
3	4	-8	657	861	99
3	4	-7	10	71	99
3	4	-6	346	452	99
3	4	-5	98	132	99
3	4	-4	34	26	99
3	4	-3	602	606	99
3	4	-2	1918	1824	99
3	4	-1	441	381	99
3	4	0	1577	1477	99
3	4	1	134	140	99
3	4	2	1202	1122	99
3	4	3	222	207	99
3	4	4	379	382	99
3	4	5	108	106	99
3	4	6	793	765	99
3	4	7	-41	30	99
3	4	8	800	771	99
3	4	9	592	621	99
3	4	10	1043	1074	99
3	4	11	189	178	99
3	4	12	400	403	99
3	4	13	114	99	99
3	4	14	126	114	99
3	4	15	218	224	99
3	4	16	9	91	99
3	4	17	146	129	99
3	4	18	262	291	99
3	5	-20	-72	25	99
3	5	-19	-91	70	99
3	5	-18	132	99	99
3	5	-17	209	157	99
3	5	-16	273	233	99
3	5	-15	414	359	99
3	5	-14	432	425	99
3	5	-13	175	190	99
3	5	-12	185	211	99
3	5	-11	431	462	99
3	5	-10	340	391	99
3	5	-9	738	896	99
3	5	-8	302	357	99
3	5	-7	296	361	99
3	5	-6	243	336	99
3	5	-5	38	126	99
3	5	-4	517	724	99
3	5	-3	686	663	99
3	5	-2	915	833	99
3	5	-1	1290	1163	99
3	5	0	149	98	99
3	5	1	1238	1127	99
3	5	2	69	73	99
3	5	3	1262	1176	99
3	5	4	398	382	99
3	5	5	391	390	99
3	5	6	297	279	99
3	5	7	859	841	99
3	5	8	300	276	99
3	5	9	916	916	99
3	5	10	198	198	99
3	5	11	365	390	99
3	5	12	177	173	99
3	5	13	40	66	99
3	5	14	49	42	99
3	5	15	-76	43	99
3	5	16	203	217	99
3	5	17	140	145	99
3	6	-19	-90	54	99
3	6	-18	198	163	99
3	6	-17	86	102	99
3	6	-16	170	156	99
3	6	-15	516	475	99
3	6	-14	341	309	99
3	6	-13	613	650	99
3	6	-12	132	148	99
3	6	-11	425	472	99
3	6	-10	405	431	99
3	6	-9	148	161	99
3	6	-8	463	592	99
3	6	-7	454	647	99
3	6	-6	123	179	99
3	6	-5	259	388	99
3	6	-4	67	109	99
3	6	-3	815	711	99
3	6	-2	263	275	99
3	6	-1	830	725	99
3	6	0	671	605	99
3	6	1	340	342	99
3	6	2	606	552	99
3	6	3	182	166	99
3	6	4	87	73	99
3	6	5	1033	985	99
3	6	6	273	281	99
3	6	7	280	258	99
3	6	8	407	397	99
3	6	9	144	129	99
3	6	10	328	326	99
3	6	11	198	210	99
3	6	12	136	159	99
3	6	13	104	89	99
3	6	14	-13	9	99
3	6	15	41	59	99
3	6	16	151	139	99
3	6	17	184	195	99
3	7	-19	264	206	99
3	7	-18	-53	85	99
3	7	-17	188	195	99
3	7	-16	251	230	99
3	7	-15	73	45	99
3	7	-14	570	588	99
3	7	-13	192	188	99
3	7	-12	434	480	99
3	7	-11	41	126	99
3	7	-10	283	371	99
3	7	-9	67	78	99
3	7	-8	222	271	99
3	7	-7	547	698	99
3	7	-6	481	740	99
3	7	-5	236	327	99
3	7	-4	582	701	99
3	7	-3	76	71	99
3	7	-2	894	751	99
3	7	-1	197	178	99
3	7	0	132	107	99
3	7	1	390	345	99
3	7	2	61	38	99
3	7	3	324	308	99
3	7	4	674	617	99
3	7	5	81	96	99
3	7	6	674	612	99
3	7	7	31	3	99
3	7	8	356	330	99
3	7	9	101	62	99
3	7	10	48	62	99
3	7	11	91	71	99
3	7	12	274	281	99
3	7	13	31	75	99
3	7	14	179	189	99
3	7	15	219	223	99
3	7	16	202	205	99
3	8	-18	36	82	99
3	8	-17	62	88	99
3	8	-16	-150	21	99
3	8	-15	307	317	99
3	8	-14	142	107	99
3	8	-13	318	329	99
3	8	-12	187	198	99
3	8	-11	184	202	99
3	8	-10	111	103	99
3	8	-9	112	114	99
3	8	-8	176	206	99
3	8	-7	326	413	99
3	8	-6	461	589	99
3	8	-5	626	775	99
3	8	-4	-27	13	99
3	8	-3	961	849	99
3	8	-2	239	223	99
3	8	-1	229	187	99
3	8	0	186	145	99
3	8	1	418	373	99
3	8	2	195	164	99
3	8	3	681	618	99
3	8	4	349	306	99
3	8	5	570	532	99
3	8	6	172	176	99
3	8	7	351	345	99
3	8	8	81	80	99
3	8	9	252	236	99
3	8	10	258	244	99
3	8	11	-90	87	99
3	8	12	188	185	99
3	8	13	305	343	99
3	8	14	194	214	99
3	8	15	318	313	99
3	9	-17	-36	73	99
3	9	-16	17	54	99
3	9	-15	56	61	99
3	9	-14	145	150	99
3	9	-13	233	219	99
3	9	-12	138	159	99
3	9	-11	28	40	99
3	9	-10	-62	32	99
3	9	-9	235	292	99
3	9	-8	30	65	99
3	9	-7	335	390	99
3	9	-6	275	280	99
3	9	-5	-130	26	99
3	9	-4	559	540	99
3	9	-3	37	8	99
3	9	-2	491	411	99
3	9	-1	662	599	99
3	9	0	67	63	99
3	9	1	-25	25	99
3	9	2	536	478	99
3	9	3	267	241	99
3	9	4	624	587	99
3	9	5	202	188	99
3	9	6	529	502	99
3	9	7	44	39	99
3	9	8	239	227	99
3	9	9	69	81	99
3	9	10	66	55	99
3	9	11	404	409	99
3	9	12	219	224	99
3	9	13	130	135	99
3	9	14	253	262	99
3	10	-15	62	24	99
3	10	-14	70	39	99
3	10	-13	148	140	99
3	10	-12	178	203	99
3	10	-11	145	166	99
3	10	-10	218	226	99
3	10	-9	71	51	99
3	10	-8	410	460	99
3	10	-7	201	196	99
3	10	-6	370	355	99
3	10	-5	273	273	99
3	10	-4	343	341	99
3	10	-3	85	91	99
3	10	-2	211	192	99
3	10	-1	124	98	99
3	10	0	490	416	99
3	10	1	150	119	99
3	10	2	302	270	99
3	10	3	328	314	99
3	10	4	471	420	99
3	10	5	348	327	99
3	10	6	109	99	99
3	10	7	172	173	99
3	10	8	-85	16	99
3	10	9	158	143	99
3	10	10	221	216	99
3	10	11	187	182	99
3	10	12	121	155	99
3	10	13	54	115	99
3	11	-14	-36	3	99
3	11	-13	-107	61	99
3	11	-12	151	168	99
3	11	-11	233	243	99
3	11	-10	61	52	99
3	11	-9	435	449	99
3	11	-8	-122	65	99
3	11	-7	264	262	99
3	11	-6	73	32	99
3	11	-5	152	150	99
3	11	-4	61	31	99
3	11	-3	61	30	99
3	11	-2	53	80	99
3	11	-1	198	166	99
3	11	0	50	48	99
3	11	1	409	350	99
3	11	2	160	148	99
3	11	3	390	344	99
3	11	4	46	6	99
3	11	5	-56	10	99
3	11	6	-53	16	99
3	11	7	87	115	99
3	11	8	73	86	99
3	11	9	52	135	99
3	11	10	187	198	99
3	11	11	113	122	99
3	12	-12	87	93	99
3	12	-11	-70	61	99
3	12	-10	258	262	99
3	12	-9	80	62	99
3	12	-8	251	243	99
3	12	-7	240	217	99
3	12	-6	75	108	99
3	12	-5	52	15	99
3	12	-4	92	76	99
3	12	-3	94	72	99
3	12	-2	147	117	99
3	12	-1	-62	22	99
3	12	0	256	220	99
3	12	1	-86	1	99
3	12	2	269	241	99
3	12	3	85	52	99
3	12	4	83	92	99
3	12	5	267	271	99
3	12	6	45	41	99
3	12	7	94	81	99
3	12	8	150	156	99
3	12	9	218	210	99
3	13	-10	-85	31	99
3	13	-9	60	16	99
3	13	-8	180	162	99
3	13	-7	121	123	99
3	13	-6	126	133	99
3	13	-5	-81	44	99
3	13	-4	123	87	99
3	13	-3	202	183	99
3	13	-2	145	137	99
3	13	-1	224	196	99
3	13	0	73	8	99
3	13	1	197	173	99
3	13	2	85	103	99
3	13	3	-67	31	99
3	13	4	177	155	99
3	13	5	-69	20	99
3	13	6	165	145	99
3	13	7	192	189	99
3	14	-6	59	75	99
3	14	-5	134	108	99
3	14	-4	76	115	99
3	14	-3	186	164	99
3	14	-2	77	92	99
3	14	-1	-23	59	99
3	14	0	167	155	99
3	14	1	-74	15	99
3	14	2	-45	27	99
3	14	3	42	60	99
4	0	-20	143	125	99
4	0	-18	112	100	99
4	0	-16	44	42	99
4	0	-14	363	340	99
4	0	-12	621	558	99
4	0	-10	951	900	99
4	0	-8	169	189	99
4	0	-6	1435	1421	99
4	0	-4	1741	1706	99
4	0	-2	568	533	99
4	0	0	420	413	99
4	0	2	73	43	91
4	0	4	994	987	99
4	0	6	1206	1172	99
4	0	8	779	756	99
4	0	10	423	395	99
4	0	12	157	147	99
4	0	14	172	153	99
4	0	16	266	269	99
4	0	18	307	314	99
4	1	-21	336	292	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	1	-20	292	264	99	4	2	-5	845	892	99	4	3	11	90	85	99	4	5	-10	220	270	99	4	6	9	301	284	99
4	1	-19	134	130	99	4	2	-4	36	25	78	4	3	12	310	326	99	4	5	-9	433	561	99	4	6	10	186	202	99
4	1	-18	171	151	99	4	2	-3	326	314	99	4	3	13	117	103	99	4	5	-8	594	826	99	4	6	11	132	145	99
4	1	-17	-9	65	99	4	2	-2	1288	1246	99	4	3	14	370	366	99	4	5	-7	71	100	99	4	6	12	-52	51	99
4	1	-16	292	288	99	4	2	-1	489	449	99	4	3	15	-75	19	99	4	5	-6	92	99	99	4	6	13	26	6	99
4	1	-15	390	367	99	4	2	0	279	288	99	4	3	16	112	101	99	4	5	-5	-59	35	99	4	6	14	-24	46	99
4	1	-14	306	300	99	4	2	1	75	90	95	4	3	17	71	72	99	4	5	-4	265	256	99	4	6	15	21	39	99
4	1	-13	657	609	99	4	2	2	207	208	99	4	4	-20	49	79	99	4	5	-3	1088	1030	99	4	6	16	75	80	99
4	1	-12	219	225	99	4	2	3	767	735	99	4	4	-19	126	125	99	4	5	-2	634	608	99	4	7	-19	62	45	99
4	1	-11	493	506	99	4	2	4	349	329	99	4	4	-18	-99	6	99	4	5	-1	613	586	99	4	7	-18	235	179	99
4	1	-10	246	247	99	4	2	5	612	588	99	4	4	-17	277	251	99	4	5	0	770	697	99	4	7	-17	111	82	99
4	1	-9	279	290	99	4	2	6	43	20	99	4	4	-16	51	32	99	4	5	1	421	403	99	4	7	-16	-71	110	99
4	1	-8	1351	1332	99	4	2	7	332	307	99	4	4	-15	478	437	99	4	5	2	316	297	99	4	7	-15	210	231	99
4	1	-7	415	437	99	4	2	8	215	221	99	4	4	-14	207	202	99	4	5	3	113	109	99	4	7	-14	-35	22	99
4	1	-6	753	768	99	4	2	9	101	104	99	4	4	-13	33	21	99	4	5	4	580	555	99	4	7	-13	419	487	99
4	1	-5	667	644	99	4	2	10	322	326	99	4	4	-12	80	70	99	4	5	5	457	446	99	4	7	-12	69	96	99
4	1	-4	399	383	99	4	2	11	273	272	99	4	4	-11	116	137	99	4	5	6	141	141	99	4	7	-11	515	585	99
4	1	-3	1224	1201	99	4	2	12	31	44	99	4	4	-10	-34	7	99	4	5	7	44	56	99	4	7	-10	182	186	99
4	1	-2	90	79	88	4	2	13	80	66	99	4	4	-9	640	725	99	4	5	8	134	136	99	4	7	-9	355	444	99
4	1	-1	577	577	99	4	2	14	-89	11	99	4	4	-8	85	76	99	4	5	9	412	417	99	4	7	-8	101	138	99
4	1	0	258	249	99	4	2	15	165	155	99	4	4	-7	455	547	99	4	5	10	408	417	99	4	7	-7	116	132	99
4	1	1	96	55	92	4	2	16	229	229	99	4	4	-6	-45	58	99	4	5	11	102	103	99	4	7	-6	75	92	99
4	1	2	545	526	99	4	2	17	-68	3	99	4	4	-5	333	390	99	4	5	12	267	282	99	4	7	-5	200	218	99
4	1	3	251	238	99	4	3	-21	161	120	99	4	4	-4	156	144	99	4	5	13	140	145	99	4	7	-4	81	93	99
4	1	4	572	567	99	4	3	-20	210	205	99	4	4	-3	159	118	99	4	5	14	84	102	99	4	7	-3	886	798	99
4	1	5	812	810	99	4	3	-19	147	123	99	4	4	-2	981	939	99	4	5	15	98	66	99	4	7	-2	123	100	99
4	1	6	202	211	99	4	3	-18	387	356	99	4	4	-1	1260	1179	99	4	5	16	126	124	99	4	7	-1	635	548	99
4	1	7	499	492	99	4	3	-17	51	56	99	4	4	0	64	52	99	4	6	-19	117	108	99	4	7	0	53	65	99
4	1	8	120	98	99	4	3	-16	783	705	99	4	4	1	351	324	99	4	6	-18	136	118	99	4	7	1	524	462	99
4	1	9	555	529	99	4	3	-15	265	242	99	4	4	2	231	210	99	4	6	-17	139	139	99	4	7	2	31	30	99
4	1	10	137	123	99	4	3	-14	-16	70	99	4	4	3	1000	959	99	4	6	-16	-47	6	99	4	7	3	197	180	99
4	1	11	86	90	99	4	3	-13	277	268	99	4	4	4	372	369	99	4	6	-15	122	128	99	4	7	4	369	347	99
4	1	12	20	32	99	4	3	-12	216	222	99	4	4	5	39	30	99	4	6	-14	458	466	99	4	7	5	401	386	99
4	1	13	82	78	99	4	3	-11	298	302	99	4	4	6	270	256	99	4	6	-13	85	107	99	4	7	6	51	44	99
4	1	14	78	66	99	4	3	-10	393	404	99	4	4	7	196	199	99	4	6	-12	502	521	99	4	7	7	485	459	99
4	1	15	163	184	99	4	3	-9	485	519	99	4	4	8	261	260	99	4	6	-11	136	131	99	4	7	8	57	16	99
4	1	16	56	66	99	4	3	-8	648	730	99	4	4	9	168	162	99	4	6	-10	821	1106	99	4	7	9	397	393	99
4	1	17	296	302	99	4	3	-7	184	201	99	4	4	10	398	410	99	4	6	-9	153	182	99	4	7	10	285	294	99
4	1	18	30	36	99	4	3	-6	400	429	99	4	4	11	525	534	99	4	6	-8	114	160	99	4	7	11	45	23	99
4	2	-21	202	199	99	4	3	-5	42	23	99	4	4	12	86	84	99	4	6	-7	293	372	99	4	7	12	60	62	99
4	2	-20	312	273	99	4	3	-4	1272	1309	99	4	4	13	283	297	99	4	6	-6	129	175	99	4	7	13	101	96	99
4	2	-19	370	322	99	4	3	-3	195	203	99	4	4	14	-83	39	99	4	6	-5	149	136	99	4	7	14	-47	44	99
4	2	-18	100	105	99	4	3	-2	374	367	99	4	4	15	300	310	99	4	6	-4	606	591	99	4	7	15	108	113	99
4	2	-17	477	438	99	4	3	-1	147	140	99	4	4	16	231	248	99	4	6	-3	66	90	99	4	8	-18	67	42	99
4	2	-16	142	124	99	4	3	0	823	818	99	4	4	17	44	80	99	4	6	-2	810	722	99	4	8	-17	-153	25	99
4	2	-15	596	563	99	4	3	1	365	345	99	4	5	-20	71	52	99	4	6	-1	93	70	99	4	8	-16	107	71	99
4	2	-14	699	630	99	4	3	2	1180	1165	99	4	5	-19	137	111	99	4	6	0	644	554	99	4	8	-15	-133	68	99
4	2	-13	38	19	99	4	3	3	-17	26	99	4	5	-18	17	67	99	4	6	1	193	148	99	4	8	-14	280	313	99
4	2	-12	357	342	99	4	3	4	848	809	99	4	5	-17	132	84	99	4	6	2	784	721	99	4	8	-13	-33	6	99
4	2	-11	150	132	99	4	3	5	267	269	99	4	5	-16	159	139	99	4	6	3	-60	15	99	4	8	-12	199	234	99
4	2	-10	344	362	99	4	3	6	60	34	99	4	5	-15	440	417	99	4	6	4	175	145	99	4	8	-11	-103	72	99
4	2	-9	1152	1155	99	4	3	7	312	294	99	4	5	-14	301	284	99	4	6	5	317	311	99	4	8	-10	117	177	99
4	2	-8	-69	44	99	4	3	8	188	196	99	4	5	-13	309	310	99	4	6	6	218	207	99	4	8	-9	152	199	99
4	2	-7	850	925	99	4	3	9	94	96	99	4	5	-12	-59	57	99	4	6	7	114	118	99	4	8	-8	41	69	99
4	2	-6	231	227	99	4	3	10	423	432	99	4	5	-11	267	330	99	4	6	8	415	426	99	4	8	-7	93	132	99
4	8	-6	244	303	99	4	10	-12	129	109	99	4	12	-7	192	206	99	5	0	13	-40	7	99	5	2	-8	576	608	99
4	8	-5	-78	26	99	4	10	-11	71	28	99	4	12	-6	57	81	99	5	0	15	189	193	99	5	2	-7	668	717	99
4	8	-4	434	370	99	4	10	-10	-139	54	99	4	12	-5	168	168	99	5	0	17	259	244	99	5	2	-6	836	845	99
4	8	-3	64	3	99	4	10	-9	274	336	99	4	12	-4	151	119	99	5	1	-21	138	66	99	5	2	-5	781	774	99
4	8	-2	768	655	99	4	10	-8	-53	99	99	4	12	-3	-76	4	99	5	1	-20	226	197	99	5	2	-4	1327	1334	99
4	8	-1	261	219	99	4	10	-7	384	519	99	4	12	-2	323	285	99	5	1	-19	181	162	99	5	2	-3	400	377	99
4	8	0	193	149	99	4	10	-6	149	172	99	4	12	-1	32	58	99	5	1	-18	318	299	99	5	2	-2	718	722	99
4	8	1	109	95	99	4	10	-5	538	526	99	4	12	0	79	68	99	5	1	-17	235	215	99	5	2	-1	914	881	99
4	8	2	121	89	99	4	10	-4	73	53	99	4	12	1	144	152	99	5	1	-16	260	234	99	5	2	0	390	359	99
4	8	3	507	484	99	4	10	-3	468	398	99	4	12	2	160	159	99	5	1	-15	282	247	99	5	2	1	1383	1379	99
4	8	4	391	364	99	4	10	-2	124	108	99	4	12	3	268	246	99	5	1	-14	113	109	99	5	2	2	268	260	99
4	8	5	500	463	99	4	10	-1	252	228	99	4	12	4	212	197	99	5	1	-13	491	451	99	5	2	3	400	375	99
4	8	6	415	390	99	4	10	0	42	17	99	4	12	5	191	206	99	5	1	-12	191	193	99	5	2	4	920	904	99
4	8	7	56	82	99	4	10	1	482	437	99	4	12	6	219	229	99	5	1	-11	301	285	99	5	2	5	322	308	99
4	8	8	261	246	99	4	10	2	254	234	99	4	12	7	42	13	99	5	1	-10	768	744	99	5	2	6	426	437	99
4	8	9	225	233	99	4	10	3	656	578	99	4	12	8	262	264	99	5	1	-9	335	324	99	5	2	7	52	79	99
4	8	10	256	251	99	4	10	4	121	110	99	4	13	-9	166	160	99	5	1	-8	522	517	99	5	2	8	622	626	99
4	8	11	335	358	99	4	10	5	212	200	99	4	13	-8	50	29	99	5	1	-7	969	995	99	5	2	9	215	198	99
4	8	12	40	40	99	4	10	6	60	110	99	4	13	-7	98	91	99	5	1	-6	457	445	99	5	2	10	-48	7	99
4	8	13	-73	88	99	4	10	7	126	111	99	4	13	-6	-60	82	99	5	1	-5	391	399	99	5	2	11	317	311	99
4	8	14	140	151	99	4	10	8	-14	38	99	4	13	-5	-45	59	99	5	1	-4	373	367	99	5	2	12	103	101	99
4	9	-17	-22	38	99	4	10	9	-80	28	99	4	13	-4	90	73	99	5	1	-3	174	178	99	5	2	13	311	311	99
4	9	-16	292	282	99	4	10	10	98	99	99	4	13	-3	296	271	99	5	1	-2	900	871	99	5	2	14	212	220	99
4	9	-15	66	43	99	4	10	11	175	196	99	4	13	-2	47	24	99	5	1	-1	396	361	99	5	2	15	-71	39	99
4	9	-14	49	60	99	4	10	12	40	41	99	4	13	-1	249	229	99	5	1	0	658	657	99	5	2	16	133	143	99
4	9	-13	157	159	99	4	11	-14	213	211	99	4	13	0	142	136	99	5	1	1	423	394	99	5	3	-21	73	111	99
4	9	-12	-84	37	99	4	11	-13	-66	9	99	4	13	1	215	194	99	5	1	2	1258	1248	99	5	3	-20	131	124	99
4	9	-11	-27	10	99	4	11	-12	64	24	99	4	13	2	146	142	99	5	1	3	54	15	99	5	3	-19	-16	10	99
4	9	-10	106	107	99	4	11	-11	112	40	99	4	13	3	105	75	99	5	1	4	180	178	99	5	3	-18	97	99	99
4	9	-9	-94	65	99	4	11	-10	106	153	99	4	13	4	53	59	99	5	1	5	654	619	99	5	3	-17	303	246	99
4	9	-8	268	360	99	4	11	-9	64	79	99	4	13	5	272	278	99	5	1	6	347	344	99	5	3	-16	183	175	99
4	9	-7	64	74	99	4	11	-8	404	476	99	4	13	6	66	33	99	5	1	7	596	607	99	5	3	-15	874	788	99
4	9	-6	293	377	99	4	11	-7	-82	9	99	4	14	-4	124	135	99	5	1	8	658	663	99	5	3	-14	172	182	99
4	9	-5	371	349	99	4	11	-6	330	356	99	4	14	-3	57	105	99	5	1	9	138	120	99	5	3	-13	250	262	99
4	9	-4	551	471	99	4	11	-5	19	76	99	4	14	-2	302	277	99	5	1	10	692	687	99	5	3	-12	286	300	99
4	9	-3	413	345	99	4	11	-4	379	323	99	4	14	-1	69	53	99	5	1	11	215	221	99	5	3	-11	446	467	99
4	9	-2	123	121	99	4	11	-3	378	341	99	4	14	0	161	179	99	5	1	12	238	240	99	5	3	-10	469	511	99
4	9	-1	288	241	99	4	11	-2	-41	15	99	4	14	1	140	143	99	5	1	13	32	24	99	5	3	-9	347	377	99
4	9	0	372	326	99	4	11	-1	214	186	99	5	0	-21	312	275	99	5	1	14	91	68	99	5	3	-8	404	438	99
4	9	1	237	219	99	4	11	0	116	101	99	5	0	-19	172	179	99	5	1	15	-92	10	99	5	3	-7	339	378	99
4	9	2	582	508	99	4	11	1	-68	70	99	5	0	-17	296	265	99	5	1	16	268	246	99	5	3	-6	386	399	99
4	9	3	394	365	99	4	11	2	256	233	99	5	0	-15	223	199	99	5	1	17	57	11	99	5	3	-5	962	980	99
4	9	4	400	386	99	4	11	3	-36	28	99	5	0	-13	-58	51	99	5	2	-21	201	174	99	5	3	-4	323	299	99
4	9	5	432	393	99	4	11	4	371	358	99	5	0	-11	676	628	99	5	2	-20	119	129	99	5	3	-3	1734	1728	99
4	9	6	123	114	99	4	11	5	227	208	99	5	0	-9	914	867	99	5	2	-19	282	249	99	5	3	-2	393	353	99
4	9	7	212	205	99	4	11	6	144	137	99	5	0	-7	44	84	99	5	2	-18	230	213	99	5	3	-1	-17	23	99
4	9	8	63	83	99	4	11	7	-39	6	99	5	0	-5	267	241	99	5	2	-17	396	379	99	5	3	0	586	551	99
4	9	9	130	125	99	4	11	8	47	29	99	5	0	-3	1091	1059	99	5	2	-16	556	563	99	5	3	1	307	306	99
4	9	10	143	161	99	4	11	9	168	181	99	5	0	-1	781	768	99	5	2	-15	154	154	99	5	3	2	787	788	99
4	9	11	44	42	99	4	11	10	206	212	99	5	0	1	272	283	99	5	2	-14	471	439	99	5	3	3	1362	1363	99
4	9	12	233	261	99	4	12	-12	-97	55	99	5	0	3	580	579	99	5	2	-13	276	267	99	5	3	4	345	341	99
4	9	13	38	87	99	4	12	-11	91	26	99	5	0	5	164	158	99	5	2	-12	270	285	99	5	3	5	595	495	99
4	10	-15	338	317	99	4	12	-10	119	173	99	5	0	7	612	579	99	5	2	-11	387	385	99	5	3	6	359	293	99
4	10	-14	93	62	99	4	12	-9	56	154	99	5	0	9	1354	1307	99	5	2	-10	266	277	99	5	3	7	405	389	99
4	10	-13	58	57	99	4	12	-8	87	94	99	5	0	11	480	436	99	5	2	-9	602	630	99	5	3	8	40	16	99

h	k	l	Fo	Fc	sigF2
5	3	9	221	222	99
5	3	10	139	148	99
5	3	11	203	211	99
5	3	12	97	93	99
5	3	13	213	225	99
5	3	14	45	101	99
5	3	15	432	442	99
5	3	16	33	11	99
5	4	-21	-60	15	99
5	4	-20	-63	62	99
5	4	-19	32	64	99
5	4	-18	63	40	99
5	4	-17	194	176	99
5	4	-16	483	436	99
5	4	-15	256	227	99
5	4	-14	374	366	99
5	4	-13	64	52	99
5	4	-12	361	395	99
5	4	-11	20	49	99
5	4	-10	144	142	99
5	4	-9	36	69	99
5	4	-8	423	482	99
5	4	-7	-39	22	99
5	4	-6	330	346	99
5	4	-5	74	49	99
5	4	-4	1141	1127	99
5	4	-3	409	356	99
5	4	-2	439	413	99
5	4	-1	542	493	99
5	4	0	155	56	99
5	4	1	388	347	99
5	4	2	528	503	99
5	4	3	424	415	99
5	4	4	1021	982	99
5	4	5	489	487	99
5	4	6	606	594	99
5	4	7	88	96	99
5	4	8	393	382	99
5	4	9	140	151	99
5	4	10	225	214	99
5	4	11	56	17	99
5	4	12	316	327	99
5	4	13	131	148	99
5	4	14	407	415	99
5	4	15	-74	34	99
5	4	16	319	341	99
5	5	-20	167	131	99
5	5	-19	67	54	99
5	5	-18	230	199	99
5	5	-17	57	73	99
5	5	-16	258	243	99
5	5	-15	166	163	99
5	5	-14	359	379	99
5	5	-13	382	401	99
5	5	-12	353	364	99
5	5	-11	366	423	99
5	5	-10	683	796	99
5	5	-9	121	146	99
5	5	-8	92	114	99
5	5	-7	360	394	99
5	5	-6	195	193	99
5	5	-5	413	397	99
5	5	-4	23	50	99
5	5	-3	208	187	99
5	5	-2	564	528	99
5	5	-1	223	187	99
5	5	0	417	403	99
5	5	1	35	60	99
5	5	2	843	784	99
5	5	3	377	367	99
5	5	4	-58	4	99
5	5	5	869	836	99
5	5	6	119	101	99
5	5	7	569	571	99
5	5	8	186	183	99
5	5	9	39	36	99
5	5	10	341	339	99
5	5	11	384	412	99
5	5	12	101	106	99
5	5	13	344	358	99
5	5	14	181	178	99
5	5	15	234	253	99
5	6	-19	204	172	99
5	6	-18	47	36	99
5	6	-17	271	225	99
5	6	-16	83	46	99
5	6	-15	84	68	99
5	6	-14	164	176	99
5	6	-13	320	347	99
5	6	-12	197	212	99
5	6	-11	564	666	99
5	6	-10	218	264	99
5	6	-9	1050	1204	99
5	6	-8	-55	47	99
5	6	-7	224	263	99
5	6	-6	534	577	99
5	6	-5	203	194	99
5	6	-4	317	307	99
5	6	-3	856	780	99
5	6	-2	494	439	99
5	6	-1	628	564	99
5	6	0	-8	18	99
5	6	1	734	665	99
5	6	2	238	220	99
5	6	3	893	831	99
5	6	4	334	320	99
5	6	5	166	140	99
5	6	6	397	370	99
5	6	7	-23	46	99
5	6	8	116	115	99
5	6	9	636	657	99
5	6	10	-77	29	99
5	6	11	161	162	99
5	6	12	209	212	99
5	6	13	115	105	99
5	6	14	169	165	99
5	6	15	-61	41	99
5	7	-19	69	28	99
5	7	-18	224	205	99
5	7	-17	61	10	99
5	7	-16	147	113	99
5	7	-15	52	78	99
5	7	-14	139	162	99
5	7	-13	-76	14	99
5	7	-12	229	259	99
5	7	-11	91	75	99
5	7	-10	562	688	99
5	7	-9	290	369	99
5	7	-8	694	829	99
5	7	-7	113	122	99
5	7	-6	281	287	99
5	7	-5	40	54	99
5	7	-4	288	270	99
5	7	-3	466	421	99
5	7	-2	881	790	99
5	7	-1	432	393	99
5	7	0	564	509	99
5	7	1	81	84	99
5	7	2	798	751	99
5	7	3	31	11	99
5	7	4	205	179	99
5	7	5	48	3	99
5	7	6	198	182	99
5	7	7	-15	31	99
5	7	8	328	312	99
5	7	9	90	121	99
5	7	10	350	368	99
5	7	11	96	132	99
5	7	12	116	102	99
5	7	13	-46	52	99
5	7	14	82	82	99
5	8	-18	74	24	99
5	8	-17	216	193	99
5	8	-16	128	128	99
5	8	-15	55	50	99
5	8	-14	-83	29	99
5	8	-13	-39	160	99
5	8	-12	80	93	99
5	8	-11	198	259	99
5	8	-10	-117	46	99
5	8	-9	146	194	99
5	8	-8	61	163	99
5	8	-7	216	268	99
5	8	-6	190	177	99
5	8	-5	185	185	99
5	8	-4	306	275	99
5	8	-3	262	221	99
5	8	-2	336	282	99
5	8	-1	739	654	99
5	8	0	249	245	99
5	8	1	512	469	99
5	8	2	277	262	99
5	8	3	63	80	99
5	8	4	239	232	99
5	8	5	204	201	99
5	8	6	85	75	99
5	8	7	311	280	99
5	8	8	52	95	99
5	8	9	292	279	99
5	8	10	80	113	99
5	8	11	271	271	99
5	8	12	101	104	99
5	8	13	111	105	99
5	9	-17	243	183	99
5	9	-16	207	188	99
5	9	-15	312	324	99
5	9	-14	73	56	99
5	9	-13	105	81	99
5	9	-12	58	116	99
5	9	-11	-73	68	99
5	9	-10	77	100	99
5	9	-9	191	267	99
5	9	-8	38	10	99
5	9	-7	203	257	99
5	9	-6	-34	11	99
5	9	-5	439	407	99
5	9	-4	-52	14	99
5	9	-3	544	426	99
5	9	-2	232	177	99
5	9	-1	130	91	99
5	9	0	384	344	99
5	9	1	184	159	99
5	9	2	-59	85	99
5	9	3	497	474	99
5	9	4	121	108	99
5	9	5	109	115	99
5	9	6	282	271	99
5	9	7	135	143	99
5	9	8	276	283	99
5	9	9	88	80	99
5	9	10	180	192	99
5	9	11	63	82	99
5	9	12	93	108	99
5	10	-15	144	152	99
5	10	-14	307	341	99
5	10	-13	118	100	99
5	10	-12	88	156	99
5	10	-11	53	23	99
5	10	-10	59	68	99
5	10	-9	67	106	99
5	10	-8	268	396	99
5	10	-7	71	92	99
5	10	-6	278	324	99
5	10	-5	-38	67	99
5	10	-4	625	520	99
5	10	-3	38	43	99
5	10	-2	188	152	99
5	10	-1	58	53	99
5	10	0	-49	16	99
5	10	1	79	58	99
5	10	2	266	234	99
5	10	3	148	118	99
5	10	4	386	381	99
5	10	5	27	20	99
5	10	6	152	157	99
5	10	7	201	213	99
5	10	8	157	149	99
5	10	9	170	181	99
5	10	10	-37	40	99
5	10	11	11	85	99
5	11	-14	104	122	99
5	11	-13	209	218	99
5	11	-12	84	93	99
5	11	-11	135	165	99
5	11	-10	96	111	99
5	11	-9	147	201	99
5	11	-8	146	212	99
5	11	-7	251	357	99
5	11	-6	148	142	99
5	11	-5	475	382	99
5	11	-4	51	7	99
5	11	-3	411	335	99
5	11	-2	155	114	99
5	11	-1	102	86	99
5	11	0	-16	71	99
5	11	1	-72	31	99
5	11	2	-86	5	99
5	11	3	290	274	99
5	11	4	169	175	99
5	11	5	272	284	99
5	11	6	14	47	99
5	11	7	185	181	99
5	11	8	42	13	99
5	11	9	66	52	99
5	12	-12	99	130	99
5	12	-11	-73	46	99
5	12	-10	82	114	99
5	12	-9	105	171	99
5	12	-8	150	143	99
5	12	-7	163	172	99
5	12	-6	252	253	99
5	12	-5	128	103	99
5	12	-4	295	249	99
5	12	-3	288	259	99
5	12	-2	109	80	99
5	12	-1	46	30	99
5	12	0	93	103	99
5	12	1	47	8	99
5	12	2	144	132	99
5	12	3	77	34	99
5	12	4	221	205	99
5	12	5	173	166	99
5	12	6	130	100	99
5	12	7	87	80	99
5	13	-9	-79	84	99
5	13	-8	147	150	99
5	13	-7	20	57	99
5	13	-6	60	17	99
5	13	-5	67	68	99
5	13	-4	200	182	99
5	13	-3	165	100	99
5	13	-2	324	285	99
5	13	-1	58	16	99
5	13	0	116	80	99
5	13	1	165	161	99
5	13	2	65	56	99
5	13	3	53	70	99
5	13	4	-43	110	99
6	0	-20	255	237	99
6	0	-18	481	456	99
6	0	-16	430	398	99
6	0	-14	180	161	99
6	0	-12	335	310	99
6	0	-10	713	699	99
6	0	-8	913	865	99
6	0	-6	1004	977	99
6	0	-4	26	25	99
6	0	-2	941	906	99
6	0	0	575	559	99
6	0	2	839	809	99
6	0	4	200	185	99
6	0	6	158	158	99
6	0	8	736	699	99
6	0	10	612	581	99
6	0	12	313	302	99
6	0	14	-88	64	99
6	0	16	247	210	99
6	1	-21	165	140	99
6	1	-20	42	21	99
6	1	-19	260	220	99
6	1	-18	142	141	99
6	1	-17	575	530	99
6	1	-16	356	329	99
6	1	-15	310	284	99
6	1	-14	232	219	99
6	1	-13	242	211	99
6	1	-12	258	255	99
6	1	-11	290	271	99
6	1	-10	483	465	99
6	1	-9	1059	1010	99
6	1	-8	273	252	99
6	1	-7	638	622	99
6	1	-6	530	517	99
6	1	-5	773	761	99
6	1	-4	1436	1412	99
6	1	-3	577	562	99
6	1	-2	351	361	99
6	1	-1	928	885	99
6	1	0	273	257	99
6	1	1	1156	1122	99
6	1	2	74	65	99
6	1	3	672	657	99
6	1	4	73	52	99
6	1	5	90	98	99
6	1	6	209	194	99
6	1	7	229	222	99
6	1	8	603	557	99
6	1	9	709	671	99
6	1	10	156	146	99
6	1	11	350	359	99
6	1	12	29	18	99
6	1	13	194	214	99
6	1	14	115	114	99
6	1	15	65	39	99
6	1	16	107	91	99
6	2	-21	149	140	99
6	2	-20	42	78	99
6	2	-19	-82	78	99
6	2	-18	291	261	99
6	2	-17	186	186	99
6	2	-16	616	568	99
6	2	-15	538	508	99
6	2	-14	-34	79	99
6	2	-13	606	596	99
6	2	-12	426	404	99
6	2	-11	782	742	99
6	2	-10	1039	1000	99
6	2	-9	141	138	99
6	2	-8	643	616	99
6	2	-7	310	294	99
6	2	-6	484	469	99
6	2	-5	1048	1028	99
6	2	-4	513	500	99
6	2	-3	1120	1112	99
6	2	-2	656	631	99
6	2	-1	790	753	99
6	2	0	788	765	99
6	2	1	494	508	99
6	2	2	1023	983	99
6	2	3	510	505	99
6	2	4	195	192	99
6	2	5	481	450	99
6	2	6	123	125	99
6	2	7	598	582	99
6	2	8	224	221	99
6	2	9	375	371	99
6	2	10	316	321	99
6	2	11	43	6	99
6	2	12	59	40	99
6	2	13	-61	12	99
6	2	14	159	172	99
6	2	15	141	136	99
6	3	-21	120	92	99
6	3	-20	201	180	99
6	3	-19	132	134	99
6	3	-18	214	164	99
6	3	-17	144	134	99
6	3	-16	373	346	99
6	3	-15	91	90	99
6	3	-14	686	639	99
6	3	-13	214	206	99
6	3	-12	915	901	99
6	3	-11	338	354	99
6	3	-10	344	325	99
6	3	-9	605	560	99
6	3	-8	480	485	99
6	3	-7	563	553	99
6	3	-6	530	508	99
6	3	-5	78	59	99
6	3	-4	1076	1037	99
6	3	-3	110	103	99
6	3	-2	1009	957	99
6	3	-1	559	552	99
6	3	0	498	503	99
6	3	1	492	474	99
6	3	2	244	235	99
6	3	3	703	661	99
6	3	4	982	946	99
6	3	5	60	42	99
6	3	6	473	479	99
6	3	7	129	125	99
6	3	8	324	332	99
6	3	9	31	57	99
6	3	10	-62	42	99
6	3	11	70	75	99
6	3	12	57	7	99
6	3	13	50	2	99
6	3	14	57	118	99
6	3	15	-95	50	99
6	4	-20	-70	69	99
6	4	-19	303	239	99
6	4	-18	-58	52	99
6	4	-17	54	54	99
6	4	-16	301	274	99
6	4	-15	503	464	99
6	4	-14	42	21	99
6	4	-13	413	452	99
6	4	-12	60	34	99
6	4	-11	680	702	99
6	4	-10	332	312	99
6	4	-9	41	19	99
6	4	-8	373	373	99
6	4	-7	315	323	99
6	4	-6	210	209	99
6	4	-5	686	657	99
6	4	-4	117	131	99
6	4	-3	1006	957	99
6	4	-2	-41	9	99
6	4	-1	364	323	99
6	4	0	192	176	99
6	4	1	94	84	99
6	4	2	295	290	99
6	4	3	1036	1002	99
6	4	4	176	191	99
6	4	5	816	810	99
6	4	6	98	86	99
6	4	7	496	513	99
6	4	8	22	12	99
6	4	9	145	140	99
6	4	10	37	18	99
6	4	11	291	299	99
6	4	12	-15	16	99
6	4	13	213	219	99
6	4	14	198	199	99
6	4	15	353	373	99
6	5	-20	143	118	99
6	5	-19	133	125	99
6	5	-18	140	115	99
6	5	-17	311	293	99
6	5	-16	155	166	99
6	5	-15	-72	12	99
6	5	-14	180	192	99
6	5	-13	129	95	99
6	5	-12	309	308	99
6	5	-11	239	241	99
6	5	-10	527	560	99
6	5	-9	543	611	99
6	5	-8	-24	12	99
6	5	-7	407	452	99
6	5	-6	330	351	99
6	5	-5	546	526	99
6	5	-4	1217	1177	99
6	5	-3	159	162	99
6	5	-2	295	284	99
6	5	-1	113	87	99
6	5	0	14	49	99
6	5	1	631	567	99
6	5	2	426	439	99
6	5	3	870	821	99
6	5	4	545	543	99
6	5	5	88	74	99
6	5	6	430	444	99
6	5	7	151	164	99
6	5	8	473	474	99
6	5	9	223	226	99
6	5	10	207	214	99
6	5	11	110	115	99
6	5	12	339	354	99
6	5	13	193	204	99
6	5	14	345	379	99
6	6	-19	80	57	99
6	6	-18	350	302	99
6	6	-17	-82	8	99
6	6	-16	163	176	99
6	6	-15	127	130	99
6	6	-14	-53	69	99
6	6	-13	267	274	99
6	6	-12	169	181	99
6	6	-11	295	314	99
6	6	-10	631	682	99
6	6	-9	169	169	99
6	6	-8	676	763	99
6	6	-7	290	303	99
6	6	-6	703	719	99
6	6	-5	613	608	99
6	6	-4	168	151	99
6	6	-3	411	363	99
6	6	-2	610	546	99
6	6	-1	85	98	99
6	6	0	488	425	99
6	6	1	276	266	99
6	6	2	828	809	99
6	6	3	397	394	99
6	6	4	553	530	99
6	6	5	243	251	99
6	6	6	275	275	99
6	6	7	225	236	99
6	6	8	59	57	99
6	6	9	36	11	99
6	6	10	366	377	99
6	6	11	53	86	99
6	6	12	179	188	99
6	6	13	176	188	99
6	6	14	188	180	99
6	7	-19	314	250	99
6	7	-18	-59	11	99
6	7	-17	393	339	99
6	7	-16	105	53	99
6	7	-15	147	146	99
6	7	-14	300	303	99
6	7	-13	45	11	99
6	7	-12	161	208	99
6	7	-11	345	416	99
6	7	-10	43	56	99
6	7	-9	656	757	99
6	7	-8	101	57	99
6	7	-7	581	598	99
6	7	-6	327	322	99
6	7	-5	485	434	99
6	7	-4	16	6	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	7	-3	297	279	99	6	9	-9	150	199	99	6	11	-4	521	423	99	7	0	9	196	188	99	7	2	-6	-42	25	99
6	7	-2	471	433	99	6	9	-8	-47	107	99	6	11	-3	76	75	99	7	0	11	252	253	99	7	2	-5	252	251	99
6	7	-1	606	556	99	6	9	-7	112	128	99	6	11	-2	402	341	99	7	0	13	323	318	99	7	2	-4	1033	1007	99
6	7	0	245	220	99	6	9	-6	-41	9	99	6	11	-1	249	222	99	7	0	15	118	78	99	7	2	-3	-42	11	99
6	7	1	648	634	99	6	9	-5	-75	9	99	6	11	0	165	125	99	7	1	-21	151	142	99	7	2	-2	734	705	99
6	7	2	93	108	99	6	9	-4	342	298	99	6	11	1	47	33	99	7	1	-20	-32	13	99	7	2	-1	146	144	99
6	7	3	408	401	99	6	9	-3	39	54	99	6	11	2	74	97	99	7	1	-19	111	119	99	7	2	0	824	810	99
6	7	4	201	201	99	6	9	-2	273	231	99	6	11	3	-68	74	99	7	1	-18	358	309	99	7	2	1	84	79	99
6	7	5	231	220	99	6	9	-1	249	225	99	6	11	4	176	169	99	7	1	-17	224	222	99	7	2	2	275	285	99
6	7	6	194	187	99	6	9	0	321	294	99	6	11	5	44	20	99	7	1	-16	572	516	99	7	2	3	732	748	99
6	7	7	128	130	99	6	9	1	293	273	99	6	11	6	207	209	99	7	1	-15	194	187	99	7	2	4	66	16	99
6	7	8	235	230	99	6	9	2	40	35	99	6	11	7	97	104	99	7	1	-14	342	336	99	7	2	5	295	298	99
6	7	9	301	310	99	6	9	3	210	206	99	6	11	8	276	295	99	7	1	-13	288	280	99	7	2	6	131	135	99
6	7	10	-35	20	99	6	9	4	241	239	99	6	12	-11	121	164	99	7	1	-12	307	288	99	7	2	7	68	59	99
6	7	11	288	288	99	6	9	5	179	175	99	6	12	-10	-76	48	99	7	1	-11	484	438	99	7	2	8	432	456	99
6	7	12	-74	30	99	6	9	6	199	179	99	6	12	-9	99	113	99	7	1	-10	317	316	99	7	2	9	71	78	99
6	7	13	171	182	99	6	9	7	365	355	99	6	12	-8	67	29	99	7	1	-9	274	274	99	7	2	10	265	262	99
6	8	-18	255	219	99	6	9	8	217	224	99	6	12	-7	157	170	99	7	1	-8	474	442	99	7	2	11	34	67	99
6	8	-17	22	23	99	6	9	9	218	225	99	6	12	-6	73	24	99	7	1	-7	263	263	99	7	2	12	243	247	99
6	8	-16	339	344	99	6	9	10	112	119	99	6	12	-5	244	190	99	7	1	-6	597	596	99	7	2	13	47	78	99
6	8	-15	139	108	99	6	9	11	60	118	99	6	12	-4	120	55	99	7	1	-5	474	460	99	7	2	14	-44	29	99
6	8	-14	-110	137	99	6	10	-15	333	308	99	6	12	-3	292	235	99	7	1	-4	435	413	99	7	3	-21	202	154	99
6	8	-13	86	90	99	6	10	-14	23	124	99	6	12	-2	-116	16	99	7	1	-3	621	605	99	7	3	-20	149	86	99
6	8	-12	63	60	99	6	10	-13	268	281	99	6	12	-1	76	61	99	7	1	-2	-20	30	99	7	3	-19	315	285	99
6	8	-11	166	210	99	6	10	-12	-127	41	99	6	12	0	-48	74	99	7	1	-1	714	675	99	7	3	-18	51	25	99
6	8	-10	321	394	99	6	10	-11	198	258	99	6	12	1	23	52	99	7	1	0	194	170	99	7	3	-17	284	259	99
6	8	-9	51	72	99	6	10	-10	-30	19	99	6	12	2	59	88	99	7	1	1	406	418	99	7	3	-16	-100	61	99
6	8	-8	273	303	99	6	10	-9	-62	3	99	6	12	3	31	42	99	7	1	2	623	621	99	7	3	-15	387	355	99
6	8	-7	61	41	99	6	10	-8	211	236	99	6	12	4	10	44	99	7	1	3	108	106	99	7	3	-14	-59	26	99
6	8	-6	325	318	99	6	10	-7	132	115	99	6	12	5	154	137	99	7	1	4	171	158	99	7	3	-13	428	404	99
6	8	-5	-25	54	99	6	10	-6	42	78	99	6	13	-7	-132	54	99	7	1	5	33	44	99	7	3	-12	-69	89	99
6	8	-4	193	174	99	6	10	-5	260	228	99	6	13	-6	160	103	99	7	1	6	200	202	99	7	3	-11	840	837	99
6	8	-3	-10	66	99	6	10	-4	-65	53	99	6	13	-5	-51	121	99	7	1	7	92	82	99	7	3	-10	340	334	99
6	8	-2	305	280	99	6	10	-3	524	460	99	6	13	-4	-53	6	99	7	1	8	-32	38	99	7	3	-9	-48	52	99
6	8	-1	156	146	99	6	10	-2	236	207	99	6	13	-3	-44	83	99	7	1	9	283	291	99	7	3	-8	297	303	99
6	8	0	500	466	99	6	10	-1	418	348	99	6	13	-2	80	99	99	7	1	10	204	216	99	7	3	-7	132	144	99
6	8	1	184	175	99	6	10	0	242	215	99	6	13	-1	72	6	99	7	1	11	274	267	99	7	3	-6	144	150	99
6	8	2	532	516	99	6	10	1	338	323	99	6	13	0	53	54	99	7	1	12	114	130	99	7	3	-5	258	258	99
6	8	3	31	58	99	6	10	2	88	27	99	6	13	1	-75	35	99	7	1	13	167	140	99	7	3	-4	73	82	99
6	8	4	44	94	99	6	10	3	112	111	99	6	13	2	127	146	99	7	1	14	243	242	99	7	3	-3	658	649	99
6	8	5	130	118	99	6	10	4	-45	4	99	7	0	-21	54	35	99	7	2	-21	48	57	99	7	3	-2	81	51	99
6	8	6	146	143	99	6	10	5	225	209	99	7	0	-19	145	127	99	7	2	-20	164	157	99	7	3	-1	322	316	99
6	8	7	203	206	99	6	10	6	178	191	99	7	0	-17	588	563	99	7	2	-19	65	80	99	7	3	0	100	96	99
6	8	8	316	332	99	6	10	7	191	198	99	7	0	-15	312	279	99	7	2	-18	193	189	99	7	3	1	886	871	99
6	8	9	149	155	99	6	10	8	179	172	99	7	0	-13	471	441	99	7	2	-17	253	224	99	7	3	2	165	153	99
6	8	10	216	226	99	6	10	9	203	208	99	7	0	-11	184	180	99	7	2	-16	298	288	99	7	3	3	49	2	99
6	8	11	-33	16	99	6	11	-13	-52	8	99	7	0	-9	259	256	99	7	2	-15	377	368	99	7	3	4	137	132	99
6	8	12	147	149	99	6	11	-12	219	232	99	7	0	-7	598	560	99	7	2	-14	332	306	99	7	3	5	135	101	99
6	9	-16	188	176	99	6	11	-11	-171	19	99	7	0	-5	1021	1026	99	7	2	-13	101	103	99	7	3	6	136	126	99
6	9	-15	200	204	99	6	11	-10	209	260	99	7	0	-3	-31	13	99	7	2	-12	776	745	99	7	3	7	469	484	99
6	9	-14	182	217	99	6	11	-9	75	62	99	7	0	-1	252	246	99	7	2	-11	241	224	99	7	3	8	58	95	99
6	9	-13	80	74	99	6	11	-8	110	91	99	7	0	1	615	587	99	7	2	-10	596	589	99	7	3	9	258	270	99
6	9	-12	179	215	99	6	11	-7	79	96	99	7	0	3	51	39	99	7	2	-9	673	654	99	7	3	10	57	43	99
6	9	-11	63	16	99	6	11	-6	208	195	99	7	0	5	107	116	99	7	2	-8	316	306	99	7	3	11	85	80	99
6	9	-10	-102	73	99	6	11	-5	31	65	99	7	0	7	447	440	99	7	2	-7	401	413	99	7	3	12	45	11	99
7	3	13	134	129	99	7	5	-2	38	19	99	7	7	-11	76	81	99	7	9	-14	225	227	99	7	11	-6	-131	101	99
7	3	14	-59	17	99	7	5	-1	82	69	99	7	7	-10	269	326	99	7	9	-13	196	212	99	7	11	-5	189	172	99
7	4	-20	251	203	99	7	5	0	59	42	99	7	7	-9	18	85	99	7	9	-12	124	158	99	7	11	-4	61	93	99
7	4	-19	60	15	99	7	5	1	64	22	99	7	7	-8	343	346	99	7	9	-11	302	405	99	7	11	-3	483	428	99
7	4	-18	353	299	99	7	5	2	723	680	99	7	7	-7	168	164	99	7	9	-10	33	4	99	7	11	-2	28	84	99
7	4	-17	38	50	99	7	5	3	203	214	99	7	7	-6	646	642	99	7	9	-9	84	94	99	7	11	-1	352	310	99
7	4	-16	75	89	99	7	5	4	358	356	99	7	7	-5	160	176	99	7	9	-8	174	179	99	7	11	0	108	96	99
7	4	-15	190	194	99	7	5	5	180	190	99	7	7	-4	473	426	99	7	9	-7	208	205	99	7	11	1	258	232	99
7	4	-14	58	91	99	7	5	6	308	306	99	7	7	-3	76	28	99	7	9	-6	-67	29	99	7	11	2	181	188	99
7	4	-13	159	161	99	7	5	7	43	47	99	7	7	-2	64	47	99	7	9	-5	66	83	99	7	11	3	73	64	99
7	4	-12	366	383	99	7	5	8	61	58	99	7	7	-1	141	124	99	7	9	-4	107	79	99	7	11	4	-14	60	99
7	4	-11	-39	38	99	7	5	9	155	172	99	7	7	0	198	183	99	7	9	-3	329	271	99	7	11	5	107	114	99
7	4	-10	727	758	99	7	5	10	161	163	99	7	7	1	-40	24	99	7	9	-2	55	8	99	7	11	6	129	124	99
7	4	-9	163	164	99	7	5	11	-24	31	99	7	7	2	500	500	99	7	9	-1	371	328	99	7	12	-10	136	121	99
7	4	-8	69	74	99	7	5	12	29	35	99	7	7	3	129	112	99	7	9	0	32	61	99	7	12	-9	85	69	99
7	4	-7	59	87	99	7	5	13	-32	49	99	7	7	4	326	320	99	7	9	1	469	447	99	7	12	-8	27	102	99
7	4	-6	81	74	99	7	6	-19	123	134	99	7	7	5	53	30	99	7	9	2	7	94	99	7	12	-7	33	63	99
7	4	-5	31	12	99	7	6	-18	17	101	99	7	7	6	332	341	99	7	9	3	92	69	99	7	12	-6	60	19	99
7	4	-4	381	375	99	7	6	-17	381	391	99	7	7	7	48	10	99	7	9	4	36	56	99	7	12	-5	353	307	99
7	4	-3	69	90	99	7	6	-16	38	42	99	7	7	8	95	101	99	7	9	5	113	118	99	7	12	-4	128	122	99
7	4	-2	254	235	99	7	6	-15	-73	92	99	7	7	9	79	83	99	7	9	6	70	44	99	7	12	-3	-93	10	99
7	4	-1	300	288	99	7	6	-14	173	187	99	7	7	10	85	79	99	7	9	7	277	293	99	7	12	-2	249	229	99
7	4	0	273	246	99	7	6	-13	170	184	99	7	7	11	-43	51	99	7	9	8	101	101	99	7	12	-1	-37	20	99
7	4	1	134	135	99	7	6	-12	146	144	99	7	7	12	148	165	99	7	9	9	179	185	99	7	12	0	132	120	99
7	4	2	82	69	99	7	6	-11	84	67	99	7	8	-17	253	229	99	7	10	-15	75	89	99	7	12	1	-90	63	99
7	4	3	441	460	99	7	6	-10	-61	28	99	7	8	-16	81	51	99	7	10	-14	137	135	99	7	12	2	60	31	99
7	4	4	421	416	99	7	6	-9	432	452	99	7	8	-15	338	329	99	7	10	-13	41	40	99	7	12	3	157	160	99
7	4	5	85	89	99	7	6	-8	123	131	99	7	8	-14	29	6	99	7	10	-12	313	371	99	7	13	-4	275	240	99
7	4	6	110	129	99	7	6	-7	599	566	99	7	8	-13	212	225	99	7	10	-11	65	123	99	7	13	-3	76	38	99
7	4	7	-41	3	99	7	6	-6	36	28	99	7	8	-12	60	33	99	7	10	-10	372	436	99	8	0	-20	304	266	99
7	4	8	372	393	99	7	6	-5	1093	1048	99	7	8	-11	-109	5	99	7	10	-9	53	18	99	8	0	-18	138	129	99
7	4	9	137	148	99	7	6	-4	158	147	99	7	8	-10	10	83	99	7	10	-8	-24	79	99	8	0	-16	458	419	99
7	4	10	26	10	99	7	6	-3	33	35	99	7	8	-9	251	280	99	7	10	-7	-24	61	99	8	0	-14	450	449	99
7	4	11	-45	6	99	7	6	-2	191	165	99	7	8	-8	194	195	99	7	10	-6	-84	53	99	8	0	-12	568	550	99
7	4	12	20	20	99	7	6	-1	143	145	99	7	8	-7	279	269	99	7	10	-5	66	32	99	8	0	-10	353	354	99
7	4	13	-72	77	99	7	6	0	100	80	99	7	8	-6	191	195	99	7	10	-4	371	335	99	8	0	-8	263	257	99
7	4	14	84	91	99	7	6	1	469	458	99	7	8	-5	235	215	99	7	10	-3	67	58	99	8	0	-6	613	612	99
7	5	-20	-60	63	99	7	6	2	65	50	99	7	8	-4	269	250	99	7	10	-2	448	384	99	8	0	-4	895	897	99
7	5	-19	240	227	99	7	6	3	436	422	99	7	8	-3	211	164	99	7	10	-1	202	190	99	8	0	-2	476	464	99
7	5	-18	149	127	99	7	6	4	-46	5	99	7	8	-2	151	130	99	7	10	0	569	523	99	8	0	0	356	330	99
7	5	-17	154	133	99	7	6	5	342	345	99	7	8	-1	63	28	99	7	10	1	61	40	99	8	0	2	588	579	99
7	5	-16	286	292	99	7	6	6	17	46	99	7	8	0	185	178	99	7	10	2	321	322	99	8	0	4	308	311	99
7	5	-15	83	33	99	7	6	7	427	448	99	7	8	1	241	235	99	7	10	3	97	65	99	8	0	6	428	415	99
7	5	-14	149	164	99	7	6	8	90	49	99	7	8	2	-55	12	99	7	10	4	38	56	99	8	0	8	299	299	99
7	5	-13	68	71	99	7	6	9	-33	30	99	7	8	3	378	376	99	7	10	5	-73	62	99	8	0	10	-38	11	99
7	5	-12	158	184	99	7	6	10	126	134	99	7	8	4	-48	57	99	7	10	6	181	187	99	8	0	12	155	161	99
7	5	-11	238	246	99	7	6	11	119	127	99	7	8	5	129	144	99	7	10	7	88	82	99	8	1	-21	171	158	99
7	5	-10	447	449	99	7	6	12	77	25	99	7	8	6	-48	22	99	7	10	8	287	319	99	8	1	-20	99	93	99
7	5	-9	382	397	99	7	7	-18	334	302	99	7	8	7	34	38	99	7	11	-13	196	172	99	8	1	-19	137	113	99
7	5	-8	384	397	99	7	7	-17	41	5	99	7	8	8	229	242	99	7	11	-12	170	138	99	8	1	-18	221	222	99
7	5	-7	40	56	99	7	7	-16	347	336	99	7	8	9	124	153	99	7	11	-11	258	277	99	8	1	-17	282	256	99
7	5	-6	496	489	99	7	7	-15	-17	36	99	7	8	10	75	78	99	7	11	-10	-67	105	99	8	1	-16	166	151	99
7	5	-5	159	161	99	7	7	-14	-89	111	99	7	8	11	93	94	99	7	11	-9	286	304	99	8	1	-15	361	327	99
7	5	-4	532	536	99	7	7	-13	176	216	99	7	9	-16	-31	172	99	7	11	-8	48	5	99	8	1	-14	223	198	99
7	5	-3	536	511	99	7	7	-12	100	118	99	7	9	-15	-159	85	99	7	11	-7	18	79	99	8	1	-13	645	527	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
8	1	-12	360	337	99	8	2	8	238	239	99	8	4	-5	364	344	99	8	6	-14	196	203	99	8	8	-17	117	99	99
8	1	-11	407	402	99	8	2	9	107	313	99	8	4	-4	117	98	99	8	6	-13	-38	7	99	8	8	-16	228	189	99
8	1	-10	197	207	99	8	2	10	54	70	99	8	4	-3	166	140	99	8	6	-12	276	305	99	8	8	-15	-90	41	99
8	1	-9	42	46	99	8	2	11	265	274	99	8	4	-2	133	119	99	8	6	-11	138	131	99	8	8	-14	285	296	99
8	1	-8	305	300	99	8	2	12	122	111	99	8	4	-1	250	260	99	8	6	-10	24	30	99	8	8	-13	-72	22	99
8	1	-7	206	205	99	8	2	13	276	276	99	8	4	0	201	183	99	8	6	-9	198	191	99	8	8	-12	349	366	99
8	1	-6	612	601	99	8	3	-20	169	150	99	8	4	1	492	480	99	8	6	-8	205	191	99	8	8	-11	168	167	99
8	1	-5	858	856	99	8	3	-19	59	23	99	8	4	2	72	57	99	8	6	-7	251	253	99	8	8	-10	98	77	99
8	1	-4	545	542	99	8	3	-18	340	298	99	8	4	3	360	338	99	8	6	-6	602	579	99	8	8	-9	46	58	99
8	1	-3	563	551	99	8	3	-17	24	16	99	8	4	4	79	74	99	8	6	-5	327	310	99	8	8	-8	119	90	99
8	1	-2	605	603	99	8	3	-16	275	248	99	8	4	5	170	168	99	8	6	-4	863	837	99	8	8	-7	142	141	99
8	1	-1	601	564	99	8	3	-15	39	87	99	8	4	6	144	152	99	8	6	-3	46	38	99	8	8	-6	344	334	99
8	1	0	641	606	99	8	3	-14	203	194	99	8	4	7	195	203	99	8	6	-2	313	299	99	8	8	-5	96	84	99
8	1	1	78	47	99	8	3	-13	57	72	99	8	4	8	64	114	99	8	6	-1	368	352	99	8	8	-4	314	267	99
8	1	2	164	166	99	8	3	-12	273	273	99	8	4	9	328	353	99	8	6	0	195	180	99	8	8	-3	-93	19	99
8	1	3	397	386	99	8	3	-11	110	113	99	8	4	10	137	136	99	8	6	1	423	424	99	8	8	-2	273	254	99
8	1	4	190	204	99	8	3	-10	935	898	99	8	4	11	132	149	99	8	6	2	384	397	99	8	8	-1	47	8	99
8	1	5	357	374	99	8	3	-9	149	154	99	8	4	12	42	34	99	8	6	3	198	202	99	8	8	0	200	191	99
8	1	6	218	228	99	8	3	-8	509	518	99	8	5	-19	-90	5	99	8	6	4	238	247	99	8	8	1	171	185	99
8	1	7	478	493	99	8	3	-7	131	143	99	8	5	-18	507	413	99	8	6	5	-14	12	99	8	8	2	211	217	99
8	1	8	213	217	99	8	3	-6	354	346	99	8	5	-17	225	193	99	8	6	6	330	358	99	8	8	3	190	209	99
8	1	9	21	13	99	8	3	-5	408	427	99	8	5	-16	249	234	99	8	6	7	120	137	99	8	8	4	237	256	99
8	1	10	230	228	99	8	3	-4	6	39	99	8	5	-15	175	161	99	8	6	8	326	360	99	8	8	5	44	47	99
8	1	11	73	79	99	8	3	-3	394	356	99	8	5	-14	69	125	99	8	6	9	148	179	99	8	8	6	284	311	99
8	1	12	389	376	99	8	3	-2	111	83	99	8	5	-13	348	363	99	8	6	10	134	149	99	8	8	7	5	10	99
8	1	13	245	253	99	8	3	-1	180	171	99	8	5	-12	-70	42	99	8	6	11	171	181	99	8	8	8	51	48	99
8	2	-21	172	125	99	8	3	0	823	793	99	8	5	-11	154	172	99	8	7	-18	151	108	99	8	8	9	53	33	99
8	2	-20	73	43	99	8	3	1	176	168	99	8	5	-10	165	188	99	8	7	-17	264	250	99	8	9	-15	108	148	99
8	2	-19	278	250	99	8	3	2	1003	1011	99	8	5	-9	304	289	99	8	7	-16	28	21	99	8	9	-14	-101	35	99
8	2	-18	24	7	99	8	3	3	194	184	99	8	5	-8	531	516	99	8	7	-15	326	279	99	8	9	-13	201	230	99
8	2	-17	146	155	99	8	3	4	257	249	99	8	5	-7	325	314	99	8	7	-14	80	44	99	8	9	-12	268	277	99
8	2	-16	201	180	99	8	3	5	339	341	99	8	5	-6	581	581	99	8	7	-13	284	317	99	8	9	-11	247	246	99
8	2	-15	139	123	99	8	3	6	112	119	99	8	5	-5	621	600	99	8	7	-12	-37	39	99	8	9	-10	337	340	99
8	2	-14	242	254	99	8	3	7	284	299	99	8	5	-4	63	30	99	8	7	-11	189	200	99	8	9	-9	102	103	99
8	2	-13	212	193	99	8	3	8	483	520	99	8	5	-3	122	132	99	8	7	-10	153	153	99	8	9	-8	141	157	99
8	2	-12	547	512	99	8	3	9	156	154	99	8	5	-2	295	266	99	8	7	-9	109	126	99	8	9	-7	85	112	99
8	2	-11	762	746	99	8	3	10	226	248	99	8	5	-1	-9	89	99	8	7	-8	59	12	99	8	9	-6	125	129	99
8	2	-10	-51	41	99	8	3	11	-55	10	99	8	5	0	351	347	99	8	7	-7	173	166	99	8	9	-5	164	158	99
8	2	-9	408	415	99	8	3	12	155	161	99	8	5	1	-72	20	99	8	7	-6	187	188	99	8	9	-4	240	211	99
8	2	-8	143	128	99	8	3	13	-63	25	99	8	5	2	137	131	99	8	7	-5	698	674	99	8	9	-3	176	154	99
8	2	-7	500	484	99	8	4	-20	-117	41	99	8	5	3	185	174	99	8	7	-4	80	84	99	8	9	-2	79	41	99
8	2	-6	462	464	99	8	4	-19	406	335	99	8	5	4	98	104	99	8	7	-3	555	521	99	8	9	-1	46	57	99
8	2	-5	158	156	99	8	4	-18	65	26	99	8	5	5	261	258	99	8	7	-2	143	125	99	8	9	0	266	248	99
8	2	-4	480	484	99	8	4	-17	473	446	99	8	5	6	48	68	99	8	7	-1	437	416	99	8	9	1	65	71	99
8	2	-3	519	489	99	8	4	-16	76	36	99	8	5	7	303	319	99	8	7	0	158	165	99	8	9	2	264	256	99
8	2	-2	500	493	99	8	4	-15	242	222	99	8	5	8	152	166	99	8	7	1	173	166	99	8	9	3	99	106	99
8	2	-1	678	654	99	8	4	-14	120	120	99	8	5	9	-72	60	99	8	7	2	331	321	99	8	9	4	47	28	99
8	2	0	442	446	99	8	4	-13	11	93	99	8	5	10	242	264	99	8	7	3	406	427	99	8	9	5	206	205	99
8	2	1	1027	993	99	8	4	-12	244	237	99	8	5	11	-80	64	99	8	7	4	144	139	99	8	9	6	-40	34	99
8	2	2	257	258	99	8	4	-11	370	386	99	8	5	12	201	202	99	8	7	5	282	300	99	8	9	7	54	83	99
8	2	3	266	273	99	8	4	-10	118	105	99	8	6	-19	70	116	99	8	7	6	157	187	99	8	9	8	190	193	99
8	2	4	558	557	99	8	4	-9	584	553	99	8	6	-18	203	150	99	8	7	7	385	416	99	8	10	-14	-72	59	99
8	2	5	232	238	99	8	4	-8	81	68	99	8	6	-17	135	114	99	8	7	8	117	134	99	8	10	-13	129	92	99
8	2	6	610	629	99	8	4	-7	697	678	99	8	6	-16	426	385	99	8	7	9	57	56	99	8	10	-12	74	33	99
8	2	7	228	227	99	8	4	-6	154	140	99	8	6	-15	-70	114	99	8	7	10	48	76	99	8	10	-11	367	398	99
8	10	-10	197	217	99	9	0	5	282	290	99	9	2	-2	220	209	99	9	4	-11	288	295	99	9	6	-16	193	187	99
8	10	-9	265	261	99	9	0	7	228	230	99	9	2	-1	131	124	99	9	4	-10	404	388	99	9	6	-15	305	272	99
8	10	-8	29	14	99	9	0	9	72	47	99	9	2	0	623	610	99	9	4	-9	122	108	99	9	6	-14	113	117	99
8	10	-7	222	226	99	9	0	11	-31	18	99	9	2	1	91	95	99	9	4	-8	587	590	99	9	6	-13	394	377	99
8	10	-6	18	28	99	9	1	-20	335	297	99	9	2	2	504	507	99	9	4	-7	-70	38	99	9	6	-12	56	53	99
8	10	-5	93	93	99	9	1	-19	151	121	99	9	2	3	250	249	99	9	4	-6	710	673	99	9	6	-11	197	192	99
8	10	-4	143	120	99	9	1	-18	159	137	99	9	2	4	316	333	99	9	4	-5	199	200	99	9	6	-10	184	199	99
8	10	-3	401	349	99	9	1	-17	166	163	99	9	2	5	293	308	99	9	4	-4	110	115	99	9	6	-9	64	12	99
8	10	-2	109	62	99	9	1	-16	181	160	99	9	2	6	195	188	99	9	4	-3	147	159	99	9	6	-8	247	239	99
8	10	-1	278	252	99	9	1	-15	84	55	99	9	2	7	402	419	99	9	4	-2	5	9	99	9	6	-7	-14	65	99
8	10	0	-88	86	99	9	1	-14	316	324	99	9	2	8	199	215	99	9	4	-1	-61	10	99	9	6	-6	351	348	99
8	10	1	342	327	99	9	1	-13	90	84	99	9	2	9	60	68	99	9	4	0	341	366	99	9	6	-5	503	479	99
8	10	2	-41	30	99	9	1	-12	709	700	99	9	2	10	106	110	99	9	4	1	127	141	99	9	6	-4	54	10	99
8	10	3	198	171	99	9	1	-11	389	384	99	9	2	11	31	29	99	9	4	2	438	478	99	9	6	-3	574	539	99
8	10	4	145	131	99	9	1	-10	271	277	99	9	2	12	219	217	99	9	4	3	129	137	99	9	6	-2	284	277	99
8	10	5	104	100	99	9	1	-9	128	136	99	9	3	-20	63	8	99	9	4	4	196	203	99	9	6	-1	634	629	99
8	10	6	42	26	99	9	1	-8	295	306	99	9	3	-19	284	269	99	9	4	5	64	90	99	9	6	0	420	423	99
8	11	-11	-56	38	99	9	1	-7	122	129	99	9	3	-18	-30	35	99	9	4	6	98	84	99	9	6	1	117	103	99
8	11	-10	319	314	99	9	1	-6	357	354	99	9	3	-17	330	303	99	9	4	7	148	145	99	9	6	2	205	215	99
8	11	-9	108	94	99	9	1	-5	208	211	99	9	3	-16	82	102	99	9	4	8	204	221	99	9	6	3	204	210	99
8	11	-8	198	207	99	9	1	-4	682	669	99	9	3	-15	347	335	99	9	4	9	43	50	99	9	6	4	-64	28	99
8	11	-7	-49	43	99	9	1	-3	96	88	99	9	3	-14	120	124	99	9	4	10	162	181	99	9	6	5	232	245	99
8	11	-6	135	146	99	9	1	-2	489	487	99	9	3	-13	275	269	99	9	4	11	-51	26	99	9	6	6	131	145	99
8	11	-5	48	73	99	9	1	-1	229	218	99	9	3	-12	-72	79	99	9	5	-19	252	235	99	9	6	7	334	388	99
8	11	-4	201	175	99	9	1	0	403	383	99	9	3	-11	269	267	99	9	5	-18	49	70	99	9	6	8	175	200	99
8	11	-3	185	180	99	9	1	1	791	799	99	9	3	-10	192	194	99	9	5	-17	509	451	99	9	6	9	221	246	99
8	11	-2	306	289	99	9	1	2	232	238	99	9	3	-9	629	605	99	9	5	-16	185	164	99	9	6	10	-116	74	99
8	11	-1	-13	12	99	9	1	3	215	221	99	9	3	-8	310	318	99	9	5	-15	286	278	99	9	7	-17	106	93	99
8	11	0	324	309	99	9	1	4	203	197	99	9	3	-7	987	986	99	9	5	-14	131	120	99	9	7	-16	135	142	99
8	11	1	-45	15	99	9	1	5	61	50	99	9	3	-6	324	310	99	9	5	-13	202	180	99	9	7	-15	48	1	99
8	11	2	191	190	99	9	1	6	384	384	99	9	3	-5	338	335	99	9	5	-12	277	280	99	9	7	-14	310	288	99
8	11	3	38	43	99	9	1	7	82	79	99	9	3	-4	526	507	99	9	5	-11	237	234	99	9	7	-13	6	18	99
8	11	4	94	37	99	9	1	8	120	131	99	9	3	-3	223	213	99	9	5	-10	151	136	99	9	7	-12	448	453	99
8	12	-8	76	30	99	9	1	9	-76	44	99	9	3	-2	313	317	99	9	5	-9	261	243	99	9	7	-11	42	61	99
8	12	-7	125	93	99	9	1	10	-41	8	99	9	3	-1	382	375	99	9	5	-8	79	47	99	9	7	-10	141	121	99
8	12	-6	8	84	99	9	1	11	27	98	99	9	3	0	35	48	99	9	5	-7	400	405	99	9	7	-9	227	235	99
8	12	-5	164	129	99	9	1	12	-58	47	99	9	3	1	519	518	99	9	5	-6	208	190	99	9	7	-8	103	113	99
8	12	-4	111	116	99	9	2	-20	-91	47	99	9	3	2	57	45	99	9	5	-5	447	433	99	9	7	-7	34	48	99
8	12	-3	124	116	99	9	2	-19	35	27	99	9	3	3	306	293	99	9	5	-4	344	335	99	9	7	-6	303	293	99
8	12	-2	50	49	99	9	2	-18	302	267	99	9	3	4	339	345	99	9	5	-3	152	147	99	9	7	-5	162	164	99
8	12	-1	153	184	99	9	2	-17	-63	29	99	9	3	5	332	328	99	9	5	-2	239	239	99	9	7	-4	571	566	99
8	12	0	57	13	99	9	2	-16	157	140	99	9	3	6	224	241	99	9	5	-1	111	121	99	9	7	-3	264	239	99
8	12	1	197	201	99	9	2	-15	122	116	99	9	3	7	-59	85	99	9	5	0	338	343	99	9	7	-2	500	446	99
9	0	-19	516	481	99	9	2	-14	159	152	99	9	3	8	214	230	99	9	5	1	558	567	99	9	7	-1	286	261	99
9	0	-17	120	122	99	9	2	-13	356	358	99	9	3	9	275	305	99	9	5	2	96	71	99	9	7	0	337	337	99
9	0	-15	257	234	99	9	2	-12	281	260	99	9	3	10	25	30	99	9	5	3	111	129	99	9	7	1	-50	13	99
9	0	-13	732	722	99	9	2	-11	681	656	99	9	3	11	147	173	99	9	5	4	-51	13	99	9	7	2	164	186	99
9	0	-11	458	465	99	9	2	-10	466	469	99	9	4	-19	-107	10	99	9	5	5	67	47	99	9	7	3	79	74	99
9	0	-9	365	355	99	9	2	-9	48	73	99	9	4	-18	436	396	99	9	5	6	259	269	99	9	7	4	175	185	99
9	0	-7	292	299	99	9	2	-8	439	434	99	9	4	-17	40	40	99	9	5	7	135	151	99	9	7	5	53	47	99
9	0	-5	532	539	99	9	2	-7	333	331	99	9	4	-16	454	412	99	9	5	8	272	291	99	9	7	6	268	308	99
9	0	-3	350	347	99	9	2	-6	554	553	99	9	4	-15	68	118	99	9	5	9	104	137	99	9	7	7	95	121	99
9	0	-1	689	678	99	9	2	-5	690	691	99	9	4	-14	399	401	99	9	5	10	120	139	99	9	7	8	150	189	99
9	0	1	102	92	99	9	2	-4	52	84	99	9	4	-13	147	123	99	9	6	-18	175	163	99	9	7	9	120	139	99
9	0	3	392	381	99	9	2	-3	578	566	99	9	4	-12	-41	39	99	9	6	-17	206	186	99	9	8	-16	81	94	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	8	-15	51	62	99	9	10	-3	234	215	99	10	1	-1	355	354	99	10	3	-6	643	615	99	10	5	-9	218	211	99
9	8	-14	200	198	99	9	10	-2	52	11	99	10	1	0	314	309	99	10	3	-5	212	212	99	10	5	-8	68	34	99
9	8	-13	277	290	99	9	10	-1	53	29	99	10	1	1	292	305	99	10	3	-4	83	78	99	10	5	-7	201	206	99
9	8	-12	89	26	99	9	10	0	179	177	99	10	1	2	274	253	99	10	3	-3	309	303	99	10	5	-6	318	305	99
9	8	-11	404	414	99	9	10	1	124	121	99	10	1	3	127	137	99	10	3	-2	255	246	99	10	5	-5	177	167	99
9	8	-10	-84	12	99	9	10	2	279	286	99	10	1	4	173	176	99	10	3	-1	131	140	99	10	5	-4	371	371	99
9	8	-9	141	135	99	9	10	3	121	136	99	10	1	5	55	66	99	10	3	0	45	37	99	10	5	-3	286	281	99
9	8	-8	-63	51	99	9	10	4	178	201	99	10	1	6	128	119	99	10	3	1	106	101	99	10	5	-2	198	206	99
9	8	-7	73	67	99	9	11	-10	58	1	99	10	1	7	178	173	99	10	3	2	145	147	99	10	5	-1	426	426	99
9	8	-6	323	307	99	9	11	-9	178	202	99	10	1	8	50	5	99	10	3	3	79	65	99	10	5	0	57	22	99
9	8	-5	350	342	99	9	11	-8	119	141	99	10	1	9	-59	44	99	10	3	4	213	220	99	10	5	1	138	151	99
9	8	-4	-39	102	99	9	11	-7	129	132	99	10	1	10	-46	51	99	10	3	5	105	102	99	10	5	2	131	141	99
9	8	-3	181	156	99	9	11	-6	-23	35	99	10	2	-19	125	90	99	10	3	6	345	357	99	10	5	3	81	91	99
9	8	-2	248	247	99	9	11	-5	208	203	99	10	2	-18	-66	41	99	10	3	7	108	95	99	10	5	4	44	45	99
9	8	-1	178	190	99	9	11	-4	-135	97	99	10	2	-17	188	163	99	10	3	8	86	47	99	10	5	5	25	17	99
9	8	0	-16	19	99	9	11	-3	70	66	99	10	2	-16	21	46	99	10	3	9	129	149	99	10	5	6	36	36	99
9	8	1	139	121	99	9	11	-2	101	54	99	10	2	-15	170	179	99	10	3	10	-14	9	99	10	5	7	216	230	99
9	8	2	-36	50	99	9	11	-1	162	144	99	10	2	-14	72	91	99	10	4	-19	139	141	99	10	5	8	-66	9	99
9	8	3	118	121	99	9	11	0	121	131	99	10	2	-13	247	246	99	10	4	-18	84	26	99	10	5	9	160	173	99
9	8	4	45	62	99	9	11	1	230	248	99	10	2	-12	196	190	99	10	4	-17	339	311	99	10	6	-17	139	129	99
9	8	5	153	159	99	10	0	-20	361	350	99	10	2	-11	148	147	99	10	4	-16	-100	25	99	10	6	-16	-78	41	99
9	8	6	128	139	99	10	0	-18	385	379	99	10	2	-10	297	300	99	10	4	-15	341	327	99	10	6	-15	125	142	99
9	8	7	196	221	99	10	0	-16	163	159	99	10	2	-9	94	93	99	10	4	-14	-56	42	99	10	6	-14	135	117	99
9	8	8	-48	26	99	10	0	-14	120	76	99	10	2	-8	165	163	99	10	4	-13	392	386	99	10	6	-13	153	140	99
9	9	-14	119	101	99	10	0	-12	659	666	99	10	2	-7	462	475	99	10	4	-12	85	97	99	10	6	-12	359	350	99
9	9	-13	136	171	99	10	0	-10	340	339	99	10	2	-6	257	271	99	10	4	-11	127	119	99	10	6	-11	65	65	99
9	9	-12	209	205	99	10	0	-8	544	571	99	10	2	-5	250	263	99	10	4	-10	214	209	99	10	6	-10	128	141	99
9	9	-11	191	197	99	10	0	-6	389	372	99	10	2	-4	257	240	99	10	4	-9	30	9	99	10	6	-9	176	184	99
9	9	-10	275	254	99	10	0	-4	90	83	99	10	2	-3	190	200	99	10	4	-8	257	256	99	10	6	-8	185	173	99
9	9	-9	112	111	99	10	0	-2	255	249	99	10	2	-2	208	214	99	10	4	-7	445	442	99	10	6	-7	21	23	99
9	9	-8	90	71	99	10	0	0	594	583	99	10	2	-1	89	120	99	10	4	-6	-62	7	99	10	6	-6	55	70	99
9	9	-7	294	290	99	10	0	2	-76	20	99	10	2	0	115	113	99	10	4	-5	552	544	99	10	6	-5	39	17	99
9	9	-6	64	87	99	10	0	4	196	174	99	10	2	1	352	359	99	10	4	-4	-52	38	99	10	6	-4	277	271	99
9	9	-5	24	74	99	10	0	6	39	29	99	10	2	2	93	121	99	10	4	-3	174	173	99	10	6	-3	-84	36	99
9	9	-4	174	181	99	10	0	8	40	31	99	10	2	3	257	271	99	10	4	-2	62	29	99	10	6	-2	437	442	99
9	9	-3	31	30	99	10	0	10	24	50	99	10	2	4	146	146	99	10	4	-1	121	108	99	10	6	-1	-65	80	99
9	9	-2	-61	77	99	10	1	-20	87	91	99	10	2	5	379	383	99	10	4	0	41	17	99	10	6	0	521	517	99
9	9	-1	38	46	99	10	1	-19	370	351	99	10	2	6	81	94	99	10	4	1	120	133	99	10	6	1	17	76	99
9	9	0	54	27	99	10	1	-18	120	107	99	10	2	7	130	156	99	10	4	2	39	68	99	10	6	2	-40	31	99
9	9	1	172	189	99	10	1	-17	179	160	99	10	2	8	200	209	99	10	4	3	35	65	99	10	6	3	100	98	99
9	9	2	-77	11	99	10	1	-16	63	61	99	10	2	9	49	51	99	10	4	4	166	173	99	10	6	4	56	55	99
9	9	3	74	110	99	10	1	-15	32	55	99	10	2	10	176	206	99	10	4	5	206	223	99	10	6	5	58	13	99
9	9	4	152	149	99	10	1	-14	176	189	99	10	3	-19	-75	46	99	10	4	6	26	1	99	10	6	6	230	252	99
9	9	5	231	281	99	10	1	-13	313	318	99	10	3	-18	277	250	99	10	4	7	100	104	99	10	6	7	-95	8	99
9	9	6	76	115	99	10	1	-12	152	144	99	10	3	-17	65	53	99	10	4	8	42	66	99	10	6	8	168	187	99
9	10	-13	76	40	99	10	1	-11	438	445	99	10	3	-16	255	240	99	10	4	9	-89	10	99	10	7	-16	106	67	99
9	10	-12	-91	24	99	10	1	-10	54	92	99	10	3	-15	100	102	99	10	5	-18	198	175	99	10	7	-15	-52	3	99
9	10	-11	-64	55	99	10	1	-9	374	376	99	10	3	-14	420	406	99	10	5	-17	21	3	99	10	7	-14	139	121	99
9	10	-10	249	244	99	10	1	-8	139	127	99	10	3	-13	35	38	99	10	5	-16	315	298	99	10	7	-13	295	298	99
9	10	-9	-51	51	99	10	1	-7	344	359	99	10	3	-12	234	231	99	10	5	-15	-72	10	99	10	7	-12	36	16	99
9	10	-8	175	194	99	10	1	-6	228	225	99	10	3	-11	-50	6	99	10	5	-14	334	325	99	10	7	-11	328	311	99
9	10	-7	-73	28	99	10	1	-5	140	126	99	10	3	-10	208	191	99	10	5	-13	174	167	99	10	7	-10	71	89	99
9	10	-6	233	226	99	10	1	-4	227	232	99	10	3	-9	-13	22	99	10	5	-12	136	135	99	10	7	-9	206	197	99
9	10	-5	60	13	99	10	1	-3	45	16	99	10	3	-8	352	337	99	10	5	-11	186	197	99	10	7	-8	-82	61	99
9	10	-4	9	10	99	10	1	-2	138	127	99	10	3	-7	212	207	99	10	5	-10	50	39	99	10	7	-7	37	89	99
10	7	-6	36	44	99	10	10	-9	74	48	99	11	1	8	115	143	99	11	3	8	107	105	99	11	6	-13	182	152	99
10	7	-5	220	235	99	10	10	-8	-88	53	99	11	2	-19	165	149	99	11	4	-18	-92	45	99	11	6	-12	252	221	99
10	7	-4	144	120	99	10	10	-7	309	323	99	11	2	-18	-3	57	99	11	4	-17	-72	12	99	11	6	-11	215	192	99
10	7	-3	137	116	99	10	10	-6	122	108	99	11	2	-17	59	50	99	11	4	-16	212	194	99	11	6	-10	55	68	99
10	7	-2	184	169	99	10	10	-5	350	321	99	11	2	-16	54	69	99	11	4	-15	-9	49	99	11	6	-9	164	165	99
10	7	-1	366	368	99	10	10	-4	-56	13	99	11	2	-15	93	100	99	11	4	-14	440	433	99	11	6	-8	65	7	99
10	7	0	56	42	99	10	10	-3	84	92	99	11	2	-14	292	285	99	11	4	-13	-62	35	99	11	6	-7	137	149	99
10	7	1	311	337	99	10	10	-2	45	3	99	11	2	-13	63	8	99	11	4	-12	386	384	99	11	6	-6	104	86	99
10	7	2	-46	7	99	10	10	-1	53	42	99	11	2	-12	242	236	99	11	4	-11	-62	7	99	11	6	-5	-54	43	99
10	7	3	-82	61	99	10	10	0	-86	11	99	11	2	-11	-44	37	99	11	4	-10	334	334	99	11	6	-4	169	149	99
10	7	4	-46	2	99	10	10	1	188	204	99	11	2	-10	44	60	99	11	4	-9	146	135	99	11	6	-3	56	2	99
10	7	5	93	93	99	10	11	-5	-105	50	99	11	2	-9	202	212	99	11	4	-8	30	70	99	11	6	-2	171	178	99
10	7	6	42	53	99	10	11	-4	213	202	99	11	2	-8	48	36	99	11	4	-7	213	204	99	11	6	-1	300	317	99
10	7	7	187	219	99	11	0	-19	412	395	99	11	2	-7	401	396	99	11	4	-6	295	282	99	11	6	0	148	146	99
10	8	-15	138	168	99	11	0	-17	408	399	99	11	2	-6	450	462	99	11	4	-5	-34	60	99	11	6	1	288	298	99
10	8	-14	-98	3	99	11	0	-15	396	380	99	11	2	-5	-65	68	99	11	4	-4	437	422	99	11	6	2	55	51	99
10	8	-13	228	233	99	11	0	-13	138	129	99	11	2	-4	242	252	99	11	4	-3	-44	46	99	11	6	3	161	165	99
10	8	-12	246	268	99	11	0	-11	453	451	99	11	2	-3	135	129	99	11	4	-2	483	494	99	11	6	4	111	124	99
10	8	-11	21	39	99	11	0	-9	489	505	99	11	2	-2	460	457	99	11	4	-1	90	72	99	11	6	5	-50	4	99
10	8	-10	259	245	99	11	0	-7	598	620	99	11	2	-1	401	395	99	11	4	0	208	203	99	11	6	6	163	205	99
10	8	-9	-57	9	99	11	0	-5	290	297	99	11	2	0	41	51	99	11	4	1	139	140	99	11	7	-15	72	75	99
10	8	-8	275	282	99	11	0	-3	262	265	99	11	2	1	190	190	99	11	4	2	-65	12	99	11	7	-14	130	137	99
10	8	-7	142	143	99	11	0	-1	251	249	99	11	2	2	191	200	99	11	4	3	-36	33	99	11	7	-13	137	116	99
10	8	-6	94	67	99	11	0	1	563	579	99	11	2	3	196	206	99	11	4	4	154	167	99	11	7	-12	237	231	99
10	8	-5	125	127	99	11	0	3	432	438	99	11	2	4	283	295	99	11	4	5	113	144	99	11	7	-11	44	52	99
10	8	-4	105	114	99	11	0	5	214	203	99	11	2	5	149	160	99	11	4	6	188	198	99	11	7	-10	200	182	99
10	8	-3	212	210	99	11	0	7	119	111	99	11	2	6	379	416	99	11	4	7	81	53	99	11	7	-9	51	2	99
10	8	-2	58	116	99	11	0	9	93	13	99	11	2	7	100	114	99	11	5	-17	50	57	99	11	7	-8	297	294	99
10	8	-1	257	264	99	11	1	-19	-94	111	99	11	2	8	96	120	99	11	5	-16	78	78	99	11	7	-7	-24	30	99
10	8	0	195	184	99	11	1	-18	272	285	99	11	3	-18	-80	7	99	11	5	-15	257	252	99	11	7	-6	179	161	99
10	8	1	87	98	99	11	1	-17	73	42	99	11	3	-17	108	106	99	11	5	-14	58	4	99	11	7	-5	186	163	99
10	8	2	132	130	99	11	1	-16	287	277	99	11	3	-16	-98	24	99	11	5	-13	451	447	99	11	7	-4	-57	29	99
10	8	3	-53	55	99	11	1	-15	64	79	99	11	3	-15	208	201	99	11	5	-12	95	76	99	11	7	-3	-58	57	99
10	8	4	108	129	99	11	1	-14	199	204	99	11	3	-14	-19	19	99	11	5	-11	264	248	99	11	7	-2	56	93	99
10	8	5	114	128	99	11	1	-13	268	286	99	11	3	-13	336	334	99	11	5	-10	96	110	99	11	7	-1	87	78	99
10	9	-13	-68	4	99	11	1	-12	243	229	99	11	3	-12	91	42	99	11	5	-9	69	97	99	11	7	0	359	386	99
10	9	-12	175	165	99	11	1	-11	99	92	99	11	3	-11	281	284	99	11	5	-8	339	341	99	11	7	1	-116	47	99
10	9	-11	198	198	99	11	1	-10	350	340	99	11	3	-10	11	8	99	11	5	-7	51	57	99	11	7	2	190	189	99
10	9	-10	80	63	99	11	1	-9	89	81	99	11	3	-9	292	294	99	11	5	-6	-106	10	99	11	7	3	124	137	99
10	9	-9	196	196	99	11	1	-8	638	644	99	11	3	-8	-23	29	99	11	5	-5	219	216	99	11	7	4	206	219	99
10	9	-8	99	110	99	11	1	-7	256	238	99	11	3	-7	227	233	99	11	5	-4	39	40	99	11	7	5	-74	101	99
10	9	-7	238	223	99	11	1	-6	442	450	99	11	3	-6	53	66	99	11	5	-3	338	346	99	11	8	-13	70	56	99
10	9	-6	305	320	99	11	1	-5	128	110	99	11	3	-5	509	506	99	11	5	-2	175	175	99	11	8	-12	148	133	99
10	9	-5	59	28	99	11	1	-4	193	183	99	11	3	-4	66	94	99	11	5	-1	421	414	99	11	8	-11	227	203	99
10	9	-4	-90	75	99	11	1	-3	-33	51	99	11	3	-3	505	509	99	11	5	0	232	241	99	11	8	-10	65	56	99
10	9	-3	124	122	99	11	1	-2	66	81	99	11	3	-2	123	114	99	11	5	1	41	82	99	11	8	-9	269	256	99
10	9	-2	201	183	99	11	1	-1	318	330	99	11	3	-1	210	209	99	11	5	2	89	94	99	11	8	-8	-87	21	99
10	9	-1	-17	41	99	11	1	0	491	495	99	11	3	0	114	141	99	11	5	3	116	119	99	11	8	-7	470	448	99
10	9	0	21	40	99	11	1	1	148	151	99	11	3	1	-46	2	99	11	5	4	77	85	99	11	8	-6	-44	96	99
10	9	1	-41	7	99	11	1	2	320	330	99	11	3	2	58	117	99	11	5	5	222	235	99	11	8	-5	93	89	99
10	9	2	141	146	99	11	1	3	164	163	99	11	3	3	53	13	99	11	5	6	-7	55	99	11	8	-4	-58	12	99
10	9	3	44	10	99	11	1	4	328	322	99	11	3	4	49	16	99	11	5	7	82	86	99	11	8	-3	66	42	99
10	9	4	142	159	99	11	1	5	329	324	99	11	3	5	274	317	99	11	6	-16	-60	38	99	11	8	-2	155	143	99
10	10	-11	66	40	99	11	1	6	13	1	99	11	3	6	-37	70	99	11	6	-15	140	147	99	11	8	-1	189	203	99
10	10	-10	124	99	99	11	1	7	95	75	99	11	3	7	279	324	99	11	6	-14	99	91	99	11	8	0	97	82	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
11	8	1	217	229	99	12	1	4	113	105	99	12	4	-12	42	34	99	12	6	2	132	156	99	13	1	-1	48	10	99
11	8	2	88	61	99	12	1	5	96	124	99	12	4	-11	373	378	99	12	6	3	98	100	99	13	1	0	64	5	99
11	8	3	170	168	99	12	1	6	218	233	99	12	4	-10	99	96	99	12	7	-13	156	143	99	13	1	1	35	82	99
11	9	-11	20	100	99	12	2	-17	81	54	99	12	4	-9	342	351	99	12	7	-12	-63	30	99	13	1	2	-126	43	99
11	9	-10	207	204	99	12	2	-16	188	176	99	12	4	-8	143	125	99	12	7	-11	76	74	99	13	1	3	60	56	99
11	9	-9	125	114	99	12	2	-15	-48	41	99	12	4	-7	56	3	99	12	7	-10	96	83	99	13	1	4	120	143	99
11	9	-8	235	232	99	12	2	-14	83	66	99	12	4	-6	169	163	99	12	7	-9	167	174	99	13	2	-16	169	154	99
11	9	-7	162	160	99	12	2	-13	247	244	99	12	4	-5	137	130	99	12	7	-8	31	36	99	13	2	-15	219	209	99
11	9	-6	242	230	99	12	2	-12	-12	65	99	12	4	-4	190	184	99	12	7	-7	311	316	99	13	2	-14	32	9	99
11	9	-5	214	204	99	12	2	-11	147	151	99	12	4	-3	418	403	99	12	7	-6	130	153	99	13	2	-13	23	42	99
11	9	-4	51	62	99	12	2	-10	36	33	99	12	4	-2	66	81	99	12	7	-5	45	87	99	13	2	-12	58	59	99
11	9	-3	20	103	99	12	2	-9	177	169	99	12	4	-1	380	385	99	12	7	-4	147	152	99	13	2	-11	37	75	99
11	9	-2	53	40	99	12	2	-8	245	260	99	12	4	0	78	24	99	12	7	-3	-6	64	99	13	2	-10	135	125	99
11	9	-1	69	85	99	12	2	-7	190	175	99	12	4	1	94	83	99	12	7	-2	45	29	99	13	2	-9	-93	16	99
11	9	0	106	119	99	12	2	-6	301	300	99	12	4	2	-55	20	99	12	7	-1	70	84	99	13	2	-8	111	125	99
11	9	1	5	47	99	12	2	-5	289	284	99	12	4	3	78	79	99	12	7	0	104	132	99	13	2	-7	100	126	99
11	10	-7	46	18	99	12	2	-4	-29	57	99	12	4	4	-55	57	99	12	7	1	190	211	99	13	2	-6	40	21	99
11	10	-6	253	255	99	12	2	-3	220	226	99	12	4	5	106	108	99	12	7	2	253	257	99	13	2	-5	67	92	99
11	10	-5	180	170	99	12	2	-2	169	162	99	12	5	-16	-84	7	99	12	8	-11	148	119	99	13	2	-4	53	13	99
11	10	-4	139	136	99	12	2	-1	227	231	99	12	5	-15	154	171	99	12	8	-10	131	112	99	13	2	-3	164	172	99
12	0	-18	268	272	99	12	2	0	284	295	99	12	5	-14	221	253	99	12	8	-9	215	226	99	13	2	-2	134	132	99
12	0	-16	326	333	99	12	2	1	49	64	99	12	5	-13	-54	35	99	12	8	-8	231	235	99	13	2	-1	97	102	99
12	0	-14	462	462	99	12	2	2	175	186	99	12	5	-12	383	387	99	12	8	-7	63	13	99	13	2	0	-36	52	99
12	0	-12	113	123	99	12	2	3	110	90	99	12	5	-11	70	17	99	12	8	-6	308	322	99	13	2	1	-98	21	99
12	0	-10	245	244	99	12	2	4	-37	39	99	12	5	-10	316	315	99	12	8	-5	57	55	99	13	2	2	68	52	99
12	0	-8	611	591	99	12	2	5	227	246	99	12	5	-9	-33	61	99	12	8	-4	99	92	99	13	2	3	53	41	99
12	0	-6	353	351	99	12	2	6	34	62	99	12	5	-8	-65	97	99	12	8	-3	-73	18	99	13	2	4	24	35	99
12	0	-4	287	278	99	12	3	-17	73	43	99	12	5	-7	150	157	99	12	8	-2	-85	53	99	13	3	-15	-35	38	99
12	0	-2	111	107	99	12	3	-16	43	16	99	12	5	-6	147	130	99	12	8	-1	128	135	99	13	3	-14	-71	10	99
12	0	0	213	218	99	12	3	-15	-48	19	99	12	5	-5	102	91	99	12	8	0	182	196	99	13	3	-13	205	180	99
12	0	2	183	190	99	12	3	-14	313	293	99	12	5	-4	174	149	99	13	0	-15	276	286	99	13	3	-12	-112	32	99
12	0	4	384	388	99	12	3	-13	60	4	99	12	5	-3	160	160	99	13	0	-13	323	326	99	13	3	-11	188	191	99
12	0	6	-54	61	99	12	3	-12	237	224	99	12	5	-2	244	257	99	13	0	-11	145	158	99	13	3	-10	-38	15	99
12	1	-18	-113	45	99	12	3	-11	46	23	99	12	5	-1	158	153	99	13	0	-9	57	44	99	13	3	-9	331	332	99
12	1	-17	254	242	99	12	3	-10	338	325	99	12	5	0	183	196	99	13	0	-7	330	349	99	13	3	-8	-116	6	99
12	1	-16	58	48	99	12	3	-9	47	13	99	12	5	1	46	81	99	13	0	-5	247	255	99	13	3	-7	146	142	99
12	1	-15	358	351	99	12	3	-8	256	286	99	12	5	2	84	76	99	13	0	-3	345	346	99	13	3	-6	48	33	99
12	1	-14	68	62	99	12	3	-7	39	4	99	12	5	3	88	81	99	13	0	-1	216	244	99	13	3	-5	65	71	99
12	1	-13	108	120	99	12	3	-6	171	185	99	12	5	4	69	59	99	13	0	1	-33	33	99	13	3	-4	-108	4	99
12	1	-12	128	140	99	12	3	-5	-77	34	99	12	6	-14	233	222	99	13	0	3	90	113	99	13	3	-3	159	138	99
12	1	-11	-37	127	99	12	3	-4	284	296	99	12	6	-13	159	156	99	13	1	-16	220	207	99	13	3	-2	48	54	99
12	1	-10	-9	11	99	12	3	-3	136	113	99	12	6	-12	62	59	99	13	1	-15	28	99	99	13	3	-1	274	291	99
12	1	-9	343	348	99	12	3	-2	480	491	99	12	6	-11	127	142	99	13	1	-14	289	299	99	13	3	0	-46	58	99
12	1	-8	78	87	99	12	3	-1	173	168	99	12	6	-10	65	54	99	13	1	-13	-85	8	99	13	3	1	72	92	99
12	1	-7	512	521	99	12	3	0	83	118	99	12	6	-9	115	101	99	13	1	-12	143	139	99	13	3	2	91	95	99
12	1	-6	184	174	99	12	3	1	133	153	99	12	6	-8	251	253	99	13	1	-11	57	14	99	13	3	3	118	126	99
12	1	-5	240	250	99	12	3	2	57	4	99	12	6	-7	-31	57	99	13	1	-10	68	63	99	13	4	-15	-45	130	99
12	1	-4	-52	28	99	12	3	3	-78	27	99	12	6	-6	-77	89	99	13	1	-9	113	107	99	13	4	-14	149	171	99
12	1	-3	170	168	99	12	3	4	113	119	99	12	6	-5	182	195	99	13	1	-8	202	203	99	13	4	-13	-61	8	99
12	1	-2	59	76	99	12	3	5	-27	25	99	12	6	-4	27	62	99	13	1	-7	-95	2	99	13	4	-12	212	222	99
12	1	-1	220	225	99	12	3	6	166	180	99	12	6	-3	81	109	99	13	1	-6	218	213	99	13	4	-11	90	65	99
12	1	0	64	101	99	12	4	-16	70	60	99	12	6	-2	69	57	99	13	1	-5	32	45	99	13	4	-10	306	302	99
12	1	1	226	242	99	12	4	-15	154	166	99	12	6	-1	99	122	99	13	1	-4	228	237	99	13	4	-9	44	33	99
12	1	2	31	38	99	12	4	-14	65	4	99	12	6	0	140	156	99	13	1	-3	-13	6	99	13	4	-8	332	323	99
12	1	3	227	217	99	12	4	-13	428	416	99	12	6	1	42	10	99	13	1	-2	190	198	99	13	4	-7	103	105	99
13	4	-6	106	111	99	14	1	-11	257	258	99	14	5	-7	64	38	99												
13	4	-5	128	113	99	14	1	-10	31	68	99	14	5	-6	162	153	99												
13	4	-4	51	50	99	14	1	-9	154	168	99	14	5	-5	-58	13	99												
13	4	-3	216	199	99	14	1	-8	159	163	99	14	5	-4	42	52	99												
13	4	-2	277	288	99	14	1	-7	101	83	99	15	0	-9	178	193	99												
13	4	-1	17	35	99	14	1	-6	56	14	99	15	0	-7	-63	6	99												
13	4	0	202	217	99	14	1	-5	191	193	99	15	0	-5	149	158	99												
13	4	1	60	10	99	14	1	-4	50	10	99	15	1	-9	72	10	99												
13	4	2	238	250	99	14	1	-3	327	341	99	15	1	-8	-78	79	99												
13	5	-13	188	183	99	14	1	-2	-25	53	99	15	1	-7	-41	54	99												
13	5	-12	54	20	99	14	1	-1	204	226	99	15	1	-6	-63	33	99												
13	5	-11	220	230	99	14	1	0	-11	16	99	15	1	-5	97	74	99												
13	5	-10	64	89	99	14	1	1	131	128	99																		
13	5	-9	294	307	99	14	2	-13	32	47	99																		
13	5	-8	117	102	99	14	2	-12	-97	42	99																		
13	5	-7	101	115	99	14	2	11	13	29	99																		
13	5	-6	62	54	99	14	2	-10	29	88	99																		
13	5	-5	16	19	99	14	2	-9	158	153	99																		
13	5	-4	168	170	99	14	2	-8	56	45	99																		
13	5	-3	-61	18	99	14	2	-7	129	155	99																		
13	5	-2	116	121	99	14	2	-6	-88	16	99																		
13	5	-1	139	160	99	14	2	-5	151	151	99																		
13	5	0	-85	25	99	14	2	-4	146	146	99																		
13	5	1	185	188	99	14	2	-3	-9	24	99																		
13	6	-12	132	119	99	14	2	-2	224	236	99																		
13	6	-11	47	105	99	14	2	-1	57	84	99																		
13	6	-10	54	76	99	14	2	0	102	62	99																		
13	6	-9	71	42	99	14	3	-13	-24	16	99																		
13	6	-8	128	99	99	14	3	-12	-39	21	99																		
13	6	-7	141	170	99	14	3	-11	-30	27	99																		
13	6	-6	-31	27	99	14	3	-10	171	163	99																		
13	6	-5	46	106	99	14	3	-9	-102	17	99																		
13	6	-4	89	82	99	14	3	-8	220	235	99																		
13	6	-3	121	147	99	14	3	-7	-48	17	99																		
13	6	-2	34	8	99	14	3	-6	201	210	99																		
13	6	-1	-76	23	99	14	3	-5	-66	13	99																		
13	6	0	63	62	99	14	3	-4	201	219	99																		
13	7	-9	174	174	99	14	3	-3	-76	18	99																		
13	7	-8	170	147	99	14	3	-2	113	141	99																		
13	7	-7	-41	15	99	14	3	-1	-76	37	99																		
13	7	-6	178	185	99	14	3	0	181	182	99																		
13	7	-5	21	86	99	14	4	-12	67	5	99																		
13	7	-4	154	154	99	14	4	-11	137	145	99																		
13	7	-3	22	31	99	14	4	-10	-26	15	99																		
14	0	-14	267	273	99	14	4	-9	353	359	99																		
14	0	-12	358	383	99	14	4	-8	-9	9	99																		
14	0	-10	331	341	99	14	4	-7	214	227	99																		
14	0	-8	-43	79	99	14	4	-6	-57	36	99																		
14	0	-6	272	271	99	14	4	-5	202	209	99																		
14	0	-4	370	355	99	14	4	-4	101	68	99																		
14	0	-2	291	324	99	14	4	-3	-74	33	99																		
14	0	0	167	173	99	14	4	-2	126	124	99																		
14	1	-14	192	185	99	14	5	-10	221	228	99																		
14	1	-13	227	230	99	14	5	-9	-44	30	99																		
14	1	-12	54	51	99	14	5	-8	313	317	99																		

APPENDIX 6.II

$[Cd(S_2CNCy_2)_2]\cdot CH_2Cl_2$

Table 6.II.1: Crystallographic Parameters for $[Cd(S_2CN(CH(CH_2)_5)_2)_2]\cdot CH_2Cl_2$

Formula	$C_{26}H_{44}CdN_2S_4.CH_2Cl_2$
Formula weight	710.23
Crystal morphology / colour	needle / colourless
Crystal dimensions (mm)	0.07 x 0.08 x 0.44
Crystal system	monoclinic
Space group	$P\bar{1}$ (#2)
a (Å)	13.557(7)
b (Å)	14.49(2)
c (Å)	9.604(2)
α (°)	100.70(6)
β (°)	91.55(3)
γ (°)	115.58(6)
V (Å^3)	1659(2)
Z	2
$\rho_{calc.}$ (g cm^{-3})	1.421
$F(000)$	736
Temperature (°K)	293
μ (cm^{-1})	10.91
θ limits, cell (°)	12.2 – 17.0
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 17, -17–17, -10–10
Range of transmission factors	0.905 – 1
Scan technique	ω:2θ
No. of data measured	7967
No. of unique data	7647
R_{amal}	0.079
No. of parameters	325
R (I≥0σ(I))	0.254
R_w (I≥0σ(I))	0.184
R (I≥3σ(I))	0.079
R_w (I≥3σ(I))	0.079
Maximum and minimum residual electron density (e Å^{-3})	3.45, -5.74 (located near Cd atom)

Table 6.II.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Cd(S_2CN(CH(CH_2)_5)_2)_2]\cdot CH_2Cl_2$

Atom	*x*	*y*	*z*
Cd	0.05497(8)	-0.00027(8)	0.18282(10)
Cl(1)	0.7086(4)	0.1621(5)	0.7077(5)
Cl(2)	0.7420(5)	0.1987(5)	1.0123(6)
S(1)	-0.0658(3)	-0.1953(3)	0.0896(3)
S(2)	0.0696(2)	-0.0786(2)	-0.1123(3)
S(3)	0.2595(2)	0.1302(3)	0.2332(3)
S(4)	0.1271(2)	0.0287(3)	0.4482(3)
N(1)	-0.0743(8)	-0.2834(8)	-0.1844(10)
N(2)	0.3439(7)	0.1557(7)	0.5019(9)
C(1)	-0.0307(8)	-0.1976(9)	-0.082(1)
C(2)	-0.043(1)	-0.2820(10)	-0.332(1)
C(3)	-0.140(1)	-0.321(1)	-0.447(1)
C(4)	-0.100(1)	-0.310(1)	-0.592(1)
C(5)	-0.027(1)	-0.365(1)	-0.630(2)
C(6)	0.066(1)	-0.329(2)	-0.515(2)
C(7)	0.027(1)	-0.339(1)	-0.370(1)
C(8)	-0.155(1)	-0.3874(9)	-0.162(1)
C(9)	-0.107(1)	-0.432(1)	-0.064(2)
C(10)	-0.186(2)	-0.542(2)	-0.060(2)
C(11)	-0.297(3)	-0.549(2)	-0.021(2)
C(12)	-0.344(2)	-0.505(2)	-0.122(2)
C(13)	-0.266(1)	-0.394(1)	-0.132(1)

Table 6.II.2: Cont.

Atom	*x*	*y*	*z*
C(14)	0.2540(9)	0.1116(10)	0.405(1)
C(15)	0.4555(9)	0.224(1)	0.473(1)
C(16)	0.468(1)	0.325(1)	0.441(1)
C(17)	0.588(1)	0.399(1)	0.427(2)
C(18)	0.635(1)	0.342(2)	0.325(2)
C(19)	0.626(1)	0.243(2)	0.363(2)
C(20)	0.506(1)	0.170(1)	0.367(1)
C(21)	0.3390(9)	0.131(1)	0.646(1)
C(22)	0.396(1)	0.067(1)	0.665(1)
C(23)	0.390(1)	0.045(1)	0.814(2)
C(24)	0.428(1)	0.140(2)	0.931(2)
C(25)	0.365(1)	0.199(1)	0.910(1)
C(26)	0.373(1)	0.228(1)	0.765(1)
C(27)	0.760(2)	0.142(2)	0.852(3)

Table 6.II.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Cd(S_2CN(CH(CH_2)5)2)2]\cdot CH_2Cl_2$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Cd	0.0291(5)	0.0399(6)	0.0379(5)	0.0146(5)	-0.0008(4)	0.0077(4)
Cl(1)	0.103(4)	0.177(6)	0.084(3)	0.058(4)	0.015(3)	0.008(4)
Cl(2)	0.173(6)	0.145(5)	0.094(4)	0.108(5)	0.035(4)	0.049(4)
S(1)	0.059(2)	0.042(2)	0.036(2)	0.011(2)	0.013(2)	0.013(2)
S(2)	0.027(2)	0.037(2)	0.039(2)	0.012(2)	0.006(1)	0.013(2)
S(3)	0.030(2)	0.058(2)	0.028(2)	0.009(2)	0.008(1)	0.014(2)
S(4)	0.024(2)	0.066(3)	0.039(2)	0.006(2)	0.010(1)	0.022(2)
N(1)	0.047(7)	0.032(7)	0.030(6)	0.013(6)	0.011(5)	0.002(5)
N(2)	0.017(5)	0.041(7)	0.031(6)	0.005(5)	0.012(4)	0.010(5)
C(1)	0.023(6)	0.022(7)	0.035(6)	0.014(6)	-0.003(5)	0.002(6)
C(2)	0.049(9)	0.033(8)	0.038(8)	0.012(7)	0.014(7)	0.003(6)
C(3)	0.07(1)	0.07(1)	0.044(8)	0.047(9)	0.012(7)	0.014(8)
C(4)	0.11(1)	0.08(1)	0.031(8)	0.03(1)	0.016(9)	0.019(8)
C(5)	0.08(1)	0.09(1)	0.047(10)	0.03(1)	0.042(9)	-0.002(9)
C(6)	0.05(1)	0.17(2)	0.06(1)	0.04(1)	0.019(9)	0.00(1)
C(7)	0.06(1)	0.11(1)	0.047(9)	0.05(1)	0.011(8)	-0.002(9)
C(8)	0.06(1)	0.015(8)	0.050(8)	0.006(7)	0.001(7)	0.007(6)
C(9)	0.12(1)	0.04(1)	0.08(1)	0.04(1)	0.02(1)	0.035(9)
C(10)	0.20(3)	0.05(1)	0.10(2)	0.02(2)	-0.01(2)	0.04(1)
C(11)	0.19(3)	0.08(2)	0.07(1)	-0.01(2)	0.02(2)	0.05(1)
C(12)	0.10(2)	0.08(1)	0.07(1)	-0.03(1)	0.03(1)	0.00(1)
C(13)	0.049(10)	0.06(1)	0.057(9)	0.004(8)	0.016(7)	0.020(8)

Table 6.II.3: Cont.

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(14)	0.023(7)	0.051(9)	0.032(7)	0.008(6)	0.011(5)	0.016(6)
C(15)	0.021(7)	0.056(10)	0.032(7)	0.012(7)	0.020(5)	0.008(7)
C(16)	0.056(10)	0.043(10)	0.060(9)	0.004(8)	0.009(7)	0.016(8)
C(17)	0.07(1)	0.07(1)	0.08(1)	-0.01(1)	0.012(10)	0.00(1)
C(18)	0.05(1)	0.12(2)	0.07(1)	-0.01(1)	0.029(9)	0.04(1)
C(19)	0.029(9)	0.13(2)	0.056(10)	0.016(10)	0.036(7)	0.03(1)
C(20)	0.035(8)	0.08(1)	0.050(8)	0.026(8)	0.025(7)	0.041(8)
C(21)	0.017(6)	0.064(10)	0.026(7)	0.010(7)	0.016(5)	0.022(7)
C(22)	0.054(9)	0.051(9)	0.032(7)	0.018(8)	0.009(6)	0.020(7)
C(23)	0.05(1)	0.12(2)	0.08(1)	0.04(1)	0.026(9)	0.06(1)
C(24)	0.07(1)	0.12(2)	0.039(9)	0.05(1)	0.019(8)	0.03(1)
C(25)	0.07(1)	0.13(2)	0.027(8)	0.04(1)	0.029(7)	0.026(9)
C(26)	0.07(1)	0.07(1)	0.042(8)	0.034(9)	0.022(7)	0.011(8)
C(27)	0.16(2)	0.18(3)	0.16(2)	0.15(2)	-0.04(2)	-0.04(2)

Table 6.II.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Cd(S_2CN(CH(CH_2)_5)_2)_2]\cdot CH_2Cl_2$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.0038	-0.2091	-0.3337	3.6481
H(3a)	-0.1876	-0.3920	-0.4493	5.0126
H(3b)	-0.1791	-0.2797	-0.4240	5.0126
H(4a)	-0.0580	-0.2373	-0.5903	6.5641
H(4b)	-0.1619	-0.3389	-0.6621	6.5641
H(5a)	-0.0718	-0.4387	-0.6423	7.1174
H(5b)	0.0003	-0.3505	-0.7172	7.1174
H(6a)	0.1039	-0.3722	-0.5393	8.9045
H(6b)	0.1155	-0.2588	-0.5132	8.9045
H(7a)	0.0893	-0.3114	-0.3003	6.0304
H(7b)	-0.0160	-0.4120	-0.3710	6.0304
H(8a)	-0.1701	-0.4341	-0.2556	4.2311
H(9a)	-0.0906	-0.3898	0.0292	6.9818
H(9b)	-0.0415	-0.4317	-0.0973	6.9818
H(10a)	-0.1959	-0.5874	-0.1505	11.4592
H(10b)	-0.1555	-0.5652	0.0104	11.4592
H(11a)	-0.2871	-0.5090	0.0728	11.8333
H(11b)	-0.3471	-0.6197	-0.0266	11.8333
H(12a)	-0.4098	-0.5047	-0.0916	9.9754
H(12b)	-0.3605	-0.5485	-0.2160	9.9754
H(13a)	-0.2939	-0.3732	-0.2040	5.3503
H(13b)	-0.2559	-0.3478	-0.0419	5.3503

Table 6.II.4: Cont.

Atom	*x*	*y*	*z*	B_{eq}
H(15a)	0.5017	0.2439	0.5626	3.1849
H(16a)	0.4231	0.3104	0.3538	5.2248
H(16b)	0.4425	0.3592	0.5161	5.2248
H(17a)	0.5902	0.4567	0.3930	7.7430
H(17b)	0.6301	0.4225	0.5184	7.7430
H(18a)	0.7110	0.3863	0.3240	8.5006
H(18b)	0.5971	0.3232	0.2323	8.5006
H(19a)	0.6669	0.2590	0.4551	6.6636
H(19b)	0.6561	0.2084	0.2948	6.6636
H(20a)	0.4664	0.1515	0.2756	4.1951
H(20b)	0.4995	0.1084	0.3958	4.1951
H(21a)	0.2619	0.0877	0.6512	3.0030
H(22a)	0.4717	0.1043	0.6512	3.8958
H(22b)	0.3632	0.0029	0.5960	3.8958
H(23a)	0.4348	0.0104	0.8250	6.8387
H(23b)	0.3159	-0.0003	0.8209	6.8387
H(24a)	0.4172	0.1200	1.0195	6.8135
H(24b)	0.5045	0.1833	0.9292	6.8135
H(25a)	0.2899	0.1581	0.9191	6.5148
H(25b)	0.3935	0.2626	0.9821	6.5148
H(26a)	0.3260	0.2596	0.7531	4.8625
H(26b)	0.4469	0.2756	0.7597	4.8625
H(27a)	0.8389	0.1640	0.8471	13.9996
H(27b)	0.7256	0.0644	0.8440	13.9996

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 6.II.5: Bond distances (Å) for $[Cd(S_2CN(CH(CH_2)5)2)2]\cdot CH_2Cl_2$

Cd — S(1)	2.540(4)	C(5) — C(6)	1.49(2)
Cd — S(2)	2.897(3)	C(6) — C(7)	1.52(2)
Cd — S(2)*	2.551(3)	C(8) — C(9)	1.52(2)
Cd — S(3)	2.560(3)	C(8) — C(13)	1.50(2)
Cd — S(4)	2.596(3)	C(9) — C(10)	1.50(2)
Cl(1) — C(27)	1.66(2)	C(10) — C(11)	1.53(3)
Cl(2) — C(27)	1.69(2)	C(11) — C(12)	1.51(3)
S(1) — C(1)	1.73(1)	C(12) — C(13)	1.52(2)
S(2) — C(1)	1.76(1)	C(15) — C(16)	1.48(2)
S(3) — C(14)	1.72(1)	C(15) — C(20)	1.52(2)
S(4) — C(14)	1.74(1)	C(16) — C(17)	1.54(2)
N(1) — C(1)	1.32(1)	C(17) — C(18)	1.50(2)
N(1) — C(2)	1.49(1)	C(18) — C(19)	1.51(3)
N(1) — C(8)	1.49(1)	C(19) — C(20)	1.52(2)
N(2) — C(14)	1.34(1)	C(21) — C(22)	1.46(2)
N(2) — C(15)	1.48(1)	C(21) — C(26)	1.52(2)
N(2) — C(21)	1.49(1)	C(22) — C(23)	1.52(2)
C(2) — C(3)	1.53(2)	C(23) — C(24)	1.48(2)
C(2) — C(7)	1.51(2)	C(24) — C(25)	1.48(2)
C(3) — C(4)	1.52(2)	C(25) — C(26)	1.51(2)
C(4) — C(5)	1.52(2)		

* symmetry operation: *-x, -y, -z*

Table 6.II.6: Bond angles (deg.) for $[Cd(S_2CN(CH(CH_2)_5)_2)_2]\cdot CH_2Cl_2$

S(1) — Cd — S(2)	65.4(1)	N(1) — C(2) — C(7)	113(1)
S(1) — Cd — S(2)*	102.0(1)	C(3) — C(2) — C(7)	111(1)
S(1) — Cd — S(3)	139.4(1)	C(2) — C(3) — C(4)	110(1)
S(1) — Cd — S(4)	108.0(1)	C(3) — C(4) — C(5)	113(1)
S(2) — Cd — S(2)*	92.4(1)	C(4) — C(5) — C(6)	112(1)
S(2) — Cd — S(3)	93.6(1)	C(5) — C(6) — C(7)	112(1)
S(2) — Cd — S(4)	146.1(1)	C(2) — C(7) — C(6)	112(1)
S(2)* — Cd — S(3)	113.8(1)	N(1) — C(8) — C(9)	113(1)
S(2)* — Cd — S(4)	121.2(1)	N(1) — C(8) — C(13)	115(1)
S(3) — Cd — S(4)	69.7(1)	C(9) — C(8) — C(13)	114(1)
Cd — S(1) — C(1)	95.5(4)	C(8) — C(9) — C(10)	111(1)
Cd — S(2) — Cd*	87.6(1)	C(9) — C(10) — C(11)	111(2)
Cd — S(2) — C(1)	83.2(4)	C(10) — C(11) — C(12)	111(2)
Cd — S(2)* — C(1)	99.6(4)	C(11) — C(12) — C(13)	114(2)
Cd — S(3) — C(14)	87.3(4)	C(8) — C(13) — C(12)	110(1)
Cd — S(4) — C(14)	85.8(4)	S(3) — C(14) — S(4)	117.2(6)
C(1) — N(1) — C(2)	121(1)	S(3) — C(14) — N(2)	122.3(8)
C(1) — N(1) — C(8)	124(1)	S(4) — C(14) — N(2)	120.5(8)
C(2) — N(1) — C(8)	115.3(9)	N(2) — C(15) — C(16)	114(1)
C(14) — N(2) — C(15)	124.1(9)	N(2) — C(15) — C(20)	115(1)
C(14) — N(2) — C(21)	121.3(9)	C(16) — C(15) — C(20)	112(1)
C(15) — N(2) — C(21)	114.4(8)	C(15) — C(16) — C(17)	113(1)
S(1) — C(1) — S(2)	115.8(6)	C(16) — C(17) — C(18)	110(1)
S(1) — C(1) — N(1)	122.5(9)	C(17) — C(18) — C(19)	113(1)
S(2) — C(1) — N(1)	121.7(9)	C(18) — C(19) — C(20)	109(1)
N(1) — C(2) — C(3)	114(1)	C(15) — C(20) — C(19)	110(1)

Table 6.II.6: Cont.

N(2) — C(21) — C(22)	113(1)	C(23) — C(24) — C(25)	109(1)
N(2) — C(21) — C(26)	113(1)	C(24) — C(25) — C(26)	113(1)
C(22) — C(21) — C(26)	114(1)	C(21) — C(26) — C(25)	111(1)
C(21) — C(22) — C(23)	111(1)	Cl(1) — C(27) — Cl(2)	117(1)
C(22) — C(23) — C(24)	114(1)		

* symmetry operation: -*x*, -*y*, -*z*

Table 6.II.7: Observed and calculated structure factors for $[Cd(S_2CN(CH(CH_2)_5)_2)_2]\cdot CH_2Cl_2$

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
0	0	3	670	670	12	0	3	8	278	329	11	0	7	2	216	211	12	1	-14	5	236	195	24	1	-8	11	156	59	25
0	0	4	298	303	8	0	4	-11	262	310	17	0	7	3	392	393	11	1	-14	8	220	157	34	1	-7	-8	378	350	20
0	0	5	251	264	8	0	4	-9	239	239	15	0	7	4	266	263	12	1	-13	-3	273	215	24	1	-7	-6	393	350	16
0	0	6	174	192	10	0	4	-8	615	664	15	0	7	5	369	392	12	1	-13	-1	240	162	23	1	-7	-5	362	283	15
0	0	7	183	213	13	0	4	-5	651	668	15	0	7	6	269	273	14	1	-13	2	239	196	22	1	-7	-3	579	550	16
0	0	8	228	253	12	0	4	-4	136	169	14	0	7	8	166	217	20	1	-13	3	180	210	27	1	-7	-1	387	389	11
0	0	11	168	225	17	0	4	-3	411	371	10	0	8	-9	180	152	23	1	-13	5	316	313	19	1	-7	0	277	251	12
0	1	-10	217	206	18	0	4	-1	902	867	15	0	8	-8	235	217	18	1	-12	-3	241	186	23	1	-7	1	949	816	19
0	1	-9	205	186	17	0	4	0	267	274	7	0	8	-6	349	361	13	1	-12	2	291	271	20	1	-7	2	699	654	16
0	1	-8	252	293	14	0	4	2	399	387	10	0	8	-5	645	659	15	1	-12	3	273	244	18	1	-7	3	682	603	16
0	1	-6	260	294	10	0	4	3	899	896	16	0	8	-3	509	527	12	1	-12	4	196	153	22	1	-7	5	460	428	12
0	1	-5	258	295	9	0	4	4	109	99	15	0	8	-2	614	661	16	1	-12	5	323	294	17	1	-7	6	215	225	17
0	1	-4	472	450	13	0	4	5	295	299	9	0	8	0	275	272	10	1	-12	8	225	154	23	1	-7	8	387	431	14
0	1	-3	791	753	14	0	4	6	548	555	14	0	8	2	463	485	13	1	-12	10	202	194	29	1	-6	-9	180	164	29
0	1	-2	1191	1138	18	0	4	8	212	257	13	0	8	3	404	412	11	1	-11	-4	218	122	24	1	-6	-8	384	343	18
0	1	2	459	465	10	0	5	-11	269	362	19	0	8	5	330	367	12	1	-11	-3	326	279	19	1	-6	-6	230	221	20
0	1	3	880	926	15	0	5	-9	198	232	19	0	8	7	149	84	18	1	-11	0	732	645	20	1	-6	-3	628	599	15
0	1	4	388	389	11	0	5	-8	402	412	12	0	9	-8	346	330	18	1	-11	1	195	154	24	1	-6	-1	472	486	12
0	1	5	299	317	8	0	5	-5	260	299	10	0	9	-5	526	544	14	1	-11	2	454	407	14	1	-6	0	429	448	12
0	1	6	104	135	15	0	5	-4	206	204	10	0	9	-3	341	349	12	1	-11	3	516	498	14	1	-6	1	384	361	10
0	1	7	215	207	10	0	5	-3	155	165	11	0	9	-2	270	279	13	1	-11	4	291	307	17	1	-6	2	294	320	9
0	1	8	205	247	12	0	5	-1	584	598	13	0	9	-1	144	129	18	1	-11	5	195	206	26	1	-6	3	643	601	17
0	1	9	114	115	18	0	5	0	878	926	15	0	9	0	375	390	11	1	-11	8	237	243	23	1	-6	4	162	112	15
0	1	11	166	166	17	0	5	1	466	523	13	0	9	3	170	178	18	1	-10	-3	410	342	16	1	-6	5	381	374	11
0	2	-10	152	131	22	0	5	3	728	745	15	0	9	5	190	155	17	1	-10	-1	409	372	15	1	-6	6	271	272	12
0	2	-8	377	380	12	0	5	5	241	274	11	0	10	-10	204	195	31	1	-10	0	850	728	23	1	-6	7	150	107	21
0	2	-6	486	505	12	0	5	6	432	416	12	0	10	-8	262	268	24	1	-10	2	373	358	13	1	-6	8	406	409	13
0	2	-5	765	769	15	0	5	8	244	265	14	0	10	-5	511	504	13	1	-10	3	303	300	13	1	-6	10	186	112	18
0	2	-4	581	540	13	0	5	10	140	129	19	0	10	-4	290	295	15	1	-10	4	202	167	18	1	-6	11	232	261	17
0	2	-3	1186	1150	19	0	6	-11	203	242	22	0	10	-3	380	385	13	1	-10	5	562	519	16	1	-5	-8	255	266	21
0	2	-2	583	571	12	0	6	-8	213	207	17	0	10	-2	333	345	14	1	-10	7	177	213	26	1	-5	-7	196	178	21
0	2	-1	74	69	11	0	6	-7	147	134	20	0	10	-1	345	336	12	1	-10	8	232	226	20	1	-5	-6	287	233	14
0	2	0	105	77	9	0	6	-6	152	129	17	0	10	0	446	458	12	1	-9	-5	199	181	27	1	-5	-4	181	183	17
0	2	1	1042	998	16	0	6	-5	334	380	11	0	10	1	248	287	15	1	-9	-3	372	326	15	1	-5	-3	517	492	13
0	2	2	475	452	11	0	6	-4	127	130	15	0	10	3	291	304	13	1	-9	-1	230	216	18	1	-5	-2	374	364	10
0	2	3	854	865	15	0	6	-2	369	382	10	0	11	-10	284	221	27	1	-9	0	569	497	16	1	-5	0	510	533	12
0	2	5	271	278	8	0	6	-1	179	188	11	0	11	-6	246	213	22	1	-9	2	389	403	12	1	-5	1	623	517	14
0	2	6	212	223	9	0	6	0	806	844	15	0	11	-4	348	367	16	1	-9	3	150	329	11	1	-5	2	586	544	14
0	2	7	267	300	10	0	6	1	180	190	10	0	11	-3	289	306	18	1	-9	4	168	162	21	1	-5	3	241	248	11
0	2	8	206	256	12	0	6	2	147	166	13	0	11	-2	326	281	15	1	-9	5	466	435	13	1	-5	4	119	12	17
0	2	9	177	192	12	0	6	3	597	612	16	0	11	-1	370	364	13	1	-9	6	152	94	25	1	-5	5	535	526	13
0	3	-8	569	609	15	0	6	4	133	119	16	0	11	0	289	300	15	1	-8	-8	220	149	26	1	-5	6	315	329	12
0	3	-7	187	204	14	0	6	5	254	282	12	0	11	1	254	247	16	1	-8	-6	483	402	16	1	-5	7	139	182	22
0	3	-6	318	328	10	0	6	6	334	347	12	0	12	-7	225	113	29	1	-8	-5	336	285	17	1	-5	8	716	698	17
0	3	-5	1062	1038	19	0	6	7	229	188	14	0	12	-6	308	262	23	1	-8	-3	436	412	13	1	-5	10	194	193	19
0	3	-4	539	520	14	0	6	8	287	308	14	0	12	-3	325	276	18	1	-8	-1	327	292	13	1	-5	11	229	287	18
0	3	-3	861	857	15	0	6	9	167	178	18	0	12	-2	300	276	19	1	-8	0	471	409	13	1	-4	-9	156	158	26
0	3	-1	570	604	11	0	7	-8	337	366	14	0	12	3	180	168	23	1	-8	1	255	242	13	1	-4	-8	326	311	15
0	3	0	244	213	7	0	7	-6	274	262	14	0	13	-2	226	223	26	1	-8	2	677	670	17	1	-4	-7	394	364	13
0	3	1	996	961	16	0	7	-5	640	689	18	0	13	0	215	203	22	1	-8	3	373	377	10	1	-4	-6	504	463	14
0	3	2	876	848	15	0	7	-3	485	516	11	0	13	3	283	287	20	1	-8	4	303	282	12	1	-4	-5	520	490	14
0	3	3	1146	1100	19	0	7	-2	918	920	18	0	14	0	234	211	26	1	-8	5	751	710	20	1	-4	-3	178	182	13
0	3	5	429	454	12	0	7	-1	302	303	9	0	15	0	291	237	28	1	-8	6	482	490	13	1	-4	-2	321	323	9
0	3	6	658	660	16	0	7	0	434	484	11	1	-15	0	213	162	35	1	-8	7	304	267	14	1	-4	-1	445	462	11
0	3	7	362	398	10	0	7	1	177	182	12	1	-14	-3	257	232	28	1	-8	8	217	240	20	1	-4	0	1142	1257	19
1	-4	1	543	535	12	1	0	-4	1088	1075	18	1	3	3	1301	1229	21	1	7	-2	474	518	13	1	12	0	196	155	21
1	-4	3	150	147	13	1	0	-3	1223	1237	19	1	3	5	360	371	10	1	7	-1	620	621	16	1	13	-4	197	100	31
1	-4	4	311	333	10	1	0	-2	201	180	7	1	3	6	484	486	13	1	7	0	442	475	12	1	13	-3	249	214	28
1	-4	5	817	806	18	1	0	2	617	567	11	1	3	7	139	171	18	1	7	1	158	167	14	1	13	2	304	278	19
1	-4	6	409	404	11	1	0	3	626	611	12	1	3	8	121	99	19	1	7	2	590	581	16	1	14	-3	220	155	36
1	-4	7	131	157	21	1	0	4	177	165	8	1	3	10	120	187	18	1	7	3	183	164	14	1	14	-1	219	215	32
1	-4	8	696	695	16	1	0	6	224	239	10	1	4	-12	280	318	21	1	7	4	298	298	12	1	14	0	307	233	23
1	-4	11	168	220	21	1	0	7	234	260	11	1	4	-8	503	519	14	1	7	5	331	348	13	1	14	2	257	202	26
1	-3	-7	196	214	17	1	0	8	381	400	11	1	4	-5	269	272	10	1	7	6	288	286	13	1	15	-3	296	199	34
1	-3	-6	681	682	19	1	0	11	195	247	16	1	4	-4	360	370	10	1	7	8	159	150	21	1	15	-1	277	250	32
1	-3	-5	610	594	17	1	1	-10	169	173	23	1	4	-3	321	312	9	1	8	-9	309	319	19	2	-15	5	213	170	30
1	-3	-4	321	303	9	1	1	-8	234	258	16	1	4	-2	343	366	9	1	8	-8	322	327	19	2	-15	8	317	263	31
1	-3	-3	543	518	14	1	1	-7	531	527	14	1	4	-1	439	424	12	1	8	-6	392	379	14	2	-14	5	399	303	17
1	-3	-2	425	382	10	1	1	-6	448	465	11	1	4	0	442	433	12	1	8	-5	534	534	13	2	-14	8	273	222	29
1	-3	-1	765	801	14	1	1	-5	329	336	9	1	4	1	143	103	10	1	8	-4	235	238	14	2	-13	0	212	180	30
1	-3	0	1432	1763	22	1	1	-4	404	396	10	1	4	2	555	534	13	1	8	-3	260	260	12	2	-13	2	291	269	20
1	-3	1	143	120	10	1	1	-3	1119	1088	18	1	4	3	1149	1106	19	1	8	-2	326	325	11	2	-13	4	190	116	25
1	-3	2	474	490	12	1	1	-2	215	212	7	1	4	5	377	361	11	1	8	-1	306	298	11	2	-13	5	399	359	17
1	-3	3	533	515	13	1	1	-1	1210	1195	18	1	4	6	275	279	11	1	8	1	386	400	10	2	-12	-6	204	97	32
1	-3	4	543	511	14	1	1	1	264	255	6	1	4	7	355	353	11	1	8	2	560	549	14	2	-12	-3	197	209	30
1	-3	5	816	793	17	1	1	2	116	110	10	1	4	10	133	160	21	1	8	3	133	148	22	2	-12	-1	194	199	30
1	-3	6	387	385	10	1	1	3	118	115	10	1	5	-12	234	225	23	1	8	4	232	236	14	2	-12	0	523	474	15
1	-3	7	370	374	11	1	1	4	292	301	8	1	5	-8	209	208	19	1	8	5	277	317	15	2	-12	2	204	171	24
1	-3	8	249	259	14	1	1	5	157	164	9	1	5	-5	140	142	17	1	8	6	193	215	17	2	-12	5	235	161	21
1	-2	-8	157	139	17	1	1	6	292	318	9	1	5	-4	317	343	9	1	8	7	136	72	21	2	-12	9	213	166	24
1	-2	-7	137	130	19	1	1	7	126	114	17	1	5	-3	384	412	10	1	9	-9	345	352	23	2	-11	-4	258	287	24
1	-2	-6	369	378	10	1	1	8	259	305	11	1	5	-1	1032	1025	18	1	9	-8	253	281	25	2	-11	-3	384	372	17
1	-2	-5	495	511	12	1	1	11	219	233	14	1	5	0	739	744	15	1	9	-6	286	309	19	2	-11	-1	418	413	16
1	-2	-3	663	657	14	1	2	-9	205	201	18	1	5	1	172	146	10	1	9	-5	392	379	13	2	-11	0	681	620	18
1	-2	-2	173	181	8	1	2	-8	306	302	14	1	5	2	270	286	9	1	9	-4	430	418	12	2	-11	2	454	415	14
1	-2	-1	218	221	7	1	2	-7	433	428	11	1	5	3	535	533	15	1	9	-3	174	136	18	2	-11	3	397	377	13
1	-2	1	452	450	10	1	2	-6	429	477	11	1	5	4	129	112	17	1	9	-2	190	194	17	2	-11	8	219	185	23
1	-2	2	746	734	13	1	2	-5	477	478	12	1	5	5	483	448	13	1	9	-1	272	260	13	2	-10	-4	310	281	19
1	-2	3	886	863	15	1	2	-4	141	130	13	1	5	6	210	196	14	1	9	0	194	191	15	2	-10	-3	493	473	15
1	-2	4	522	442	14	1	2	-3	102	93	15	1	5	7	319	323	12	1	9	3	183	189	19	2	-10	-1	459	442	14
1	-2	5	411	395	11	1	2	-2	151	125	9	1	6	-8	173	169	22	1	10	-6	417	439	17	2	-10	0	444	469	13
1	-2	7	442	430	11	1	2	-1	1153	1166	18	1	6	-6	140	126	22	1	10	-4	367	357	15	2	-10	1	195	179	20
1	-2	8	228	232	14	1	2	0	682	638	12	1	6	-5	740	740	18	1	10	-3	327	334	15	2	-10	2	306	256	14
1	-1	-8	258	264	14	1	2	1	177	167	8	1	6	-4	131	187	17	1	10	-2	279	258	15	2	-10	4	257	219	18
1	-1	-5	498	518	11	1	2	2	577	538	12	1	6	-3	376	413	10	1	10	-1	314	283	13	2	-10	6	229	163	20
1	-1	-4	772	802	15	1	2	3	1082	1044	18	1	6	-2	421	414	11	1	10	0	293	292	14	2	-10	8	287	300	18
1	-1	-3	1672	1713	25	1	2	5	221	206	8	1	6	-1	135	164	14	1	10	1	237	225	15	2	-9	-6	275	255	22
1	-1	-2	1254	1191	19	1	2	6	428	442	11	1	6	0	467	497	11	1	10	3	162	185	21	2	-9	-4	282	226	19
1	-1	2	540	503	11	1	2	7	177	190	13	1	6	1	254	287	9	1	11	-9	217	133	35	2	-9	-3	468	436	14
1	-1	3	1369	1305	21	1	2	8	178	218	12	1	6	2	403	414	10	1	11	-6	381	352	19	2	-9	-1	336	332	13
1	-1	4	333	316	10	1	3	-9	218	230	18	1	6	3	138	156	16	1	11	-4	172	183	27	2	-9	0	225	251	16
1	-1	5	103	121	15	1	3	-8	419	424	12	1	6	4	409	381	12	1	11	-3	293	326	18	2	-9	1	435	397	12
1	-1	6	113	127	16	1	3	-7	211	173	14	1	6	5	459	434	12	1	11	-2	234	229	19	2	-9	2	480	467	12
1	-1	7	153	171	15	1	3	-6	240	243	11	1	6	6	265	242	13	1	11	-1	252	183	16	2	-9	3	351	351	12
1	-1	8	268	313	13	1	3	-5	261	269	10	1	6	7	192	158	16	1	11	0	289	290	15	2	-9	4	185	123	19
1	-1	10	138	129	19	1	3	-4	368	370	10	1	7	-8	266	299	19	1	11	1	170	154	21	2	-9	6	174	184	24
1	0	-11	175	211	24	1	3	-3	161	111	10	1	7	-7	203	196	20	1	12	-6	321	258	23	2	-8	-6	390	305	20
1	0	-8	220	242	16	1	3	-2	172	177	9	1	7	-6	578	566	16	1	12	-5	220	177	26	2	-8	-5	215	188	22
1	0	-7	189	158	13	1	3	0	1131	1060	18	1	7	-5	755	781	20	1	12	-3	287	251	20	2	-8	-3	166	150	24
1	0	-5	509	507	14	1	3	2	784	715	14	1	7	-3	346	364	10	1	12	-2	330	275	18	2	-5	-2	257	271	14

h	k	l	Fo	Fc	sigF
2	-8	-1	348	372	12
2	-8	0	262	310	13
2	-8	1	320	321	12
2	-8	2	535	513	13
2	-8	3	399	376	12
2	-8	4	486	469	13
2	-8	5	553	517	15
2	-8	6	390	366	13
2	-8	7	224	174	18
2	-8	8	259	272	18
2	-7	-8	340	308	19
2	-7	-7	280	209	19
2	-7	-6	227	186	20
2	-7	-5	213	138	19
2	-7	-4	224	199	17
2	-7	-2	422	436	12
2	-7	-1	409	455	12
2	-7	0	274	345	12
2	-7	2	809	732	18
2	-7	3	495	486	14
2	-7	4	292	273	12
2	-7	5	592	557	15
2	-7	6	274	273	14
2	-7	8	238	265	18
2	-7	10	205	191	20
2	-6	-9	259	190	21
2	-6	-7	177	149	25
2	-6	-4	413	376	12
2	-6	-3	186	177	15
2	-6	-2	457	451	13
2	-6	-1	254	323	11
2	-6	0	440	534	12
2	-6	1	272	282	10
2	-6	2	534	529	13
2	-6	3	593	625	17
2	-6	5	596	577	14
2	-6	7	568	532	16
2	-6	8	358	343	14
2	-6	11	180	147	20
2	-5	-9	204	207	24
2	-5	-5	162	117	18
2	-5	-4	469	429	12
2	-5	-3	564	555	13
2	-5	-1	237	252	11
2	-5	0	469	541	12
2	-5	1	587	682	15
2	-5	2	162	174	12
2	-5	3	645	672	15
2	-5	4	506	509	13
2	-5	5	593	598	14
2	-5	7	576	572	16
2	-5	8	497	459	14
2	-4	-9	165	163	25
2	-4	-8	187	169	20
2	-4	-7	212	220	19
2	-4	-6	383	367	13
2	-4	-5	506	464	12
2	-4	-4	201	154	14
2	-4	-3	1141	1092	20
2	-4	-2	688	710	15
2	-4	-1	304	338	9
2	-4	0	648	739	14
2	-4	1	869	992	15
2	-4	2	581	653	13
2	-4	3	575	550	14
2	-4	4	811	827	17
2	-4	5	558	554	16
2	-4	7	390	372	11
2	-4	8	397	390	12
2	-3	-9	208	208	19
2	-3	-8	203	197	18
2	-3	-7	475	480	12
2	-3	-6	347	330	11
2	-3	-5	606	576	17
2	-3	-4	170	170	13
2	-3	-3	801	742	16
2	-3	-2	317	302	9
2	-3	-1	787	845	15
2	-3	0	1116	1289	18
2	-3	1	1052	1168	17
2	-3	2	502	512	12
2	-3	4	1587	1511	25
2	-3	5	761	748	17
2	-3	6	352	360	10
2	-3	7	309	296	11
2	-3	8	148	153	19
2	-2	-9	233	285	19
2	-2	-8	208	218	16
2	-2	-7	430	418	12
2	-2	-6	530	584	14
2	-2	-5	669	685	16
2	-2	-4	303	298	9
2	-2	-3	299	285	9
2	-2	-2	430	386	10
2	-2	-1	763	714	13
2	-2	0	462	543	10
2	-2	1	129	125	9
2	-2	2	625	625	12
2	-2	3	329	337	9
2	-2	4	1046	990	18
2	-2	7	155	150	16
2	-2	8	166	197	18
2	-2	10	145	157	24
2	-2	11	214	224	16
2	-1	-8	406	412	13
2	-1	-7	275	310	13
2	-1	-6	563	591	13
2	-1	-5	305	303	9
2	-1	-4	1279	1225	21
2	-1	-3	471	456	12
2	-1	-2	111	95	11
2	-1	-1	1224	1156	18
2	-1	0	783	774	12
2	-1	1	499	447	10
2	-1	2	582	574	12
2	-1	3	340	345	9
2	-1	4	202	207	9
2	-1	5	195	170	10
2	-1	6	106	103	18
2	-1	7	209	196	13
2	-1	8	391	386	11
2	-1	11	237	292	16
2	0	-8	333	356	14
2	0	-7	282	320	14
2	0	-6	460	472	13
2	0	-4	1435	1445	23
2	0	-3	732	732	14
2	0	-2	88	80	14
2	0	-1	762	783	12
2	0	0	626	621	11
2	0	1	1214	1199	18
2	0	2	88	73	11
2	0	3	616	631	12
2	0	5	163	150	9
2	0	7	729	759	18
2	0	8	249	290	12
2	0	10	221	259	15
2	0	11	284	334	15
2	1	-8	191	62	19
2	1	-7	347	371	13
2	1	-6	384	389	11
2	1	-5	383	345	10
2	1	-4	653	664	15
2	1	-3	1023	1000	17
2	1	-2	329	310	9
2	1	-1	1582	1594	23
2	1	0	201	201	6
2	1	1	177	173	7
2	1	2	111	102	10
2	1	3	727	733	14
2	1	4	341	343	8
2	1	5	359	381	9
2	1	6	276	271	9
2	1	7	527	560	13
2	1	10	208	235	13
2	2	-10	159	141	26
2	2	-9	184	221	24
2	2	-7	383	399	12
2	2	-6	262	254	12
2	2	-5	157	175	15
2	2	-4	448	440	11
2	2	-3	291	281	8
2	2	-2	426	407	9
2	2	-1	872	889	15
2	2	0	1002	994	16
2	2	2	617	591	13
2	2	3	576	541	13
2	2	4	269	266	8
2	2	5	577	603	15
2	2	6	467	494	12
2	2	7	295	313	10
2	2	8	148	190	16
2	2	10	194	228	13
2	3	-9	213	213	18
2	3	-7	284	274	14
2	3	-6	248	244	13
2	3	-5	402	400	11
2	3	-4	432	427	12
2	3	-2	100	138	16
2	3	-1	832	826	15
2	3	0	1384	1394	21
2	3	1	271	266	7
2	3	2	1148	1059	19
2	3	3	443	431	11
2	3	4	239	245	10
2	3	5	374	376	10
2	3	6	442	431	11
2	3	7	312	328	11
2	3	11	118	15	17
2	4	-10	168	113	24
2	4	-9	216	179	18
2	4	-8	209	201	20
2	4	-6	249	238	15
2	4	-4	569	580	16
2	4	-3	545	545	14
2	4	-2	220	215	9
2	4	-1	1090	1157	18
2	4	0	983	1009	17
2	4	2	1109	1084	19
2	4	3	408	404	10
2	4	4	280	274	9
2	4	5	212	205	12
2	4	7	237	204	12
2	5	-10	202	181	22
2	5	-8	186	204	23
2	5	-7	219	161	16
2	5	-5	287	281	12
2	5	-4	726	733	17
2	5	-3	250	270	10
2	5	-1	904	916	17
2	5	0	368	392	9
2	5	1	187	211	11
2	5	2	927	966	17
2	5	3	360	358	9
2	5	4	316	301	10
2	5	5	209	180	14
2	5	7	181	160	17
2	6	-8	261	259	19
2	6	-6	309	279	14
2	6	-5	535	533	15
2	6	-4	630	651	17
2	6	-3	496	525	13
2	6	-2	166	188	15
2	6	-1	349	349	9
2	6	0	144	169	14
2	6	2	464	534	13
2	6	3	129	136	19
2	6	4	342	309	11
2	6	5	329	283	12
2	6	6	208	160	15
2	6	9	153	87	21
2	7	-9	339	385	20
2	7	-8	235	250	22
2	7	-6	642	649	17
2	7	-5	388	401	13
2	7	-4	313	327	12
2	7	-1	666	678	17
2	7	1	319	361	11
2	7	2	492	539	13
2	7	3	283	273	11
2	7	5	402	407	13
2	7	6	265	280	15
2	7	8	171	166	21
2	8	-9	424	433	19
2	8	-6	597	602	16
2	8	-5	172	110	22
2	8	-1	428	458	12
2	8	0	164	169	15
2	8	1	191	191	14
2	8	2	237	256	14
2	8	4	237	208	14
2	8	5	305	309	14
2	9	-10	217	16	30
2	9	-9	346	351	23
2	9	-6	250	226	21
2	9	-3	270	290	15
2	9	-1	227	236	15
2	9	0	221	220	15
2	9	2	254	264	14
2	9	3	206	212	17
2	9	7	166	141	25
2	10	-6	227	202	25
2	10	-4	223	235	22
2	10	-3	290	318	17
2	10	-1	211	204	17
2	10	0	261	276	14
2	10	2	235	247	16
2	10	5	185	190	22
2	10	7	251	226	18
2	11	-6	230	229	31
2	11	-4	179	191	28
2	11	-3	357	304	16
2	11	-2	285	282	19
2	11	2	247	266	18
2	11	5	183	188	25
3	12	-6	339	271	24
3	12	-3	340	322	19
3	12	5	209	186	24
3	13	-3	294	240	23
3	13	2	190	183	27
3	14	-1	249	250	28
3	15	-5	295	140	43
3	15	-3	262	179	40
3	15	-1	267	207	36
3	-16	4	257	146	28
3	-16	8	282	190	38
3	-15	5	235	188	30
3	-15	8	259	203	38
3	-14	1	288	281	21
3	-14	2	234	223	28
3	-14	4	286	263	22
3	-14	5	291	249	25
3	-14	7	253	203	30
3	-13	1	230	260	27
3	-13	2	304	228	20
3	-13	4	417	408	18
3	-13	5	240	170	25
3	-13	9	219	162	31
3	-12	-4	208	210	29
3	-12	-1	336	348	20
3	-12	0	260	293	22
3	-12	2	232	207	23
3	-12	4	246	223	24
3	-11	-6	209	177	29
3	-11	-4	385	411	21
3	-11	-3	362	354	19
3	-11	-2	260	235	21
3	-11	-1	451	478	16
3	-11	0	337	398	17
3	-11	2	182	121	23
3	-11	4	374	327	18
3	-11	8	214	189	24
3	-11	9	191	172	27
3	-11	11	210	226	28
3	-10	-7	270	274	29
3	-10	-4	408	424	18
3	-10	-3	388	366	16
3	-10	-2	258	257	19
3	-10	-1	508	550	13
3	-10	0	252	246	17
3	-10	1	178	134	20
3	-10	4	207	193	19
3	-10	6	274	230	18
3	-10	7	364	363	16
3	-10	11	189	171	26
3	-9	-7	316	241	20
3	-9	-4	386	374	17
3	-9	-3	204	216	24
3	-9	-1	316	359	14
3	-9	1	285	358	14
3	-9	2	585	522	15
3	-9	3	386	363	13
3	-9	5	372	346	13
3	-9	6	175	198	24
3	-9	7	259	249	18
3	-8	-9	219	185	32
3	-8	-7	247	174	24
3	-8	-4	296	271	16
3	-8	-1	244	323	15
3	-8	0	371	429	12
3	-8	1	540	631	15
3	-8	2	528	696	14
3	-8	3	376	418	11
3	-8	5	590	576	15
3	-8	6	203	197	18
3	-8	7	293	288	15
3	-8	9	192	178	23
3	-8	10	173	189	26
3	-8	12	210	254	22
3	-7	-8	202	181	29
3	-7	-7	185	220	30
3	-7	-4	240	223	17
3	-7	-2	291	318	12
3	-7	-1	550	636	15
3	-7	0	689	762	19
3	-7	1	623	687	14
3	-7	2	418	452	11
3	-7	3	534	582	13
3	-7	4	511	530	14
3	-7	5	552	523	15
3	-7	6	166	188	20
3	-7	7	302	252	13
3	-7	9	285	257	16
3	-7	10	209	219	20
3	-6	-4	422	405	12
3	-6	-2	285	311	12
3	-6	-1	800	891	18
3	-6	0	699	773	17
3	-6	1	289	359	10
3	-6	2	559	670	15
3	-6	3	386	403	10
3	-6	4	1017	1034	20
3	-6	5	318	316	11
3	-6	7	473	453	13
3	-6	10	214	172	18
3	-5	-11	198	53	28
3	-5	-6	237	234	18
3	-5	-5	388	336	13
3	-5	-4	401	377	12
3	-5	-3	441	413	11
3	-5	-2	235	222	13
3	-5	-1	519	573	13
3	-5	0	516	606	12
3	-5	1	331	375	9
3	-5	2	624	734	15
3	-5	4	991	976	19
3	-5	5	387	363	10
3	-5	6	180	181	16
3	-5	7	507	474	13
3	-5	8	277	278	15
3	-4	-8	246	256	20
3	-4	-7	360	371	15
3	-4	-6	381	371	13
3	-4	-5	678	608	19
3	-4	-4	950	882	19
3	-4	-3	518	489	13
3	-4	-2	261	241	10
3	-4	-1	594	657	15
3	-4	0	428	392	11
3	-4	1	1254	1280	20
3	-4	2	1185	1246	19
3	-4	3	615	632	14
3	-4	4	774	730	16
3	-4	5	616	607	17
3	-4	6	191	178	14
3	-4	7	375	353	12
3	-4	8	322	294	13
3	-3	-9	382	423	15
3	-3	-8	236	244	18
3	-3	-6	611	600	15
3	-3	-5	360	352	11
3	-3	-4	706	678	17
3	-3	-2	206	202	11
3	-3	-1	1111	1152	18
3	-3	0	775	833	14
3	-3	1	1321	1248	20
3	-3	2	883	829	15
3	-3	3	265	248	8
3	-3	4	445	453	11
3	-3	5	503	485	12
3	-3	6	361	349	10
3	-3	7	545	531	15
3	-3	11	193	148	18
3	-2	-10	167	120	24
3	-2	-9	338	381	15
3	-2	-8	194	235	19
3	-2	-7	232	274	14
3	-2	-6	509	536	14
3	-2	-4	269	235	10
3	-2	-3	494	475	14
3	-2	-2	104	75	16
3	-2	-1	1315	1253	20
3	-2	0	453	350	10
3	-2	1	754	701	13
3	-2	3	201	179	8
3	-2	4	212	224	9
3	-2	5	323	293	9
3	-2	6	247	236	11
3	-2	7	188	189	14
3	-2	8	244	198	13
3	-2	10	275	294	14
3	-1	-12	247	262	23
3	-1	-9	231	241	19
3	-1	-8	195	170	19
3	-1	-7	384	422	12
3	-1	-6	278	307	11
3	-1	-4	678	686	15
3	-1	-3	189	186	9
3	-1	-2	107	121	13
3	-1	-1	1127	1146	17
3	-1	0	1417	1411	21
3	-1	1	593	572	11
3	-1	3	122	96	11
3	-1	4	831	799	16
3	-1	6	137	109	14
3	-1	7	604	597	14
3	-1	8	425	430	11
3	-1	10	339	368	12
3	-1	11	170	158	19
3	0	-12	211	216	27
3	0	-8	250	224	18
3	0	-7	502	541	14
3	0	-6	436	430	12
3	0	-5	168	164	15
3	0	-4	1012	1033	18
3	0	-3	224	223	9
3	0	-2	488	471	12
3	0	0	1198	1192	18
3	0	1	864	850	14
3	0	2	822	869	14
3	0	3	248	264	7
3	0	4	588	624	13
3	0	5	146	154	11
3	0	7	871	890	19
3	0	8	143	159	18
3	0	10	296	361	12
3	1	-9	188	217	23
3	1	-8	273	279	17
3	1	-7	357	365	14
3	1	-6	442	445	11
3	1	-5	143	107	16
3	1	-4	644	665	15
3	1	-3	770	744	15
3	1	-2	605	604	13
3	1	-1	114	128	11
3	1	0	212	203	7
3	1	2	756	773	14
3	1	3	325	338	9
3	1	4	492	541	13
3	1	5	452	482	11
3	1	6	139	146	14
3	1	7	454	491	13
3	1	8	146	130	14
3	1	10	165	175	15
3	2	-9	243	247	19
3	2	-6	233	262	14
3	2	-5	635	628	18
3	2	-4	757	742	17
3	2	-3	679	654	15
3	2	-2	151	137	11
3	2	-1	556	543	13
3	2	0	116	159	13
3	2	1	245	234	8
3	2	2	1087	1020	18
3	2	3	402	406	10
3	2	4	405	427	11
3	2	5	444	449	12
3	2	7	163	179	14
3	2	9	137	149	16
3	2	10	142	170	16
3	3	-5	503	488	14
3	3	-4	766	745	17
3	3	-3	473	462	11
3	3	-2	200	218	9
3	3	-1	1178	1190	19
3	3	0	478	459	13
3	3	1	343	340	9
3	3	2	1019	1001	18
3	3	4	227	217	9
3	3	5	203	177	11
3	3	7	228	232	12
3	3	9	127	132	20
3	3	10	168	196	17
3	4	-9	239	198	22
3	4	-6	219	195	17
3	4	-5	281	278	12
3	4	-4	540	506	14
3	4	-3	286	297	10
3	4	-2	367	365	10
3	4	-1	2088	2053	31
3	4	0	559	558	14
3	4	2	524	480	14
3	4	4	155	146	14
3	4	5	137	119	17
3	4	6	134	115	19
3	4	7	189	200	17
3	5	-9	228	216	23
3	5	-6	276	236	15
3	5	-5	289	276	13
3	5	-4	586	589	14
3	5	-3	197	223	13
3	5	-2	188	162	12
3	5	-1	813	805	17
3	5	1	212	197	10
3	5	2	297	293	10
3	5	4	161	139	15
3	5	5	174	166	15
3	6	-9	299	321	23
3	6	-5	486	470	14

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
3	6	-5	270	281	15	4	-15	2	201	109	32	4	-8	7	321	296	15	4	-4	5	602	562	16	4	0	-4	448	421	12
3	6	-4	491	489	13	4	-15	4	435	373	21	4	-8	8	167	46	21	4	-4	6	332	296	11	4	0	-3	464	461	11
3	6	-3	189	169	14	4	-15	7	287	144	29	4	-8	9	337	335	15	4	-4	10	178	188	20	4	0	-1	1007	1061	17
3	6	-1	481	476	13	4	-14	1	360	406	21	4	-7	-4	550	531	15	4	-3	-10	206	226	22	4	0	1	248	268	7
3	6	1	140	152	16	4	-14	4	433	349	20	4	-7	-3	273	294	16	4	-3	-9	346	389	16	4	0	2	649	680	13
3	6	2	470	469	13	4	-14	7	225	186	33	4	-7	-2	165	183	22	4	-3	-7	261	256	16	4	0	3	841	849	15
3	6	3	168	153	15	4	-14	8	200	73	31	4	-7	-1	1091	1145	22	4	-3	-6	296	303	14	4	0	4	609	657	14
3	6	4	238	198	14	4	-13	1	199	267	31	4	-7	1	473	579	12	4	-3	-4	534	500	13	4	0	5	389	409	11
3	6	5	264	269	15	4	-13	4	313	267	24	4	-7	2	832	952	18	4	-3	-3	131	59	17	4	0	6	309	302	9
3	6	6	246	207	14	4	-12	-4	277	311	27	4	-7	3	197	231	13	4	-3	-2	1037	910	18	4	0	7	528	523	14
3	7	-9	445	464	19	4	-12	-1	214	296	28	4	-7	4	256	302	13	4	-3	-1	199	206	10	4	0	9	133	132	17
3	7	-6	561	579	15	4	-12	0	187	134	27	4	-7	5	180	165	16	4	-3	0	1033	965	17	4	1	-9	238	242	22
3	7	-5	276	239	16	4	-12	7	296	314	24	4	-7	6	166	138	18	4	-3	1	806	753	14	4	1	-8	185	117	23
3	7	-3	161	155	19	4	-12	8	195	159	27	4	-7	7	450	417	12	4	-3	2	964	925	17	4	1	-7	430	439	14
3	7	-2	164	206	18	4	-11	-7	258	244	28	4	-7	9	247	219	16	4	-3	3	190	194	9	4	1	-6	673	634	16
3	7	-1	298	305	11	4	-11	-4	498	506	18	4	-7	10	208	150	19	4	-3	4	534	530	15	4	1	-4	260	251	11
3	7	0	290	286	11	4	-11	0	210	311	27	4	-6	-5	188	132	23	4	-3	5	295	251	9	4	1	-3	353	346	10
3	7	1	406	396	11	4	-11	1	174	164	28	4	-6	-4	680	645	17	4	-3	7	615	572	15	4	1	-1	918	907	16
3	7	2	637	656	15	4	-11	3	228	227	19	4	-6	-2	151	178	20	4	-3	10	182	230	21	4	1	0	136	168	11
3	7	4	267	246	14	4	-11	4	328	345	17	4	-6	-1	1056	1125	21	4	-2	-9	314	327	16	4	1	1	732	739	14
3	7	5	441	445	13	4	-11	5	230	162	19	4	-6	0	222	209	13	4	-2	-5	156	145	15	4	1	2	560	557	12
3	7	6	197	176	19	4	-11	6	173	131	28	4	-6	1	267	321	10	4	-2	-4	610	574	16	4	1	3	371	393	10
3	7	7	156	168	21	4	-11	7	451	461	16	4	-6	2	348	391	9	4	-2	-3	216	221	11	4	1	4	653	705	14
3	8	-9	292	305	25	4	-11	8	191	152	25	4	-6	3	420	451	12	4	-2	-2	358	337	9	4	1	5	170	180	10
3	8	-2	301	274	13	4	-11	10	249	222	22	4	-6	4	608	637	17	4	-2	0	487	478	12	4	1	6	365	367	10
3	8	-1	254	248	14	4	-10	-7	306	289	24	4	-6	5	145	142	16	4	-2	1	497	470	12	4	1	7	172	179	13
3	8	2	411	448	12	4	-10	-5	214	180	28	4	-6	6	163	168	20	4	-2	2	688	675	14	4	2	-9	264	251	21
3	8	4	179	167	19	4	-10	-4	358	331	19	4	-6	7	314	289	13	4	-2	3	393	362	10	4	2	-7	226	241	21
3	8	5	345	336	14	4	-10	-2	196	123	22	4	-6	9	147	72	22	4	-2	4	655	633	14	4	2	-6	522	505	14
3	9	-5	175	120	24	4	-10	-1	293	353	18	4	-5	-7	262	232	19	4	-2	5	403	392	11	4	2	-4	744	734	18
3	9	-4	154	145	25	4	-10	4	313	338	16	4	-5	-6	404	399	14	4	-2	7	669	621	19	4	2	-2	116	78	15
3	9	-1	389	362	13	4	-10	5	223	218	20	4	-5	-4	643	583	15	4	-2	10	272	265	15	4	2	-1	1160	1138	19
3	9	0	190	179	18	4	-10	7	394	407	16	4	-5	-3	336	316	12	4	-1	-12	209	226	28	4	2	0	171	154	11
3	9	2	409	414	13	4	-10	9	207	172	21	4	-5	-2	195	222	16	4	-1	-9	278	287	19	4	2	1	579	583	13
3	9	4	161	158	22	4	-10	10	203	211	24	4	-5	-1	771	834	17	4	-1	-8	216	247	20	4	2	2	731	727	15
3	9	5	237	234	16	4	-9	-7	261	200	24	4	-5	0	134	133	15	4	-1	-7	325	349	14	4	2	4	361	371	10
3	9	7	162	195	27	4	-9	-6	244	182	23	4	-5	1	336	360	9	4	-1	-4	702	690	16	4	2	6	358	328	10
3	10	-6	231	307	30	4	-9	-4	202	274	30	4	-5	2	200	235	11	4	-1	-3	571	569	14	4	2	7	176	166	13
3	10	-3	361	360	16	4	-9	-2	280	275	17	4	-5	3	203	209	11	4	-1	-2	264	253	8	4	2	10	170	202	16
3	10	-1	344	340	14	4	-9	-1	161	216	27	4	-5	4	666	726	17	4	-1	-1	997	1033	16	4	3	-9	243	254	24
3	10	2	318	315	14	4	-9	1	313	345	15	4	-5	5	135	151	16	4	-1	0	226	221	7	4	3	-6	438	444	14
3	10	5	239	223	18	4	-9	2	373	415	11	4	-5	8	173	172	19	4	-1	1	130	84	10	4	3	-5	698	704	20
3	11	-7	240	177	31	4	-9	3	249	301	14	4	-5	10	145	126	23	4	-1	2	502	509	12	4	3	-4	979	966	20
3	11	-6	348	370	26	4	-9	4	420	460	12	4	-4	-9	263	279	19	4	-1	3	432	440	10	4	3	-3	517	506	12
3	11	-3	385	360	17	4	-9	5	309	326	14	4	-4	-7	441	425	14	4	-1	4	482	480	13	4	3	-2	449	444	12
3	11	4	200	176	22	4	-9	7	258	255	18	4	-4	-6	676	632	17	4	-1	5	525	535	15	4	3	-1	1115	1069	19
3	12	-6	416	344	23	4	-9	9	230	234	21	4	-4	-4	328	292	12	4	-1	6	304	290	10	4	3	2	587	586	15
3	12	-3	288	261	22	4	-8	-4	438	424	14	4	-4	-3	259	244	12	4	-1	7	783	751	19	4	3	3	119	91	15
3	12	1	213	193	22	4	-8	-2	342	370	15	4	-4	-2	554	534	13	4	-1	8	194	227	16	4	3	5	125	104	18
3	13	-6	360	266	28	4	-8	-1	449	478	13	4	-4	-1	753	765	16	4	-1	9	175	147	15	4	3	6	212	198	13
3	14	-7	334	61	43	4	-8	0	381	378	13	4	-4	0	1008	1015	17	4	-1	10	293	310	14	4	3	7	266	290	13
3	15	-4	308	189	41	4	-8	1	655	749	15	4	-4	1	725	765	14	4	0	-9	201	262	26	4	3	10	186	215	16
3	15	-1	233	141	38	4	-8	2	622	743	17	4	-4	2	767	819	15	4	0	-8	400	385	14	4	4	-9	212	217	28
4	-16	4	300	281	27	4	-8	3	457	540	12	4	-4	3	232	239	10	4	0	-7	501	518	13	4	4	-6	394	410	14
4	-15	-3	222	107	32	4	-8	4	391	435	11	4	-4	4	1018	965	19	4	0	-6	373	386	12	4	4	-5	1033	930	22
4	4	-4	733	732	19	4	10	-6	342	334	22	5	-8	-1	852	930	22	5	-4	-3	477	436	12	5	-1	0	277	295	7
4	4	-3	415	415	11	4	10	-4	253	251	21	5	-8	1	308	370	12	5	-4	-2	298	275	12	5	-1	1	551	576	13
4	4	-2	735	726	17	4	10	-3	238	260	21	5	-8	2	351	415	11	5	-4	-1	787	740	16	5	-1	2	713	714	14
4	4	-1	842	803	18	4	10	-2	206	216	22	5	-8	3	213	234	13	5	-4	0	166	186	12	5	-1	3	568	586	13
4	4	0	109	80	17	4	10	1	281	315	17	5	-8	4	374	426	11	5	-4	1	805	750	16	5	-1	4	671	691	15
4	4	1	171	180	13	4	10	2	149	101	24	5	-8	6	355	398	13	5	-4	2	920	887	17	5	-1	5	243	238	9
4	4	5	180	166	16	4	10	4	262	256	18	5	-8	7	192	180	22	5	-4	3	514	508	14	5	-1	6	631	581	17
4	4	6	148	180	22	4	11	-6	386	354	23	5	-8	8	229	232	19	5	-4	4	731	691	16	5	-1	7	458	447	12
4	4	7	316	317	13	4	11	1	259	257	18	5	-8	9	227	177	20	5	-4	5	578	525	17	5	0	-9	208	159	25
4	4	10	165	179	19	4	12	-6	261	238	35	5	-7	-7	254	231	24	5	-4	6	185	125	14	5	0	-7	183	210	25
4	5	-8	413	387	17	4	13	2	183	87	29	5	-7	-5	518	485	16	5	-4	7	460	408	13	5	0	-6	480	484	13
4	5	-7	329	290	17	5	-16	1	245	173	34	5	-7	-4	678	674	19	5	-4	9	211	211	18	5	0	-5	165	181	21
4	5	-6	322	321	16	5	-16	4	260	234	33	5	-7	-2	478	503	13	5	-4	10	243	239	17	5	0	-4	653	685	18
4	5	-5	462	416	13	5	-15	1	300	292	28	5	-7	-1	1050	1115	22	5	-3	-9	276	294	17	5	0	-3	549	491	15
4	5	-4	451	469	12	5	-15	4	282	254	37	5	-7	0	505	513	14	5	-3	-8	172	214	26	5	0	-1	844	851	15
4	5	-3	295	301	12	5	-14	0	249	204	28	5	-7	1	335	374	10	5	-3	-7	185	235	24	5	0	0	618	620	13
4	5	-2	381	390	10	5	-14	1	413	429	21	5	-7	2	312	344	11	5	-3	-5	249	244	14	5	0	1	787	853	14
4	5	-1	540	542	13	5	-14	4	295	278	26	5	-7	4	282	310	12	5	-3	-4	177	98	17	5	0	2	273	286	7
4	5	2	267	271	11	5	-13	4	255	283	22	5	-7	6	401	402	12	5	-3	-3	888	792	19	5	0	3	789	847	15
4	5	4	138	122	19	5	-13	7	244	216	25	5	-7	7	342	310	14	5	-3	-2	582	532	16	5	0	4	472	494	11
4	5	5	254	224	14	5	-12	1	235	156	26	5	-7	9	170	108	21	5	-3	-1	784	742	15	5	0	5	285	276	9
4	5	7	237	235	16	5	-12	4	238	298	20	5	-7	10	195	179	20	5	-3	0	188	131	10	5	0	6	330	341	10
4	6	-10	219	249	31	5	-12	6	206	184	27	5	-6	-10	197	13	29	5	-3	1	646	603	14	5	0	7	370	396	10
4	6	-8	190	146	31	5	-12	7	383	391	19	5	-6	-8	246	159	24	5	-3	2	1250	1174	20	5	1	-9	262	273	25
4	6	-7	218	134	23	5	-12	9	191	158	30	5	-6	-7	198	146	27	5	-3	3	515	464	14	5	1	-8	182	226	30
4	6	-6	325	298	17	5	-12	10	197	207	31	5	-6	-5	607	548	17	5	-3	4	489	494	12	5	1	-7	350	346	16
4	6	-4	158	116	21	5	-11	-7	258	188	27	5	-6	-4	788	730	18	5	-3	5	557	496	13	5	1	-6	652	641	18
4	6	-2	364	380	12	5	-11	-4	344	357	22	5	-6	-3	253	241	16	5	-3	6	265	234	12	5	1	-5	235	234	15
4	6	-1	309	315	11	5	-11	1	239	218	25	5	-6	-2	537	541	14	5	-3	7	390	366	12	5	1	-4	190	198	15
4	6	1	308	294	11	5	-11	4	330	422	16	5	-6	-1	754	757	19	5	-3	8	155	144	21	5	1	-3	371	333	10
4	6	2	804	796	19	5	-11	6	331	308	17	5	-6	0	566	620	13	5	-3	9	255	240	15	5	1	-2	388	396	10
4	6	5	367	371	13	5	-11	7	508	503	16	5	-6	1	423	451	11	5	-3	10	193	164	18	5	1	-1	890	858	17
4	6	7	204	183	17	5	-11	9	214	188	24	5	-6	2	141	159	15	5	-2	-9	205	249	24	5	1	0	606	561	14
4	7	-10	287	283	28	5	-10	-4	224	235	29	5	-6	3	199	220	12	5	-2	-8	148	75	25	5	1	1	578	591	13
4	7	-6	264	276	21	5	-10	-1	268	256	21	5	-6	6	143	152	20	5	-2	-6	155	174	22	5	1	3	440	447	10
4	7	-2	147	159	23	5	-10	1	306	297	17	5	-6	7	475	422	11	5	-2	-5	196	175	15	5	1	4	429	455	11
4	7	-1	411	425	12	5	-10	2	167	191	21	5	-6	10	206	160	19	5	-2	-4	392	373	10	5	1	5	235	235	9
4	7	1	501	485	14	5	-10	4	462	553	13	5	-5	-9	235	238	27	5	-2	-3	165	96	13	5	1	6	158	163	12
4	7	2	723	710	20	5	-10	6	263	252	18	5	-5	-5	299	275	17	5	-2	-2	311	302	9	5	1	7	177	165	12
4	7	4	196	233	20	5	-10	7	313	318	17	5	-5	-4	434	408	13	5	-2	-1	251	237	8	5	1	9	129	107	16
4	7	5	312	326	14	5	-10	9	253	226	21	5	-5	-3	180	147	18	5	-2	0	199	200	9	5	2	-9	334	301	20
4	8	-5	194	163	24	5	-9	-4	352	355	20	5	-5	-2	769	714	18	5	-2	1	535	524	13	5	2	-7	354	361	17
4	8	-3	150	96	23	5	-9	-1	556	598	16	5	-5	-1	309	314	11	5	-2	2	722	690	14	5	2	-6	640	615	18
4	8	-2	255	275	17	5	-9	1	302	359	15	5	-5	0	127	181	17	5	-2	3	180	178	9	5	2	-5	447	431	12
4	8	-1	451	457	12	5	-9	2	377	399	12	5	-5	1	954	958	17	5	-2	4	776	757	16	5	2	-4	320	307	12
4	8	1	268	270	15	5	-9	3	197	234	17	5	-5	2	623	605	15	5	-2	5	376	384	11	5	2	-3	238	209	11
4	8	2	522	507	13	5	-9	4	566	643	15	5	-5	4	286	295	10	5	-2	6	630	622	17	5	2	-2	694	671	16
4	8	4	181	179	20	5	-9	6	278	246	14	5	-5	5	289	275	11	5	-2	7	372	342	11	5	2	1	289	285	9
4	8	5	213	206	18	5	-9	7	195	178	22	5	-5	6	201	171	15	5	-2	9	133	107	21	5	2	2	423	410	11
4	9	-3	356	381	15	5	-9	8	226	221	20	5	-5	7	375	346	12	5	-1	-6	390	387	12	5	2	3	411	424	10
4	9	-2	398	396	15	5	-9	9	245	237	20	5	-5	10	240	225	17	5	-1	-5	228	265	14	5	2	4	131	136	15
4	9	-1	284	279	15	5	-9	10	170	182	26	5	-4	-9	278	289	22	5	-1	-4	841	854	18	5	2	7	165	177	14
4	9	1	196	178	17	5	-8	-6	212	128	25	5	-4	-7	360	392	18	5	-1	-3	424	402	11	5	2	8	128	103	16
4	9	2	273	283	15	5	-8	-4	512	486	16	5	-4	-6	241	214	18	5	-1	-2	384	411	10	5	2	9	153	189	15
4	9	4	196	197	21	5	-8	-2	416	449	14	5	-4	-5	257	234	15	5	-1	-1	947	963	16	5	2	10	171	215	14

h	k	l	Fo	Fc	sigF
5	3	-9	279	242	22
5	3	-8	279	290	21
5	3	-7	299	304	20
5	3	-6	410	357	15
5	3	-5	719	667	21
5	3	-4	543	550	15
5	3	-2	525	501	13
5	3	-1	183	179	14
5	3	0	277	269	10
5	3	1	224	216	10
5	3	2	474	438	12
5	3	3	363	330	10
5	3	4	131	116	16
5	3	6	193	177	14
5	3	7	327	326	12
5	3	9	206	212	14
5	3	10	133	179	20
5	4	-10	230	272	33
5	4	-8	314	312	20
5	4	-6	210	105	23
5	4	-5	744	713	18
5	4	-4	511	490	13
5	4	-3	293	279	12
5	4	-2	357	357	11
5	4	-1	168	331	10
5	4	0	165	158	14
5	4	2	266	267	11
5	4	3	147	147	17
5	4	4	212	200	13
5	4	6	422	423	12
5	4	7	326	299	12
5	5	-7	199	181	29
5	5	-5	303	270	16
5	5	-4	321	310	14
5	5	-3	275	258	14
5	5	-2	357	343	12
5	5	-1	288	251	11
5	5	2	453	430	12
5	5	4	286	249	13
5	5	5	242	231	17
5	5	6	304	329	14
5	5	9	159	164	22
5	6	-3	263	247	15
5	6	-2	373	400	13
5	6	-1	490	482	13
5	6	1	289	292	13
5	6	2	517	500	13
5	6	4	260	255	15
5	6	5	196	197	19
5	6	6	154	173	24
5	7	-11	244	18	31
5	7	-8	211	75	30
5	7	-5	221	259	25
5	7	-3	201	187	20
5	7	-2	653	673	17
5	7	-1	439	418	12
5	7	1	618	614	15
5	7	2	339	331	13
5	7	4	176	188	20
5	7	5	152	151	25
5	7	6	206	155	18
5	8	-3	160	76	25
5	8	-2	547	554	16
5	8	-1	251	265	17
5	8	1	498	479	14
5	8	4	177	152	20
5	9	-5	300	304	22
5	9	-4	276	282	20
5	9	-2	321	324	16
5	9	-1	209	237	20
5	9	1	290	302	16
5	10	-7	242	188	32
5	10	-4	183	134	28
5	10	-2	232	218	21
5	10	1	235	241	19
5	11	-7	344	258	29
5	11	-2	189	156	25
5	11	1	215	241	24
6	-17	4	278	122	35
6	-16	0	235	137	38
6	-15	-2	257	192	32
6	-15	1	324	317	31
6	-14	0	257	307	33
6	-14	1	393	367	25
6	-14	4	223	300	26
6	-13	-2	245	211	30
6	-13	4	301	354	19
6	-12	1	202	216	32
6	-12	3	259	285	19
6	-12	4	404	465	16
6	-12	6	239	317	25
6	-12	7	337	318	19
6	-11	-4	314	328	24
6	-11	-1	333	348	22
6	-11	1	301	304	20
6	-11	3	415	465	14
6	-11	4	392	457	15
6	-11	6	457	467	15
6	-11	7	453	441	15
6	-10	-1	417	459	17
6	-10	0	557	593	15
6	-10	1	282	339	17
6	-10	2	170	155	20
6	-10	3	354	378	13
6	-10	4	270	276	15
6	-10	6	421	449	15
6	-10	7	247	278	19
6	-9	-5	259	187	24
6	-9	-4	324	288	21
6	-9	-2	213	234	26
6	-9	-1	245	268	22
6	-9	0	366	403	15
6	-9	1	403	468	13
6	-9	2	217	206	15
6	-9	3	406	422	12
6	-9	4	222	223	14
6	-9	6	247	251	16
6	-9	7	151	102	22
6	-8	-7	219	229	31
6	-8	-6	206	134	28
6	-8	-5	442	395	18
6	-8	-4	375	396	19
6	-8	-3	193	205	27
6	-8	-2	506	527	14
6	-8	-1	340	351	15
6	-8	1	385	432	11
6	-8	3	437	470	12
6	-8	4	155	160	19
6	-8	7	285	261	15
6	-8	8	224	194	19
6	-8	9	274	253	17
6	-8	10	237	228	21
6	-7	-8	205	206	34
6	-7	-7	225	250	30
6	-7	-5	748	699	21
6	-7	-4	361	358	18
6	-7	-2	674	683	17
6	-7	-1	558	601	16
6	-7	0	159	119	17
6	-7	2	150	160	17
6	-7	3	505	519	13
6	-7	4	207	189	13
6	-7	6	198	213	18
6	-7	7	406	373	12
6	-7	9	247	229	17
6	-7	10	297	268	16
6	-6	-8	292	308	25
6	-6	-7	182	119	28
6	-6	-5	543	467	15
6	-6	-4	574	517	15
6	-6	-3	260	251	18
6	-6	-2	668	661	17
6	-6	-1	196	203	15
6	-6	2	418	406	11
6	-6	3	259	256	11
6	-6	4	149	154	16
6	-6	6	460	439	13
6	-6	7	391	361	13
6	-6	9	207	207	19
6	-6	11	184	159	23
6	-5	-8	241	247	26
6	-5	-5	305	257	17
6	-5	-4	385	346	14
6	-5	-3	143	92	23
6	-5	-2	369	355	12
6	-5	-1	203	170	13
6	-5	0	258	223	10
6	-5	1	519	487	12
6	-5	2	872	826	17
6	-5	4	338	315	10
6	-5	5	304	277	11
6	-5	6	378	326	11
6	-5	7	327	295	13
6	-5	9	269	244	15
6	-5	11	228	231	19
6	-4	-11	211	161	29
6	-4	-5	467	454	14
6	-4	-2	654	585	17
6	-4	-1	918	837	18
6	-4	0	738	687	16
6	-4	1	791	749	16
6	-4	2	888	817	17
6	-4	3	380	355	10
6	-4	4	302	294	10
6	-4	5	415	373	11
6	-4	6	412	364	11
6	-4	8	174	159	18
6	-4	9	289	286	15
6	-4	11	246	255	17
6	-3	-3	299	279	12
6	-3	-2	803	726	18
6	-3	-1	639	640	16
6	-3	0	566	519	14
6	-3	1	950	901	17
6	-3	2	494	458	11
6	-3	3	697	675	16
6	-3	4	368	352	10
6	-3	5	140	134	16
6	-3	6	332	328	11
6	-3	8	171	152	18
6	-3	9	238	231	16
6	-2	-5	347	357	13
6	-2	-4	256	261	13
6	-2	-2	642	615	15
6	-2	-1	781	773	16
6	-2	1	652	650	14
6	-2	3	715	706	15
6	-2	4	567	569	15
6	-2	5	120	53	14
6	-2	6	379	356	10
6	-1	-7	177	192	26
6	-1	-6	387	406	14
6	-1	-5	567	602	15
6	-1	-4	333	336	11
6	-1	-3	129	75	17
6	-1	-2	690	651	15
6	-1	-1	230	219	9
6	-1	0	616	633	14
6	-1	1	516	527	13
6	-1	2	269	283	8
6	-1	3	822	850	16
6	-1	4	514	519	15
6	-1	6	436	418	11
6	-1	7	226	226	13
6	0	-10	233	246	29
6	0	-8	310	335	19
6	0	-7	293	290	19
6	0	-6	492	476	14
6	0	-5	570	560	16
6	0	-4	345	367	11
6	0	-2	792	748	17
6	0	-1	630	658	15
6	0	0	768	786	15
6	0	1	465	494	13
6	0	2	275	300	8
6	0	3	650	681	14
6	0	4	337	358	9
6	0	5	142	167	13
6	0	6	255	285	11
6	0	7	175	217	16
6	1	-10	370	415	24
6	1	-9	217	249	30
6	1	-8	278	237	21
6	1	-7	366	363	18
6	1	-6	326	321	17
6	1	-5	404	380	14
6	1	-2	778	729	18
6	1	-1	524	499	12
6	1	0	605	599	15
6	1	1	748	722	16
6	1	3	189	191	10
6	1	4	294	319	9
6	1	5	229	260	10
6	1	6	225	259	11
6	1	7	153	186	14
6	1	9	128	182	19
6	1	10	129	111	17
6	2	-10	351	383	24
6	2	-7	219	277	27
6	2	-5	308	276	16
6	2	-2	636	604	17
6	2	-1	388	348	11
6	2	0	426	417	11
6	2	1	268	262	10
6	2	2	177	179	13
6	2	3	257	245	10
6	2	4	278	256	10
6	2	5	188	178	13
6	2	6	313	326	11
6	2	7	172	213	16
6	2	9	182	242	15
6	3	-7	380	398	19
6	3	-6	231	214	23
6	3	-5	477	438	14
6	3	-3	395	369	12
6	3	-2	457	477	12
6	3	-1	485	438	14
6	3	1	119	76	18
6	3	2	190	188	14
6	3	3	549	531	14
6	3	4	269	239	11
6	3	6	544	515	15
6	3	7	243	266	14
6	3	9	225	258	15
6	4	-8	285	301	25
6	4	-7	410	415	18
6	4	-6	255	283	22
6	4	-5	499	494	14
6	4	-4	275	281	16
6	4	-3	279	277	13
6	4	-2	377	389	12
6	4	-1	356	361	12
6	4	0	229	238	14
6	4	1	426	386	12
6	4	3	361	340	12
6	4	4	305	298	13
6	4	6	541	516	14
6	4	7	205	162	17
6	4	9	179	196	20
6	5	-5	321	316	17
6	5	-4	335	353	15
6	5	-3	356	344	14
6	5	-2	300	297	14
6	5	1	450	423	12
6	5	3	341	312	12
6	5	4	265	266	15
6	5	6	318	297	14
6	6	-6	347	365	19
6	6	-5	373	371	17
6	6	-4	343	341	15
6	6	-2	660	654	16
6	6	-1	212	191	18
6	6	1	681	663	16
6	6	2	186	164	19
6	6	3	144	148	22
6	6	6	159	146	23
6	7	-5	359	392	19
6	7	-4	248	217	21
6	7	-3	184	218	24
6	7	-2	511	524	14
6	7	-1	266	253	16
6	7	1	601	604	17
6	7	4	155	138	23
6	8	-5	310	307	21
6	8	-4	252	245	21
6	8	-2	482	487	14
6	8	-1	256	253	18
6	9	-5	271	321	26
6	9	-4	232	222	24
6	9	-2	299	348	19
6	10	1	253	264	20
6	11	1	282	282	21
7	-15	-2	249	198	33
7	-15	1	291	302	35
7	-14	0	248	311	40
7	-14	1	265	338	34
7	-13	-7	250	34	32
7	-13	4	230	197	22
7	-13	6	210	282	28
7	-12	0	240	299	33
7	-12	1	263	243	23
7	-12	3	520	578	15
7	-12	4	322	393	18
7	-12	6	183	259	29
7	-12	8	168	58	28
7	-11	-5	218	197	33
7	-11	-4	246	141	25
7	-11	-2	263	222	26
7	-11	0	359	365	20
7	-11	1	193	133	24
7	-11	3	714	741	18
7	-11	4	260	302	19
7	-10	-7	225	190	33
7	-10	-6	217	167	34
7	-10	-5	234	219	29
7	-10	-2	416	403	18
7	-10	0	483	499	15
7	-10	1	243	289	19
7	-10	3	405	432	13
7	-10	6	209	178	19
7	-10	11	182	70	23
7	-9	-5	250	187	26
7	-9	-4	227	221	29
7	-9	-3	240	194	24
7	-9	-2	446	435	18
7	-9	-1	197	139	23
7	-9	0	427	437	13
7	-9	1	287	321	14
7	-9	3	279	285	14
7	-9	5	244	232	15
7	-9	6	266	239	16
7	-9	7	202	204	21
7	-9	9	221	194	20
7	-8	-8	228	219	32
7	-8	-5	465	421	18
7	-8	-4	284	257	22
7	-8	-2	365	366	17
7	-8	0	242	229	16
7	-8	3	384	402	11
7	-8	5	205	233	17
7	-8	6	501	497	14
7	-8	7	258	283	18
7	-8	9	280	257	17
7	-8	10	253	230	18
7	-7	-8	324	357	26
7	-7	-6	304	274	24
7	-7	-5	714	676	19
7	-7	-4	221	121	23
7	-7	-2	222	254	20
7	-7	-1	425	393	12
7	-7	0	177	180	17
7	-7	2	163	167	18
7	-7	3	652	651	15
7	-7	4	252	254	13
7	-7	6	705	667	17
7	-7	7	174	141	20
7	-7	9	371	327	15
7	-7	11	222	182	19
7	-6	-8	292	337	27
7	-6	-6	279	215	24
7	-6	-5	336	306	20
7	-6	-4	174	119	27
7	-6	-2	418	415	13
7	-6	-1	229	203	14
7	-6	3	677	693	18
7	-6	4	405	404	12
7	-6	5	142	41	19
7	-6	6	672	606	16
7	-6	9	281	262	16
7	-6	11	159	178	26
7	-5	-5	359	324	17
7	-5	-4	287	257	17
7	-5	-3	239	184	16
7	-5	-2	715	658	20
7	-5	-1	225	207	14
7	-5	0	393	353	10
7	-5	1	762	688	17
7	-5	2	450	446	13
7	-5	3	492	471	13
7	-5	4	403	386	10
7	-5	6	508	456	13
7	-5	8	305	293	14
7	-5	9	218	202	17
7	-4	-5	616	597	16
7	-4	-3	403	374	13
7	-4	-2	1083	1007	21
7	-4	-1	523	488	14
7	-4	0	931	873	19
7	-4	1	1192	1094	21
7	-4	2	394	392	11
7	-4	3	368	334	10
7	-4	4	179	185	13
7	-4	5	141	117	16
7	-4	6	474	444	12
7	-4	8	358	323	12
7	-4	9	239	231	16
7	-3	-9	198	100	27
7	-3	-5	421	399	14
7	-3	-4	372	361	13
7	-3	-3	203	109	16
7	-3	-2	1022	970	20
7	-3	0	742	708	17
7	-3	1	836	800	17
7	-3	3	292	278	9
7	-3	6	386	343	11
7	-3	9	210	213	18
7	-2	-8	196	274	27
7	-2	-5	692	694	17
7	-2	-4	211	253	18
7	-2	-3	174	163	17
7	-2	-2	1045	1054	20
7	-2	-1	226	255	11
7	-2	0	339	353	9
7	-2	1	507	491	14
7	-2	2	236	212	9
7	-2	3	482	495	12
7	-2	4	173	174	13
7	-2	6	248	244	12
7	-2	7	140	143	19
7	-1	-7	351	372	19
7	-1	-5	768	787	22
7	-1	-4	300	254	12
7	-1	-3	182	162	15
7	-1	-2	704	695	17
7	-1	-1	163	139	12
7	-1	0	396	398	10
7	-1	1	609	617	15
7	-1	2	195	207	10
7	-1	3	674	700	16
7	-1	4	239	269	10
7	-1	5	148	133	13
7	-1	6	254	262	11
7	-1	7	177	180	14
7	-1	9	147	192	21
7	0	-10	296	328	27
7	0	-7	591	612	17
7	0	-5	229	226	19
7	0	-4	269	240	14
7	0	-3	359	350	11
7	0	-2	533	486	13
7	0	0	540	549	15
7	0	1	615	631	15
7	0	3	449	473	11
7	0	4	421	445	11
7	0	5	115	131	16
7	0	6	276	281	10
7	0	9	188	220	14
7	0	10	135	29	17
7	1	-10	266	301	30
7	1	-7	261	283	24
7	1	-6	220	208	24
7	1	-3	318	274	12
7	1	-2	484	444	12
7	1	-1	125	132	19
7	1	0	503	475	13
7	1	1	490	484	13
7	1	2	330	335	10
7	1	3	348	339	9
7	1	4	427	448	12
7	1	6	382	400	11
7	1	9	130	198	20
7	2	-5	262	229	19
7	2	-4	148	122	25
7	2	-2	396	395	12
7	2	-1	238	202	14
7	2	1	568	563	14
7	2	2	126	123	20
7	2	3	466	457	12
7	2	4	347	329	11
7	2	6	493	484	12
7	2	7	140	125	17
7	2	8	118	74	20
7	2	9	170	217	14
7	3	-8	264	243	25
7	3	-7	224	186	27
7	3	-5	401	415	17
7	3	-4	570	546	15
7	3	-2	420	414	12
7	3	-1	201	164	15
7	3	1	544	519	15
7	3	2	360	353	12
7	3	3	501	445	12
7	3	4	374	332	12
7	3	6	450	430	12
7	3	7	171	193	17
7	4	-6	230	233	25
7	4	-5	296	320	20
7	4	-4	324	316	16
7	4	-2	404	371	13
7	4	0	221	199	15
7	4	1	546	524	13
7	4	2	490	462	14
7	4	3	426	399	12
7	4	4	291	262	14
7	4	5	182	197	20
7	4	6	338	301	13
7	4	7	141	114	24
7	5	-7	383	413	21
7	5	-4	300	329	10
7	5	-2	340	370	15
7	5	0	143	100	22
7	5	1	395	372	13
7	5	2	232	200	16
7	5	3	211	230	18
7	5	5	181	183	21
7	5	6	156	143	23
7	6	-9	223	50	33
7	6	-7	319	312	25
7	6	-4	229	258	24
7	6	-3	268	292	18

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
7	6	-2	427	469	15	8	-8	6	677	654	17	8	-3	9	230	230	15	8	2	5	378	364	11	9	-12	3	308	337	17
7	6	0	221	258	19	8	-8	7	190	169	20	8	-2	-6	486	510	15	8	2	6	221	216	13	9	-11	-4	240	170	30
7	6	1	352	325	14	8	-8	8	219	179	18	8	-2	-5	433	455	14	8	3	-7	312	331	24	9	-11	0	406	421	18
7	6	3	139	117	23	8	-8	9	292	253	16	8	-2	-4	149	155	23	8	3	-5	272	275	23	9	-11	3	295	335	17
7	6	4	149	116	23	8	-7	-5	506	521	19	8	-2	-3	229	220	15	8	3	-4	380	343	15	9	-11	6	274	286	18
7	7	-7	252	173	29	8	-7	-4	207	168	28	8	-2	-2	701	706	19	8	3	-3	242	284	21	9	-10	-4	258	289	31
7	7	-6	250	268	26	8	-7	0	489	458	13	8	-2	-1	348	343	11	8	3	-2	463	466	14	9	-10	-3	211	235	35
7	7	-5	304	324	21	8	-7	1	373	373	12	8	-2	0	383	405	10	8	3	-1	203	191	17	9	-10	-1	270	321	22
7	7	-4	229	212	23	8	-7	2	460	459	13	8	-2	1	225	228	10	8	3	0	425	392	12	9	-10	0	340	394	18
7	7	-3	230	289	23	8	-7	3	523	540	13	8	-2	3	170	212	15	8	3	1	325	294	14	9	-10	1	359	378	16
7	7	-2	360	363	15	8	-7	5	251	233	16	8	-2	4	228	251	13	8	3	2	411	383	12	9	-10	3	302	333	16
7	7	5	149	96	23	8	-7	6	709	654	16	8	-2	6	336	323	11	8	3	3	498	473	13	9	-10	6	323	303	15
7	8	-6	281	349	28	8	-7	9	211	208	21	8	-2	9	185	173	17	8	3	4	258	245	14	9	-10	8	159	150	24
7	8	-5	233	320	30	8	-6	-4	240	253	25	8	-1	-6	302	306	20	8	3	5	319	303	13	9	-9	-3	293	287	25
7	8	-2	264	311	21	8	-6	-2	354	347	15	8	-1	-3	257	292	13	8	3	6	213	240	18	9	-9	-1	206	164	23
7	9	-2	175	237	29	8	-6	0	269	264	13	8	-1	-2	389	419	11	8	4	-8	284	187	24	9	-9	0	193	208	24
7	9	4	180	196	25	8	-6	1	479	444	13	8	-1	-1	216	216	12	8	4	-7	320	360	26	9	-9	1	202	259	22
7	10	1	267	301	20	8	-6	2	338	321	11	8	-1	0	359	375	10	8	4	-4	287	313	20	9	-9	2	207	246	21
7	11	1	288	290	20	8	-6	3	618	587	15	8	-1	1	432	455	11	8	4	-2	184	132	20	9	-9	3	469	505	13
8	-15	0	258	245	38	8	-6	5	356	353	12	8	-1	3	374	382	11	8	4	-1	307	271	15	9	-9	5	239	236	16
8	-14	0	253	312	36	8	-6	6	429	407	12	8	-1	4	333	338	10	8	4	0	442	442	13	9	-9	6	290	269	15
8	-14	8	221	202	31	8	-6	8	266	234	14	8	-1	6	263	290	12	8	4	2	457	445	13	9	-9	9	195	162	20
8	-13	-2	280	252	30	8	-6	9	213	217	18	8	-1	9	173	210	18	8	4	3	282	280	15	9	-8	-5	283	303	28
8	-13	0	311	339	27	8	-5	-5	492	444	17	8	0	-6	275	253	21	8	4	4	154	169	23	9	-8	-3	211	241	31
8	-13	1	221	196	28	8	-5	-3	336	316	15	8	0	-4	213	188	19	8	4	6	185	210	19	9	-8	-2	327	317	19
8	-13	3	300	292	19	8	-5	-2	843	773	22	8	0	-3	365	393	13	8	5	-7	282	291	28	9	-8	1	245	260	17
8	-12	0	403	392	20	8	-5	0	214	215	15	8	0	-2	384	386	12	8	5	-4	180	144	27	9	-8	2	357	388	14
8	-12	3	423	496	16	8	-5	1	768	694	19	8	0	-1	155	131	16	8	5	-3	268	273	19	9	-8	3	649	659	17
8	-12	6	214	212	22	8	-5	3	635	584	18	8	0	0	280	287	11	8	5	-2	284	283	17	9	-8	5	382	382	14
8	-12	7	171	125	26	8	-5	5	293	281	12	8	0	1	770	808	17	8	5	0	294	283	16	9	-8	6	310	342	16
8	-11	-3	224	218	31	8	-5	6	219	202	15	8	0	3	436	467	12	8	6	-7	330	297	24	9	-8	8	182	169	21
8	-11	-2	278	275	26	8	-5	8	252	274	17	8	0	4	224	246	11	8	6	-6	266	291	27	9	-8	9	161	119	21
8	-11	0	454	458	17	8	-5	9	261	247	16	8	0	6	236	268	12	8	6	-3	276	265	18	9	-7	-5	397	367	22
8	-11	1	234	239	23	8	-4	-5	705	715	17	8	0	8	174	186	14	8	6	-2	195	171	24	9	-7	-2	277	297	21
8	-11	2	210	234	21	8	-4	-4	251	233	19	8	1	-4	306	295	17	8	6	2	163	128	20	9	-7	-1	333	303	15
8	-11	3	431	484	15	8	-4	-3	664	611	17	8	1	-3	403	393	13	8	6	5	158	131	23	9	-7	0	346	295	14
8	-11	6	188	225	24	8	-4	-2	934	857	22	8	1	-2	359	387	13	8	7	-6	314	359	25	9	-7	2	731	719	17
8	-10	-3	323	268	22	8	-4	0	281	281	11	8	1	-1	153	147	20	8	8	-6	222	264	34	9	-7	3	504	487	14
8	-10	-2	315	325	22	8	-4	1	560	546	14	8	1	0	271	264	12	8	8	-3	194	90	23	9	-7	5	514	503	14
8	-10	0	470	494	15	8	-4	2	230	217	12	8	1	1	911	901	20	8	8	-2	173	149	24	9	-7	6	443	427	13
8	-10	3	392	422	13	8	-4	3	383	341	10	8	1	2	317	310	10	8	8	4	199	111	20	9	-7	9	174	104	21
8	-10	4	240	264	18	8	-4	5	364	321	11	8	1	3	257	273	12	8	9	1	182	182	26	9	-6	-8	263	232	28
8	-10	6	275	326	17	8	-4	6	306	283	12	8	1	4	289	319	10	8	10	1	209	213	27	9	-6	-5	239	263	29
8	-10	9	179	159	25	8	-4	7	155	127	18	8	1	5	142	165	15	8	11	-3	272	305	28	9	-6	-4	242	224	26
8	-9	-2	244	286	27	8	-4	9	285	293	14	8	1	6	221	270	12	8	11	0	195	237	30	9	-6	-2	455	426	14
8	-9	0	210	236	20	8	-3	-7	242	189	22	8	1	8	130	174	17	9	-17	2	261	97	38	9	-6	-1	466	449	14
8	-9	3	431	451	13	8	-3	-6	362	377	17	8	2	-5	244	266	25	9	-15	0	259	264	36	9	-6	0	377	370	13
8	-9	4	234	223	15	8	-3	-5	653	681	16	8	2	-3	177	122	23	9	-15	1	242	197	35	9	-6	2	385	365	12
8	-9	6	523	518	15	8	-3	-3	414	388	13	8	2	-2	371	361	13	9	-15	5	196	152	31	9	-6	3	252	220	13
8	-9	8	157	117	25	8	-3	-2	812	775	20	8	2	-1	220	177	16	9	-15	8	251	243	31	9	-6	4	137	96	21
8	-8	-5	340	369	24	8	-3	-1	261	255	13	8	2	0	308	283	13	9	-14	8	214	186	30	9	-6	5	466	441	13
8	-8	-4	199	175	30	8	-3	0	226	272	13	8	2	1	547	521	15	9	-13	-2	312	282	25	9	-6	6	307	258	13
8	-8	0	262	245	15	8	-3	3	155	167	14	8	2	2	335	313	12	9	-13	2	182	205	30	9	-5	-6	299	293	25
8	-8	1	208	206	17	8	-3	5	184	185	14	8	2	3	358	348	11	9	-13	7	171	66	26	9	-5	-5	415	412	19
8	-8	3	458	453	13	8	-3	6	245	254	13	8	2	4	340	333	11	9	-12	0	310	347	23	9	-5	-3	311	294	17
9	-5	-2	560	536	15	9	-1	6	245	265	13	9	6	5	208	226	23	10	-6	3	264	229	14	10	1	-3	558	571	15
9	-5	-1	428	399	13	9	-1	7	150	136	16	9	7	2	170	162	23	10	-6	5	230	228	16	10	1	-1	193	187	22
9	-5	0	493	479	14	9	-1	8	200	236	15	9	9	-4	236	248	29	10	-6	8	190	180	19	10	1	0	448	443	13
9	-5	2	362	345	12	9	0	-6	316	343	21	9	10	-3	271	320	28	10	-5	-3	532	488	15	10	1	5	148	162	17
9	-5	3	291	270	12	9	0	-3	478	533	14	9	10	0	257	225	21	10	-5	-1	327	326	16	10	1	7	144	104	15
9	-5	5	304	301	12	9	0	-2	597	649	17	10	-17	5	278	143	32	10	-5	0	194	249	21	10	2	-6	329	335	24
9	-5	6	173	176	19	9	0	-1	260	248	14	10	-15	4	199	188	32	10	-5	1	170	169	19	10	2	-3	466	481	17
9	-5	8	151	171	23	9	0	0	631	700	16	10	-15	5	207	192	30	10	-5	2	342	308	12	10	2	-1	261	265	18
9	-5	9	267	255	15	9	0	1	558	579	14	10	-14	4	203	152	28	10	-5	5	318	319	14	10	2	0	334	313	16
9	-4	-7	257	214	23	9	0	2	258	303	11	10	-12	3	268	303	20	10	-5	6	333	329	14	10	2	2	252	244	16
9	-4	-6	470	495	19	9	0	3	145	139	13	10	-12	8	175	146	27	10	-5	7	156	89	20	10	3	-3	255	244	24
9	-4	-5	322	358	19	9	0	4	250	264	10	10	-11	-1	251	289	28	10	-5	8	307	326	14	10	3	-2	177	178	29
9	-4	-4	261	230	20	9	0	5	303	349	11	10	-11	0	278	299	23	10	-5	9	191	184	21	10	3	-1	255	260	20
9	-4	-3	425	385	14	9	0	7	146	129	15	10	-11	1	263	260	22	10	-4	-6	325	334	23	10	3	0	283	296	19
9	-4	-2	493	455	13	9	1	-3	524	560	15	10	-11	2	228	210	21	10	-4	-3	327	348	17	10	3	2	336	313	14
9	-4	-1	238	231	15	9	1	-2	458	465	14	10	-11	3	222	193	21	10	-4	1	232	246	16	10	3	3	230	254	18
9	-4	0	251	245	13	9	1	0	688	660	16	10	-11	5	167	188	25	10	-4	2	509	482	13	10	3	5	185	176	19
9	-4	2	475	456	12	9	1	1	311	311	13	10	-11	7	225	177	19	10	-4	5	443	442	12	10	4	-2	200	105	24
9	-4	5	291	310	13	9	1	2	284	293	13	10	-10	-3	251	265	33	10	-4	6	313	288	14	10	4	-1	188	157	22
9	-4	6	256	228	13	9	1	3	256	276	13	10	-10	-1	291	331	24	10	-4	7	152	133	20	10	4	0	312	299	17
9	-4	7	150	156	21	9	1	5	253	297	12	10	-10	0	445	461	16	10	-4	8	370	361	13	10	4	2	195	158	20
9	-4	8	244	254	14	9	2	-6	311	314	24	10	-10	1	293	271	18	10	-3	-6	394	451	19	10	4	3	266	251	17
9	-4	9	292	288	14	9	2	-5	235	226	26	10	-10	2	291	324	17	10	-3	-2	245	266	18	10	5	-3	238	263	24
9	-3	-6	647	698	18	9	2	-3	442	466	16	10	-10	3	195	156	21	10	-3	2	493	496	13	10	5	0	275	277	19
9	-3	-3	540	547	15	9	2	-2	279	334	19	10	-10	5	345	366	16	10	-3	3	203	233	15	10	5	3	259	261	19
9	-3	-2	351	330	13	9	2	0	467	456	13	10	-10	6	166	132	23	10	-3	5	482	475	13	10	5	5	210	217	22
9	-3	1	238	195	11	9	2	1	202	224	20	10	-10	7	182	200	24	10	-3	7	139	73	18	10	6	-3	237	227	25
9	-3	2	258	241	12	9	2	2	389	374	12	10	-9	-2	305	251	22	10	-3	8	226	263	16	10	6	0	272	277	18
9	-3	3	249	267	12	9	2	3	306	312	14	10	-9	-1	315	280	19	10	-2	-6	279	300	21	10	6	2	182	174	25
9	-3	5	291	272	12	9	2	5	180	185	17	10	-9	0	461	461	16	10	-2	-3	244	243	19	10	6	3	190	206	24
9	-3	6	285	287	13	9	3	-7	270	290	29	10	-9	2	355	354	15	10	-2	-2	321	295	15	10	7	0	214	234	23
9	-3	8	184	242	19	9	3	-6	336	353	23	10	-9	3	356	358	15	10	-2	0	154	158	20	10	7	1	189	141	26
9	-3	9	196	181	18	9	3	-5	211	216	28	10	-9	5	382	404	15	10	-2	2	508	516	13	10	7	2	233	219	21
9	-2	-9	231	314	33	9	3	-3	407	431	17	10	-9	10	212	120	19	10	-2	3	290	307	12	10	8	2	172	198	27
9	-2	-6	277	318	21	9	3	-1	263	262	19	10	-8	-5	268	248	28	10	-2	5	482	509	13	11	-13	2	196	231	30
9	-2	-5	320	349	16	9	3	0	502	487	14	10	-8	-4	210	111	30	10	-2	8	223	200	13	11	-12	2	211	241	27
9	-2	-3	422	455	13	9	3	2	423	404	13	10	-8	-1	466	455	16	10	-1	-3	656	688	18	11	-12	5	253	236	19
9	-2	-2	168	134	20	9	3	3	360	346	13	10	-8	0	419	406	15	10	-1	-2	174	192	22	11	-11	-3	266	308	30
9	-2	1	411	394	11	9	3	5	245	198	14	10	-8	2	691	683	18	10	-1	0	415	457	12	11	-11	-2	222	205	32
9	-2	2	181	208	14	9	3	6	154	165	20	10	-8	3	529	549	15	10	-1	1	319	316	12	11	-11	-1	221	219	30
9	-2	3	359	352	10	9	4	-7	295	321	28	10	-8	5	356	346	14	10	-1	2	301	326	12	11	-11	2	264	271	22
9	-2	4	176	176	13	9	4	-3	224	232	24	10	-8	6	190	200	21	10	-1	3	188	221	14	11	-11	5	262	237	17
9	-2	5	282	275	11	9	4	-2	188	154	26	10	-7	-5	221	211	30	10	-1	5	385	417	11	11	-11	7	254	243	20
9	-2	6	361	375	11	9	4	-1	264	249	19	10	-7	-3	199	217	31	10	-1	6	128	101	17	11	-10	-4	316	236	24
9	-2	8	225	254	15	9	4	0	255	268	18	10	-7	-1	540	502	15	10	-1	8	161	188	17	11	-10	-3	274	284	28
9	-1	-5	317	354	18	9	4	2	292	279	14	10	-7	0	231	250	21	10	0	-6	307	342	24	11	-10	-2	206	155	32
9	-1	-3	258	274	16	9	4	3	197	203	20	10	-7	2	855	792	23	10	0	-3	710	763	20	11	-10	-1	253	285	27
9	-1	-2	384	405	12	9	5	-3	296	245	18	10	-7	3	369	333	13	10	0	-1	190	184	19	11	-10	0	282	276	22
9	-1	-1	214	228	14	9	5	0	251	239	18	10	-7	5	329	331	14	10	0	0	628	659	17	11	-10	2	324	294	17
9	-1	0	256	302	13	9	5	2	169	133	21	10	-7	6	190	198	20	10	0	3	140	149	17	11	-10	5	224	221	20
9	-1	1	664	694	18	9	5	5	171	159	23	10	-6	-6	328	284	22	10	0	4	143	129	15	11	-9	-6	273	196	30
9	-1	2	297	333	11	9	6	-3	218	251	23	10	-6	-3	439	393	17	10	0	5	197	237	12	11	-9	-3	332	290	23
9	-1	3	138	154	17	9	6	0	164	140	25	10	-6	-1	498	485	15	10	0	7	153	171	15	11	-9	-1	407	452	20
9	-1	4	265	271	11	9	6	2	177	127	21	10	-6	0	288	239	19	10	0	8	162	184	16	11	-9	0	325	318	18
9	-1	5	254	290	13	9	6	3	196	193	19	10	-6	2	302	287	14	10	1	-6	324	334	23	11	-9	2	311	291	17

h	k	l	Fo	Fc	sigF
11	-9	3	158	110	24
11	-9	5	211	179	21
11	-8	-6	289	283	28
11	-8	-3	310	289	24
11	-8	-2	261	274	25
11	-8	-1	541	532	17
11	-8	0	352	331	18
11	-8	2	588	582	16
11	-8	3	203	209	21
11	-8	8	153	108	21
11	-7	-6	229	210	35
11	-7	-3	246	263	28
11	-7	-2	335	318	20
11	-7	-1	328	327	21
11	-7	0	203	238	28
11	-7	2	600	568	16
11	-7	5	166	198	23
11	-7	6	148	124	24
11	-6	-3	286	252	24
11	-6	-1	250	264	22
11	-6	2	402	345	14
11	-6	3	294	266	14
11	-6	5	378	368	14
11	-6	8	180	191	22
11	-5	-3	292	290	23
11	-5	-1	204	201	21
11	-5	2	427	366	13
11	-5	3	230	210	16
11	-5	5	618	564	16
11	-5	8	238	262	17
11	-4	-3	248	268	22
11	-4	-1	289	296	18
11	-4	2	532	494	15
11	-4	3	160	119	21
11	-4	5	606	550	16
11	-4	8	207	218	18
11	-3	-6	201	260	32
11	-3	-4	311	302	21
11	-3	-3	284	301	20
11	-3	-1	253	265	17
11	-3	0	321	343	15
11	-3	1	367	344	14
11	-3	2	480	488	14
11	-3	3	176	182	20
11	-3	4	158	181	22
11	-3	5	482	466	13
11	-2	-6	206	227	28
11	-2	-3	344	397	17
11	-2	0	475	495	13
11	-2	1	294	327	15
11	-2	2	356	369	12
11	-2	4	236	257	14
11	-2	5	296	298	12
11	-2	7	134	163	21
11	-2	8	162	153	18
11	-1	-6	333	383	23
11	-1	-5	188	123	30
11	-1	-4	262	309	23
11	-1	-3	448	513	16
11	-1	0	433	449	13
11	-1	1	149	142	21
11	-1	2	274	274	14
11	-1	4	196	195	14
11	-1	5	186	231	15
11	-1	8	169	191	18
11	0	-6	356	441	28
11	0	-4	394	410	17
11	0	-3	453	500	17
11	0	0	251	226	17
11	0	4	184	190	15
11	0	5	200	245	14
11	1	-7	245	231	35
11	1	-6	349	374	26
11	1	-4	225	242	29
11	1	-3	410	450	18
11	1	5	133	156	21
11	2	-7	230	252	38
11	2	-3	310	322	22
11	2	-1	181	188	26
11	2	0	248	247	19
11	2	3	198	239	22
11	2	5	155	191	23
11	3	-7	218	195	36
11	3	-4	215	111	27
11	3	0	321	342	19
11	3	2	162	167	25
11	3	3	313	281	15
11	4	-3	235	255	29
11	4	0	405	424	16
11	4	2	178	174	26
11	4	3	178	208	25
11	5	-3	250	287	26
11	5	0	367	387	18
11	5	2	176	173	26
11	5	3	171	140	28
11	6	-7	227	69	34
11	6	0	253	273	23
12	-17	5	297	106	28
12	-15	-4	252	119	40
12	-15	5	204	191	32
12	-15	7	222	162	29
12	-14	5	235	252	27
12	-13	-3	219	78	34
12	-13	4	199	185	27
12	-13	5	246	245	24
12	-12	-3	239	166	32
12	-12	5	217	201	24
12	-12	8	170	93	27
12	-11	-6	262	231	37
12	-11	-3	267	314	34
12	-11	-1	326	284	24
12	-11	2	202	223	27
12	-11	4	227	242	22
12	-11	7	265	221	17
12	-10	-3	352	412	26
12	-10	2	235	189	23
12	-9	-3	355	337	24
12	-9	-1	309	298	21
12	-9	2	223	209	22
12	-8	-3	218	189	32
12	-8	-2	263	228	26
12	-8	-1	398	401	20
12	-8	1	172	162	26
12	-8	2	332	360	18
12	-8	5	263	270	16
12	-7	-2	238	225	25
12	-7	-1	350	387	20
12	-7	2	372	378	16
12	-7	5	316	328	15
12	-7	8	207	128	17
12	-6	-1	379	359	17
12	-6	0	342	335	18
12	-6	2	389	378	15
12	-6	3	217	190	20
12	-6	5	358	374	14
12	-6	8	150	155	24
12	-5	-3	351	364	19
12	-5	-2	181	181	30
12	-5	0	448	411	15
12	-5	2	504	468	14
12	-5	4	278	260	14
12	-5	5	301	360	17
12	-4	-3	230	280	27
12	-4	-2	245	281	24
12	-4	0	426	438	15
12	-4	1	434	413	14
12	-4	2	490	479	14
12	-4	4	289	272	15
12	-4	5	296	316	14
12	-3	-1	275	276	18
12	-3	0	223	202	19
12	-3	1	522	549	14
12	-3	2	254	287	16
12	-3	3	145	105	21
12	-3	4	242	275	17
12	-3	5	284	258	13
12	-2	-6	263	244	26
12	-2	-3	306	309	18
12	-2	-2	170	190	28
12	-2	-1	262	288	18
12	-2	1	265	295	17
12	-2	2	160	200	21
12	-2	5	200	205	16
12	-1	-4	214	245	28
12	-1	3	296	342	19
12	-1	-2	181	175	25
12	-1	-1	166	161	23
12	-1	4	202	236	16
12	-1	5	163	202	19
12	0	0	163	129	24
12	0	4	205	260	14
12	0	5	163	170	15
12	1	-7	276	330	35
12	1	0	207	185	23
12	1	3	157	171	22
12	1	4	157	189	20
12	2	-3	198	190	32
12	2	0	243	249	22
12	2	2	208	189	20
12	2	3	206	171	18
12	2	4	161	170	25
12	3	0	335	361	19
12	4	-4	212	284	33
12	4	-3	205	239	32
12	4	0	262	291	23
12	5	-1	227	247	26
12	6	-1	234	239	24
13	-15	4	216	185	35
13	-14	1	274	224	26
13	-14	2	274	217	24
13	-13	-5	235	32	38
13	-13	2	235	216	27
13	-13	5	183	123	27
13	-13	7	205	155	22
13	-12	-3	223	198	37
13	-12	2	193	169	29
13	-11	1	204	184	27
13	-11	3	184	190	28
13	-11	4	188	243	29
13	-10	4	181	163	25
13	-9	6	190	134	22
13	-9	7	183	173	23
13	-7	-3	261	186	26
13	-7	0	333	369	20
13	-7	1	262	249	21
13	-7	4	251	169	17
13	-6	-4	255	240	31
13	-6	-1	313	278	23
13	-6	0	327	354	21
13	-6	1	302	336	21
13	-6	4	275	280	17
13	-5	-3	249	234	26
13	-5	-2	251	235	25
13	-5	-1	285	287	22
13	-5	1	386	382	17
13	-5	4	320	335	15
13	-5	5	148	116	24
13	-4	-4	244	223	29
13	-4	-2	334	356	20
13	-4	-1	294	319	22
13	-4	1	397	395	16
13	-4	2	309	336	17
13	-4	4	265	273	16
13	-3	-3	231	75	25
13	-3	-2	333	353	20
13	-3	-1	262	257	20
13	-3	2	221	252	20
13	-2	-2	294	308	20
13	-2	4	189	230	20
13	-1	-7	292	292	28
13	-1	1	177	226	23
13	-1	4	268	322	14
13	-1	5	167	199	18
13	0	-7	302	260	30
13	0	1	175	226	24
13	0	4	256	300	14
13	1	1	319	281	16
13	1	2	156	142	24
13	2	-1	220	211	25
13	2	1	243	253	22
13	2	4	239	228	19
13	3	-1	273	282	23
13	4	-4	304	360	28
13	4	-1	254	245	25
13	5	-4	252	325	31
13	5	-1	204	212	28
14	-12	0	219	121	29
14	-11	4	233	246	24
14	-11	5	187	125	25
14	-10	1	215	160	21
14	-10	4	215	222	24
14	-10	7	196	205	23
14	-9	1	233	260	27
14	-9	4	204	225	25
14	-9	6	200	207	22
14	-9	7	173	192	26
14	-8	1	318	319	21
14	-8	4	278	288	19
14	-8	6	245	221	18
14	-8	7	156	144	24
14	-7	-1	213	245	31
14	-7	1	277	251	21
14	-7	4	268	285	19
14	-6	-4	264	369	34
14	-6	-1	324	333	21
14	-6	0	192	86	28
14	-6	1	201	226	27
14	-6	4	225	220	21
14	-6	6	187	148	20
14	-5	-6	253	69	30
14	-5	-5	210	131	34
14	-5	-4	217	278	35
14	-5	-2	301	352	24
14	-5	-1	334	317	20
14	-5	1	264	285	23
14	-5	4	162	186	25
14	-4	-2	340	350	21
14	-4	-1	304	279	22
14	-4	1	335	370	18
14	-3	-3	195	204	32
14	-3	1	263	333	20
14	-3	2	169	147	24
14	-3	4	155	176	24
14	-2	1	224	265	19
14	-2	4	265	289	16
14	-1	1	262	274	17
14	-1	2	156	182	23
14	-1	4	260	336	17
14	0	1	304	298	17
14	0	4	216	294	16
14	1	-5	229	206	35
14	1	1	196	224	27
14	2	-1	230	236	27
14	3	-4	289	296	28
15	-12	1	255	211	25
15	-10	4	258	311	23
15	-9	3	180	136	26
15	-9	4	203	241	28
15	-8	-4	236	225	35
15	-8	4	235	193	21
15	-5	-4	217	222	35
15	-5	4	223	175	19
15	-4	-4	219	184	33
15	-3	-1	215	212	26
15	-3	1	192	221	24
15	-2	1	238	243	20
15	-2	4	189	243	20
15	-1	1	227	237	21
15	0	0	233	252	24
15	1	-1	218	165	26
15	1	0	220	243	26
16	-11	3	199	194	31
16	-8	4	198	144	25
16	-5	0	210	77	27
16	-2	-1	210	247	32
16	-2	0	196	218	28
17	-12	0	258	216	28

APPENDIX 6.III

$[Cd(S_2CNiBu)_2]$

Table 6.III.1: Crystallographic Parameters for $[Cd(S_2CN(CH_2CH(CH_2)_2)_2)_2]$

Formula	$C_{18}H_{36}CdN_2S_4$
Formula weight	521.15
Crystal morphology / colour	block / colourless
Crystal dimensions (mm)	0.13 x 0.19 x 0.32
Crystal system	monoclinic
Space group	*C*2/*c* (#15)
a (Å)	49.97(5)
b (Å)	9.597(3)
c (Å)	23.675(8)
α (°)	90
β (°)	116.41(3)
γ (°)	90
V (Å^3)	10169(9)
Z	16
$\rho_{calc.}$ (g cm^{-3})	1.361
F(000)	4320
Temperature (°K)	293
μ (cm^{-1})	11.93
θ limits, cell (°)	19.5 – 21.0
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 35, 0 – 12, -28 – 28
Range of transmission factors	0.968 – 1
Scan technique	ω:2θ
No. of data measured	9002
No. of unique data	8569
R_{amal}	0.089
No. of parameters	451
R (I≥0σ(I))	0.116
R_w (I≥0σ(I))	0.150
R (I≥3σ(I))	0.060
R_w (I≥3σ(I))	0.070
Maximum and minimum residual electron density (e Å^{-3})	2.73, -1.89

Table 6.III.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Cd(S_2CN(CH_2CH(CH_3)2)2)2]$

Atom	*x*	*y*	*z*
Cd(1)	-0.01339(1)	-0.08684(6)	-0.45207(3)
Cd(2)	-0.27705(2)	-0.34796(7)	-0.57333(3)
S(1a)	-0.06620(5)	-0.0080(2)	-0.47434(9)
S(1b)	-0.28251(6)	-0.2970(3)	-0.6833(1)
S(2a)	-0.02620(5)	-0.1758(2)	-0.36360(9)
S(2b)	-0.33055(6)	-0.4251(3)	-0.66009(10)
S(3b)	-0.26737(6)	-0.5495(3)	-0.4966(1)
S(3a)	0.02352(5)	-0.2686(2)	-0.45852(8)
S(4a)	-0.02103(5)	-0.1298(2)	-0.57452(8)
S(4b)	-0.21729(6)	-0.3709(2)	-0.48646(10)
N(1a)	-0.0822(2)	-0.1020(6)	-0.3876(3)
N(1b)	-0.3344(2)	-0.3745(6)	-0.7741(3)
N(2a)	0.0116(1)	-0.3534(5)	-0.5742(2)
N(2b)	-0.2126(2)	-0.5706(6)	-0.4024(3)
C(1b)	-0.3177(2)	-0.3675(7)	-0.7124(3)
C(1a)	-0.0601(2)	-0.0976(7)	-0.4056(3)
C(2a)	-0.0770(2)	-0.1679(8)	-0.3276(3)
C(2b)	-0.3630(2)	-0.448(1)	-0.8000(4)
C(3a)	-0.0698(3)	-0.070(1)	-0.2730(4)
C(3b)	-0.3618(4)	-0.592(2)	-0.8181(10)
C(4a)	-0.0639(2)	-0.1510(10)	-0.2140(4)
C(4b)	-0.3930(4)	-0.657(2)	-0.8415(8)
C(5a)	-0.0563(5)	0.051(1)	-0.2686(5)
C(5b)	-0.3436(4)	-0.656(1)	-0.8312(8)

Table 6.III.2: Cont.

Atom	*x*	*y*	*z*
C(6b)	-0.3263(2)	-0.3102(9)	-0.8198(3)
C(6a)	-0.1111(2)	-0.0394(9)	-0.4241(4)
C(7a)	-0.1317(2)	-0.127(1)	-0.4781(4)
C(7b)	-0.3374(4)	-0.166(2)	-0.8385(9)
C(8a)	-0.1613(3)	-0.045(1)	-0.5131(5)
C(8b)	-0.3571(6)	-0.100(1)	-0.8273(7)
C(9a)	-0.1378(2)	-0.268(1)	-0.4597(5)
C(9b)	-0.3291(3)	-0.115(2)	-0.8888(7)
C(10b)	-0.2310(2)	-0.5034(7)	-0.4559(3)
C(10a)	0.0051(2)	-0.2604(7)	-0.5394(3)
C(11b)	-0.2234(2)	-0.6880(9)	-0.3778(4)
C(11a)	0.0328(2)	-0.4673(7)	-0.5451(3)
C(12b)	-0.2292(3)	-0.661(1)	-0.3222(5)
C(12a)	0.0650(2)	-0.4301(8)	-0.5213(4)
C(13b)	-0.2372(4)	-0.794(1)	-0.2991(7)
C(13a)	0.0834(2)	-0.556(1)	-0.4864(4)
C(14b)	-0.2532(4)	-0.555(1)	-0.3346(8)
C(14a)	0.0731(2)	-0.386(1)	-0.5735(5)
C(15b)	-0.1815(2)	-0.5310(10)	-0.3647(4)
C(15a)	-0.0037(2)	-0.3522(8)	-0.6435(3)
C(16b)	-0.1600(3)	-0.631(1)	-0.3708(6)
C(16a)	-0.0282(2)	-0.4627(8)	-0.6724(3)
C(17b)	-0.1282(3)	-0.578(2)	-0.3290(6)
C(17a)	-0.0539(2)	-0.4378(8)	-0.6558(4)
C(18b)	-0.1643(3)	-0.680(2)	-0.4282(8)
C(18a)	-0.0394(2)	-0.464(1)	-0.7437(4)

Table 6.III.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Cd(S_2CN(CH_2CH(CH_3)2)2)2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Cd(1)	0.0507(5)	0.0445(3)	0.0574(3)	-0.0021(3)	0.0356(3)	-0.0044(3)
Cd(2)	0.0747(6)	0.0613(4)	0.0511(3)	-0.0027(4)	0.0067(3)	-0.0046(3)
S(1a)	0.056(2)	0.071(1)	0.060(1)	0.011(1)	0.035(1)	0.017(1)
S(1b)	0.058(2)	0.086(2)	0.065(1)	-0.016(1)	0.015(1)	-0.005(1)
S(2a)	0.048(2)	0.065(1)	0.058(1)	0.008(1)	0.031(1)	0.0091(10)
S(2b)	0.074(2)	0.099(2)	0.051(1)	-0.024(1)	0.027(1)	-0.007(1)
S(3b)	0.053(2)	0.081(2)	0.092(2)	-0.012(1)	0.009(1)	0.011(1)
S(3a)	0.060(2)	0.047(1)	0.0425(10)	0.0088(10)	0.025(1)	0.0006(8)
S(4a)	0.036(1)	0.040(1)	0.0510(10)	0.0060(9)	0.0170(9)	-0.0016(8)
S(4b)	0.060(2)	0.067(2)	0.064(1)	-0.003(1)	0.026(1)	-0.002(1)
N(1a)	0.042(5)	0.052(4)	0.046(3)	0.001(3)	0.028(4)	-0.004(3)
N(1b)	0.051(6)	0.064(4)	0.045(3)	-0.010(4)	0.016(3)	0.000(3)
N(2a)	0.043(5)	0.036(3)	0.041(3)	0.003(3)	0.020(3)	-0.003(3)
N(2b)	0.041(5)	0.048(4)	0.049(3)	-0.002(3)	0.016(3)	0.002(3)
C(1b)	0.045(6)	0.050(5)	0.046(4)	-0.001(4)	0.011(4)	-0.002(3)
C(1a)	0.062(7)	0.037(4)	0.049(4)	-0.001(4)	0.024(4)	-0.012(3)
C(2a)	0.048(7)	0.057(5)	0.056(4)	-0.006(4)	0.038(4)	0.000(4)
C(2b)	0.054(8)	0.105(8)	0.045(4)	-0.011(6)	0.017(4)	-0.001(5)
C(3a)	0.14(1)	0.068(7)	0.051(5)	0.012(6)	0.039(6)	-0.003(5)
C(3b)	0.12(2)	0.18(2)	0.39(3)	-0.10(1)	0.17(2)	-0.22(2)
C(4a)	0.109(9)	0.089(7)	0.049(5)	0.012(6)	0.036(5)	0.005(5)
C(4b)	0.17(2)	0.22(2)	0.29(2)	-0.13(1)	0.13(2)	-0.18(2)
C(5a)	0.41(3)	0.090(10)	0.084(8)	-0.10(1)	0.09(1)	-0.033(7)
C(5b)	0.14(2)	0.077(9)	0.24(2)	0.001(9)	0.08(1)	-0.030(10)

Table 6.III.3: Cont.

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(6b)	0.043(7)	0.086(7)	0.054(5)	-0.007(5)	0.014(4)	0.005(4)
C(6a)	0.047(7)	0.071(6)	0.059(5)	0.007(5)	0.030(5)	0.006(4)
C(7a)	0.034(7)	0.115(9)	0.067(5)	0.000(6)	0.022(5)	-0.012(6)
C(7b)	0.18(2)	0.17(2)	0.28(2)	0.11(1)	0.18(2)	0.15(2)
C(8a)	0.08(1)	0.19(1)	0.075(7)	0.043(9)	0.019(6)	0.002(8)
C(8b)	0.40(3)	0.10(1)	0.16(1)	0.12(1)	0.17(2)	0.062(9)
C(9a)	0.081(10)	0.116(9)	0.103(8)	-0.038(7)	0.048(7)	-0.046(7)
C(9b)	0.15(2)	0.18(1)	0.18(1)	0.03(1)	0.08(1)	0.11(1)
C(10b)	0.044(6)	0.043(4)	0.056(4)	-0.008(4)	0.021(4)	-0.015(4)
C(10a)	0.041(6)	0.034(4)	0.057(4)	-0.008(3)	0.029(4)	0.000(3)
C(11b)	0.081(9)	0.072(6)	0.069(5)	0.007(5)	0.033(5)	0.005(5)
C(11a)	0.035(6)	0.047(4)	0.058(4)	0.008(4)	0.021(4)	-0.007(4)
C(12b)	0.11(1)	0.106(10)	0.120(9)	0.008(8)	0.066(8)	0.006(7)
C(12a)	0.039(7)	0.050(5)	0.067(5)	0.002(4)	0.025(4)	-0.017(4)
C(13b)	0.23(2)	0.12(1)	0.20(1)	0.03(1)	0.16(1)	0.08(1)
C(13a)	0.072(8)	0.086(7)	0.079(6)	0.011(6)	0.024(6)	-0.002(5)
C(14b)	0.29(2)	0.10(1)	0.24(2)	-0.05(1)	0.21(2)	-0.05(1)
C(14a)	0.075(9)	0.098(8)	0.108(8)	-0.009(6)	0.057(7)	0.000(6)
C(15b)	0.040(8)	0.084(7)	0.063(5)	-0.011(5)	0.007(5)	0.006(5)
C(15a)	0.046(6)	0.053(5)	0.047(4)	-0.003(4)	0.029(4)	-0.008(4)
C(16b)	0.045(10)	0.17(1)	0.114(9)	0.017(8)	0.015(7)	-0.036(9)
C(16a)	0.059(7)	0.048(5)	0.047(4)	0.003(4)	0.018(4)	-0.007(4)
C(17b)	0.09(1)	0.26(2)	0.13(1)	0.02(1)	0.018(10)	0.04(1)
C(17a)	0.067(8)	0.057(5)	0.058(5)	-0.008(5)	0.022(5)	-0.007(4)
C(18b)	0.13(1)	0.18(2)	0.23(2)	-0.01(1)	0.09(1)	-0.10(1)
C(18a)	0.063(8)	0.112(8)	0.056(5)	-0.013(6)	0.018(5)	-0.018(5)

Table 6.III.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Cd(S_2CN(CH_2CH(CH_3)2)2)2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	-0.0605	-0.2323	-0.3161	4.5830
H(2b)	-0.0949	-0.2190	-0.3342	4.5830
H(2c)	-0.3768	-0.3982	-0.8370	6.6304
H(2d)	-0.3704	-0.4482	-0.7684	6.6304
H(3a)	-0.0898	-0.0366	-0.2835	8.4251
H(3b)	-0.3542	-0.6286	-0.7756	19.7974
H(4a)	-0.0811	-0.2091	-0.2216	7.7725
H(4b)	-0.0605	-0.0869	-0.1799	7.7725
H(4c)	-0.0465	-0.2096	-0.2027	7.7725
H(4d)	-0.4024	-0.6217	-0.8163	20.6965
H(4e)	-0.4049	-0.6333	-0.8852	20.6965
H(4f)	-0.3910	-0.7576	-0.8369	20.6965
H(5a)	-0.0349	0.0359	-0.2539	18.9745
H(5b)	-0.0593	0.1109	-0.2388	18.9745
H(5c)	-0.0644	0.0961	-0.3095	18.9745
H(5d)	-0.3451	-0.7556	-0.8251	14.5306
H(5e)	-0.3479	-0.6389	-0.8748	14.5306
H(5f)	-0.3234	-0.6253	-0.8038	14.5306
H(6a)	-0.1204	-0.0228	-0.3965	5.3948
H(6b)	-0.1081	0.0487	-0.4407	5.3948
H(6c)	-0.3334	-0.3705	-0.8566	6.0398
H(6d)	-0.3047	-0.3048	-0.8011	6.0398
H(7a)	-0.1228	-0.1394	-0.5069	6.8203
H(7b)	-0.3566	-0.2172	-0.8771	16.2054

Table 6.III.4: Cont.

Atom	*x*	*y*	*z*	B_{eq}
H(8a)	-0.1572	0.0416	-0.5295	11.4928
H(8b)	-0.1695	-0.0233	-0.4840	11.4928
H(8c)	-0.1754	-0.1001	-0.5477	11.4928
H(8d)	-0.3779	-0.1094	-0.8628	19.1737
H(8e)	-0.3582	-0.1388	-0.7900	19.1737
H(8f)	-0.3527	-0.0026	-0.8211	19.1737
H(9a)	-0.1508	-0.3194	-0.4972	9.2128
H(9b)	-0.1475	-0.2580	-0.4324	9.2128
H(9c)	-0.1191	-0.3180	-0.4376	9.2128
H(9d)	-0.3076	-0.1268	-0.8735	15.9469
H(9e)	-0.3392	-0.1692	-0.9282	15.9469
H(9f)	-0.3343	-0.0183	-0.8981	15.9469
H(11a)	0.0298	-0.5021	-0.5099	4.3883
H(11b)	0.0282	-0.5405	-0.5763	4.3883
H(11c)	-0.2421	-0.7201	-0.4118	7.0704
H(11d)	-0.2086	-0.7616	-0.3662	7.0704
H(12a)	0.0695	-0.3537	-0.4916	4.8521
H(12b)	-0.2108	-0.6260	-0.2886	10.1292
H(13a)	0.0789	-0.6334	-0.5154	7.8340
H(13b)	0.0786	-0.5806	-0.4523	7.8340
H(13c)	0.1045	-0.5330	-0.4694	7.8340
H(13d)	-0.2206	-0.8588	-0.2856	15.5113
H(13e)	-0.2547	-0.8354	-0.3328	15.5113
H(13f)	-0.2414	-0.7729	-0.2637	15.5113
H(14a)	0.0702	-0.4636	-0.6017	8.2775
H(14b)	0.0939	-0.3567	-0.5550	8.2775
H(14c)	0.0605	-0.3088	-0.5967	8.2775

Table 6.III.4: Cont.

Atom	*x*	*y*	*z*	*B*eq
H(14d)	-0.2563	-0.5440	-0.2972	16.4400
H(14e)	-0.2717	-0.5861	-0.3694	16.4400
H(14f)	-0.2473	-0.4666	-0.3453	16.4400
H(15a)	0.0110	-0.3679	-0.6589	4.3452
H(15b)	-0.0128	-0.2612	-0.6571	4.3452
H(15c)	-0.1775	-0.5267	-0.3207	6.4446
H(15d)	-0.1783	-0.4396	-0.3783	6.4446
H(16a)	-0.1617	-0.7129	-0.3489	11.1178
H(16b)	-0.0196	-0.5531	-0.6560	5.0488
H(17a)	-0.0633	-0.3490	-0.6731	5.9326
H(17b)	-0.0464	-0.4366	-0.6103	5.9326
H(17c)	-0.0686	-0.5119	-0.6735	5.9326
H(17d)	-0.1265	-0.5520	-0.2878	16.2395
H(17e)	-0.1139	-0.6507	-0.3241	16.2395
H(17f)	-0.1241	-0.4968	-0.3484	16.2395
H(18a)	-0.0479	-0.3739	-0.7609	7.5442
H(18b)	-0.0546	-0.5355	-0.7621	7.5442
H(18c)	-0.0229	-0.4835	-0.7535	7.5442
H(18d)	-0.1620	-0.6041	-0.4529	16.3877
H(18e)	-0.1498	-0.7518	-0.4225	16.3877
H(18f)	-0.1843	-0.7181	-0.4502	16.3877

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 6.III.5: Bond distances (Å) for $[Cd(S_2CN(CH_2CH(CH_3)2)2)2]$

Cd(1) — Cd(1)*	3.524(1)	N(2a) — C(11a)	1.464(9)
Cd(1) — S(1a)	2.565(3)	N(2a) — C(15a)	1.469(8)
Cd(1) — S(2a)	2.592(2)	N(2b) — C(10b)	1.352(9)
Cd(1) — S(3a)	2.592(2)	N(2b) — C(11b)	1.48(1)
Cd(1) — S(4a)	2.781(2)	N(2b) — C(15b)	1.46(1)
Cd(1) — S(4a)*	2.591(2)	C(2a) — C(3a)	1.50(1)
Cd(2) — S(1b)	2.541(2)	C(2b) — C(3b)	1.45(2)
Cd(2) — S(2b)	2.652(3)	C(3a) — C(4a)	1.51(1)
Cd(2) — S(3b)	2.549(3)	C(3a) — C(5a)	1.33(1)
Cd(2) — S(4b)	2.781(3)	C(3b) — C(4b)	1.54(2)
Cd(2) — S(4b)**	2.618(2)	C(3b) — C(5b)	1.25(2)
S(1a) — C(1a)	1.743(8)	C(6b) — C(7b)	1.48(2)
S(1b) — C(1b)	1.715(8)	C(6a) — C(7a)	1.50(1)
S(2a) — C(1a)	1.709(9)	C(7a) — C(8a)	1.55(1)
S(2b) — C(1b)	1.721(8)	C(7a) — C(9a)	1.49(1)
S(3b) — C(10b)	1.696(8)	C(7b) — C(8b)	1.29(2)
S(3a) — C(10a)	1.718(7)	C(7b) — C(9b)	1.51(2)
S(4a) — C(10a)	1.733(7)	C(11b) — C(12b)	1.49(1)
S(4b) — C(10b)	1.746(8)	C(11a) — C(12a)	1.49(1)
N(1a) — C(1a)	1.35(1)	C(12b) — C(13b)	1.51(2)
N(1a) — C(2a)	1.469(8)	C(12b) — C(14b)	1.50(2)
N(1a) — C(6a)	1.44(1)	C(12a) — C(13a)	1.52(1)
N(1b) — C(1b)	1.324(8)	C(12a) — C(14a)	1.52(1)
N(1b) — C(2b)	1.46(1)	C(15b) — C(16b)	1.49(1)
N(1b) — C(6b)	1.45(1)	C(15a) — C(16a)	1.53(1)
N(2a) — C(10a)	1.349(8)	C(16b) — C(17b)	1.54(2)

Table 6.III.5: Cont.

C(16b) — C(18b)	1.36(2)	C(16a) — C(18a)	1.52(1)
C(16a) — C(17a)	1.52(1)		

* symmetry operation: -*x*, -*y*, -1-*z*; ** symmetry operation: -0.5-*x*, -0.5-*y*, -1-*z*

Table 6.III.6: Bond angles (deg.) for $[Cd(S_2CN(CH_2CH(CH_3)_2)_2)_2]$

Cd(1)* — Cd(1) — S(1a)	112.26(6)	S(4b) — C(10b) — N(2b)	120.6(6)
Cd(1)* — Cd(1) — S(2a)	167.72(6)	S(3a) — C(10a) — S(4a)	118.9(4)
Cd(1)* — Cd(1) — S(3a)	78.26(6)	S(3a) — C(10a) — N(2a)	119.8(5)
Cd(1)* — Cd(1) — S(4a)	46.71(4)	S(4a) — C(10a) — N(2a)	121.3(5)
Cd(1)* — Cd(1) — S(4a)*	51.38(5)	N(2b) — C(11b) — C(12b)	117.7(8)
S(1a) — Cd(1) — S(2a)	70.23(7)	Cd(2) — S(1b) — C(1b)	87.7(3)
S(1a) — Cd(1) — S(3a)	151.70(8)	Cd(1) — S(2a) — C(1a)	85.5(3)
S(1a) — Cd(1) — S(4a)	100.23(6)	Cd(2) — S(2b) — C(1b)	84.0(3)
S(1a) — Cd(1) — S(4a)*	108.94(8)	Cd(2) — S(3b) — C(10b)	91.3(3)
S(2a) — Cd(1) — S(3a)	105.31(7)	Cd(1) — S(3a) — C(10a)	89.6(3)
S(2a) — Cd(1) — S(4a)	145.56(7)	Cd(1) — S(4a) — Cd(1)*	81.91(5)
S(2a) — Cd(1) — S(4a)*	116.35(7)	Cd(1) — S(4a) — C(10a)	83.2(2)
S(3a) — Cd(1) — S(4a)	67.07(5)	Cd(1) — S(4a)* — C(10a)*	100.8(3)
S(3a) — Cd(1) — S(4a)*	98.13(9)	Cd(2) — S(4b) — Cd(2)**	89.87(8)
S(4a) — Cd(1) — S(4a)*	98.09(5)	Cd(2) — S(4b) — C(10b)	82.8(3)
S(1b) — Cd(2) — S(2b)	69.40(8)	Cd(2) — S(4b)** — C(10b)**	101.8(2)
S(1b) — Cd(2) — S(3b)	140.92(9)	C(1a) — N(1a) — C(2a)	120.1(6)
S(1b) — Cd(2) — S(4b)	111.33(9)	C(1a) — N(1a) — C(6a)	122.6(6)
S(1b) — Cd(2) — S(4b)**	114.29(8)	C(2a) — N(1a) — C(6a)	117.3(6)
S(2b) — Cd(2) — S(3b)	98.43(8)	C(1b) — N(1b) — C(2b)	120.6(6)
S(2b) — Cd(2) — S(4b)	158.76(8)	C(1b) — N(1b) — C(6b)	123.5(7)
S(2b) — Cd(2) — S(4b)**	109.18(9)	C(2b) — N(1b) — C(6b)	115.9(6)
S(3b) — Cd(2) — S(4b)	67.16(8)	C(10a) — N(2a) — C(11a)	121.7(5)
S(3b) — Cd(2) — S(4b)**	104.79(8)	C(10a) — N(2a) — C(15a)	122.0(6)
S(4b) — Cd(2) — S(4b)**	90.13(8)	C(11a) — N(2a) — C(15a)	116.1(5)
Cd(1) — S(1a) — C(1a)	85.7(3)	C(10b) — N(2b) — C(11b)	121.3(7)

Table 6.III.6: Cont.

S(1a) — C(1a) — S(2a)	118.5(5)	C(10b) — N(2b) — C(15b)	122.9(6)
S(1a) — C(1a) — N(1a)	118.8(6)	C(11b) — N(2b) — C(15b)	115.8(6)
S(2a) — C(1a) — N(1a)	122.7(6)	S(1b) — C(1b) — S(2b)	118.8(4)
N(1a) — C(2a) — C(3a)	115.7(6)	S(1b) — C(1b) — N(1b)	119.7(6)
N(1b) — C(2b) — C(3b)	115.0(9)	S(2b) — C(1b) — N(1b)	121.4(6)
C(2a) — C(3a) — C(4a)	110.4(8)	N(2a) — C(11a) — C(12a)	115.6(6)
C(2a) — C(3a) — C(5a)	122.4(9)	C(11b) — C(12b) — C(13b)	111(1)
C(4a) — C(3a) — C(5a)	119.7(9)	C(11b) — C(12b) — C(14b)	113(1)
C(2b) — C(3b) — C(4b)	109(1)	C(13b) — C(12b) — C(14b)	109(1)
C(2b) — C(3b) — C(5b)	133(1)	C(11a) — C(12a) — C(13a)	107.9(7)
C(4b) — C(3b) — C(5b)	116(1)	C(11a) — C(12a) — C(14a)	113.0(7)
N(1b) — C(6b) — C(7b)	115.3(9)	C(13a) — C(12a) — C(14a)	110.2(7)
N(1a) — C(6a) — C(7a)	113.8(7)	N(2b) — C(15b) — C(16b)	113.1(8)
C(6a) — C(7a) — C(8a)	107.4(9)	N(2a) — C(15a) — C(16a)	114.2(6)
C(6a) — C(7a) — C(9a)	114.4(8)	C(15b) — C(16b) — C(17b)	108(1)
C(8a) — C(7a) — C(9a)	110(1)	C(15b) — C(16b) — C(18b)	121(1)
C(6b) — C(7b) — C(8b)	128(1)	C(17b) — C(16b) — C(18b)	114(1)
C(6b) — C(7b) — C(9b)	110(1)	C(15a) — C(16a) — C(17a)	111.9(6)
C(8b) — C(7b) — C(9b)	120(1)	C(15a) — C(16a) — C(18a)	109.2(7)
S(3b) — C(10b) — S(4b)	118.3(5)	C(17a) — C(16a) — C(18a)	110.5(7)
S(3b) — C(10b) — N(2b)	121.1(6)		

* symmetry operation: -*x*, -*y*, -1-*z*; ** symmetry operation: -0.5-*x*, -0.5-*y*, -1-*z*

Table 6.III.7: Observed and calculated structure factors for $[Cd(S_2CN(CH_2CH(CH_3)_2)_2)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	-8	4779	4810	99	0	4	15	769	784	99	0	8	18	-178	209	99	1	1	3	497	492	99	1	3	4	413	434	99
0	0	4	623	631	99	0	4	16	638	655	99	0	8	19	-245	266	99	1	1	4	2824	2747	99	1	3	5	2309	2310	99
0	0	6	1461	1545	99	0	4	17	1852	1837	99	0	8	20	333	279	99	1	1	5	1583	1581	99	1	3	6	406	438	99
0	0	10	2940	2882	99	0	4	18	176	297	99	0	8	21	205	188	99	1	1	6	1077	1044	99	1	3	7	1218	1294	99
0	0	12	578	627	99	0	4	19	560	593	99	0	10	0	453	364	99	1	1	7	3387	3370	99	1	3	8	1698	1553	99
0	0	14	918	854	99	0	4	20	439	458	99	0	10	1	545	444	99	1	1	8	2287	2318	99	1	3	9	1115	1053	99
0	0	16	290	380	99	0	4	21	606	579	99	0	10	2	274	59	99	1	1	9	2983	2994	99	1	3	10	2249	2255	99
0	0	18	294	47	99	0	4	22	423	390	99	0	10	3	998	913	99	1	1	10	2935	3042	99	1	3	11	502	499	99
0	0	20	570	628	99	0	4	23	-236	241	99	0	10	4	-273	112	99	1	1	11	458	433	99	1	3	12	529	544	99
0	0	22	189	203	99	0	4	24	55	80	99	0	10	5	666	587	99	1	1	12	2442	2447	99	1	3	13	1297	1450	99
0	0	24	407	414	99	0	4	25	191	428	99	0	10	6	170	239	99	1	1	13	2078	2151	99	1	3	14	228	273	99
0	0	26	407	436	99	0	4	26	184	79	99	0	10	7	481	452	99	1	1	14	218	277	99	1	3	15	754	774	99
0	2	0	2763	2886	99	0	6	0	175	228	99	0	10	8	147	45	99	1	1	15	1831	1765	99	1	3	16	1188	1224	99
0	2	1	6914	7230	99	0	6	1	480	489	99	0	10	9	270	221	99	1	1	16	-353	42	99	1	3	17	764	828	99
0	2	2	2039	1994	99	0	6	2	873	851	99	0	10	10	167	170	99	1	1	17	827	893	99	1	3	18	540	610	99
0	2	3	5634	5697	99	0	6	3	364	348	99	0	10	11	133	183	99	1	1	18	523	492	99	1	3	19	182	214	99
0	2	4	2869	2798	99	0	6	4	1258	1224	99	0	10	12	855	660	99	1	1	19	241	235	99	1	3	20	264	251	99
0	2	5	2770	2809	99	0	6	5	1109	1202	99	0	10	13	261	163	99	1	1	20	292	258	99	1	3	21	793	779	99
0	2	6	1253	1155	99	0	6	6	536	451	99	0	10	14	764	683	99	1	1	21	375	410	99	1	3	22	181	193	99
0	2	7	1799	1910	99	0	6	7	571	551	99	0	10	15	214	112	99	1	1	22	-273	205	99	1	3	23	521	485	99
0	2	8	1825	1826	99	0	6	8	91	209	99	0	10	16	229	54	99	1	1	23	638	530	99	1	3	24	272	230	99
0	2	9	645	649	99	0	6	9	310	310	99	0	12	0	313	416	99	1	1	24	473	404	99	1	3	25	-109	108	99
0	2	10	483	382	99	0	6	10	1087	978	99	0	12	1	14	7	99	1	1	25	-335	215	99	1	3	26	212	275	99
0	2	11	2131	2060	99	0	6	11	479	471	99	0	12	2	424	370	99	1	1	26	-365	72	99	1	5	-25	87	142	99
0	2	12	208	118	99	0	6	12	1594	1488	99	0	12	3	126	52	99	1	1	27	244	94	99	1	5	-24	275	355	99
0	2	13	1435	1504	99	0	6	13	1023	987	99	0	12	4	190	29	99	1	3	-26	215	66	99	1	5	-23	-284	38	99
0	2	14	448	436	99	0	6	14	1513	1532	99	0	12	5	-211	38	99	1	3	-25	410	424	99	1	5	-22	457	419	99
0	2	15	231	357	99	0	6	15	280	188	99	0	12	6	-244	94	99	1	3	-24	382	375	99	1	5	-21	-124	247	99
0	2	16	632	594	99	0	6	16	456	512	99	0	12	7	-328	132	99	1	3	-23	-161	140	99	1	5	-20	488	489	99
0	2	17	331	246	99	0	6	17	458	478	99	1	1	-27	103	164	99	1	3	-22	506	465	99	1	5	-19	214	109	99
0	2	18	717	620	99	0	6	18	987	1014	99	1	1	-26	209	248	99	1	3	-21	263	139	99	1	5	-18	1135	1142	99
0	2	19	98	94	99	0	6	19	152	138	99	1	1	-25	463	450	99	1	3	-20	-266	79	99	1	5	-17	265	349	99
0	2	20	620	587	99	0	6	20	1144	1158	99	1	1	-24	549	614	99	1	3	-19	158	37	99	1	5	-16	331	347	99
0	2	21	288	255	99	0	6	21	-347	70	99	1	1	-23	186	35	99	1	3	-18	333	420	99	1	5	-15	1390	1446	99
0	2	22	297	182	99	0	6	22	513	555	99	1	1	-22	548	633	99	1	3	-17	1300	1271	99	1	5	-14	210	207	99
0	2	23	-152	94	99	0	6	23	118	145	99	1	1	-21	808	850	99	1	3	-16	-280	177	99	1	5	-13	1507	1510	99
0	2	24	166	38	99	0	6	24	324	249	99	1	1	-20	-296	54	99	1	3	-15	832	836	99	1	5	-12	454	495	99
0	2	25	89	11	99	0	8	0	-99	70	99	1	1	-19	1040	1081	99	1	3	-14	895	890	99	1	5	-11	1184	1150	99
0	2	26	249	171	99	0	8	1	-190	287	99	1	1	-18	120	74	99	1	3	-13	-190	113	99	1	5	-10	1454	1581	99
0	2	27	31	25	99	0	8	2	775	788	99	1	1	-17	936	883	99	1	3	-12	1111	1148	99	1	5	-9	137	267	99
0	4	0	4661	4916	99	0	8	3	139	212	99	1	1	-16	408	431	99	1	3	-11	260	179	99	1	5	-8	1713	1830	99
0	4	1	233	282	99	0	8	4	552	467	99	1	1	-15	158	176	99	1	3	-10	1987	1971	99	1	5	-7	1837	1941	99
0	4	2	1015	1185	99	0	8	5	266	174	99	1	1	-14	417	371	99	1	3	-9	157	279	99	1	5	-6	915	990	99
0	4	3	871	967	99	0	8	6	783	753	99	1	1	-13	472	483	99	1	3	-8	612	534	99	1	5	-5	2007	1954	99
0	4	4	1636	1680	99	0	8	7	481	458	99	1	1	-12	549	399	99	1	3	-7	802	780	99	1	5	-4	522	444	99
0	4	5	1844	1975	99	0	8	8	-377	258	99	1	1	-11	1887	1918	99	1	3	-6	822	917	99	1	5	-3	175	110	99
0	4	6	2481	2406	99	0	8	9	528	494	99	1	1	-10	720	710	99	1	3	-5	934	958	99	1	5	-2	1705	1640	99
0	4	7	1998	2049	99	0	8	10	115	77	99	1	1	-9	369	362	99	1	3	-4	2814	2959	99	1	5	-1	2454	2544	99
0	4	8	2001	1913	99	0	8	11	393	404	99	1	1	-8	1217	1236	99	1	3	-3	1839	1884	99	1	5	0	2296	2251	99
0	4	9	2052	2050	99	0	8	12	147	25	99	1	1	-7	515	483	99	1	3	-2	3679	3746	99	1	5	1	2409	2466	99
0	4	10	151	227	99	0	8	13	226	17	99	1	1	-6	1663	1752	99	1	3	-1	1434	1283	99	1	5	2	1656	1679	99
0	4	11	582	589	99	0	8	14	152	254	99	1	1	-5	1209	1134	99	1	3	0	1817	1754	99	1	5	3	2453	2548	99
0	4	12	1221	1249	99	0	8	15	883	826	99	1	1	-4	182	169	99	1	3	1	789	736	99	1	5	4	738	762	99
0	4	13	249	160	99	0	8	16	216	114	99	1	1	-3	2829	2804	99	1	3	2	579	607	99	1	5	5	723	747	99
0	4	14	2130	2061	99	0	8	17	852	826	99	1	1	2	3131	2875	99	1	3	3	411	454	99	1	5	6	1853	1780	99
1	5	7	485	391	99	1	7	14	-277	275	99	1	11	-5	-538	56	99	2	2	-14	777	855	99	2	4	-12	636	631	99
1	5	8	1508	1419	99	1	7	15	769	749	99	1	11	-4	212	282	99	2	2	-13	146	141	99	2	4	-11	945	969	99
1	5	9	268	203	99	1	7	16	286	303	99	1	11	-3	-184	116	99	2	2	-12	399	369	99	2	4	-10	-222	172	99
1	5	10	1461	1350	99	1	7	17	811	874	99	1	11	-2	621	632	99	2	2	-11	2245	2311	99	2	4	-9	556	607	99
1	5	11	526	467	99	1	7	18	346	139	99	1	11	-1	350	269	99	2	2	-10	830	951	99	2	4	-8	-102	85	99
1	5	12	1408	1363	99	1	7	19	281	487	99	1	11	0	919	849	99	2	2	-9	2536	2484	99	2	4	-7	2180	2319	99
1	5	13	658	631	99	1	7	20	417	368	99	1	11	1	-180	85	99	2	2	-8	2356	2509	99	2	4	-6	129	103	99
1	5	14	695	692	99	1	7	21	-96	20	99	1	11	2	651	529	99	2	2	-7	1665	1561	99	2	4	-5	3659	3862	99
1	5	15	774	773	99	1	7	22	493	520	99	1	11	3	-253	182	99	2	2	-6	2063	1961	99	2	4	-4	1936	2010	99
1	5	16	497	432	99	1	9	-19	231	8	99	1	11	4	-129	70	99	2	2	-5	1214	1289	99	2	4	-3	3221	3131	99
1	5	17	348	255	99	1	9	-18	-244	211	99	1	11	5	294	445	99	2	2	-4	217	342	99	2	4	-2	771	803	99
1	5	18	425	401	99	1	9	-17	-126	170	99	1	11	6	-49	72	99	2	2	-3	2334	2420	99	2	4	-1	1302	1243	99
1	5	19	624	690	99	1	9	-16	256	288	99	1	11	7	473	387	99	2	2	-2	1182	1203	99	2	4	0	603	707	99
1	5	20	756	833	99	1	9	-15	731	773	99	1	11	8	366	94	99	2	2	-1	4737	5030	99	2	4	1	964	994	99
1	5	21	197	423	99	1	9	-14	-130	139	99	1	11	9	271	216	99	2	2	0	2687	2672	99	2	4	2	122	73	99
1	5	22	132	372	99	1	9	-13	873	810	99	1	11	10	409	395	99	2	2	1	5298	5288	99	2	4	3	2495	2500	99
1	5	23	-225	189	99	1	9	-12	120	204	99	1	11	11	-281	95	99	2	2	2	109	73	99	2	4	4	170	144	99
1	5	24	-312	289	99	1	9	-11	721	681	99	1	11	12	459	381	99	2	2	3	2269	2235	99	2	4	5	3677	3618	99
1	5	25	142	49	99	1	9	-10	102	160	99	2	0	-26	65	86	99	2	2	4	1262	1315	99	2	4	6	154	80	99
1	7	-22	-401	132	99	1	9	-9	201	113	99	2	0	-24	443	550	99	2	2	5	2018	1863	99	2	4	7	1768	1854	99
1	7	-21	177	278	99	1	9	-8	228	241	99	2	0	-22	1031	1168	99	2	2	6	1126	1102	99	2	4	8	166	289	99
1	7	-20	514	519	99	1	9	-7	885	896	99	2	0	-20	988	993	99	2	2	7	2571	2463	99	2	4	9	672	708	99
1	7	-19	168	63	99	1	9	-6	-122	31	99	2	0	-18	37	126	99	2	2	8	1349	1413	99	2	4	10	821	826	99
1	7	-18	795	737	99	1	9	-5	986	977	99	2	0	-16	1239	1426	99	2	2	9	5317	5414	99	2	4	11	367	444	99
1	7	-17	722	739	99	1	9	-4	498	497	99	2	0	-14	2512	2595	99	2	2	10	431	368	99	2	4	12	915	904	99
1	7	-16	677	683	99	1	9	-3	689	644	99	2	0	-12	3818	3753	99	2	2	11	1662	1682	99	2	4	13	204	99	99
1	7	-15	853	795	99	1	9	-2	508	466	99	2	0	-10	4851	4814	99	2	2	12	305	291	99	2	4	14	220	207	99
1	7	-14	-408	225	99	1	9	-1	-84	119	99	2	0	-8	984	1087	99	2	2	13	904	850	99	2	4	15	504	494	99
1	7	-13	521	390	99	1	9	0	206	81	99	2	0	-6	2870	2868	99	2	2	14	124	104	99	2	4	16	172	322	99
1	7	-12	746	785	99	1	9	1	1133	1107	99	2	0	-4	2708	2795	99	2	2	15	1371	1326	99	2	4	17	-100	124	99
1	7	-11	-220	11	99	1	9	2	-275	77	99	2	0	4	5885	6072	99	2	2	16	-161	30	99	2	4	18	440	376	99
1	7	-10	1274	1264	99	1	9	3	1374	1298	99	2	0	6	877	873	99	2	2	17	1319	1380	99	2	4	19	374	298	99
1	7	-9	976	908	99	1	9	4	528	459	99	2	0	8	346	322	99	2	2	18	456	412	99	2	4	20	799	816	99
1	7	-8	1049	1135	99	1	9	5	111	393	99	2	0	10	4680	4683	99	2	2	19	593	667	99	2	4	21	-72	260	99
1	7	-7	1404	1424	99	1	9	6	249	293	99	2	0	12	3843	3912	99	2	2	20	391	434	99	2	4	22	453	472	99
1	7	-6	221	22	99	1	9	7	-207	121	99	2	0	14	1464	1527	99	2	2	21	623	696	99	2	4	23	-237	97	99
1	7	-5	1667	1594	99	1	9	8	-370	55	99	2	0	16	790	801	99	2	2	22	-80	260	99	2	4	24	229	23	99
1	7	-4	1415	1307	99	1	9	9	223	179	99	2	0	18	607	500	99	2	2	23	906	939	99	2	4	25	111	35	99
1	7	-3	811	761	99	1	9	10	513	504	99	2	0	20	1288	1173	99	2	2	24	-203	214	99	2	6	-24	232	221	99
1	7	-2	527	474	99	1	9	11	355	218	99	2	0	22	691	706	99	2	2	25	534	591	99	2	6	-23	359	326	99
1	7	-1	400	333	99	1	9	12	527	531	99	2	0	24	-62	232	99	2	2	26	193	27	99	2	6	-22	183	162	99
1	7	0	347	233	99	1	9	13	-323	121	99	2	0	26	-335	193	99	2	4	-26	199	241	99	2	6	-21	24	39	99
1	7	1	-208	137	99	1	9	14	-345	138	99	2	2	-27	-74	247	99	2	4	-25	60	18	99	2	6	-20	236	33	99
1	7	2	446	411	99	1	9	15	176	142	99	2	2	-26	136	30	99	2	4	-24	320	25	99	2	6	-19	250	250	99
1	7	3	-135	208	99	1	9	16	-150	189	99	2	2	-25	860	911	99	2	4	-23	249	102	99	2	6	-18	594	727	99
1	7	4	1224	1190	99	1	9	17	230	293	99	2	2	-24	-270	165	99	2	4	-22	451	429	99	2	6	-17	160	427	99
1	7	5	519	542	99	1	9	18	225	136	99	2	2	-23	921	956	99	2	4	-21	249	216	99	2	6	-16	737	731	99
1	7	6	269	33	99	1	11	-13	220	82	99	2	2	-22	-186	122	99	2	4	-20	499	446	99	2	6	-15	-230	352	99
1	7	7	217	155	99	1	11	-12	592	648	99	2	2	-21	127	57	99	2	4	-19	432	397	99	2	6	-14	466	459	99
1	7	8	500	515	99	1	11	-11	-425	205	99	2	2	-20	429	413	99	2	4	-18	338	281	99	2	6	-13	467	501	99
1	7	9	206	73	99	1	11	-10	622	726	99	2	2	-19	1041	1057	99	2	4	-17	388	230	99	2	6	-12	679	716	99
1	7	10	-219	168	99	1	11	-9	111	237	99	2	2	-18	-53	337	99	2	4	-16	331	214	99	2	6	-11	1008	1022	99
1	7	11	-385	104	99	1	11	-8	471	362	99	2	2	-17	1577	1493	99	2	4	-15	1691	1657	99	2	6	-10	1344	1426	99
1	7	12	124	66	99	1	11	-7	165	135	99	2	2	-16	725	735	99	2	4	-14	174	35	99	2	6	-9	583	577	99
1	7	13	272	139	99	1	11	-6	164	183	99	2	2	-15	1383	1364	99	2	4	-13	486	573	99	2	6	-8	2331	2292	99

h	k	l	Fo	Fc	sigF2
2	6	-7	-190	99	99
2	6	-6	1420	1439	99
2	6	-5	865	928	99
2	6	-4	1209	1206	99
2	6	-3	592	508	99
2	6	-2	2546	2462	99
2	6	-1	158	189	99
2	6	0	2971	2836	99
2	6	1	213	344	99
2	6	2	2297	2288	99
2	6	3	344	337	99
2	6	4	272	351	99
2	6	5	278	263	99
2	6	6	1719	1702	99
2	6	7	1196	1094	99
2	6	8	2344	2327	99
2	6	9	861	858	99
2	6	10	1178	1187	99
2	6	11	672	689	99
2	6	12	655	713	99
2	6	13	181	278	99
2	6	14	181	212	99
2	6	15	650	705	99
2	6	16	240	212	99
2	6	17	268	510	99
2	6	18	-255	31	99
2	6	19	220	326	99
2	6	20	150	284	99
2	6	21	304	225	99
2	6	22	273	388	99
2	6	23	431	428	99
2	8	-21	203	227	99
2	8	-20	-285	186	99
2	8	-19	240	321	99
2	8	-18	-446	197	99
2	8	-17	-127	92	99
2	8	-16	-141	198	99
2	8	-15	499	517	99
2	8	-14	-146	132	99
2	8	-13	932	1003	99
2	8	-12	300	92	99
2	8	-11	763	733	99
2	8	-10	214	208	99
2	8	-9	427	382	99
2	8	-8	-256	399	99
2	8	-7	329	405	99
2	8	-6	284	188	99
2	8	-5	1996	1888	99
2	8	-4	402	376	99
2	8	-3	1502	1446	99
2	8	-2	-316	207	99
2	8	-1	348	329	99
2	8	0	96	78	99
2	8	1	404	395	99
2	8	2	200	157	99
2	8	3	1564	1502	99
2	8	4	245	135	99
2	8	5	1427	1356	99
2	8	6	-212	79	99
2	8	7	179	104	99
2	8	8	-226	74	99
2	8	9	614	558	99
2	8	10	532	470	99
2	8	11	569	527	99
2	8	12	666	659	99
2	8	13	312	226	99
2	8	14	207	83	99
2	8	15	234	110	99
2	8	16	-166	109	99
2	8	17	159	56	99
2	8	18	-374	108	99
2	8	19	-233	76	99
2	8	20	72	18	99
2	10	-16	97	269	99
2	10	-15	342	387	99
2	10	-14	183	226	99
2	10	-13	553	423	99
2	10	-12	203	132	99
2	10	-11	-236	197	99
2	10	-10	341	322	99
2	10	-9	-117	201	99
2	10	-8	528	475	99
2	10	-7	530	524	99
2	10	-6	394	484	99
2	10	-5	588	657	99
2	10	-4	67	121	99
2	10	-3	476	479	99
2	10	-2	803	676	99
2	10	-1	308	387	99
2	10	0	759	676	99
2	10	1	103	260	99
2	10	2	824	800	99
2	10	3	670	632	99
2	10	4	113	99	99
2	10	5	481	539	99
2	10	6	240	400	99
2	10	7	464	345	99
2	10	8	-69	128	99
2	10	9	427	258	99
2	10	10	304	60	99
2	10	11	-246	140	99
2	10	12	221	161	99
2	10	13	584	495	99
2	10	14	81	168	99
2	10	15	-127	176	99
2	10	16	204	4	99
2	12	-7	305	187	99
2	12	-6	-38	167	99
2	12	-5	368	352	99
2	12	-4	-182	171	99
2	12	-3	342	387	99
2	12	-2	84	131	99
2	12	-1	-224	153	99
2	12	0	435	369	99
2	12	1	-443	197	99
2	12	2	229	414	99
2	12	3	419	438	99
2	12	4	438	415	99
2	12	5	-111	318	99
2	12	6	301	305	99
2	12	7	-377	37	99
3	1	-28	156	78	99
3	1	-27	196	173	99
3	1	-26	-138	377	99
3	1	-25	372	413	99
3	1	-24	390	335	99
3	1	-23	605	677	99
3	1	-22	382	413	99
3	1	-21	348	395	99
3	1	-20	617	673	99
3	1	-19	367	463	99
3	1	-18	642	601	99
3	1	-17	1281	1224	99
3	1	-16	1230	1152	99
3	1	-15	2413	2406	99
3	1	-14	1565	1596	99
3	1	-13	2274	2283	99
3	1	-12	3772	3850	99
3	1	-11	613	539	99
3	1	-10	4010	4128	99
3	1	-9	3541	3460	99
3	1	-8	2670	2656	99
3	1	-7	3145	3094	99
3	1	-6	1975	1790	99
3	1	-5	263	245	99
3	1	-4	459	460	99
3	1	-3	1801	1708	99
3	1	2	4531	4208	99
3	1	3	2263	2041	99
3	1	4	385	435	99
3	1	5	326	374	99
3	1	6	1085	1103	99
3	1	7	2229	2167	99
3	1	8	1636	1736	99
3	1	9	1343	1342	99
3	1	10	1277	1350	99
3	1	11	1916	1952	99
3	1	12	977	982	99
3	1	13	234	205	99
3	1	14	391	303	99
3	1	15	818	742	99
3	1	16	571	542	99
3	1	17	1354	1268	99
3	1	18	211	269	99
3	1	19	1548	1480	99
3	1	20	251	398	99
3	1	21	534	531	99
3	1	22	987	1006	99
3	1	23	402	303	99
3	1	24	386	414	99
3	1	25	574	610	99
3	1	26	168	6	99
3	3	-27	-187	127	99
3	3	-26	446	506	99
3	3	-25	108	409	99
3	3	-24	480	464	99
3	3	-23	844	914	99
3	3	-22	413	381	99
3	3	-21	552	467	99
3	3	-20	466	454	99
3	3	-19	237	272	99
3	3	-18	922	956	99
3	3	-17	577	612	99
3	3	-16	1130	1107	99
3	3	-15	2234	2313	99
3	3	-14	570	655	99
3	3	-13	1314	1418	99
3	3	-12	1024	1032	99
3	3	-11	606	624	99
3	3	-10	2105	2050	99
3	3	-9	700	696	99
3	3	-8	43	285	99
3	3	-7	1869	1897	99
3	3	-6	3144	3292	99
3	3	-5	1944	1948	99
3	3	-4	1757	1911	99
3	3	-3	1379	1473	99
3	3	-2	3259	3355	99
3	3	-1	525	590	99
3	3	0	229	117	99
3	3	1	2607	2764	99
3	3	2	2234	2151	99
3	3	3	1047	965	99
3	3	4	2789	2714	99
3	3	5	1590	1440	99
3	3	6	1548	1425	99
3	3	7	765	815	99
3	3	8	2620	2579	99
3	3	9	381	412	99
3	3	10	1667	1681	99
3	3	11	451	505	99
3	3	12	755	684	99
3	3	13	384	259	99
3	3	14	353	418	99
3	3	15	1031	1033	99
3	3	16	715	722	99
3	3	17	912	903	99
3	3	18	494	528	99
3	3	19	905	819	99
3	3	20	367	362	99
3	3	21	429	479	99
3	3	22	522	503	99
3	3	23	-417	370	99
3	3	24	486	549	99
3	3	25	252	271	99
3	3	26	121	87	99
3	5	-25	165	34	99
3	5	-24	178	38	99
3	5	-23	354	248	99
3	5	-22	-249	258	99
3	5	-21	675	656	99
3	5	-20	360	410	99
3	5	-19	167	25	99
3	5	-18	430	491	99
3	5	-17	-158	351	99
3	5	-16	661	683	99
3	5	-15	937	972	99
3	5	-14	785	741	99
3	5	-13	1089	1053	99
3	5	-12	834	914	99
3	5	-11	317	314	99
3	5	-10	436	397	99
3	5	-9	631	690	99
3	5	-8	1533	1382	99
3	5	-7	729	679	99
3	5	-6	1048	1026	99
3	5	-5	2120	2290	99
3	5	-4	1078	1240	99
3	5	-3	3519	3579	99
3	5	-2	1649	1834	99
3	5	-1	2870	2964	99
3	5	0	2191	2271	99
3	5	1	1955	2015	99
3	5	2	2284	2268	99
3	5	3	1031	1008	99
3	5	4	882	761	99
3	5	5	2909	2886	99
3	5	6	547	587	99
3	5	7	1314	1374	99
3	5	8	2376	2386	99
3	5	9	810	799	99
3	5	10	1096	1130	99
3	5	11	1291	1305	99
3	5	12	346	403	99
3	5	13	1859	1750	99
3	5	14	797	866	99
3	5	15	484	521	99
3	5	16	223	19	99
3	5	17	-117	131	99
3	5	18	-195	239	99
3	5	19	164	342	99
3	5	20	524	429	99
3	5	21	-130	193	99
3	5	22	545	623	99
3	5	23	93	22	99
3	5	24	257	325	99
3	7	-23	-67	40	99
3	7	-22	454	407	99
3	7	-21	-67	13	99
3	7	-20	-589	77	99
3	7	-19	377	286	99
3	7	-18	141	120	99
3	7	-17	650	555	99
3	7	-16	-175	12	99
3	7	-15	674	728	99
3	7	-14	-283	268	99
3	7	-13	150	240	99
3	7	-12	350	503	99
3	7	-11	378	327	99
3	7	-10	-400	365	99
3	7	-9	459	407	99
3	7	-8	-174	324	99
3	7	-7	-353	231	99
3	7	-6	1406	1379	99
3	7	-5	181	420	99
3	7	-4	1250	1230	99
3	7	-3	611	583	99
3	7	-2	238	399	99
3	7	-1	209	81	99
3	7	0	675	704	99
3	7	1	236	246	99
3	7	2	1672	1676	99
3	7	3	702	709	99
3	7	4	1467	1344	99
3	7	5	2025	1927	99
3	7	6	993	972	99
3	7	7	1952	1872	99
3	7	8	1555	1520	99
3	7	9	255	154	99
3	7	10	1391	1381	99
3	7	11	254	311	99
3	7	12	1584	1494	99
3	7	13	-182	148	99
3	7	14	-188	83	99
3	7	15	725	634	99
3	7	16	210	319	99
3	7	17	-130	421	99
3	7	18	235	287	99
3	7	19	-146	190	99
3	7	20	-221	174	99
3	7	21	194	60	99
3	7	22	-137	31	99
3	9	-19	40	37	99
3	9	-18	228	27	99
3	9	-17	-152	11	99
3	9	-16	-130	34	99
3	9	-15	179	52	99
3	9	-14	230	204	99
3	9	-13	270	445	99
3	9	-12	470	413	99
3	9	-11	625	563	99
3	9	-10	169	32	99
3	9	-9	331	189	99
3	9	-8	377	392	99
3	9	-7	277	40	99
3	9	-6	615	630	99
3	9	-5	1073	1001	99
3	9	-4	854	852	99
3	9	-3	1547	1501	99
3	9	-2	-250	144	99
3	9	-1	1290	1270	99
3	9	0	502	438	99
3	9	1	230	74	99
3	9	2	656	637	99
3	9	3	1070	1027	99
3	9	4	793	702	99
3	9	5	1775	1646	99
3	9	6	124	113	99
3	9	7	859	842	99
3	9	8	427	327	99
3	9	9	38	167	99
3	9	10	-469	20	99
3	9	11	9	136	99
3	9	12	591	475	99
3	9	13	490	525	99
3	9	14	199	301	99
3	9	15	440	248	99
3	9	16	-167	229	99
3	9	17	178	63	99
3	9	18	332	48	99
3	11	-13	183	158	99
3	11	-12	89	385	99
3	11	-11	-235	42	99
3	11	-10	-135	482	99
3	11	-9	-102	151	99
3	11	-8	-185	269	99
3	11	-7	435	448	99
3	11	-6	176	226	99
3	11	-5	403	375	99
3	11	-4	-263	154	99
3	11	-3	138	150	99
3	11	-2	-418	177	99
3	11	-1	-179	158	99
3	11	0	921	885	99
3	11	1	247	299	99
3	11	2	875	856	99
3	11	3	229	107	99
3	11	4	537	527	99
3	11	5	-274	175	99
3	11	6	-354	50	99
3	11	7	175	130	99
3	11	8	508	403	99
3	11	9	272	91	99
3	11	10	626	639	99
3	11	11	328	162	99
3	11	12	629	645	99
4	0	-28	454	506	99
4	0	-26	412	410	99
4	0	-24	159	13	99
4	0	-22	350	396	99
4	0	-20	619	720	99
4	0	-18	334	300	99
4	0	-16	2188	2395	99
4	0	-14	1178	1298	99
4	0	-12	1485	1455	99
4	0	-10	6009	5796	99
4	0	-8	4357	4039	99
4	0	-6	3920	3494	99
4	0	-4	1091	1193	99
4	0	2	5621	5091	99
4	0	4	1556	1347	99
4	0	6	2745	2713	99
4	0	8	2699	2727	99
4	0	10	-108	174	99
4	0	12	516	480	99
4	0	14	380	345	99
4	0	16	139	178	99
4	0	18	678	625	99
4	0	20	336	390	99
4	0	22	885	888	99
4	0	24	738	800	99
4	0	26	-344	338	99
4	2	-28	285	312	99
4	2	-27	128	86	99
4	2	-26	81	103	99
4	2	-25	100	51	99
4	2	-24	226	163	99
4	2	-23	369	436	99
4	2	-22	442	446	99
4	2	-21	410	396	99
4	2	-20	839	887	99
4	2	-19	323	294	99
4	2	-18	630	617	99
4	2	-17	-80	144	99
4	2	-16	197	116	99
4	2	-15	1380	1471	99
4	2	-14	475	401	99
4	2	-13	2665	2698	99
4	2	-12	840	735	99
4	2	-11	2925	2866	99
4	2	-10	1649	1518	99
4	2	-9	542	629	99
4	2	-8	718	707	99
4	2	-7	2492	2600	99
4	2	-6	3275	3237	99
4	2	-5	2016	2066	99
4	2	-4	1371	1421	99
4	2	-3	7147	7435	99
4	2	-2	277	246	99
4	2	-1	3226	3181	99
4	2	0	1210	1142	99
4	2	1	2883	2715	99
4	2	2	2008	1900	99
4	2	3	1118	1141	99
4	2	4	4347	4160	99
4	2	5	1256	1219	99
4	2	6	3344	3170	99
4	2	7	468	497	99
4	2	8	372	337	99
4	2	9	1294	1277	99
4	2	10	138	139	99
4	2	11	879	891	99
4	2	12	349	281	99
4	2	13	596	612	99
4	2	14	631	575	99
4	2	15	547	575	99
4	2	16	-185	72	99
4	2	17	129	130	99
4	2	18	897	850	99
4	2	19	443	419	99
4	2	20	-140	371	99
4	2	21	708	800	99
4	2	22	-181	84	99
4	2	23	171	96	99
4	2	24	192	56	99
4	2	25	283	204	99
4	2	26	-200	257	99
4	4	-26	97	78	99
4	4	-25	483	466	99
4	4	-24	450	450	99
4	4	-23	293	392	99
4	4	-22	567	520	99
4	4	-21	-30	64	99
4	4	-20	161	194	99
4	4	-19	632	734	99
4	4	-18	388	425	99
4	4	-17	1339	1342	99
4	4	-16	2086	2172	99
4	4	-15	946	893	99
4	4	-14	2342	2420	99
4	4	-13	424	370	99
4	4	-12	765	760	99
4	4	-11	747	824	99
4	4	-10	954	968	99
4	4	-9	1303	1311	99
4	4	-8	1975	2037	99
4	4	-7	130	259	99
4	4	-6	1619	1567	99
4	4	-5	1623	1733	99
4	4	-4	456	547	99
4	4	-3	1755	1725	99
4	4	-2	2538	2655	99
4	4	-1	163	217	99
4	4	0	1981	2024	99
4	4	1	2162	2157	99
4	4	2	2311	2379	99
4	4	3	1551	1465	99
4	4	4	1757	1636	99
4	4	5	2122	2226	99
4	4	6	2803	2795	99
4	4	7	3166	3232	99
4	4	8	1308	1361	99
4	4	9	1235	1222	99
4	4	10	218	17	99
4	4	11	168	443	99
4	4	12	739	726	99
4	4	13	151	95	99
4	4	14	594	677	99
4	4	15	1613	1590	99
4	4	16	583	591	99
4	4	17	1405	1383	99
4	4	18	913	922	99
4	4	19	214	247	99
4	4	20	817	758	99
4	4	21	352	236	99
4	4	22	-295	59	99
4	4	23	-220	345	99
4	4	24	258	209	99
4	4	25	208	368	99
4	6	-24	157	237	99
4	6	-23	97	207	99
4	6	-22	602	643	99
4	6	-21	52	169	99
4	6	-20	875	829	99
4	6	-19	162	202	99
4	6	-18	496	401	99
4	6	-17	220	5	99
4	6	-16	457	434	99
4	6	-15	367	285	99
4	6	-14	950	936	99
4	6	-13	315	367	99
4	6	-12	982	989	99
4	6	-11	216	233	99
4	6	-10	500	464	99
4	6	-9	289	257	99
4	6	-8	660	660	99
4	6	-7	351	414	99
4	6	-6	374	403	99
4	6	-5	463	503	99
4	6	-4	250	267	99
4	6	-3	-120	93	99
4	6	-2	693	702	99
4	6	-1	-204	17	99
4	6	0	-122	121	99
4	6	1	163	86	99
4	6	2	1590	1601	99
4	6	3	878	849	99
4	6	4	2749	2657	99
4	6	5	574	573	99
4	6	6	1131	1062	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	6	7	277	290	99	4	8	17	554	507	99	5	1	-25	-400	19	99	5	3	-23	384	355	99	5	5	-20	383	386	99
4	6	8	1434	1393	99	4	8	18	-374	214	99	5	1	-24	435	307	99	5	3	-22	195	33	99	5	5	-19	-418	138	99
4	6	9	492	438	99	4	8	19	-273	194	99	5	1	-23	22	51	99	5	3	-21	648	629	99	5	5	-18	1042	982	99
4	6	10	1475	1428	99	4	8	20	217	133	99	5	1	-22	265	253	99	5	3	-20	476	463	99	5	5	-17	993	978	99
4	6	11	696	731	99	4	10	-17	176	13	99	5	1	-21	388	369	99	5	3	-19	96	21	99	5	5	-16	79	357	99
4	6	12	1933	1891	99	4	10	-16	-428	124	99	5	1	-20	806	819	99	5	3	-18	902	898	99	5	5	-15	1322	1356	99
4	6	13	694	641	99	4	10	-15	159	65	99	5	1	-19	931	882	99	5	3	-17	734	744	99	5	5	-14	158	239	99
4	6	14	1484	1495	99	4	10	-14	469	401	99	5	1	-18	284	230	99	5	3	-16	451	522	99	5	5	-13	1385	1306	99
4	6	15	-71	197	99	4	10	-13	436	421	99	5	1	-17	621	563	99	5	3	-15	699	623	99	5	5	-12	521	541	99
4	6	16	-107	185	99	4	10	-12	408	441	99	5	1	-16	815	862	99	5	3	-14	1689	1693	99	5	5	-11	-147	72	99
4	6	17	252	255	99	4	10	-11	234	270	99	5	1	-15	581	608	99	5	3	-13	1843	1789	99	5	5	-10	2456	2500	99
4	6	18	823	860	99	4	10	-10	-295	171	99	5	1	-14	1139	1241	99	5	3	-12	1512	1606	99	5	5	-9	1442	1460	99
4	6	19	219	141	99	4	10	-9	105	129	99	5	1	-13	481	463	99	5	3	-11	1965	1977	99	5	5	-8	934	1044	99
4	6	20	726	823	99	4	10	-8	-305	29	99	5	1	-12	422	488	99	5	3	-10	1217	1062	99	5	5	-7	1465	1509	99
4	6	21	86	84	99	4	10	-7	273	372	99	5	1	-11	113	245	99	5	3	-9	714	690	99	5	5	-6	501	670	99
4	6	22	258	459	99	4	10	-6	179	66	99	5	1	-10	2645	2621	99	5	3	-8	2049	2305	99	5	5	-5	723	626	99
4	6	23	-196	54	99	4	10	-5	708	725	99	5	1	-9	964	979	99	5	3	-7	367	413	99	5	5	-4	459	241	99
4	8	-21	157	118	99	4	10	-4	526	401	99	5	1	-8	3264	3227	99	5	3	-6	2461	2588	99	5	5	-3	1125	1177	99
4	8	-20	308	224	99	4	10	-3	565	582	99	5	1	-7	1562	1620	99	5	3	-5	1421	1458	99	5	5	-2	2952	2742	99
4	8	-19	-250	199	99	4	10	-2	681	608	99	5	1	-6	2470	2345	99	5	3	-4	1808	1920	99	5	5	-1	2860	2841	99
4	8	-18	249	16	99	4	10	-1	-288	152	99	5	1	-5	679	594	99	5	3	-3	2615	2600	99	5	5	0	1987	1867	99
4	8	-17	510	540	99	4	10	0	-200	242	99	5	1	-4	905	847	99	5	3	-2	1723	1792	99	5	5	1	2022	1931	99
4	8	-16	167	158	99	4	10	1	621	582	99	5	1	-3	618	604	99	5	3	-1	2505	2366	99	5	5	2	1391	1375	99
4	8	-15	748	740	99	4	10	2	399	397	99	5	1	-2	313	358	99	5	3	0	2941	2796	99	5	5	3	476	526	99
4	8	-14	218	106	99	4	10	3	1068	910	99	5	1	0	2213	2099	99	5	3	1	1761	1588	99	5	5	4	1728	1745	99
4	8	-13	378	201	99	4	10	4	791	767	99	5	1	1	362	366	99	5	3	2	2397	2317	99	5	5	5	953	925	99
4	8	-12	259	57	99	4	10	5	647	590	99	5	1	2	5089	4721	99	5	3	3	629	749	99	5	5	6	664	667	99
4	8	-11	225	47	99	4	10	6	408	427	99	5	1	3	3480	3342	99	5	3	4	-152	66	99	5	5	7	574	611	99
4	8	-10	213	22	99	4	10	7	156	294	99	5	1	4	1393	1424	99	5	3	5	2963	3017	99	5	5	8	1760	1895	99
4	8	-9	-77	22	99	4	10	8	-314	42	99	5	1	5	4135	4091	99	5	3	6	2297	2423	99	5	5	9	386	393	99
4	8	-8	406	440	99	4	10	9	186	196	99	5	1	6	566	550	99	5	3	7	3650	3726	99	5	5	10	1511	1571	99
4	8	-7	304	232	99	4	10	10	472	330	99	5	1	7	3360	3488	99	5	3	8	2556	2574	99	5	5	11	596	612	99
4	8	-6	-190	30	99	4	10	11	278	134	99	5	1	8	2620	2599	99	5	3	9	1979	1975	99	5	5	12	1356	1383	99
4	8	-5	-173	51	99	4	10	12	784	606	99	5	1	9	765	807	99	5	3	10	1859	1921	99	5	5	13	974	981	99
4	8	-4	500	494	99	4	10	13	262	24	99	5	1	10	1416	1401	99	5	3	11	648	682	99	5	5	14	886	832	99
4	8	-3	264	213	99	4	10	14	186	357	99	5	1	11	1156	1205	99	5	3	12	491	502	99	5	5	15	-201	206	99
4	8	-2	513	491	99	4	10	15	-216	116	99	5	1	12	465	499	99	5	3	13	149	211	99	5	5	16	794	824	99
4	8	-1	554	552	99	4	12	-8	503	378	99	5	1	13	1540	1522	99	5	3	14	286	337	99	5	5	17	740	712	99
4	8	0	-281	67	99	4	12	-7	-192	74	99	5	1	14	337	339	99	5	3	15	-135	203	99	5	5	18	-86	10	99
4	8	1	966	1009	99	4	12	-6	277	312	99	5	1	15	1197	1265	99	5	3	16	644	598	99	5	5	19	728	697	99
4	8	2	195	174	99	4	12	-5	-233	87	99	5	1	16	420	372	99	5	3	17	589	646	99	5	5	20	328	386	99
4	8	3	460	425	99	4	12	-4	-156	12	99	5	1	17	216	82	99	5	3	18	444	309	99	5	5	21	209	191	99
4	8	4	354	323	99	4	12	-3	202	122	99	5	1	18	640	650	99	5	3	19	-389	87	99	5	5	22	333	300	99
4	8	5	988	994	99	4	12	-2	-427	158	99	5	1	19	793	749	99	5	3	20	925	902	99	5	5	23	-133	62	99
4	8	6	789	815	99	4	12	-1	-409	139	99	5	1	20	119	221	99	5	3	21	199	188	99	5	5	24	200	404	99
4	8	7	1495	1464	99	4	12	0	177	348	99	5	1	21	-207	25	99	5	3	22	60	255	99	5	7	-23	275	193	99
4	8	8	411	400	99	4	12	1	-202	158	99	5	1	22	265	82	99	5	3	23	213	11	99	5	7	-22	-47	245	99
4	8	9	795	738	99	4	12	2	498	453	99	5	1	23	101	205	99	5	3	24	-305	43	99	5	7	-21	-440	298	99
4	8	10	47	122	99	4	12	3	190	52	99	5	1	24	140	210	99	5	3	25	-258	124	99	5	7	-20	720	701	99
4	8	11	712	724	99	4	12	4	-77	135	99	5	1	25	-64	164	99	5	5	-26	265	29	99	5	7	-19	334	235	99
4	8	12	666	615	99	4	12	5	-423	182	99	5	1	26	171	96	99	5	5	-25	-229	34	99	5	7	-18	658	706	99
4	8	13	249	210	99	4	12	6	-271	5	99	5	3	-27	428	395	99	5	5	-24	297	185	99	5	7	-17	177	350	99
4	8	14	256	457	99	5	1	-28	180	45	99	5	3	-26	101	199	99	5	5	-23	173	97	99	5	7	-16	520	453	99
4	8	15	618	713	99	5	1	-27	141	317	99	5	3	-25	412	492	99	5	5	-22	-144	38	99	5	7	-15	637	661	99
4	8	16	166	157	99	5	1	-26	395	360	99	5	3	-24	-254	82	99	5	5	-21	-241	221	99	5	7	-14	216	322	99
5	7	-13	182	369	99	5	9	1	403	334	99	6	0	2	6061	6220	99	6	2	14	182	149	99	6	4	16	278	13	99
5	7	-12	875	868	99	5	9	2	922	787	99	6	0	4	272	348	99	6	2	15	1647	1723	99	6	4	17	501	473	99
5	7	-11	171	172	99	5	9	3	390	423	99	6	0	6	2360	2423	99	6	2	16	423	384	99	6	4	18	-178	292	99
5	7	-10	843	916	99	5	9	4	-438	101	99	6	0	8	1694	1639	99	6	2	17	1203	1182	99	6	4	19	816	888	99
5	7	-9	875	882	99	5	9	5	223	167	99	6	0	10	4211	4173	99	6	2	18	663	616	99	6	4	20	266	266	99
5	7	-8	236	27	99	5	9	6	189	69	99	6	0	12	2537	2559	99	6	2	19	22	70	99	6	4	21	480	418	99
5	7	-7	821	828	99	5	9	7	736	689	99	6	0	14	1011	940	99	6	2	20	-274	22	99	6	4	22	161	-99	99
5	7	-6	873	853	99	5	9	8	-99	20	99	6	0	16	459	382	99	6	2	21	437	324	99	6	4	23	250	208	99
5	7	-5	1044	939	99	5	9	9	507	448	99	6	0	18	1320	1215	99	6	2	22	-260	8	99	6	4	24	182	42	99
5	7	-4	847	806	99	5	9	10	180	180	99	6	0	20	895	847	99	6	2	23	353	382	99	6	6	-25	226	294	99
5	7	-3	752	706	99	5	9	11	386	290	99	6	0	22	732	691	99	6	2	24	-184	169	99	6	6	-24	-156	52	99
5	7	-2	588	504	99	5	9	12	-320	316	99	6	0	24	270	427	99	6	2	25	185	225	99	6	6	-23	181	166	99
5	7	-1	213	185	99	5	9	13	170	269	99	6	0	26	-48	84	99	6	4	-27	76	15	99	6	6	-22	294	228	99
5	7	0	572	531	99	5	9	14	223	123	99	6	2	-28	-70	194	99	6	4	-26	247	226	99	6	6	-21	275	271	99
5	7	1	-140	86	99	5	9	15	201	230	99	6	2	-27	547	573	99	6	4	-25	-196	92	99	6	6	-20	211	160	99
5	7	2	497	409	99	5	9	16	264	195	99	6	2	-26	144	232	99	6	4	-24	251	109	99	6	6	-19	123	154	99
5	7	3	476	411	99	5	9	17	-282	262	99	6	2	-25	755	800	99	6	4	-23	-187	184	99	6	6	-18	847	927	99
5	7	4	818	825	99	5	11	-13	-149	41	99	6	2	-24	-31	57	99	6	4	-22	229	163	99	6	6	-17	229	120	99
5	7	5	722	814	99	5	11	-12	439	506	99	6	2	-23	844	770	99	6	4	-21	388	364	99	6	6	-16	704	733	99
5	7	6	2125	2076	99	5	11	-11	256	296	99	6	2	-22	257	141	99	6	4	-20	-152	101	99	6	6	-15	534	488	99
5	7	7	908	921	99	5	11	-10	481	567	99	6	2	-21	70	68	99	6	4	-19	591	670	99	6	6	-14	496	491	99
5	7	8	450	464	99	5	11	-9	256	191	99	6	2	-20	456	458	99	6	4	-18	-265	53	99	6	6	-13	1251	1252	99
5	7	9	348	276	99	5	11	-8	-545	255	99	6	2	-19	1468	1467	99	6	4	-17	1253	1249	99	6	6	-12	1076	1165	99
5	7	10	-396	124	99	5	11	-7	-199	139	99	6	2	-18	1730	1755	99	6	4	-16	383	263	99	6	6	-11	1022	1007	99
5	7	11	136	188	99	5	11	-6	212	50	99	6	2	-17	1575	1487	99	6	4	-15	1917	1918	99	6	6	-10	2032	2023	99
5	7	12	480	470	99	5	11	-5	-54	110	99	6	2	-16	1470	1366	99	6	4	-14	170	17	99	6	6	-9	523	532	99
5	7	13	-164	210	99	5	11	-4	-31	5	99	6	2	-15	283	56	99	6	4	-13	1906	1956	99	6	6	-8	1894	1886	99
5	7	14	1177	1111	99	5	11	-3	483	449	99	6	2	-14	357	362	99	6	4	-12	24	151	99	6	6	-7	739	762	99
5	7	15	412	428	99	5	11	-2	166	199	99	6	2	-13	1062	1087	99	6	4	-11	2374	2270	99	6	6	-6	571	511	99
5	7	16	514	513	99	5	11	-1	-325	165	99	6	2	-12	131	144	99	6	4	-10	195	122	99	6	6	-5	953	943	99
5	7	17	700	732	99	5	11	0	449	440	99	6	2	-11	545	595	99	6	4	-9	241	217	99	6	6	-4	1291	1319	99
5	7	18	107	68	99	5	11	1	176	75	99	6	2	-10	2490	2532	99	6	4	-8	369	421	99	6	6	-3	451	486	99
5	7	19	363	418	99	5	11	2	544	541	99	6	2	-9	721	527	99	6	4	-7	1833	1781	99	6	6	-2	2975	2881	99
5	7	20	126	269	99	5	11	3	273	384	99	6	2	-8	2939	2921	99	6	4	-6	727	717	99	6	6	-1	-82	28	99
5	7	21	177	15	99	5	11	4	-384	392	99	6	2	-7	2421	2497	99	6	4	-5	2279	2162	99	6	6	0	2279	2257	99
5	9	-19	160	22	99	5	11	5	512	452	99	6	2	-6	2989	2932	99	6	4	-4	1304	1356	99	6	6	1	322	352	99
5	9	-18	584	443	99	5	11	6	-156	235	99	6	2	-5	3864	3768	99	6	4	-3	2727	2655	99	6	6	2	926	978	99
5	9	-17	254	275	99	5	11	7	105	260	99	6	2	-4	4388	4075	99	6	4	-2	1930	1853	99	6	6	3	516	468	99
5	9	-16	241	384	99	5	11	8	237	116	99	6	2	-3	466	484	99	6	4	-1	188	312	99	6	6	4	375	317	99
5	9	-15	824	748	99	5	11	9	358	132	99	6	2	-2	1324	1213	99	6	4	0	1532	1471	99	6	6	5	1291	1263	99
5	9	-14	279	68	99	5	11	10	359	413	99	6	2	-1	4077	3890	99	6	4	1	1907	2020	99	6	6	6	209	125	99
5	9	-13	1090	941	99	5	11	11	137	102	99	6	2	0	1075	1095	99	6	4	2	1664	1886	99	6	6	7	1618	1664	99
5	9	-12	394	291	99	6	0	-28	93	225	99	6	2	1	4285	4066	99	6	4	3	259	222	99	6	6	8	1733	1745	99
5	9	-11	712	746	99	6	0	-26	184	129	99	6	2	2	2942	2726	99	6	4	4	2059	2258	99	6	6	9	1225	1221	99
5	9	-10	403	376	99	6	0	-24	223	422	99	6	2	3	1088	993	99	6	4	5	1017	1045	99	6	6	10	923	907	99
5	9	-9	258	238	99	6	0	-22	713	792	99	6	2	4	932	1000	99	6	4	6	1307	1348	99	6	6	11	285	283	99
5	9	-8	550	483	99	6	0	-20	1480	1414	99	6	2	5	3548	3574	99	6	4	7	1430	1488	99	6	6	12	184	296	99
5	9	-7	906	881	99	6	0	-18	290	280	99	6	2	6	1380	1451	99	6	4	8	315	206	99	6	6	13	911	917	99
5	9	-6	361	344	99	6	0	-16	1260	1301	99	6	2	7	5495	5648	99	6	4	9	508	506	99	6	6	14	731	768	99
5	9	-5	705	665	99	6	0	-14	407	504	99	6	2	8	313	303	99	6	4	10	1255	1315	99	6	6	15	447	417	99
5	9	-4	258	160	99	6	0	-12	2417	2494	99	6	2	9	4626	4696	99	6	4	11	101	248	99	6	6	16	733	810	99
5	9	-3	616	638	99	6	0	-10	4472	4380	99	6	2	10	1242	1169	99	6	4	12	1141	1162	99	6	6	17	395	321	99
5	9	-2	273	314	99	6	0	-8	1971	2053	99	6	2	11	827	783	99	6	4	13	383	377	99	6	6	18	-187	232	99
5	9	-1	515	428	99	6	0	-6	2068	2243	99	6	2	12	453	441	99	6	4	14	-399	36	99	6	6	19	-248	70	99
5	9	0	429	427	99	6	0	-4	4112	4099	99	6	2	13	1465	1448	99	6	4	15	182	27	99	6	6	20	284	190	99

h	k	l	Fo	Fc	sigF2
6	6	21	-349	382	99
6	6	22	309	362	99
6	8	-22	-94	74	99
6	8	-21	562	579	99
6	8	-20	361	441	99
6	8	-19	548	564	99
6	8	-18	211	97	99
6	8	-17	171	3	99
6	8	-16	158	147	99
6	8	-15	870	849	99
6	8	-14	-228	4	99
6	8	-13	1119	1137	99
6	8	-12	336	174	99
6	8	-11	985	960	99
6	8	-10	-156	362	99
6	8	-9	222	189	99
6	8	-8	-278	15	99
6	8	-7	1211	1178	99
6	8	-6	-218	223	99
6	8	-5	1943	1875	99
6	8	-4	160	214	99
6	8	-3	1194	1206	99
6	8	-2	232	208	99
6	8	-1	405	391	99
6	8	0	120	60	99
6	8	1	-311	218	99
6	8	2	814	705	99
6	8	3	582	545	99
6	8	4	147	75	99
6	8	5	486	409	99
6	8	6	-292	153	99
6	8	7	415	355	99
6	8	8	180	90	99
6	8	9	-387	111	99
6	8	10	325	394	99
6	8	11	-254	63	99
6	8	12	331	361	99
6	8	13	263	458	99
6	8	14	469	431	99
6	8	15	318	423	99
6	8	16	-295	185	99
6	8	17	145	168	99
6	8	18	205	93	99
6	8	19	257	219	99
6	10	-17	-236	138	99
6	10	-16	514	581	99
6	10	-15	402	268	99
6	10	-14	86	365	99
6	10	-13	-171	265	99
6	10	-12	160	176	99
6	10	-11	137	215	99
6	10	-10	498	498	99
6	10	-9	309	316	99
6	10	-8	709	728	99
6	10	-7	615	632	99
6	10	-6	382	348	99
6	10	-5	593	528	99
6	10	-4	374	293	99
6	10	-3	652	654	99
6	10	-2	411	310	99
6	10	-1	69	353	99
6	10	0	428	333	99
6	10	1	-105	83	99
6	10	2	446	371	99
6	10	3	634	601	99
6	10	4	-397	82	99
6	10	5	-227	443	99
6	10	6	252	10	99
6	10	7	213	175	99
6	10	8	167	113	99
6	10	9	232	54	99
6	10	10	214	101	99
6	10	11	-223	99	99
6	10	12	215	277	99
6	10	13	313	213	99
6	10	14	267	5	99
6	10	15	63	196	99
6	12	-8	-266	118	99
6	12	-7	-247	422	99
6	12	-6	-346	39	99
6	12	-5	204	324	99
6	12	-4	-275	239	99
6	12	-3	-143	77	99
6	12	-2	157	82	99
6	12	-1	-413	105	99
6	12	0	-123	190	99
6	12	1	99	231	99
6	12	2	435	563	99
6	12	3	203	258	99
6	12	4	564	491	99
6	12	5	222	91	99
7	1	-28	138	369	99
7	1	-27	147	52	99
7	1	-26	535	561	99
7	1	-25	428	428	99
7	1	-24	194	24	99
7	1	-23	510	490	99
7	1	-22	73	261	99
7	1	-21	202	342	99
7	1	-20	1123	1331	99
7	1	-19	669	746	99
7	1	-18	1812	1801	99
7	1	-17	2010	2052	99
7	1	-16	1236	1234	99
7	1	-15	1239	1215	99
7	1	-14	687	708	99
7	1	-13	606	678	99
7	1	-12	1460	1453	99
7	1	-11	901	937	99
7	1	-10	2476	2320	99
7	1	-9	3422	3310	99
7	1	-8	3376	3148	99
7	1	-7	2063	1842	99
7	1	-6	529	484	99
7	1	-5	467	382	99
7	1	-4	4009	3638	99
7	1	-3	2690	2345	99
7	1	-2	709	622	99
7	1	-1	2663	2374	99
7	1	0	848	653	99
7	1	1	1128	1023	99
7	1	2	3703	3296	99
7	1	3	165	120	99
7	1	4	668	702	99
7	1	5	396	396	99
7	1	6	1199	1251	99
7	1	7	594	589	99
7	1	8	2170	2048	99
7	1	9	2711	2690	99
7	1	10	448	558	99
7	1	11	1604	1585	99
7	1	12	1354	1339	99
7	1	13	763	732	99
7	1	14	881	899	99
7	1	15	1446	1405	99
7	1	16	1330	1168	99
7	1	17	1549	1542	99
7	1	18	363	374	99
7	1	19	1193	1165	99
7	1	20	915	887	99
7	1	21	209	27	99
7	1	22	536	582	99
7	1	23	415	315	99
7	1	24	255	356	99
7	1	25	461	474	99
7	3	-28	327	261	99
7	3	-27	216	230	99
7	3	-26	511	474	99
7	3	-25	661	728	99
7	3	-24	613	640	99
7	3	-23	789	793	99
7	3	-22	297	59	99
7	3	-21	525	571	99
7	3	-20	645	529	99
7	3	-19	189	100	99
7	3	-18	909	800	99
7	3	-17	1188	1205	99
7	3	-16	249	264	99
7	3	-15	2165	2172	99
7	3	-14	-224	90	99
7	3	-13	868	910	99
7	3	-12	1193	1126	99
7	3	-11	913	959	99
7	3	-10	1547	1352	99
7	3	-9	1871	1879	99
7	3	-8	1937	2096	99
7	3	-7	2247	2151	99
7	3	-6	3846	3844	99
7	3	-5	2530	2367	99
7	3	-4	2559	2530	99
7	3	-3	977	999	99
7	3	-2	1146	1155	99
7	3	-1	3587	3570	99
7	3	0	2135	2048	99
7	3	1	1646	1849	99
7	3	2	528	416	99
7	3	3	485	551	99
7	3	4	1442	1438	99
7	3	5	306	330	99
7	3	6	949	1002	99
7	3	7	2151	2095	99
7	3	8	3309	3363	99
7	3	9	2335	2321	99
7	3	10	1626	1654	99
7	3	11	333	360	99
7	3	12	576	619	99
7	3	13	170	63	99
7	3	14	1353	1307	99
7	3	15	626	541	99
7	3	16	605	562	99
7	3	17	1056	990	99
7	3	18	-341	355	99
7	3	19	1126	1106	99
7	3	20	-97	101	99
7	3	21	255	237	99
7	3	22	337	362	99
7	3	23	211	9	99
7	3	24	-315	233	99
7	3	25	-125	25	99
7	5	-26	-142	159	99
7	5	-25	-226	66	99
7	5	-24	166	58	99
7	5	-23	615	553	99
7	5	-22	-325	46	99
7	5	-21	209	187	99
7	5	-20	-20	32	99
7	5	-19	470	471	99
7	5	-18	447	503	99
7	5	-17	915	885	99
7	5	-16	452	430	99
7	5	-15	388	425	99
7	5	-14	103	287	99
7	5	-13	190	175	99
7	5	-12	513	443	99
7	5	-11	457	558	99
7	5	-10	609	548	99
7	5	-9	1354	1294	99
7	5	-8	2254	2238	99
7	5	-7	551	571	99
7	5	-6	617	461	99
7	5	-5	2815	2844	99
7	5	-4	1511	1642	99
7	5	-3	3026	3117	99
7	5	-2	1808	1864	99
7	5	-1	2411	2357	99
7	5	0	3297	3411	99
7	5	1	835	877	99
7	5	2	2521	2524	99
7	5	3	2768	2766	99
7	5	4	1493	1516	99
7	5	5	1746	1786	99
7	5	6	1127	1111	99
7	5	7	675	604	99
7	5	8	1087	1139	99
7	5	9	711	700	99
7	5	10	1316	1334	99
7	5	11	1702	1727	99
7	5	12	150	312	99
7	5	13	1037	1030	99
7	5	14	621	670	99
7	5	15	465	498	99
7	5	16	480	494	99
7	5	17	-190	182	99
7	5	18	293	301	99
7	5	19	122	48	99
7	5	20	81	189	99
7	5	21	-346	149	99
7	5	22	214	251	99
7	5	23	228	221	99
7	7	-24	301	193	99
7	7	-23	-269	25	99
7	7	-22	191	69	99
7	7	-21	112	158	99
7	7	-20	-177	12	99
7	7	-19	121	92	99
7	7	-18	160	19	99
7	7	-17	359	227	99
7	7	-16	120	158	99
7	7	-15	356	243	99
7	7	-14	267	400	99
7	7	-13	-235	90	99
7	7	-12	618	578	99
7	7	-11	475	440	99
7	7	-10	438	363	99
7	7	-9	783	752	99
7	7	-8	1396	1407	99
7	7	-7	-194	40	99
7	7	-6	1949	1801	99
7	7	-5	655	680	99
7	7	-4	1621	1539	99
7	7	-3	1013	978	99
7	7	-2	-166	43	99
7	7	-1	647	651	99
7	7	0	1472	1431	99
7	7	1	-137	66	99
7	7	2	2439	2411	99
7	7	3	227	320	99
7	7	4	731	759	99
7	7	5	1448	1276	99
7	7	6	344	225	99
7	7	7	1842	1784	99
7	7	8	708	693	99
7	7	9	474	460	99
7	7	10	1296	1266	99
7	7	11	546	553	99
7	7	12	657	632	99
7	7	13	205	260	99
7	7	14	238	172	99
7	7	15	-82	229	99
7	7	16	226	136	99
7	7	17	-312	175	99
7	7	18	232	94	99
7	7	19	94	6	99
7	7	20	-98	117	99
7	7	21	-271	33	99
7	9	-20	-136	124	99
7	9	-19	64	248	99
7	9	-18	-320	185	99
7	9	-17	278	143	99
7	9	-16	502	446	99
7	9	-15	156	45	99
7	9	-14	789	755	99
7	9	-13	764	698	99
7	9	-12	435	388	99
7	9	-11	1000	1016	99
7	9	-10	-467	5	99
7	9	-9	243	327	99
7	9	-8	280	494	99
7	9	-7	484	501	99
7	9	-6	1026	1063	99
7	9	-5	1065	1078	99
7	9	-4	246	525	99
7	9	-3	1722	1758	99
7	9	-2	282	285	99
7	9	-1	1373	1321	99
7	9	0	395	323	99
7	9	1	-376	192	99
7	9	2	282	294	99
7	9	3	1106	979	99
7	9	4	705	627	99
7	9	5	1240	1148	99
7	9	6	-373	52	99
7	9	7	695	722	99
7	9	8	476	372	99
7	9	9	566	505	99
7	9	10	-540	53	99
7	9	11	264	185	99
7	9	12	567	486	99
7	9	13	-150	122	99
7	9	14	276	370	99
7	9	15	164	151	99
7	9	16	52	127	99
7	9	17	-71	111	99
7	11	-14	130	72	99
7	11	-13	-163	60	99
7	11	-12	-196	115	99
7	11	-11	256	189	99
7	11	-10	464	448	99
7	11	-9	236	290	99
7	11	-8	189	469	99
7	11	-7	471	411	99
7	11	-6	219	352	99
7	11	-5	-141	68	99
7	11	-4	387	396	99
7	11	-3	-115	149	99
7	11	-2	175	40	99
7	11	-1	-215	59	99
7	11	0	544	557	99
7	11	1	-194	21	99
7	11	2	756	754	99
7	11	3	137	16	99
7	11	4	590	546	99
7	11	5	324	220	99
7	11	6	230	10	99
7	11	7	152	46	99
7	11	8	287	355	99
7	11	9	-130	239	99
7	11	10	481	584	99
7	11	11	148	441	99
8	0	-28	229	340	99
8	0	-26	-283	195	99
8	0	-24	-202	246	99
8	0	-22	62	92	99
8	0	-20	1078	1075	99
8	0	-18	2303	2349	99
8	0	-16	2655	2647	99
8	0	-14	1966	1840	99
8	0	-12	91	88	99
8	0	-10	6303	6204	99
8	0	-8	7311	7213	99
8	0	-6	1888	2082	99
8	0	-4	196	279	99
8	0	0	1807	2531	99
8	0	2	357	505	99
8	0	4	526	557	99
8	0	6	2783	2861	99
8	0	8	116	18	99
8	0	10	928	899	99
8	0	12	1258	1304	99
8	0	14	744	750	99
8	0	16	374	257	99
8	0	18	1569	1519	99
8	0	20	208	339	99
8	0	22	878	873	99
8	0	24	839	876	99
8	2	-28	319	369	99
8	2	-27	165	181	99
8	2	-26	204	200	99
8	2	-25	-224	251	99
8	2	-24	246	254	99
8	2	-23	749	786	99
8	2	-22	529	565	99
8	2	-21	899	854	99
8	2	-20	714	681	99
8	2	-19	694	588	99
8	2	-18	817	791	99
8	2	-17	75	266	99
8	2	-16	1348	1443	99
8	2	-15	1373	1452	99
8	2	-14	563	621	99
8	2	-13	2194	2188	99
8	2	-12	-94	143	99
8	2	-11	2677	2471	99
8	2	-10	1231	1302	99
8	2	-9	517	637	99
8	2	-8	2922	2696	99
8	2	-7	4495	4597	99
8	2	-6	2437	2292	99
8	2	-5	4510	4421	99
8	2	-4	977	891	99
8	2	-3	4434	4476	99
8	2	-2	2220	2279	99
8	2	-1	1407	1450	99
8	2	0	1736	1532	99
8	2	1	3267	3118	99
8	2	2	1225	1244	99
8	2	3	118	60	99
8	2	4	984	919	99
8	2	5	130	250	99
8	2	6	1869	1736	99
8	2	7	1501	1544	99
8	2	8	117	108	99
8	2	9	668	657	99
8	2	10	567	540	99
8	2	11	1001	1105	99
8	2	12	166	200	99
8	2	13	77	64	99
8	2	14	-121	249	99
8	2	15	375	405	99
8	2	16	80	220	99
8	2	17	-288	224	99
8	2	18	486	446	99
8	2	19	1085	1047	99
8	2	20	-364	229	99
8	2	21	611	619	99
8	2	22	-80	105	99
8	2	23	-101	159	99
8	2	24	-247	44	99
8	2	25	143	60	99
8	4	-27	66	310	99
8	4	-26	260	325	99
8	4	-25	614	581	99
8	4	-24	640	619	99
8	4	-23	-248	318	99
8	4	-22	197	274	99
8	4	-21	252	213	99
8	4	-20	472	466	99
8	4	-19	269	149	99
8	4	-18	1089	1081	99
8	4	-17	180	42	99
8	4	-16	1934	1965	99
8	4	-15	1212	1192	99
8	4	-14	1424	1377	99
8	4	-13	652	686	99
8	4	-12	167	212	99
8	4	-11	837	785	99
8	4	-10	2619	2570	99
8	4	-9	1958	2051	99
8	4	-8	3003	2835	99
8	4	-7	684	729	99
8	4	-6	235	160	99
8	4	-5	2758	2789	99
8	4	-4	1343	1226	99
8	4	-3	1064	1149	99
8	4	-2	2680	2564	99
8	4	-1	2643	2732	99
8	4	0	1112	1130	99
8	4	1	2048	2127	99
8	4	2	448	422	99
8	4	3	957	902	99
8	4	4	1208	1245	99
8	4	5	776	840	99
8	4	6	197	77	99
8	4	7	2149	2183	99
8	4	8	1038	1010	99
8	4	9	1353	1446	99
8	4	10	392	318	99
8	4	11	441	359	99
8	4	12	305	429	99
8	4	13	896	891	99
8	4	14	656	621	99
8	4	15	1201	1192	99
8	4	16	889	934	99
8	4	17	923	929	99
8	4	18	1320	1347	99
8	4	19	291	232	99
8	4	20	589	585	99
8	4	21	-239	56	99
8	4	22	174	79	99
8	4	23	290	99	99
8	4	24	269	222	99
8	6	-25	172	146	99
8	6	-24	465	391	99
8	6	-23	-448	51	99
8	6	-22	596	546	99
8	6	-21	-96	70	99
8	6	-20	344	162	99
8	6	-19	-386	165	99
8	6	-18	150	53	99
8	6	-17	-305	174	99
8	6	-16	137	79	99
8	6	-15	257	251	99
8	6	-14	974	892	99
8	6	-13	-237	96	99
8	6	-12	704	675	99
8	6	-11	641	689	99
8	6	-10	458	397	99
8	6	-9	531	508	99
8	6	-8	1124	1189	99
8	6	-7	640	630	99
8	6	-6	1350	1284	99
8	6	-5	554	519	99
8	6	-4	315	243	99
8	6	-3	201	173	99
8	6	-2	147	77	99
8	6	-1	175	171	99
8	6	0	944	981	99
8	6	1	-214	224	99
8	6	2	2529	2537	99
8	6	3	1026	959	99
8	6	4	2833	2785	99
8	6	5	482	428	99
8	6	6	1673	1676	99
8	6	7	536	509	99
8	6	8	545	525	99
8	6	9	434	433	99
8	6	10	1800	1807	99
8	6	11	721	726	99
8	6	12	1583	1562	99
8	6	13	220	245	99
8	6	14	656	613	99
8	6	15	233	81	99
8	6	16	180	32	99
8	6	17	176	52	99
8	6	18	490	484	99
8	6	19	181	68	99
8	6	20	444	440	99
8	6	21	237	44	99
8	6	22	209	82	99
8	8	-22	-321	131	99
8	8	-21	132	33	99
8	8	-20	134	116	99
8	8	-19	-204	16	99
8	8	-18	-167	15	99
8	8	-17	315	266	99
8	8	-16	185	161	99
8	8	-15	594	544	99
8	8	-14	287	164	99
8	8	-13	467	379	99
8	8	-12	258	66	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
8	8	-11	157	332	99	8	10	7	42	76	99	9	1	5	4373	4426	99	9	3	6	1561	1590	99	9	5	10	1084	1125	99
8	8	-10	-114	106	99	8	10	8	-269	196	99	9	1	6	2203	2187	99	9	3	7	2736	2808	99	9	5	11	852	727	99
8	8	-9	578	659	99	8	10	9	245	240	99	9	1	7	1509	1567	99	9	3	8	1025	1015	99	9	5	12	936	979	99
8	8	-8	219	259	99	8	10	10	720	611	99	9	1	8	1158	1041	99	9	3	9	2900	2863	99	9	5	13	-142	79	99
8	8	-7	577	502	99	8	10	11	364	327	99	9	1	9	359	303	99	9	3	10	729	722	99	9	5	14	617	633	99
8	8	-6	351	358	99	8	10	12	669	605	99	9	1	10	813	702	99	9	3	11	1037	1042	99	9	5	15	383	293	99
8	8	-5	270	284	99	8	10	13	186	127	99	9	1	11	400	325	99	9	3	12	868	870	99	9	5	16	196	147	99
8	8	-4	668	712	99	8	10	14	44	133	99	9	1	12	551	521	99	9	3	13	235	28	99	9	5	17	796	854	99
8	8	-3	765	778	99	8	12	-8	-195	343	99	9	1	13	688	661	99	9	3	14	456	366	99	9	5	18	-20	116	99
8	8	-2	469	478	99	8	12	-7	-117	52	99	9	1	14	-231	66	99	9	3	15	-63	128	99	9	5	19	586	564	99
8	8	-1	1142	1100	99	8	12	-6	153	242	99	9	1	15	528	633	99	9	3	16	552	510	99	9	5	20	12	222	99
8	8	0	100	21	99	8	12	-5	-323	116	99	9	1	16	667	618	99	9	3	17	270	167	99	9	5	21	-189	28	99
8	8	1	1287	1267	99	8	12	-4	-329	15	99	9	1	17	1110	1018	99	9	3	18	774	736	99	9	5	22	-32	224	99
8	8	2	838	776	99	8	12	-3	265	76	99	9	1	18	-211	387	99	9	3	19	100	75	99	9	5	23	325	240	99
8	8	3	432	370	99	8	12	-2	210	21	99	9	1	19	541	455	99	9	3	20	701	786	99	9	7	-24	-133	10	99
8	8	4	1242	1240	99	8	12	-1	-322	47	99	9	1	20	296	264	99	9	3	21	-203	199	99	9	7	-23	-261	197	99
8	8	5	925	914	99	8	12	0	-59	219	99	9	1	21	180	90	99	9	3	22	267	242	99	9	7	-22	677	587	99
8	8	6	689	658	99	8	12	1	-242	52	99	9	1	22	194	242	99	9	3	23	231	208	99	9	7	-21	233	235	99
8	8	7	1663	1578	99	8	12	2	238	342	99	9	1	23	-121	69	99	9	3	24	160	70	99	9	7	-20	738	675	99
8	8	8	478	461	99	8	12	3	236	24	99	9	1	24	235	479	99	9	5	-26	-317	157	99	9	7	-19	-272	118	99
8	8	9	1390	1394	99	8	12	4	226	225	99	9	1	25	323	11	99	9	5	-25	122	168	99	9	7	-18	590	524	99
8	8	10	343	297	99	8	12	5	-327	242	99	9	3	-28	-287	192	99	9	5	-24	-180	49	99	9	7	-17	278	226	99
8	8	11	-308	423	99	9	1	-28	-310	184	99	9	3	-27	-496	287	99	9	5	-23	466	356	99	9	7	-16	206	258	99
8	8	12	803	684	99	9	1	-27	196	19	99	9	3	-26	259	241	99	9	5	-22	115	75	99	9	7	-15	463	468	99
8	8	13	482	430	99	9	1	-26	-150	16	99	9	3	-25	617	506	99	9	5	-21	200	119	99	9	7	-14	321	306	99
8	8	14	204	153	99	9	1	-25	235	280	99	9	3	-24	424	320	99	9	5	-20	-110	268	99	9	7	-13	165	174	99
8	8	15	317	347	99	9	1	-24	-195	218	99	9	3	-23	712	683	99	9	5	-19	256	313	99	9	7	-12	863	909	99
8	8	16	61	154	99	9	1	-23	208	12	99	9	3	-22	669	684	99	9	5	-18	586	582	99	9	7	-11	522	512	99
8	8	17	-367	329	99	9	1	-22	260	17	99	9	3	-21	781	717	99	9	5	-17	491	611	99	9	7	-10	236	280	99
8	8	18	218	89	99	9	1	-21	-240	66	99	9	3	-20	624	529	99	9	5	-16	803	782	99	9	7	-9	236	189	99
8	8	19	104	27	99	9	1	-20	697	683	99	9	3	-19	186	155	99	9	5	-15	1420	1281	99	9	7	-8	228	80	99
8	10	-17	91	5	99	9	1	-19	-71	26	99	9	3	-18	391	364	99	9	5	-14	424	398	99	9	7	-7	-174	45	99
8	10	-16	160	14	99	9	1	-18	602	633	99	9	3	-17	293	171	99	9	5	-13	625	653	99	9	7	-6	154	231	99
8	10	-15	-266	211	99	9	1	-17	1039	1070	99	9	3	-16	-341	24	99	9	5	-12	1830	1805	99	9	7	-5	547	473	99
8	10	-14	232	50	99	9	1	-16	2650	2603	99	9	3	-15	1250	1214	99	9	5	-11	855	928	99	9	7	-4	-223	167	99
8	10	-13	479	481	99	9	1	-15	648	616	99	9	3	-14	669	729	99	9	5	-10	1672	1636	99	9	7	-3	792	832	99
8	10	-12	-93	96	99	9	1	-14	1913	1957	99	9	3	-13	2284	2225	99	9	5	-9	809	808	99	9	7	-2	455	471	99
8	10	-11	350	354	99	9	1	-13	-65	59	99	9	3	-12	797	788	99	9	5	-8	2010	2055	99	9	7	-1	-185	117	99
8	10	-10	232	99	99	9	1	-12	693	697	99	9	3	-11	1686	1607	99	9	5	-7	116	284	99	9	7	0	531	456	99
8	10	-9	-141	59	99	9	1	-11	2256	2322	99	9	3	-10	2298	2386	99	9	5	-6	2182	2198	99	9	7	1	796	816	99
8	10	-8	187	138	99	9	1	-10	1651	1761	99	9	3	-9	1168	1009	99	9	5	-5	617	715	99	9	7	2	991	997	99
8	10	-7	362	441	99	9	1	-9	1353	1276	99	9	3	-8	4205	4272	99	9	5	-4	514	540	99	9	7	3	819	797	99
8	10	-6	251	405	99	9	1	-8	3986	3853	99	9	3	-7	247	231	99	9	5	-3	1747	1610	99	9	7	4	2451	2466	99
8	10	-5	650	610	99	9	1	-7	933	1107	99	9	3	-6	2973	3004	99	9	5	-2	2290	2159	99	9	7	5	-134	62	99
8	10	-4	677	596	99	9	1	-6	2752	2630	99	9	3	-5	2644	2542	99	9	5	-1	867	865	99	9	7	6	2282	2267	99
8	10	-3	-302	147	99	9	1	-5	2163	2073	99	9	3	-4	1162	1196	99	9	5	0	788	747	99	9	7	7	1171	1194	99
8	10	-2	603	576	99	9	1	-4	2856	2422	99	9	3	-3	3972	3941	99	9	5	1	829	803	99	9	7	8	867	806	99
8	10	-1	223	24	99	9	1	-3	4540	4304	99	9	3	-2	1713	1735	99	9	5	2	1888	1948	99	9	7	9	1004	1004	99
8	10	0	337	47	99	9	1	-2	3690	3528	99	9	3	-1	1778	1778	99	9	5	3	1091	1089	99	9	7	10	193	97	99
8	10	1	351	308	99	9	1	-1	624	478	99	9	3	0	1967	1890	99	9	5	4	1958	1986	99	9	7	11	284	192	99
8	10	2	545	440	99	9	1	0	2403	2317	99	9	3	1	2415	2106	99	9	5	5	400	373	99	9	7	12	912	1016	99
8	10	3	606	585	99	9	1	1	1212	942	99	9	3	2	2495	2230	99	9	5	6	1037	1034	99	9	7	13	212	245	99
8	10	4	871	860	99	9	1	2	2921	2897	99	9	3	3	540	656	99	9	5	7	189	340	99	9	7	14	917	930	99
8	10	5	414	361	99	9	1	3	2631	2758	99	9	3	4	260	410	99	9	5	8	416	397	99	9	7	15	369	450	99
8	10	6	475	373	99	9	1	4	283	344	99	9	3	5	3290	3378	99	9	5	9	1038	1121	99	9	7	16	273	323	99
9	7	17	-311	399	99	9	11	0	-229	143	99	10	2	-11	2056	2025	99	10	4	-8	1734	1680	99	10	6	-2	2277	2405	99
9	7	18	226	35	99	9	11	1	-393	3	99	10	2	-10	492	580	99	10	4	-7	395	445	99	10	6	-1	724	743	99
9	7	19	-405	171	99	9	11	2	102	405	99	10	2	-9	4027	4090	99	10	4	-6	2706	2588	99	10	6	0	829	825	99
9	7	20	218	231	99	9	11	3	-247	284	99	10	2	-8	1163	1180	99	10	4	-5	1870	1619	99	10	6	1	613	692	99
9	9	-20	70	119	99	9	11	4	570	512	99	10	2	-7	3658	3641	99	10	4	-4	1677	1599	99	10	6	2	217	201	99
9	9	-19	210	13	99	9	11	5	224	275	99	10	2	-6	2727	2784	99	10	4	-3	3004	2798	99	10	6	3	189	257	99
9	9	-18	369	338	99	9	11	6	261	254	99	10	2	-5	998	1079	99	10	4	-2	170	204	99	10	6	4	663	813	99
9	9	-17	426	423	99	9	11	7	-143	107	99	10	2	-4	3893	3997	99	10	4	-1	2095	2227	99	10	6	5	467	447	99
9	9	-16	-246	355	99	9	11	8	-493	62	99	10	2	-3	2441	2295	99	10	4	0	1558	1677	99	10	6	6	415	387	99
9	9	-15	789	671	99	9	11	9	-73	167	99	10	2	-2	2901	2729	99	10	4	1	1281	1238	99	10	6	7	942	976	99
9	9	-14	231	101	99	9	11	10	308	327	99	10	2	-1	4991	4630	99	10	4	2	3024	3285	99	10	6	8	379	344	99
9	9	-13	920	932	99	10	0	-28	274	203	99	10	2	0	1507	1507	99	10	4	3	744	746	99	10	6	9	366	455	99
9	9	-12	159	132	99	10	0	-26	146	122	99	10	2	1	3758	3318	99	10	4	4	2663	2801	99	10	6	10	-246	199	99
9	9	-11	597	545	99	10	0	-24	481	411	99	10	2	2	1441	1393	99	10	4	5	1267	1234	99	10	6	11	429	421	99
9	9	-10	291	12	99	10	0	-22	335	255	99	10	2	3	952	926	99	10	4	6	1377	1392	99	10	6	12	358	412	99
9	9	-9	168	32	99	10	0	-20	888	797	99	10	2	4	1494	1433	99	10	4	7	632	607	99	10	6	13	1315	1330	99
9	9	-8	-310	230	99	10	0	-18	684	740	99	10	2	5	3677	3644	99	10	4	8	619	624	99	10	6	14	840	866	99
9	9	-7	651	580	99	10	0	-16	281	226	99	10	2	6	284	233	99	10	4	9	685	707	99	10	6	15	634	597	99
9	9	-6	398	310	99	10	0	-14	1842	1812	99	10	2	7	4873	4857	99	10	4	10	357	254	99	10	6	16	637	678	99
9	9	-5	719	706	99	10	0	-12	117	132	99	10	2	8	42	81	99	10	4	11	1269	1249	99	10	6	17	227	112	99
9	9	-4	415	347	99	10	0	-10	134	9	99	10	2	9	2565	2582	99	10	4	12	569	600	99	10	6	18	253	290	99
9	9	-3	536	606	99	10	0	-8	1965	2051	99	10	2	10	264	158	99	10	4	13	722	666	99	10	6	19	88	136	99
9	9	-2	585	530	99	10	0	-6	5219	5544	99	10	2	11	541	442	99	10	4	14	261	208	99	10	6	20	194	225	99
9	9	-1	666	670	99	10	0	-4	4862	4952	99	10	2	12	794	754	99	10	4	15	209	222	99	10	6	21	327	444	99
9	9	0	629	629	99	10	0	-2	220	179	99	10	2	13	1291	1234	99	10	4	16	401	438	99	10	8	-22	122	292	99
9	9	1	737	620	99	10	0	0	1088	1181	99	10	2	14	712	677	99	10	4	17	454	396	99	10	8	-21	661	683	99
9	9	2	882	780	99	10	0	2	5852	6636	99	10	2	15	1751	1757	99	10	4	18	-157	266	99	10	8	-20	516	432	99
9	9	3	648	580	99	10	0	4	2559	2723	99	10	2	16	906	903	99	10	4	19	836	849	99	10	8	-19	277	408	99
9	9	4	261	142	99	10	0	6	769	760	99	10	2	17	425	390	99	10	4	20	-314	65	99	10	8	-18	172	201	99
9	9	5	216	100	99	10	0	8	2118	2111	99	10	2	18	729	739	99	10	4	21	401	507	99	10	8	-17	289	114	99
9	9	6	437	428	99	10	0	10	2247	2279	99	10	2	19	565	584	99	10	4	22	168	75	99	10	8	-16	-91	64	99
9	9	7	543	559	99	10	0	12	1719	1674	99	10	2	20	62	4	99	10	4	23	116	13	99	10	8	-15	1255	1248	99
9	9	8	-206	187	99	10	0	14	1042	989	99	10	2	21	-158	98	99	10	6	-25	240	97	99	10	8	-14	130	85	99
9	9	9	538	620	99	10	0	16	967	942	99	10	2	22	203	244	99	10	6	-24	-176	235	99	10	8	-13	1485	1475	99
9	9	10	95	69	99	10	0	18	1018	976	99	10	2	23	-218	23	99	10	6	-23	284	321	99	10	8	-12	272	354	99
9	9	11	784	756	99	10	0	20	-28	31	99	10	2	24	-267	222	99	10	6	-22	75	24	99	10	8	-11	567	508	99
9	9	12	-97	207	99	10	0	22	-424	312	99	10	4	-27	215	126	99	10	6	-21	83	356	99	10	8	-10	167	170	99
9	9	13	194	170	99	10	0	24	180	248	99	10	4	-26	154	40	99	10	6	-20	433	409	99	10	8	-9	134	21	99
9	9	14	-286	200	99	10	2	-28	168	314	99	10	4	-25	62	193	99	10	6	-19	330	282	99	10	8	-8	383	339	99
9	9	15	-372	247	99	10	2	-27	581	608	99	10	4	-24	187	55	99	10	6	-18	954	926	99	10	8	-7	1400	1295	99
9	9	16	-169	127	99	10	2	-26	435	470	99	10	4	-23	468	486	99	10	6	-17	120	91	99	10	8	-6	379	357	99
9	11	-14	-268	39	99	10	2	-25	-178	341	99	10	4	-22	237	54	99	10	6	-16	974	915	99	10	8	-5	2052	1890	99
9	11	-13	-256	253	99	10	2	-24	109	218	99	10	4	-21	586	664	99	10	6	-15	391	505	99	10	8	-4	396	408	99
9	11	-12	-411	87	99	10	2	-23	624	584	99	10	4	-20	207	228	99	10	6	-14	-171	135	99	10	8	-3	926	887	99
9	11	-11	352	287	99	10	2	-22	-73	98	99	10	4	-19	847	874	99	10	6	-13	1150	1177	99	10	8	-2	596	548	99
9	11	-10	-269	202	99	10	2	-21	160	79	99	10	4	-18	249	215	99	10	6	-12	1652	1693	99	10	8	-1	219	295	99
9	11	-9	157	105	99	10	2	-20	639	570	99	10	4	-17	503	500	99	10	6	-11	126	59	99	10	8	0	112	137	99
9	11	-8	-265	122	99	10	2	-19	1516	1362	99	10	4	-16	-285	47	99	10	6	-10	1951	1900	99	10	8	1	228	3	99
9	11	-7	178	80	99	10	2	-18	1640	1702	99	10	4	-15	1800	1678	99	10	6	-9	347	357	99	10	8	2	665	725	99
9	11	-6	-76	126	99	10	2	-17	458	332	99	10	4	-14	149	124	99	10	6	-8	1659	1530	99	10	8	3	229	261	99
9	11	-5	207	366	99	10	2	-16	1751	1631	99	10	4	-13	2331	2215	99	10	6	-7	847	847	99	10	8	4	483	487	99
9	11	-4	-171	73	99	10	2	-15	144	69	99	10	4	-12	215	60	99	10	6	-6	1212	1108	99	10	8	5	583	580	99
9	11	-3	231	390	99	10	2	-14	1556	1335	99	10	4	-11	1188	1097	99	10	6	-5	511	532	99	10	8	6	-225	49	99
9	11	-2	265	179	99	10	2	-13	705	681	99	10	4	-10	1237	1183	99	10	6	-4	-133	392	99	10	8	7	-63	29	99
9	11	-1	316	168	99	10	2	-12	270	442	99	10	4	-9	241	240	99	10	6	-3	567	512	99	10	8	8	-242	52	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
10	8	9	525	413	99	11	1	-27	227	182	99	11	3	-25	608	604	99	11	5	-22	160	32	99	11	7	-14	919	881	99
10	8	10	-101	46	99	11	1	-26	489	389	99	11	3	-24	-263	103	99	11	5	-21	263	291	99	11	7	-13	625	642	99
10	8	11	656	625	99	11	1	-25	162	157	99	11	3	-23	735	790	99	11	5	-20	272	255	99	11	7	-12	233	263	99
10	8	12	-378	224	99	11	1	-24	258	299	99	11	3	-22	396	379	99	11	5	-19	686	626	99	11	7	-11	443	438	99
10	8	13	686	703	99	11	1	-23	317	353	99	11	3	-21	461	483	99	11	5	-18	899	763	99	11	7	-10	1267	1255	99
10	8	14	545	588	99	11	1	-22	324	276	99	11	3	-20	1104	1076	99	11	5	-17	1027	1031	99	11	7	-9	633	550	99
10	8	15	174	69	99	11	1	-21	422	300	99	11	3	-19	347	321	99	11	5	-16	716	708	99	11	7	-8	2303	2281	99
10	8	16	52	117	99	11	1	-20	1376	1448	99	11	3	-18	1032	929	99	11	5	-15	351	361	99	11	7	-7	504	480	99
10	8	17	326	383	99	11	1	-19	1042	978	99	11	3	-17	1370	1339	99	11	5	-14	621	648	99	11	7	-6	2970	2745	99
10	8	18	-302	95	99	11	1	-18	1655	1588	99	11	3	-16	309	394	99	11	5	-13	1109	1171	99	11	7	-5	656	696	99
10	10	-17	231	100	99	11	1	-17	1661	1668	99	11	3	-15	1404	1442	99	11	5	-12	-22	228	99	11	7	-4	2318	2168	99
10	10	-16	609	597	99	11	1	-16	42	72	99	11	3	-14	488	572	99	11	5	-11	1471	1529	99	11	7	-3	1554	1525	99
10	10	-15	-165	102	99	11	1	-15	175	70	99	11	3	-13	1579	1595	99	11	5	-10	1470	1449	99	11	7	-2	390	451	99
10	10	-14	283	293	99	11	1	-14	-105	125	99	11	3	-12	476	468	99	11	5	-9	801	784	99	11	7	-1	564	575	99
10	10	-13	-97	255	99	11	1	-13	742	780	99	11	3	-11	2362	2355	99	11	5	-8	1892	1790	99	11	7	0	1300	1327	99
10	10	-12	-119	205	99	11	1	-12	-160	31	99	11	3	-10	487	313	99	11	5	-7	127	252	99	11	7	1	179	66	99
10	10	-11	233	173	99	11	1	-11	856	900	99	11	3	-9	830	865	99	11	5	-6	1726	1627	99	11	7	2	1380	1397	99
10	10	-10	446	514	99	11	1	-10	2374	2209	99	11	3	-8	1772	1880	99	11	5	-5	2032	1975	99	11	7	3	-157	252	99
10	10	-9	39	228	99	11	1	-9	838	678	99	11	3	-7	303	328	99	11	5	-4	1292	1127	99	11	7	4	643	646	99
10	10	-8	598	593	99	11	1	-8	1585	1462	99	11	3	-6	2100	2125	99	11	5	-3	2446	2351	99	11	7	5	321	221	99
10	10	-7	588	516	99	11	1	-7	1637	1679	99	11	3	-5	1185	1198	99	11	5	-2	1101	1207	99	11	7	6	260	111	99
10	10	-6	157	190	99	11	1	-6	987	974	99	11	3	-4	1304	1260	99	11	5	-1	134	228	99	11	7	7	504	454	99
10	10	-5	445	522	99	11	1	-5	2338	2189	99	11	3	-3	3983	3996	99	11	5	0	1825	1931	99	11	7	8	-181	50	99
10	10	-4	439	437	99	11	1	-4	1247	1158	99	11	3	-2	2132	2209	99	11	5	1	2376	2402	99	11	7	9	215	104	99
10	10	-3	459	391	99	11	1	-3	4400	3897	99	11	3	-1	4714	4641	99	11	5	2	145	66	99	11	7	10	623	585	99
10	10	-2	221	129	99	11	1	-2	1378	1348	99	11	3	0	2110	1895	99	11	5	3	2195	2229	99	11	7	11	-129	2	99
10	10	-1	377	327	99	11	1	-1	2910	3021	99	11	3	1	1585	1742	99	11	5	4	1331	1383	99	11	7	12	457	426	99
10	10	0	-73	140	99	11	1	0	560	353	99	11	3	2	248	172	99	11	5	5	894	853	99	11	7	13	366	291	99
10	10	1	165	155	99	11	1	1	3262	3279	99	11	3	3	2568	2616	99	11	5	6	1472	1484	99	11	7	14	276	2	99
10	10	2	79	45	99	11	1	2	-178	140	99	11	3	4	1189	1254	99	11	5	7	-62	79	99	11	7	15	184	23	99
10	10	3	-207	265	99	11	1	3	2016	2177	99	11	3	5	186	172	99	11	5	8	254	299	99	11	7	16	-85	131	99
10	10	4	118	100	99	11	1	4	1508	1558	99	11	3	6	2676	2710	99	11	5	9	644	581	99	11	7	17	60	4	99
10	10	5	394	293	99	11	1	5	1371	1310	99	11	3	7	2590	2528	99	11	5	10	275	209	99	11	7	18	156	107	99
10	10	6	-208	244	99	11	1	6	2043	1947	99	11	3	8	2672	2572	99	11	5	11	1629	1601	99	11	7	19	-186	88	99
10	10	7	-98	44	99	11	1	7	661	672	99	11	3	9	2098	1943	99	11	5	12	413	363	99	11	7	20	239	290	99
10	10	8	439	315	99	11	1	8	444	226	99	11	3	10	1387	1431	99	11	5	13	297	390	99	11	9	-20	-237	50	99
10	10	9	-95	37	99	11	1	9	1496	1526	99	11	3	11	1272	1243	99	11	5	14	592	547	99	11	9	-19	116	273	99
10	10	10	287	127	99	11	1	10	1334	1321	99	11	3	12	1183	1108	99	11	5	15	738	669	99	11	9	-18	235	271	99
10	10	11	22	106	99	11	1	11	947	937	99	11	3	13	219	324	99	11	5	16	-52	392	99	11	9	-17	134	120	99
10	10	12	-161	100	99	11	1	12	1879	1897	99	11	3	14	960	994	99	11	5	17	255	199	99	11	9	-16	779	726	99
10	10	13	101	77	99	11	1	13	646	629	99	11	3	15	1071	1110	99	11	5	18	148	180	99	11	9	-15	-227	228	99
10	12	-8	217	162	99	11	1	14	2407	2616	99	11	3	16	275	182	99	11	5	19	-139	62	99	11	9	-14	659	673	99
10	12	-7	361	353	99	11	1	15	1951	1927	99	11	3	17	1275	1229	99	11	5	20	-343	117	99	11	9	-13	1200	1187	99
10	12	-6	-512	305	99	11	1	16	1092	1058	99	11	3	18	398	388	99	11	5	21	280	152	99	11	9	-12	8	260	99
10	12	-5	-88	231	99	11	1	17	1576	1571	99	11	3	19	605	472	99	11	5	22	245	176	99	11	9	-11	1167	1174	99
10	12	-4	428	344	99	11	1	18	513	555	99	11	3	20	-168	176	99	11	7	-24	-609	35	99	11	9	-10	-265	14	99
10	12	-3	-325	163	99	11	1	19	-296	127	99	11	3	21	397	252	99	11	7	-23	-113	46	99	11	9	-9	493	463	99
10	12	-2	167	183	99	11	1	20	178	291	99	11	3	22	-380	202	99	11	7	-22	186	74	99	11	9	-8	247	262	99
10	12	-1	312	275	99	11	1	21	139	257	99	11	3	23	196	200	99	11	7	-21	-257	11	99	11	9	-7	434	515	99
10	12	0	224	188	99	11	1	22	244	270	99	11	3	24	-85	48	99	11	7	-20	180	192	99	11	9	-6	640	658	99
10	12	1	237	239	99	11	1	23	-219	236	99	11	5	-27	-226	94	99	11	7	-19	285	268	99	11	9	-5	1150	1200	99
10	12	2	536	497	99	11	1	24	251	400	99	11	5	-26	-332	100	99	11	7	-18	199	76	99	11	9	-4	249	184	99
10	12	3	198	79	99	11	3	-28	264	231	99	11	5	-25	-194	223	99	11	7	-17	235	287	99	11	9	-3	1735	1662	99
10	12	4	419	460	99	11	3	-27	361	444	99	11	5	-24	118	88	99	11	7	-16	391	400	99	11	9	-2	798	739	99
11	1	-28	575	515	99	11	3	-26	202	116	99	11	5	-23	-273	158	99	11	7	-15	-85	78	99	11	9	-1	782	842	99
11	9	0	827	692	99	12	0	0	1999	2362	99	12	2	14	499	496	99	12	4	16	1226	1256	99	12	6	21	194	98	99
11	9	1	220	68	99	12	0	2	1245	1479	99	12	2	15	215	108	99	12	4	17	277	357	99	12	8	-23	187	119	99
11	9	2	539	342	99	12	0	4	2395	2465	99	12	2	16	146	150	99	12	4	18	706	632	99	12	8	-22	267	62	99
11	9	3	583	567	99	12	0	6	-117	41	99	12	2	17	811	703	99	12	4	19	74	13	99	12	8	-21	175	87	99
11	9	4	-311	11	99	12	0	8	1545	1578	99	12	2	18	278	68	99	12	4	20	178	59	99	12	8	-20	235	224	99
11	9	5	454	384	99	12	0	10	741	718	99	12	2	19	760	704	99	12	4	21	41	57	99	12	8	-19	140	152	99
11	9	6	168	108	99	12	0	12	1676	1658	99	12	2	20	101	185	99	12	4	22	431	325	99	12	8	-18	413	227	99
11	9	7	388	346	99	12	0	14	1703	1714	99	12	2	21	246	401	99	12	4	23	385	60	99	12	8	-17	-349	75	99
11	9	8	-84	71	99	12	0	16	1577	1542	99	12	2	22	231	21	99	12	6	-26	167	10	99	12	8	-16	205	148	99
11	9	9	411	459	99	12	0	18	682	578	99	12	2	23	157	146	99	12	6	-25	244	139	99	12	8	-15	446	480	99
11	9	10	-563	10	99	12	0	20	247	375	99	12	2	24	-160	51	99	12	6	-24	-154	328	99	12	8	-14	-279	111	99
11	9	11	205	325	99	12	0	22	708	664	99	12	4	-28	165	90	99	12	6	-23	111	92	99	12	8	-13	759	737	99
11	9	12	-388	70	99	12	0	24	551	652	99	12	4	-27	143	385	99	12	6	-22	-330	127	99	12	8	-12	619	489	99
11	9	13	503	453	99	12	2	-28	515	523	99	12	4	-26	-325	208	99	12	6	-21	12	179	99	12	8	-11	1109	1122	99
11	9	14	341	190	99	12	2	-27	-254	174	99	12	4	-25	391	412	99	12	6	-20	186	18	99	12	8	-10	-86	214	99
11	9	15	-219	158	99	12	2	-26	-339	229	99	12	4	-24	126	342	99	12	6	-19	312	59	99	12	8	-9	1288	1214	99
11	9	16	-201	210	99	12	2	-25	513	533	99	12	4	-23	314	146	99	12	6	-18	-88	218	99	12	8	-8	727	752	99
11	11	-14	184	266	99	12	2	-24	232	30	99	12	4	-22	-142	275	99	12	6	-17	347	229	99	12	8	-7	639	553	99
11	11	-13	-312	35	99	12	2	-23	1068	994	99	12	4	-21	361	211	99	12	6	-16	618	623	99	12	8	-6	309	197	99
11	11	-12	266	125	99	12	2	-22	-112	110	99	12	4	-20	951	929	99	12	6	-15	-127	261	99	12	8	-5	586	640	99
11	11	-11	117	7	99	12	2	-21	1514	1339	99	12	4	-19	520	498	99	12	6	-14	594	608	99	12	8	-4	788	826	99
11	11	-10	192	258	99	12	2	-20	-85	148	99	12	4	-18	2166	2169	99	12	6	-13	-321	87	99	12	8	-3	1806	1796	99
11	11	-9	33	213	99	12	2	-19	1456	1414	99	12	4	-17	541	535	99	12	6	-12	122	46	99	12	8	-2	336	403	99
11	11	-8	409	420	99	12	2	-18	472	537	99	12	4	-16	1789	1839	99	12	6	-11	695	737	99	12	8	-1	1527	1575	99
11	11	-7	226	198	99	12	2	-17	1199	1249	99	12	4	-15	171	84	99	12	6	-10	-215	204	99	12	8	0	53	150	99
11	11	-6	-247	416	99	12	2	-16	909	885	99	12	4	-14	497	453	99	12	6	-9	206	238	99	12	8	1	946	865	99
11	11	-5	165	228	99	12	2	-15	303	318	99	12	4	-13	420	462	99	12	6	-8	1356	1321	99	12	8	2	1218	1186	99
11	11	-4	373	353	99	12	2	-14	1293	1266	99	12	4	-12	1268	1307	99	12	6	-7	-125	78	99	12	8	3	-129	43	99
11	11	-3	161	46	99	12	2	-13	1637	1579	99	12	4	-11	526	528	99	12	6	-6	2472	2365	99	12	8	4	1515	1490	99
11	11	-2	213	170	99	12	2	-12	224	67	99	12	4	-10	3275	3095	99	12	6	-5	118	216	99	12	8	5	998	949	99
11	11	-1	-217	16	99	12	2	-11	2977	2848	99	12	4	-9	1575	1447	99	12	6	-4	1810	1821	99	12	8	6	730	758	99
11	11	0	-92	503	99	12	2	-10	1341	1278	99	12	4	-8	2840	2794	99	12	6	-3	316	324	99	12	8	7	1214	1201	99
11	11	1	216	149	99	12	2	-9	1468	1605	99	12	4	-7	269	189	99	12	6	-2	191	273	99	12	8	8	420	480	99
11	11	2	633	583	99	12	2	-8	833	771	99	12	4	-6	2117	2087	99	12	6	-1	259	154	99	12	8	9	982	990	99
11	11	3	444	395	99	12	2	-7	2420	2396	99	12	4	-5	351	443	99	12	6	0	1513	1519	99	12	8	10	141	18	99
11	11	4	479	422	99	12	2	-6	999	868	99	12	4	-4	368	260	99	12	6	1	982	921	99	12	8	11	-423	141	99
11	11	5	97	243	99	12	2	-5	2516	2530	99	12	4	-3	1646	1782	99	12	6	2	2228	2237	99	12	8	12	217	134	99
11	11	6	238	11	99	12	2	-4	1135	964	99	12	4	-2	341	434	99	12	6	3	193	111	99	12	8	13	160	106	99
11	11	7	-159	52	99	12	2	-3	2380	2327	99	12	4	-1	3026	3303	99	12	6	4	1847	1846	99	12	8	14	-171	36	99
11	11	8	226	191	99	12	2	-2	757	729	99	12	4	0	1037	942	99	12	6	5	138	360	99	12	8	15	167	186	99
11	11	9	-200	170	99	12	2	-1	2321	2389	99	12	4	1	1325	1425	99	12	6	6	1158	1071	99	12	8	16	208	137	99
12	0	-28	172	239	99	12	2	0	1429	1447	99	12	4	2	1512	1612	99	12	6	7	135	136	99	12	8	17	185	281	99
12	0	-26	625	618	99	12	2	1	809	911	99	12	4	3	253	280	99	12	6	8	-303	25	99	12	8	18	-107	55	99
12	0	-24	751	819	99	12	2	2	3914	3611	99	12	4	4	1213	1200	99	12	6	9	-508	66	99	12	10	-18	-265	8	99
12	0	-22	558	565	99	12	2	3	1249	1304	99	12	4	5	177	355	99	12	6	10	1479	1485	99	12	10	-17	-221	97	99
12	0	-20	709	657	99	12	2	4	1411	1389	99	12	4	6	1114	1088	99	12	6	11	217	68	99	12	10	-16	237	155	99
12	0	-18	3563	3445	99	12	2	5	820	865	99	12	4	7	1822	1854	99	12	6	12	473	482	99	12	10	-15	269	363	99
12	0	-16	711	751	99	12	2	6	2233	2182	99	12	4	8	1349	1303	99	12	6	13	-236	87	99	12	10	-14	83	240	99
12	0	-14	1967	1894	99	12	2	7	166	260	99	12	4	9	1532	1395	99	12	6	14	-30	35	99	12	10	-13	375	349	99
12	0	-12	294	317	99	12	2	8	233	191	99	12	4	10	944	958	99	12	6	15	146	49	99	12	10	-12	-460	328	99
12	0	-10	4207	3921	99	12	2	9	1401	1476	99	12	4	11	510	485	99	12	6	16	-86	71	99	12	10	-11	533	560	99
12	0	-8	2093	1953	99	12	2	10	1175	1260	99	12	4	12	125	132	99	12	6	17	-240	62	99	12	10	-10	-184	108	99
12	0	-6	2959	3052	99	12	2	11	1966	2078	99	12	4	13	575	519	99	12	6	18	369	339	99	12	10	-9	286	194	99
12	0	-4	2274	2681	99	12	2	12	563	598	99	12	4	14	1266	1199	99	12	6	19	127	50	99	12	10	-8	285	339	99
12	0	-2	2209	3020	99	12	2	13	531	594	99	12	4	15	518	446	99	12	6	20	234	107	99	12	10	-7	497	561	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
12	10	-6	788	777	99	13	1	-5	703	715	99	13	3	-3	2273	2219	99	13	5	1	1030	1049	99	13	7	10	445	543	99
12	10	-5	218	195	99	13	1	-4	2196	1899	99	13	3	-2	929	901	99	13	5	2	1125	1078	99	13	7	11	46	73	99
12	10	-4	679	649	99	13	1	-3	246	275	99	13	3	-1	4756	4707	99	13	5	3	1783	1770	99	13	7	12	906	911	99
12	10	-3	117	17	99	13	1	-2	257	282	99	13	3	0	186	289	99	13	5	4	-253	139	99	13	7	13	228	366	99
12	10	-2	192	9	99	13	1	-1	369	520	99	13	3	1	1980	1737	99	13	5	5	1042	1006	99	13	7	14	396	460	99
12	10	-1	210	63	99	13	1	0	3906	3822	99	13	3	2	1099	1192	99	13	5	6	1066	1021	99	13	7	15	131	297	99
12	10	0	431	391	99	13	1	1	1943	1968	99	13	3	3	653	720	99	13	5	7	789	845	99	13	7	16	-251	152	99
12	10	1	95	78	99	13	1	2	1955	1845	99	13	3	4	1308	1390	99	13	5	8	998	943	99	13	7	17	153	274	99
12	10	2	731	705	99	13	1	3	1984	2067	99	13	3	5	720	766	99	13	5	9	1437	1362	99	13	7	18	-195	150	99
12	10	3	252	60	99	13	1	4	784	830	99	13	3	6	2779	2617	99	13	5	10	633	637	99	13	7	19	-162	46	99
12	10	4	715	668	99	13	1	5	2112	2178	99	13	3	7	2012	2014	99	13	5	11	-446	88	99	13	9	-20	-155	43	99
12	10	5	193	10	99	13	1	6	444	485	99	13	3	8	728	703	99	13	5	12	233	67	99	13	9	-19	179	13	99
12	10	6	281	30	99	13	1	7	478	371	99	13	3	9	2614	2596	99	13	5	13	444	458	99	13	9	-18	165	14	99
12	10	7	-142	34	99	13	1	8	672	837	99	13	3	10	2407	2353	99	13	5	14	207	265	99	13	9	-17	544	446	99
12	10	8	-560	254	99	13	1	9	1423	1381	99	13	3	11	692	663	99	13	5	15	458	430	99	13	9	-16	136	110	99
12	10	9	-113	122	99	13	1	10	426	388	99	13	3	12	1169	1037	99	13	5	16	332	397	99	13	9	-15	225	580	99
12	10	10	498	484	99	13	1	11	-143	49	99	13	3	13	733	749	99	13	5	17	696	613	99	13	9	-14	226	26	99
12	10	11	-355	152	99	13	1	12	359	450	99	13	3	14	252	87	99	13	5	18	277	166	99	13	9	-13	704	650	99
12	10	12	457	386	99	13	1	13	342	316	99	13	3	15	209	242	99	13	5	19	377	311	99	13	9	-12	282	165	99
12	10	13	-130	142	99	13	1	14	560	607	99	13	3	16	-118	77	99	13	5	20	316	291	99	13	9	-11	858	824	99
12	12	-8	229	348	99	13	1	15	-139	147	99	13	3	17	-227	385	99	13	5	21	326	280	99	13	9	-10	230	4	99
12	12	-7	205	139	99	13	1	16	676	710	99	13	3	18	569	593	99	13	7	-24	395	362	99	13	9	-9	402	347	99
12	12	-6	152	104	99	13	1	17	546	493	99	13	3	19	220	430	99	13	7	-23	-306	196	99	13	9	-8	138	204	99
12	12	-5	-119	88	99	13	1	18	671	641	99	13	3	20	486	418	99	13	7	-22	770	691	99	13	9	-7	405	242	99
12	12	-4	-480	77	99	13	1	19	309	54	99	13	3	21	349	326	99	13	7	-21	205	103	99	13	9	-6	-110	244	99
12	12	-3	-290	61	99	13	1	20	-285	50	99	13	3	22	82	54	99	13	7	-20	810	731	99	13	9	-5	265	85	99
12	12	-2	-286	32	99	13	1	21	239	130	99	13	3	23	231	295	99	13	7	-19	196	127	99	13	9	-4	618	551	99
12	12	-1	70	13	99	13	1	22	297	246	99	13	5	-27	-229	68	99	13	7	-18	687	646	99	13	9	-3	869	805	99
12	12	0	-223	269	99	13	1	23	324	218	99	13	5	-26	-290	156	99	13	7	-17	-147	133	99	13	9	-2	189	126	99
12	12	1	-94	22	99	13	1	24	379	398	99	13	5	-25	244	325	99	13	7	-16	214	254	99	13	9	-1	1170	1148	99
12	12	2	337	344	99	13	3	-28	-54	296	99	13	5	-24	229	102	99	13	7	-15	125	111	99	13	9	0	-81	215	99
12	12	3	183	88	99	13	3	-27	408	347	99	13	5	-23	91	187	99	13	7	-14	-400	10	99	13	9	1	1069	1071	99
13	1	-28	183	170	99	13	3	-26	106	110	99	13	5	-22	189	18	99	13	7	-13	347	269	99	13	9	2	269	149	99
13	1	-27	212	279	99	13	3	-25	730	678	99	13	5	-21	-243	91	99	13	7	-12	277	209	99	13	9	3	833	813	99
13	1	-26	576	578	99	13	3	-24	471	448	99	13	5	-20	396	375	99	13	7	-11	-168	91	99	13	9	4	308	339	99
13	1	-25	272	202	99	13	3	-23	755	687	99	13	5	-19	225	373	99	13	7	-10	85	87	99	13	9	5	-298	6	99
13	1	-24	414	569	99	13	3	-22	697	576	99	13	5	-18	910	925	99	13	7	-9	795	779	99	13	9	6	510	474	99
13	1	-23	-354	20	99	13	3	-21	889	811	99	13	5	-17	-215	171	99	13	7	-8	441	462	99	13	9	7	277	395	99
13	1	-22	548	543	99	13	3	-20	250	275	99	13	5	-16	1000	1023	99	13	7	-7	1180	1120	99	13	9	8	263	167	99
13	1	-21	287	392	99	13	3	-19	845	848	99	13	5	-15	662	602	99	13	7	-6	776	789	99	13	9	9	467	533	99
13	1	-20	14	167	99	13	3	-18	1006	1084	99	13	5	-14	406	431	99	13	7	-5	406	510	99	13	9	10	158	220	99
13	1	-19	1607	1654	99	13	3	-17	524	541	99	13	5	-13	269	305	99	13	7	-4	2017	1992	99	13	9	11	602	650	99
13	1	-18	2233	2146	99	13	3	-16	575	664	99	13	5	-12	1424	1288	99	13	7	-3	475	446	99	13	9	12	357	446	99
13	1	-17	217	172	99	13	3	-15	1742	1691	99	13	5	-11	1222	1271	99	13	7	-2	1565	1541	99	13	9	13	128	127	99
13	1	-16	1826	1795	99	13	3	-14	590	633	99	13	5	-10	1079	1027	99	13	7	-1	504	532	99	13	9	14	369	307	99
13	1	-15	145	254	99	13	3	-13	2470	2344	99	13	5	-9	862	860	99	13	7	0	-94	197	99	13	9	15	288	223	99
13	1	-14	1224	1209	99	13	3	-12	-348	85	99	13	5	-8	1705	1604	99	13	7	1	671	677	99	13	11	-14	131	190	99
13	1	-13	100	184	99	13	3	-11	2113	2066	99	13	5	-7	601	635	99	13	7	2	1424	1388	99	13	11	-13	342	383	99
13	1	-12	85	58	99	13	3	-10	3452	3406	99	13	5	-6	2625	2614	99	13	7	3	-138	96	99	13	11	-12	360	343	99
13	1	-11	3223	3243	99	13	3	-9	2495	2290	99	13	5	-5	1491	1438	99	13	7	4	2350	2402	99	13	11	-11	263	359	99
13	1	-10	1938	1977	99	13	3	-8	4703	4626	99	13	5	-4	1365	1411	99	13	7	5	201	131	99	13	11	-10	113	120	99
13	1	-9	1453	1268	99	13	3	-7	907	881	99	13	5	-3	372	344	99	13	7	6	1715	1718	99	13	11	-9	-270	172	99
13	1	-8	2843	2842	99	13	3	-6	2056	1956	99	13	5	-2	746	778	99	13	7	7	500	566	99	13	11	-8	268	182	99
13	1	-7	1634	1627	99	13	3	-5	2593	2624	99	13	5	-1	1278	1361	99	13	7	8	648	652	99	13	11	-7	232	181	99
13	1	-6	1146	1125	99	13	3	-4	366	422	99	13	5	0	542	484	99	13	7	9	833	926	99	13	11	-6	-283	248	99
13	11	-5	259	415	99	14	2	-14	720	707	99	14	4	-11	304	253	99	14	6	-5	464	534	99	14	8	6	235	91	99
13	11	-4	85	415	99	14	2	-13	622	621	99	14	4	-10	277	369	99	14	6	-4	304	196	99	14	8	7	215	29	99
13	11	-3	137	140	99	14	2	-12	575	619	99	14	4	-9	244	205	99	14	6	-3	1597	1562	99	14	8	8	-108	9	99
13	11	-2	353	308	99	14	2	-11	2889	2928	99	14	4	-8	2484	2422	99	14	6	-2	-119	155	99	14	8	9	736	782	99
13	11	-1	139	40	99	14	2	-10	252	126	99	14	4	-7	950	1011	99	14	6	-1	1272	1274	99	14	8	10	92	130	99
13	11	0	-161	113	99	14	2	-9	6336	6546	99	14	4	-6	2635	2565	99	14	6	0	274	150	99	14	8	11	955	1003	99
13	11	1	-175	24	99	14	2	-8	783	787	99	14	4	-5	1260	1197	99	14	6	1	606	634	99	14	8	12	35	237	99
13	11	2	519	489	99	14	2	-7	3271	3254	99	14	4	-4	2113	2088	99	14	6	2	412	318	99	14	8	13	672	649	99
13	11	3	187	145	99	14	2	-6	1138	1150	99	14	4	-3	539	473	99	14	6	3	656	613	99	14	8	14	117	166	99
13	11	4	489	510	99	14	2	-5	133	167	99	14	4	-2	403	355	99	14	6	4	181	177	99	14	8	15	-294	58	99
13	11	5	-381	118	99	14	2	-4	-157	140	99	14	4	-1	1577	1676	99	14	6	5	632	640	99	14	8	16	-120	101	99
13	11	6	-390	158	99	14	2	-3	3209	2917	99	14	4	0	2262	2285	99	14	6	6	686	772	99	14	8	17	389	505	99
13	11	7	353	311	99	14	2	-2	1407	1299	99	14	4	1	76	210	99	14	6	7	271	167	99	14	10	-18	182	346	99
13	11	8	113	61	99	14	2	-1	7071	6681	99	14	4	2	2833	2951	99	14	6	8	1127	1210	99	14	10	-17	-241	52	99
13	11	9	-73	332	99	14	2	0	664	766	99	14	4	3	385	331	99	14	6	9	-143	4	99	14	10	-16	380	417	99
14	0	-28	-33	212	99	14	2	1	3845	3502	99	14	4	4	1509	1540	99	14	6	10	244	257	99	14	10	-15	-71	99	99
14	0	-26	457	398	99	14	2	2	836	757	99	14	4	5	-120	17	99	14	6	11	1472	1518	99	14	10	-14	156	4	99
14	0	-24	809	590	99	14	2	3	3710	3579	99	14	4	6	180	192	99	14	6	12	614	578	99	14	10	-13	-112	118	99
14	0	-22	436	383	99	14	2	4	1689	1646	99	14	4	7	195	94	99	14	6	13	1086	1053	99	14	10	-12	-153	263	99
14	0	-20	884	808	99	14	2	5	4349	4249	99	14	4	8	231	344	99	14	6	14	584	671	99	14	10	-11	329	278	99
14	0	-18	152	185	99	14	2	6	1087	1116	99	14	4	9	1651	1667	99	14	6	15	567	532	99	14	10	-10	409	443	99
14	0	-16	1079	1098	99	14	2	7	2530	2552	99	14	4	10	494	435	99	14	6	16	605	694	99	14	10	-9	307	191	99
14	0	-14	2408	2333	99	14	2	8	1616	1556	99	14	4	11	2119	2105	99	14	6	17	-165	68	99	14	10	-8	483	465	99
14	0	-12	2626	2671	99	14	2	9	1363	1239	99	14	4	12	147	127	99	14	6	18	325	259	99	14	10	-7	273	241	99
14	0	-10	3201	3056	99	14	2	10	391	305	99	14	4	13	675	620	99	14	6	19	-186	185	99	14	10	-6	-389	142	99
14	0	-8	2902	3010	99	14	2	11	-319	86	99	14	4	14	202	134	99	14	6	20	421	449	99	14	10	-5	374	465	99
14	0	-6	1847	1944	99	14	2	12	1186	1233	99	14	4	15	635	503	99	14	8	-23	482	589	99	14	10	-4	206	2	99
14	0	-4	55	88	99	14	2	13	672	640	99	14	4	16	-172	214	99	14	8	-22	298	326	99	14	10	-3	-105	41	99
14	0	-2	297	422	99	14	2	14	871	915	99	14	4	17	265	374	99	14	8	-21	482	501	99	14	10	-2	219	87	99
14	0	0	4403	5302	99	14	2	15	820	698	99	14	4	18	201	81	99	14	8	-20	430	361	99	14	10	-1	-277	303	99
14	0	2	6406	7006	99	14	2	16	1156	1281	99	14	4	19	733	822	99	14	8	-19	-266	309	99	14	10	0	344	71	99
14	0	4	3261	3329	99	14	2	17	245	215	99	14	4	20	135	12	99	14	8	-18	513	418	99	14	10	1	109	149	99
14	0	6	206	67	99	14	2	18	827	815	99	14	4	21	263	145	99	14	8	-17	404	274	99	14	10	2	-274	63	99
14	0	8	1093	1010	99	14	2	19	428	268	99	14	4	22	63	93	99	14	8	-16	-120	51	99	14	10	3	-557	167	99
14	0	10	508	397	99	14	2	20	116	54	99	14	6	-26	537	486	99	14	8	-15	1267	1208	99	14	10	4	-147	168	99
14	0	12	1104	1012	99	14	2	21	237	62	99	14	6	-25	-259	94	99	14	8	-14	-268	43	99	14	10	5	-332	31	99
14	0	14	862	883	99	14	2	22	-132	152	99	14	6	-24	-222	231	99	14	8	-13	1227	1218	99	14	10	6	464	470	99
14	0	16	165	121	99	14	2	23	182	220	99	14	6	-23	72	442	99	14	8	-12	110	77	99	14	10	7	250	123	99
14	0	18	385	308	99	14	4	-28	273	82	99	14	6	-22	92	210	99	14	8	-11	613	553	99	14	10	8	53	309	99
14	0	20	280	309	99	14	4	-27	301	170	99	14	6	-21	607	545	99	14	8	-10	-114	60	99	14	10	9	141	53	99
14	0	22	-408	241	99	14	4	-26	-286	97	99	14	6	-20	371	404	99	14	8	-9	160	99	99	14	10	10	133	142	99
14	2	-28	434	461	99	14	4	-25	452	467	99	14	6	-19	285	173	99	14	8	-8	608	617	99	14	10	11	219	249	99
14	2	-27	450	276	99	14	4	-24	-214	70	99	14	6	-18	1153	1116	99	14	8	-7	752	702	99	14	10	12	-219	187	99
14	2	-26	641	585	99	14	4	-23	685	638	99	14	6	-17	398	388	99	14	8	-6	808	705	99	14	12	-7	-270	186	99
14	2	-25	242	256	99	14	4	-22	-193	81	99	14	6	-16	1295	1241	99	14	8	-5	798	767	99	14	12	-6	393	562	99
14	2	-24	266	219	99	14	4	-21	840	834	99	14	6	-15	811	764	99	14	8	-4	325	258	99	14	12	-5	180	17	99
14	2	-23	97	55	99	14	4	-20	146	35	99	14	6	-14	106	44	99	14	8	-3	878	759	99	14	12	-4	373	417	99
14	2	-22	194	50	99	14	4	-19	790	823	99	14	6	-13	345	214	99	14	8	-2	1069	1043	99	14	12	-3	207	225	99
14	2	-21	358	341	99	14	4	-18	364	383	99	14	6	-12	798	825	99	14	8	-1	753	674	99	14	12	-2	-157	241	99
14	2	-20	406	517	99	14	4	-17	217	148	99	14	6	-11	494	483	99	14	8	0	413	284	99	14	12	-1	-93	262	99
14	2	-19	212	190	99	14	4	-16	1010	983	99	14	6	-10	842	808	99	14	8	1	475	497	99	14	12	0	144	323	99
14	2	-18	1367	1364	99	14	4	-15	1313	1261	99	14	6	-9	736	735	99	14	8	2	247	238	99	14	12	1	295	46	99
14	2	-17	668	727	99	14	4	-14	1432	1398	99	14	6	-8	981	919	99	14	8	3	755	759	99	15	1	-28	271	395	99
14	2	-16	1134	1139	99	14	4	-13	2040	1936	99	14	6	-7	1269	1247	99	14	8	4	-185	216	99	15	1	-27	-93	145	99
14	2	-15	-183	374	99	14	4	-12	1190	1114	99	14	6	-6	1050	925	99	14	8	5	539	568	99	15	1	-26	520	463	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
15	1	-25	210	107	99	15	3	-22	-123	299	99	15	5	-17	924	930	99	15	7	-9	266	374	99	15	9	6	-258	121	99
15	1	-24	529	432	99	15	3	-21	-84	266	99	15	5	-16	2002	1932	99	15	7	-8	1876	1872	99	15	9	7	158	64	99
15	1	-23	205	172	99	15	3	-20	1191	1119	99	15	5	-15	486	533	99	15	7	-7	611	616	99	15	9	8	175	214	99
15	1	-22	354	361	99	15	3	-19	168	61	99	15	5	-14	1408	1328	99	15	7	-6	2913	2797	99	15	9	9	258	214	99
15	1	-21	285	237	99	15	3	-18	751	724	99	15	5	-13	1909	1905	99	15	7	-5	155	209	99	15	9	10	-131	148	99
15	1	-20	752	733	99	15	3	-17	-66	295	99	15	5	-12	23	201	99	15	7	-4	1083	1034	99	15	9	11	284	457	99
15	1	-19	434	533	99	15	3	-16	151	63	99	15	5	-11	1375	1406	99	15	7	-3	1361	1331	99	15	9	12	-271	115	99
15	1	-18	514	417	99	15	3	-15	1138	1198	99	15	5	-10	500	535	99	15	7	-2	241	367	99	15	9	13	250	414	99
15	1	-17	264	336	99	15	3	-14	255	295	99	15	5	-9	-100	155	99	15	7	-1	532	504	99	15	9	14	-310	114	99
15	1	-16	1142	1095	99	15	3	-13	1752	1683	99	15	5	-8	832	866	99	15	7	0	445	435	99	15	11	-14	218	315	99
15	1	-15	444	518	99	15	3	-12	739	770	99	15	5	-7	76	143	99	15	7	1	332	312	99	15	11	-13	162	8	99
15	1	-14	111	168	99	15	3	-11	1756	1761	99	15	5	-6	1671	1579	99	15	7	2	407	425	99	15	11	-12	337	263	99
15	1	-13	952	1007	99	15	3	-10	2484	2499	99	15	5	-5	1812	1849	99	15	7	3	-174	141	99	15	11	-11	95	52	99
15	1	-12	1426	1337	99	15	3	-9	1070	1103	99	15	5	-4	2002	1906	99	15	7	4	-107	6	99	15	11	-10	327	84	99
15	1	-11	1852	1853	99	15	3	-8	1185	1128	99	15	5	-3	617	547	99	15	7	5	317	75	99	15	11	-9	105	182	99
15	1	-10	343	202	99	15	3	-7	218	314	99	15	5	-2	63	37	99	15	7	6	149	90	99	15	11	-8	380	367	99
15	1	-9	1954	2083	99	15	3	-6	707	660	99	15	5	-1	976	1076	99	15	7	7	207	92	99	15	11	-7	116	248	99
15	1	-8	2701	2495	99	15	3	-5	1798	1775	99	15	5	0	160	351	99	15	7	8	-402	98	99	15	11	-6	542	596	99
15	1	-7	1184	1249	99	15	3	-4	-123	290	99	15	5	1	1997	2039	99	15	7	9	183	9	99	15	11	-5	-341	198	99
15	1	-6	2937	2642	99	15	3	-3	3819	3619	99	15	5	2	557	534	99	15	7	10	-223	242	99	15	11	-4	-100	236	99
15	1	-5	649	564	99	15	3	-2	2354	2205	99	15	5	3	576	469	99	15	7	11	-250	56	99	15	11	-3	142	198	99
15	1	-4	318	333	99	15	3	-1	1478	1372	99	15	5	4	904	936	99	15	7	12	338	343	99	15	11	-2	116	7	99
15	1	-3	1647	1379	99	15	3	0	2883	2539	99	15	5	5	319	347	99	15	7	13	210	10	99	15	11	-1	194	11	99
15	1	-2	1643	1750	99	15	3	1	3639	3606	99	15	5	6	453	412	99	15	7	14	-254	44	99	15	11	0	-365	350	99
15	1	-1	2598	2956	99	15	3	2	1099	1106	99	15	5	7	990	1016	99	15	7	15	74	172	99	15	11	1	238	307	99
15	1	0	530	472	99	15	3	3	2215	2163	99	15	5	8	353	425	99	15	7	16	188	189	99	15	11	2	686	649	99
15	1	1	4099	4359	99	15	3	4	1095	1171	99	15	5	9	868	824	99	15	7	17	-276	85	99	15	11	3	483	418	99
15	1	2	1380	1404	99	15	3	5	1280	1163	99	15	5	10	192	604	99	15	7	18	168	268	99	15	11	4	210	385	99
15	1	3	1344	1348	99	15	3	6	1427	1386	99	15	5	11	-332	194	99	15	9	-21	402	457	99	15	11	5	-182	29	99
15	1	4	2434	2489	99	15	3	7	1432	1348	99	15	5	12	651	632	99	15	9	-20	373	60	99	15	11	6	87	109	99
15	1	5	-210	170	99	15	3	8	826	807	99	15	5	13	651	642	99	15	9	-19	-275	310	99	15	11	7	216	66	99
15	1	6	1129	1065	99	15	3	9	1702	1592	99	15	5	14	455	472	99	15	9	-18	239	149	99	15	11	8	-182	15	99
15	1	7	1205	1197	99	15	3	10	425	418	99	15	5	15	599	589	99	15	9	-17	205	88	99	16	0	-28	496	483	99
15	1	8	1031	865	99	15	3	11	1822	1806	99	15	5	16	500	319	99	15	9	-16	474	505	99	16	0	-26	577	665	99
15	1	9	1328	1306	99	15	3	12	717	671	99	15	5	17	-276	311	99	15	9	-15	475	497	99	16	0	-24	1328	1278	99
15	1	10	660	700	99	15	3	13	169	134	99	15	5	18	105	361	99	15	9	-14	374	350	99	16	0	-22	751	757	99
15	1	11	-332	187	99	15	3	14	746	613	99	15	5	19	372	252	99	15	9	-13	1179	1282	99	16	0	-20	1293	1177	99
15	1	12	2127	2191	99	15	3	15	689	652	99	15	5	20	161	217	99	15	9	-12	-319	104	99	16	0	-18	1073	1003	99
15	1	13	499	480	99	15	3	16	208	31	99	15	5	21	250	392	99	15	9	-11	1091	1035	99	16	0	-16	299	255	99
15	1	14	2233	2246	99	15	3	17	418	393	99	15	7	-25	-71	81	99	15	9	-10	391	354	99	16	0	-14	166	63	99
15	1	15	1265	1222	99	15	3	18	708	722	99	15	7	-24	-386	301	99	15	9	-9	705	676	99	16	0	-12	2461	2448	99
15	1	16	782	802	99	15	3	19	535	483	99	15	7	-23	-234	43	99	15	9	-8	169	190	99	16	0	-10	2720	2755	99
15	1	17	696	664	99	15	3	20	149	265	99	15	7	-22	285	104	99	15	9	-7	229	108	99	16	0	-8	1598	1365	99
15	1	18	-57	90	99	15	3	21	292	241	99	15	7	-21	196	155	99	15	9	-6	-231	19	99	16	0	-6	169	125	99
15	1	19	450	482	99	15	3	22	-83	9	99	15	7	-20	91	163	99	15	9	-5	1080	1027	99	16	0	-4	189	33	99
15	1	20	177	7	99	15	5	-27	430	355	99	15	7	-19	519	454	99	15	9	-4	276	200	99	16	0	-2	1550	2203	99
15	1	21	464	399	99	15	5	-26	548	446	99	15	7	-18	279	320	99	15	9	-3	710	669	99	16	0	0	3460	4173	99
15	1	22	-213	104	99	15	5	-25	-193	236	99	15	7	-17	583	589	99	15	9	-2	835	849	99	16	0	2	1134	1252	99
15	1	23	126	215	99	15	5	-24	194	198	99	15	7	-16	1034	1137	99	15	9	-1	297	289	99	16	0	4	2187	2299	99
15	3	-28	290	218	99	15	5	-23	534	406	99	15	7	-15	349	231	99	15	9	0	748	705	99	16	0	6	2126	2156	99
15	3	-27	-184	200	99	15	5	-22	203	155	99	15	7	-14	1191	1206	99	15	9	1	-354	224	99	16	0	8	2351	2315	99
15	3	-26	281	64	99	15	5	-21	370	410	99	15	7	-13	528	551	99	15	9	2	527	420	99	16	0	10	1555	1453	99
15	3	-25	703	698	99	15	5	-20	317	284	99	15	7	-12	315	193	99	15	9	3	119	122	99	16	0	12	809	863	99
15	3	-24	361	314	99	15	5	-19	785	741	99	15	7	-11	701	742	99	15	9	4	178	142	99	16	0	14	1533	1440	99
15	3	-23	826	848	99	15	5	-18	949	903	99	15	7	-10	1042	1049	99	15	9	5	-178	111	99	16	0	16	1929	1898	99
16	0	18	205	35	99	16	4	-28	337	309	99	16	6	-21	300	177	99	16	8	-9	1227	1151	99	16	10	11	-142	165	99
16	0	20	453	378	99	16	4	-27	-400	24	99	16	6	-20	127	104	99	16	8	-8	288	368	99	16	12	-6	230	270	99
16	0	22	417	446	99	16	4	-26	414	494	99	16	6	-19	-108	20	99	16	8	-7	824	776	99	16	12	-5	308	60	99
16	2	-28	97	182	99	16	4	-25	284	28	99	16	6	-18	-204	310	99	16	8	-6	766	704	99	16	12	-4	-216	221	99
16	2	-27	180	217	99	16	4	-24	136	212	99	16	6	-17	270	211	99	16	8	-5	782	811	99	16	12	-3	35	22	99
16	2	-26	239	39	99	16	4	-23	400	340	99	16	6	-16	1415	1341	99	16	8	-4	253	253	99	16	12	-2	264	153	99
16	2	-25	527	451	99	16	4	-22	411	415	99	16	6	-15	-401	100	99	16	8	-3	1504	1563	99	16	12	-1	-273	28	99
16	2	-24	211	245	99	16	4	-21	307	317	99	16	6	-14	1970	1919	99	16	8	-2	167	116	99	16	12	0	262	151	99
16	2	-23	1032	1015	99	16	4	-20	1237	1208	99	16	6	-13	529	550	99	16	8	-1	1440	1417	99	17	1	-28	-110	345	99
16	2	-22	-43	4	99	16	4	-19	990	877	99	16	6	-12	1223	1150	99	16	8	0	104	114	99	17	1	-27	408	376	99
16	2	-21	1509	1459	99	16	4	-18	1520	1463	99	16	6	-11	208	302	99	16	8	1	900	841	99	17	1	-26	517	499	99
16	2	-20	427	420	99	16	4	-17	1639	1596	99	16	6	-10	544	480	99	16	8	2	820	767	99	17	1	-25	351	337	99
16	2	-19	229	245	99	16	4	-16	1100	1138	99	16	6	-9	206	394	99	16	8	3	537	403	99	17	1	-24	1107	1051	99
16	2	-18	224	220	99	16	4	-15	207	51	99	16	6	-8	1054	950	99	16	8	4	856	854	99	17	1	-23	-219	187	99
16	2	-17	-148	94	99	16	4	-14	129	105	99	16	6	-7	469	447	99	16	8	5	831	919	99	17	1	-22	812	710	99
16	2	-16	590	658	99	16	4	-13	912	903	99	16	6	-6	2451	2374	99	16	8	6	-252	98	99	17	1	-21	1263	1172	99
16	2	-15	232	58	99	16	4	-12	903	867	99	16	6	-5	989	997	99	16	8	7	848	834	99	17	1	-20	434	386	99
16	2	-14	630	650	99	16	4	-11	1508	1528	99	16	6	-4	2653	2615	99	16	8	8	174	125	99	17	1	-19	1658	1550	99
16	2	-13	593	574	99	16	4	-10	1486	1410	99	16	6	-3	556	510	99	16	8	9	476	525	99	17	1	-18	1765	1719	99
16	2	-12	-131	225	99	16	4	-9	1070	1076	99	16	6	-2	371	361	99	16	8	10	172	245	99	17	1	-17	411	348	99
16	2	-11	387	344	99	16	4	-8	1002	1002	99	16	6	-1	401	377	99	16	8	11	-32	63	99	17	1	-16	1394	1408	99
16	2	-10	1807	1664	99	16	4	-7	691	648	99	16	6	0	1497	1513	99	16	8	12	-230	17	99	17	1	-15	-261	86	99
16	2	-9	-218	210	99	16	4	-6	261	236	99	16	6	1	433	411	99	16	8	13	141	140	99	17	1	-14	980	1057	99
16	2	-8	959	819	99	16	4	-5	-121	75	99	16	6	2	1360	1256	99	16	8	14	279	10	99	17	1	-13	1258	1243	99
16	2	-7	224	311	99	16	4	-4	225	305	99	16	6	3	-285	78	99	16	8	15	-237	20	99	17	1	-12	125	41	99
16	2	-6	1094	1029	99	16	4	-3	3025	3255	99	16	6	4	1351	1293	99	16	8	16	237	18	99	17	1	-11	3316	3367	99
16	2	-5	823	792	99	16	4	-2	1635	1767	99	16	6	5	294	232	99	16	10	-18	-103	7	99	17	1	-10	3629	3607	99
16	2	-4	3351	3130	99	16	4	-1	3122	3098	99	16	6	6	463	354	99	16	10	-17	-327	85	99	17	1	-9	1636	1431	99
16	2	-3	574	524	99	16	4	0	1324	1468	99	16	6	7	702	726	99	16	10	-16	346	236	99	17	1	-8	3295	3202	99
16	2	-2	290	284	99	16	4	1	723	699	99	16	6	8	640	652	99	16	10	-15	199	317	99	17	1	-7	336	176	99
16	2	-1	2275	2062	99	16	4	2	708	740	99	16	6	9	231	327	99	16	10	-14	398	432	99	17	1	-6	1907	1764	99
16	2	0	2763	2857	99	16	4	3	460	420	99	16	6	10	180	274	99	16	10	-13	255	348	99	17	1	-5	567	524	99
16	2	1	3214	3162	99	16	4	4	957	831	99	16	6	11	477	380	99	16	10	-12	459	445	99	17	1	-4	851	808	99
16	2	2	550	689	99	16	4	5	210	288	99	16	6	12	254	24	99	16	10	-11	525	452	99	17	1	-3	-202	194	99
16	2	3	2609	2525	99	16	4	6	1304	1191	99	16	6	13	213	135	99	16	10	-10	157	60	99	17	1	-2	1774	1798	99
16	2	4	1289	1294	99	16	4	7	996	923	99	16	6	14	127	63	99	16	10	-9	361	297	99	17	1	-1	812	909	99
16	2	5	-100	134	99	16	4	8	927	888	99	16	6	15	-260	164	99	16	10	-8	639	525	99	17	1	0	2502	2231	99
16	2	6	1172	1112	99	16	4	9	170	260	99	16	6	16	51	84	99	16	10	-7	251	112	99	17	1	1	406	414	99
16	2	7	1416	1511	99	16	4	10	762	662	99	16	6	17	-362	20	99	16	10	-6	851	874	99	17	1	2	1256	1158	99
16	2	8	402	456	99	16	4	11	-119	7	99	16	6	18	210	222	99	16	10	-5	229	15	99	17	1	3	-221	222	99
16	2	9	1662	1654	99	16	4	12	821	821	99	16	6	19	-251	16	99	16	10	-4	440	486	99	17	1	4	2882	2825	99
16	2	10	60	170	99	16	4	13	-183	146	99	16	8	-23	-318	208	99	16	10	-3	-297	197	99	17	1	5	797	689	99
16	2	11	2113	2089	99	16	4	14	1384	1346	99	16	8	-22	263	27	99	16	10	-2	292	175	99	17	1	6	1536	1746	99
16	2	12	269	275	99	16	4	15	115	107	99	16	8	-21	276	201	99	16	10	-1	165	45	99	17	1	7	1448	1374	99
16	2	13	970	1004	99	16	4	16	937	967	99	16	8	-20	352	215	99	16	10	0	597	515	99	17	1	8	1725	1797	99
16	2	14	-145	104	99	16	4	17	405	385	99	16	8	-19	-168	268	99	16	10	1	109	295	99	17	1	9	1904	1784	99
16	2	15	-364	282	99	16	4	18	207	145	99	16	8	-18	337	370	99	16	10	2	989	908	99	17	1	10	2705	2628	99
16	2	16	175	112	99	16	4	19	-234	67	99	16	8	-17	-71	198	99	16	10	3	452	376	99	17	1	11	611	730	99
16	2	17	845	858	99	16	4	20	447	385	99	16	8	-16	-202	210	99	16	10	4	564	531	99	17	1	12	1257	1264	99
16	2	18	592	523	99	16	4	21	264	337	99	16	8	-15	223	256	99	16	10	5	67	106	99	17	1	13	979	994	99
16	2	19	434	392	99	16	6	-26	-298	142	99	16	8	-14	517	511	99	16	10	6	214	13	99	17	1	14	557	512	99
16	2	20	371	348	99	16	6	-25	97	269	99	16	8	-13	1166	1088	99	16	10	7	-141	28	99	17	1	15	816	807	99
16	2	21	246	144	99	16	6	-24	212	180	99	16	8	-12	591	555	99	16	10	8	234	265	99	17	1	16	1071	1102	99
16	2	22	-312	43	99	16	6	-23	-351	128	99	16	8	-11	1454	1409	99	16	10	9	132	94	99	17	1	17	-154	17	99
16	2	23	-365	4	99	16	6	-22	113	83	99	16	8	-10	-43	49	99	16	10	10	322	155	99	17	1	18	340	328	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
17	1	19	154	165	99	17	5	-27	251	57	99	17	7	-18	101	291	99	17	9	-3	671	694	99	18	0	2	2910	3194	99
17	1	20	168	78	99	17	5	-26	508	531	99	17	7	-17	501	439	99	17	9	-2	379	305	99	18	0	4	1688	1582	99
17	1	21	308	279	99	17	5	-25	106	216	99	17	7	-16	227	269	99	17	9	-1	942	879	99	18	0	6	1417	1413	99
17	1	22	185	273	99	17	5	-24	644	590	99	17	7	-15	379	314	99	17	9	0	-254	58	99	18	0	8	355	293	99
17	3	-28	129	43	99	17	5	-23	388	330	99	17	7	-14	805	824	99	17	9	1	1203	1140	99	18	0	10	984	1020	99
17	3	-27	257	232	99	17	5	-22	302	144	99	17	7	-13	579	547	99	17	9	2	334	329	99	18	0	12	1028	1032	99
17	3	-26	398	322	99	17	5	-21	-215	96	99	17	7	-12	1370	1306	99	17	9	3	659	628	99	18	0	14	519	515	99
17	3	-25	202	265	99	17	5	-20	401	463	99	17	7	-11	572	536	99	17	9	4	463	518	99	18	0	16	-373	280	99
17	3	-24	578	541	99	17	5	-19	-232	23	99	17	7	-10	511	514	99	17	9	5	312	282	99	18	0	18	-44	393	99
17	3	-23	798	725	99	17	5	-18	620	667	99	17	7	-9	894	857	99	17	9	6	134	485	99	18	0	20	509	505	99
17	3	-22	692	632	99	17	5	-17	494	420	99	17	7	-8	52	353	99	17	9	7	593	570	99	18	0	22	268	331	99
17	3	-21	1091	1015	99	17	5	-16	1147	1172	99	17	7	-7	1823	1825	99	17	9	8	346	130	99	18	2	-28	227	277	99
17	3	-20	-59	279	99	17	5	-15	663	687	99	17	7	-6	1099	1059	99	17	9	9	628	623	99	18	2	-27	240	25	99
17	3	-19	492	475	99	17	5	-14	1321	1374	99	17	7	-5	990	1034	99	17	9	10	323	231	99	18	2	-26	246	131	99
17	3	-18	1123	1186	99	17	5	-13	996	994	99	17	7	-4	2652	2673	99	17	9	11	389	419	99	18	2	-25	335	292	99
17	3	-17	210	26	99	17	5	-12	476	436	99	17	7	-3	-278	155	99	17	9	12	237	352	99	18	2	-24	-409	62	99
17	3	-16	886	957	99	17	5	-11	302	195	99	17	7	-2	813	842	99	17	9	13	72	106	99	18	2	-23	441	365	99
17	3	-15	873	893	99	17	5	-10	675	637	99	17	7	-1	995	949	99	17	9	14	245	35	99	18	2	-22	198	182	99
17	3	-14	189	294	99	17	5	-9	265	154	99	17	7	0	523	468	99	17	11	-14	288	351	99	18	2	-21	148	110	99
17	3	-13	2533	2477	99	17	5	-8	252	185	99	17	7	1	537	513	99	17	11	-13	384	328	99	18	2	-20	750	750	99
17	3	-12	963	958	99	17	5	-7	1538	1461	99	17	7	2	1080	1103	99	17	11	-12	424	481	99	18	2	-19	757	765	99
17	3	-11	2876	2712	99	17	5	-6	1408	1384	99	17	7	3	185	142	99	17	11	-11	-216	187	99	18	2	-18	288	380	99
17	3	-10	2064	2069	99	17	5	-5	2008	1887	99	17	7	4	1879	1885	99	17	11	-10	165	243	99	18	2	-17	619	691	99
17	3	-9	1315	1278	99	17	5	-4	1473	1476	99	17	7	5	167	20	99	17	11	-9	-209	133	99	18	2	-16	193	55	99
17	3	-8	2306	2284	99	17	5	-3	1333	1384	99	17	7	6	736	744	99	17	11	-8	96	255	99	18	2	-15	501	521	99
17	3	-7	956	900	99	17	5	-2	1014	1020	99	17	7	7	506	627	99	17	11	-7	-326	126	99	18	2	-14	215	201	99
17	3	-6	447	563	99	17	5	-1	1580	1597	99	17	7	8	552	581	99	17	11	-6	559	581	99	18	2	-13	955	898	99
17	3	-5	1581	1638	99	17	5	0	191	287	99	17	7	9	394	374	99	17	11	-5	219	175	99	18	2	-12	930	959	99
17	3	-4	3504	3574	99	17	5	1	1517	1657	99	17	7	10	818	918	99	17	11	-4	735	777	99	18	2	-11	4707	4735	99
17	3	-3	3112	3168	99	17	5	2	295	297	99	17	7	11	-386	41	99	17	11	-3	247	103	99	18	2	-10	1855	1903	99
17	3	-2	498	503	99	17	5	3	1616	1547	99	17	7	12	654	669	99	17	11	-2	608	499	99	18	2	-9	5099	5026	99
17	3	-1	3817	3468	99	17	5	4	86	398	99	17	7	13	188	351	99	17	11	-1	192	216	99	18	2	-8	653	618	99
17	3	0	1421	1401	99	17	5	5	490	399	99	17	7	14	209	339	99	17	11	0	194	98	99	18	2	-7	1870	1789	99
17	3	1	688	545	99	17	5	6	1143	1105	99	17	7	15	-231	75	99	17	11	1	-374	137	99	18	2	-6	1979	1744	99
17	3	2	1461	1404	99	17	5	7	882	904	99	17	7	16	161	17	99	17	11	2	460	444	99	18	2	-5	1518	1435	99
17	3	3	160	169	99	17	5	8	406	303	99	17	7	17	238	25	99	17	11	3	249	23	99	18	2	-4	830	726	99
17	3	4	1942	1859	99	17	5	9	928	951	99	17	7	18	337	162	99	17	11	4	479	507	99	18	2	-3	4834	4592	99
17	3	5	716	695	99	17	5	10	102	109	99	17	9	-21	-207	297	99	17	11	5	-303	273	99	18	2	-2	150	79	99
17	3	6	1759	1689	99	17	5	11	57	256	99	17	9	-20	230	30	99	17	11	6	97	226	99	18	2	-1	6032	5536	99
17	3	7	1774	1710	99	17	5	12	-257	157	99	17	9	-19	135	28	99	17	11	7	185	358	99	18	2	0	156	33	99
17	3	8	416	356	99	17	5	13	194	227	99	17	9	-18	-204	147	99	18	0	-28	195	167	99	18	2	1	1518	1305	99
17	3	9	629	695	99	17	5	14	-80	266	99	17	9	-17	-131	110	99	18	0	-26	252	166	99	18	2	2	2370	2249	99
17	3	10	1943	1934	99	17	5	15	289	359	99	17	9	-16	309	233	99	18	0	-24	752	690	99	18	2	3	669	640	99
17	3	11	884	856	99	17	5	16	145	344	99	17	9	-15	-82	139	99	18	0	-22	829	760	99	18	2	4	1411	1230	99
17	3	12	142	240	99	17	5	17	-156	154	99	17	9	-14	-387	112	99	18	0	-20	557	518	99	18	2	5	1694	1655	99
17	3	13	1149	1082	99	17	5	18	194	22	99	17	9	-13	-147	289	99	18	0	-18	1108	1047	99	18	2	6	1797	1792	99
17	3	14	-259	222	99	17	5	19	306	162	99	17	9	-12	-103	229	99	18	0	-16	1580	1548	99	18	2	7	1415	1324	99
17	3	15	293	310	99	17	5	20	232	44	99	17	9	-11	703	623	99	18	0	-14	2299	2408	99	18	2	8	1939	2035	99
17	3	16	686	708	99	17	7	-25	229	168	99	17	9	-10	205	289	99	18	0	-12	3937	3778	99	18	2	9	614	598	99
17	3	17	486	471	99	17	7	-24	397	199	99	17	9	-9	439	459	99	18	0	-10	481	483	99	18	2	10	-248	172	99
17	3	18	394	438	99	17	7	-23	458	243	99	17	9	-8	-166	15	99	18	0	-8	3879	3875	99	18	2	11	969	946	99
17	3	19	407	351	99	17	7	-22	486	485	99	17	9	-7	514	458	99	18	0	-6	3597	4055	99	18	2	12	107	395	99
17	3	20	-272	10	99	17	7	-21	210	136	99	17	9	-6	321	301	99	18	0	-4	2602	2805	99	18	2	13	356	240	99
17	3	21	529	578	99	17	7	-20	527	513	99	17	9	-5	329	271	99	18	0	-2	1117	1355	99	18	2	14	268	273	99
17	3	22	-357	301	99	17	7	-19	-346	33	99	17	9	-4	641	639	99	18	0	0	3851	4347	99	18	2	15	548	459	99
18	2	16	761	770	99	18	4	20	-310	166	99	18	8	-16	-112	21	99	18	10	4	538	575	99	19	1	20	-391	103	99
18	2	17	428	364	99	18	4	21	179	40	99	18	8	-15	767	776	99	18	10	5	109	207	99	19	1	21	112	290	99
18	2	18	-616	32	99	18	6	-26	708	684	99	18	8	-14	230	30	99	18	10	6	583	607	99	19	1	22	-179	12	99
18	2	19	411	229	99	18	6	-25	202	125	99	18	8	-13	463	455	99	18	10	7	-97	9	99	19	3	-28	-89	190	99
18	2	20	-223	83	99	18	6	-24	336	462	99	18	8	-12	591	491	99	18	10	8	219	277	99	19	3	-27	-167	25	99
18	2	21	-133	176	99	18	6	-23	-189	188	99	18	8	-11	537	554	99	18	10	9	172	189	99	19	3	-26	70	225	99
18	2	22	193	87	99	18	6	-22	-367	81	99	18	8	-10	-44	73	99	18	10	10	-278	122	99	19	3	-25	575	597	99
18	4	-28	-288	189	99	18	6	-21	307	231	99	18	8	-9	43	61	99	19	1	-28	160	283	99	19	3	-24	-179	53	99
18	4	-27	231	180	99	18	6	-20	410	434	99	18	8	-8	638	608	99	19	1	-27	261	112	99	19	3	-23	358	344	99
18	4	-26	-269	180	99	18	6	-19	213	207	99	18	8	-7	377	270	99	19	1	-26	186	299	99	19	3	-22	-414	82	99
18	4	-25	47	295	99	18	6	-18	822	799	99	18	8	-6	426	334	99	19	1	-25	193	40	99	19	3	-21	205	173	99
18	4	-24	-236	223	99	18	6	-17	778	630	99	18	8	-5	-94	371	99	19	1	-24	-289	142	99	19	3	-20	473	486	99
18	4	-23	551	462	99	18	6	-16	705	706	99	18	8	-4	425	450	99	19	1	-23	-252	105	99	19	3	-19	872	872	99
18	4	-22	35	134	99	18	6	-15	879	873	99	18	8	-3	424	291	99	19	1	-22	132	229	99	19	3	-18	-112	213	99
18	4	-21	816	813	99	18	6	-14	853	810	99	18	8	-2	432	322	99	19	1	-21	354	337	99	19	3	-17	-319	171	99
18	4	-20	233	153	99	18	6	-13	376	306	99	18	8	-1	920	895	99	19	1	-20	104	106	99	19	3	-16	111	308	99
18	4	-19	-182	200	99	18	6	-12	599	534	99	18	8	0	177	38	99	19	1	-19	821	802	99	19	3	-15	486	459	99
18	4	-18	867	813	99	18	6	-11	340	304	99	18	8	1	728	697	99	19	1	-18	1295	1292	99	19	3	-14	192	235	99
18	4	-17	308	300	99	18	6	-10	263	320	99	18	8	2	223	108	99	19	1	-17	1104	1084	99	19	3	-13	669	704	99
18	4	-16	1122	1090	99	18	6	-9	799	746	99	18	8	3	1303	1233	99	19	1	-16	1020	1023	99	19	3	-12	1236	1225	99
18	4	-15	-106	25	99	18	6	-8	405	394	99	18	8	4	248	82	99	19	1	-15	1255	1274	99	19	3	-11	2571	2691	99
18	4	-14	1678	1625	99	18	6	-7	1186	1174	99	18	8	5	536	540	99	19	1	-14	267	288	99	19	3	-10	2202	2244	99
18	4	-13	1041	960	99	18	6	-6	346	335	99	18	8	6	-307	42	99	19	1	-13	1848	1788	99	19	3	-9	2728	2740	99
18	4	-12	1185	1169	99	18	6	-5	610	587	99	18	8	7	680	747	99	19	1	-12	1193	1225	99	19	3	-8	385	345	99
18	4	-11	1634	1596	99	18	6	-4	1435	1341	99	18	8	8	-123	127	99	19	1	-11	390	441	99	19	3	-7	570	565	99
18	4	-10	-200	66	99	18	6	-3	818	828	99	18	8	9	976	1020	99	19	1	-10	252	110	99	19	3	-6	-141	174	99
18	4	-9	410	331	99	18	6	-2	1295	1307	99	18	8	10	-396	48	99	19	1	-9	4898	4780	99	19	3	-5	1021	971	99
18	4	-8	993	1057	99	18	6	-1	1263	1290	99	18	8	11	845	922	99	19	1	-8	3501	3231	99	19	3	-4	-64	174	99
18	4	-7	1248	1198	99	18	6	0	994	986	99	18	8	12	-143	24	99	19	1	-7	2358	2191	99	19	3	-3	2849	2783	99
18	4	-6	1639	1680	99	18	6	1	467	519	99	18	8	13	499	541	99	19	1	-6	3326	3117	99	19	3	-2	1334	1222	99
18	4	-5	1137	1308	99	18	6	2	550	452	99	18	8	14	-109	148	99	19	1	-5	-121	184	99	19	3	-1	3230	3041	99
18	4	-4	397	345	99	18	6	3	-133	44	99	18	8	15	-401	177	99	19	1	-4	2449	2531	99	19	3	0	1542	1434	99
18	4	-3	557	627	99	18	6	4	426	526	99	18	8	16	-297	81	99	19	1	-3	381	116	99	19	3	1	3319	3050	99
18	4	-2	143	116	99	18	6	5	347	371	99	18	10	-18	260	324	99	19	1	-2	3052	3119	99	19	3	2	309	359	99
18	4	-1	707	674	99	18	6	6	1403	1516	99	18	10	-17	-150	76	99	19	1	-1	1645	1872	99	19	3	3	674	626	99
18	4	0	1867	1842	99	18	6	7	102	8	99	18	10	-16	211	164	99	19	1	0	1301	1092	99	19	3	4	1556	1460	99
18	4	1	1611	1587	99	18	6	8	1170	1145	99	18	10	-15	210	85	99	19	1	1	2927	3088	99	19	3	5	1292	1087	99
18	4	2	1389	1347	99	18	6	9	611	545	99	18	10	-14	-280	105	99	19	1	2	1702	1765	99	19	3	6	187	165	99
18	4	3	630	585	99	18	6	10	247	87	99	18	10	-13	213	90	99	19	1	3	1412	1337	99	19	3	7	1665	1553	99
18	4	4	448	468	99	18	6	11	1126	1072	99	18	10	-12	-269	137	99	19	1	4	2156	1948	99	19	3	8	1050	1048	99
18	4	5	1685	1596	99	18	6	12	561	524	99	18	10	-11	244	407	99	19	1	5	852	893	99	19	3	9	1918	1875	99
18	4	6	133	119	99	18	6	13	566	645	99	18	10	-10	115	230	99	19	1	6	1535	1517	99	19	3	10	957	946	99
18	4	7	219	243	99	18	6	14	588	587	99	18	10	-9	493	437	99	19	1	7	1451	1399	99	19	3	11	779	626	99
18	4	8	579	403	99	18	6	15	-182	45	99	18	10	-8	249	330	99	19	1	8	172	159	99	19	3	12	604	501	99
18	4	9	2048	2060	99	18	6	16	611	578	99	18	10	-7	161	49	99	19	1	9	362	202	99	19	3	13	-79	12	99
18	4	10	758	644	99	18	6	17	-310	149	99	18	10	-6	212	156	99	19	1	10	1253	1233	99	19	3	14	328	537	99
18	4	11	1005	975	99	18	6	18	228	41	99	18	10	-5	151	72	99	19	1	11	718	792	99	19	3	15	155	78	99
18	4	12	112	38	99	18	6	19	-161	159	99	18	10	-4	475	417	99	19	1	12	810	827	99	19	3	16	224	171	99
18	4	13	643	535	99	18	8	-23	512	613	99	18	10	-3	198	59	99	19	1	13	344	303	99	19	3	17	-154	59	99
18	4	14	-229	94	99	18	8	-22	-385	87	99	18	10	-2	245	381	99	19	1	14	823	794	99	19	3	18	591	502	99
18	4	15	559	442	99	18	8	-21	422	465	99	18	10	-1	12	19	99	19	1	15	242	393	99	19	3	19	245	298	99
18	4	16	378	409	99	18	8	-20	-104	75	99	18	10	0	319	237	99	19	1	16	423	321	99	19	3	20	259	193	99
18	4	17	516	507	99	18	8	-19	-204	207	99	18	10	1	149	169	99	19	1	17	241	265	99	19	3	21	-7	229	99
18	4	18	-250	213	99	18	8	-18	228	90	99	18	10	2	276	31	99	19	1	18	-221	221	99	19	5	-27	510	501	99
18	4	19	290	264	99	18	8	-17	474	431	99	18	10	3	-437	217	99	19	1	19	646	581	99	19	5	-26	846	776	99

h	k	l	Fo	Fc	sigF2
19	5	-25	266	117	99
19	5	-24	619	588	99
19	5	-23	434	442	99
19	5	-22	293	334	99
19	5	-21	532	446	99
19	5	-20	-135	46	99
19	5	-19	823	826	99
19	5	-18	850	826	99
19	5	-17	-43	284	99
19	5	-16	1456	1421	99
19	5	-15	1027	1047	99
19	5	-14	1835	1783	99
19	5	-13	1525	1483	99
19	5	-12	1269	1185	99
19	5	-11	1229	1227	99
19	5	-10	-173	165	99
19	5	-9	25	109	99
19	5	-8	-268	255	99
19	5	-7	301	265	99
19	5	-6	606	570	99
19	5	-5	767	747	99
19	5	-4	1306	1310	99
19	5	-3	1292	1406	99
19	5	-2	1336	1325	99
19	5	-1	751	713	99
19	5	0	1018	965	99
19	5	1	1127	1134	99
19	5	2	127	17	99
19	5	3	169	163	99
19	5	4	-51	141	99
19	5	5	1870	1870	99
19	5	6	439	469	99
19	5	7	694	740	99
19	5	8	688	847	99
19	5	9	-114	105	99
19	5	10	209	139	99
19	5	11	589	579	99
19	5	12	593	545	99
19	5	13	547	614	99
19	5	14	453	336	99
19	5	15	566	516	99
19	5	16	619	603	99
19	5	17	-356	82	99
19	5	18	390	371	99
19	5	19	306	406	99
19	7	-25	235	11	99
19	7	-24	189	388	99
19	7	-23	327	389	99
19	7	-22	200	188	99
19	7	-21	539	489	99
19	7	-20	155	28	99
19	7	-19	635	672	99
19	7	-18	541	482	99
19	7	-17	862	806	99
19	7	-16	1202	1159	99
19	7	-15	479	516	99
19	7	-14	684	681	99
19	7	-13	275	280	99
19	7	-12	480	380	99
19	7	-11	670	681	99
19	7	-10	411	400	99
19	7	-9	353	378	99
19	7	-8	1147	1115	99
19	7	-7	226	268	99
19	7	-6	869	846	99
19	7	-5	-202	250	99
19	7	-4	243	6	99
19	7	-3	447	437	99
19	7	-2	148	92	99
19	7	-1	718	683	99
19	7	0	409	385	99
19	7	1	196	295	99
19	7	2	468	425	99
19	7	3	424	434	99
19	7	4	48	31	99
19	7	5	311	419	99
19	7	6	473	572	99
19	7	7	-96	268	99
19	7	8	238	292	99
19	7	9	170	154	99
19	7	10	204	185	99
19	7	11	79	157	99
19	7	12	-100	64	99
19	7	13	254	174	99
19	7	14	140	208	99
19	7	15	322	264	99
19	7	16	503	485	99
19	7	17	29	40	99
19	9	-21	505	589	99
19	9	-20	-332	240	99
19	9	-19	382	363	99
19	9	-18	373	189	99
19	9	-17	63	28	99
19	9	-16	204	162	99
19	9	-15	581	549	99
19	9	-14	236	115	99
19	9	-13	753	649	99
19	9	-12	236	496	99
19	9	-11	601	601	99
19	9	-10	694	713	99
19	9	-9	467	474	99
19	9	-8	232	295	99
19	9	-7	313	145	99
19	9	-6	263	160	99
19	9	-5	146	310	99
19	9	-4	-254	26	99
19	9	-3	-122	126	99
19	9	-2	351	281	99
19	9	-1	-99	181	99
19	9	0	385	397	99
19	9	1	-32	292	99
19	9	2	-141	179	99
19	9	3	239	301	99
19	9	4	118	148	99
19	9	5	-326	362	99
19	9	6	344	327	99
19	9	7	-149	202	99
19	9	8	274	316	99
19	9	9	466	446	99
19	9	10	140	156	99
19	9	11	433	524	99
19	9	12	203	123	99
19	9	13	410	417	99
19	11	-14	326	365	99
19	11	-13	205	49	99
19	11	-12	165	295	99
19	11	-11	-216	101	99
19	11	-10	-295	74	99
19	11	-9	207	265	99
19	11	-8	332	341	99
19	11	-7	-190	328	99
19	11	-6	-240	525	99
19	11	-5	-213	184	99
19	11	-4	349	335	99
19	11	-3	288	178	99
19	11	-2	-342	133	99
19	11	-1	-387	24	99
19	11	0	-401	30	99
19	11	1	198	349	99
19	11	2	218	315	99
19	11	3	222	116	99
19	11	4	415	375	99
19	11	5	-202	115	99
19	11	6	363	248	99
20	0	-28	663	569	99
20	0	-26	933	942	99
20	0	-24	597	682	99
20	0	-22	449	426	99
20	0	-20	1471	1395	99
20	0	-18	462	480	99
20	0	-16	201	86	99
20	0	-14	649	724	99
20	0	-12	1209	1178	99
20	0	-10	1010	1006	99
20	0	-8	219	300	99
20	0	-6	3022	3114	99
20	0	-4	3224	3386	99
20	0	-2	4853	5826	99
20	0	0	7545	8040	99
20	0	2	-169	394	99
20	0	4	2613	2604	99
20	0	6	2367	2496	99
20	0	8	2606	2590	99
20	0	10	178	28	99
20	0	12	539	493	99
20	0	14	803	819	99
20	0	16	564	598	99
20	0	18	184	294	99
20	0	20	683	632	99
20	0	22	-121	279	99
20	2	-28	292	268	99
20	2	-27	223	90	99
20	2	-26	295	138	99
20	2	-25	533	568	99
20	2	-24	203	44	99
20	2	-23	645	604	99
20	2	-22	352	230	99
20	2	-21	1150	1088	99
20	2	-20	192	262	99
20	2	-19	-230	21	99
20	2	-18	379	241	99
20	2	-17	145	8	99
20	2	-16	993	956	99
20	2	-15	-270	18	99
20	2	-14	166	88	99
20	2	-13	42	62	99
20	2	-12	-141	82	99
20	2	-11	515	543	99
20	2	-10	1123	1128	99
20	2	-9	2273	2202	99
20	2	-8	2207	2179	99
20	2	-7	2926	2702	99
20	2	-6	2780	2683	99
20	2	-5	1131	1058	99
20	2	-4	2060	1886	99
20	2	-3	-25	30	99
20	2	-2	1777	1379	99
20	2	-1	1129	1215	99
20	2	0	-249	291	99
20	2	1	5491	5527	99
20	2	2	733	570	99
20	2	3	2080	2245	99
20	2	4	-108	247	99
20	2	5	554	573	99
20	2	6	80	178	99
20	2	7	869	829	99
20	2	8	-220	29	99
20	2	9	2187	2145	99
20	2	10	488	443	99
20	2	11	954	906	99
20	2	12	210	12	99
20	2	13	322	270	99
20	2	14	212	269	99
20	2	15	232	257	99
20	2	16	138	102	99
20	2	17	698	531	99
20	2	18	443	459	99
20	2	19	506	376	99
20	2	20	-314	126	99
20	2	21	67	14	99
20	4	-28	464	372	99
20	4	-27	627	583	99
20	4	-26	615	654	99
20	4	-25	110	34	99
20	4	-24	177	321	99
20	4	-23	372	315	99
20	4	-22	-83	238	99
20	4	-21	-258	242	99
20	4	-20	764	759	99
20	4	-19	1341	1174	99
20	4	-18	626	655	99
20	4	-17	1257	1269	99
20	4	-16	-234	79	99
20	4	-15	-363	255	99
20	4	-14	581	596	99
20	4	-13	597	719	99
20	4	-12	578	556	99
20	4	-11	1727	1743	99
20	4	-10	154	14	99
20	4	-9	1258	1319	99
20	4	-8	-232	129	99
20	4	-7	542	468	99
20	4	-6	805	783	99
20	4	-5	207	26	99
20	4	-4	1166	1212	99
20	4	-3	2238	2222	99
20	4	-2	1350	1377	99
20	4	-1	2595	2581	99
20	4	0	1660	1660	99
20	4	1	1033	952	99
20	4	2	-149	113	99
20	4	3	744	748	99
20	4	4	1824	1732	99
20	4	5	904	872	99
20	4	6	1796	1716	99
20	4	7	515	598	99
20	4	8	1398	1297	99
20	4	9	792	758	99
20	4	10	141	352	99
20	4	11	243	31	99
20	4	12	1093	1157	99
20	4	13	163	98	99
20	4	14	1268	1243	99
20	4	15	224	282	99
20	4	16	-84	506	99
20	4	17	232	540	99
20	4	18	-241	15	99
20	4	19	-103	228	99
20	4	20	394	423	99
20	6	-26	304	580	99
20	6	-25	183	206	99
20	6	-24	631	688	99
20	6	-23	220	276	99
20	6	-22	424	462	99
20	6	-21	169	20	99
20	6	-20	467	424	99
20	6	-19	253	241	99
20	6	-18	524	449	99
20	6	-17	267	454	99
20	6	-16	1631	1707	99
20	6	-15	95	294	99
20	6	-14	1546	1582	99
20	6	-13	464	490	99
20	6	-12	1097	1178	99
20	6	-11	314	268	99
20	6	-10	119	15	99
20	6	-9	713	700	99
20	6	-8	1581	1535	99
20	6	-7	592	569	99
20	6	-6	1712	1713	99
20	6	-5	2013	2060	99
20	6	-4	1260	1255	99
20	6	-3	287	281	99
20	6	-2	606	616	99
20	6	-1	183	204	99
20	6	0	1056	1133	99
20	6	1	747	664	99
20	6	2	1160	1174	99
20	6	3	133	18	99
20	6	4	-324	58	99
20	6	5	560	598	99
20	6	6	273	233	99
20	6	7	565	562	99
20	6	8	295	155	99
20	6	9	816	752	99
20	6	10	-375	178	99
20	6	11	543	490	99
20	6	12	147	161	99
20	6	13	242	173	99
20	6	14	-292	122	99
20	6	15	-380	101	99
20	6	16	-274	216	99
20	6	17	-323	148	99
20	6	18	525	649	99
20	8	-23	-303	295	99
20	8	-22	-129	179	99
20	8	-21	260	457	99
20	8	-20	-318	15	99
20	8	-19	653	651	99
20	8	-18	-325	163	99
20	8	-17	102	315	99
20	8	-16	328	233	99
20	8	-15	235	225	99
20	8	-14	258	303	99
20	8	-13	1054	966	99
20	8	-12	316	412	99
20	8	-11	1383	1368	99
20	8	-10	237	130	99
20	8	-9	1007	993	99
20	8	-8	252	242	99
20	8	-7	120	185	99
20	8	-6	915	911	99
20	8	-5	703	714	99
20	8	-4	-193	125	99
20	8	-3	1065	1048	99
20	8	-2	-40	148	99
20	8	-1	1048	1107	99
20	8	0	252	190	99
20	8	1	-237	288	99
20	8	2	847	822	99
20	8	3	-98	328	99
20	8	4	404	412	99
20	8	5	-29	256	99
20	8	6	244	216	99
20	8	7	365	377	99
20	8	8	393	413	99
20	8	9	-284	340	99
20	8	10	165	113	99
20	8	11	-197	277	99
20	8	12	233	46	99
20	8	13	121	351	99
20	8	14	-209	59	99
20	8	15	-182	338	99
20	10	-18	200	243	99
20	10	-17	-187	21	99
20	10	-16	466	472	99
20	10	-15	308	151	99
20	10	-14	553	596	99
20	10	-13	-238	172	99
20	10	-12	408	417	99
20	10	-11	-192	262	99
20	10	-10	-89	16	99
20	10	-9	-32	256	99
20	10	-8	666	653	99
20	10	-7	332	272	99
20	10	-6	731	707	99
20	10	-5	-281	21	99
20	10	-4	-134	179	99
20	10	-3	185	128	99
20	10	-2	-229	93	99
20	10	-1	208	155	99
20	10	0	184	330	99
20	10	1	685	658	99
20	10	2	-154	434	99
20	10	3	597	612	99
20	10	4	154	73	99
20	10	5	34	251	99
20	10	6	-237	0	99
20	10	7	85	57	99
20	10	8	-204	5	99
20	10	9	-115	60	99
20	10	10	-128	76	99
21	1	-28	256	319	99
21	1	-27	251	416	99
21	1	-26	849	807	99
21	1	-25	187	128	99
21	1	-24	802	760	99
21	1	-23	66	95	99
21	1	-22	354	373	99
21	1	-21	1624	1538	99
21	1	-20	1337	1272	99
21	1	-19	1282	1313	99
21	1	-18	1782	1792	99
21	1	-17	468	544	99
21	1	-16	2083	2180	99
21	1	-15	422	454	99
21	1	-14	1391	1380	99
21	1	-13	1338	1336	99
21	1	-12	-321	162	99
21	1	-11	1229	1148	99
21	1	-10	745	652	99
21	1	-9	1944	1795	99
21	1	-8	1490	1498	99
21	1	-7	1192	1101	99
21	1	-6	1672	1596	99
21	1	-5	811	773	99
21	1	-4	699	713	99
21	1	-3	450	464	99
21	1	-2	143	106	99
21	1	-1	2965	2939	99
21	1	0	1400	1560	99
21	1	1	1171	1007	99
21	1	2	-81	302	99
21	1	3	625	729	99
21	1	4	1595	1514	99
21	1	5	615	625	99
21	1	6	1754	1807	99
21	1	7	1926	1784	99
21	1	8	2333	2258	99
21	1	9	410	342	99
21	1	10	2061	1956	99
21	1	11	669	723	99
21	1	12	305	87	99
21	1	13	903	811	99
21	1	14	802	823	99
21	1	15	608	572	99
21	1	16	562	563	99
21	1	17	222	161	99
21	1	18	503	425	99
21	1	19	447	411	99
21	1	20	217	30	99
21	1	21	270	276	99
21	3	-28	327	266	99
21	3	-27	383	315	99
21	3	-26	265	360	99
21	3	-25	-364	185	99
21	3	-24	544	488	99
21	3	-23	846	707	99
21	3	-22	929	1007	99
21	3	-21	862	829	99
21	3	-20	101	336	99
21	3	-19	409	444	99
21	3	-18	774	806	99
21	3	-17	561	579	99
21	3	-16	145	376	99
21	3	-15	679	687	99
21	3	-14	847	817	99
21	3	-13	1349	1371	99
21	3	-12	1695	1636	99
21	3	-11	1516	1514	99
21	3	-10	846	822	99
21	3	-9	2781	2818	99
21	3	-8	123	244	99
21	3	-7	694	684	99
21	3	-6	1757	1686	99
21	3	-5	603	610	99
21	3	-4	3381	3227	99
21	3	-3	1885	1813	99
21	3	-2	3368	3068	99
21	3	-1	1643	1626	99
21	3	0	1423	1359	99
21	3	1	1873	1662	99
21	3	2	1405	1396	99
21	3	3	789	748	99
21	3	4	310	413	99
21	3	5	-301	133	99
21	3	6	419	316	99
21	3	7	469	568	99
21	3	8	1296	1322	99
21	3	9	-88	434	99
21	3	10	968	812	99
21	3	11	1070	1092	99
21	3	12	66	8	99
21	3	13	598	576	99
21	3	14	597	628	99
21	3	15	-198	191	99
21	3	16	1088	1082	99
21	3	17	-221	10	99
21	3	18	-397	295	99
21	3	19	454	456	99
21	3	20	300	243	99
21	5	-28	104	146	99
21	5	-27	-326	104	99
21	5	-26	888	796	99
21	5	-25	240	238	99
21	5	-24	1004	939	99
21	5	-23	509	539	99
21	5	-22	423	347	99
21	5	-21	-304	5	99
21	5	-20	231	20	99
21	5	-19	349	226	99
21	5	-18	121	65	99
21	5	-17	797	749	99
21	5	-16	1217	1265	99
21	5	-15	1412	1363	99
21	5	-14	834	818	99
21	5	-13	733	717	99
21	5	-12	750	789	99
21	5	-11	-157	71	99
21	5	-10	1176	1210	99
21	5	-9	796	715	99
21	5	-8	190	21	99
21	5	-7	1802	1863	99
21	5	-6	439	404	99
21	5	-5	1004	1004	99
21	5	-4	796	838	99
21	5	-3	980	957	99
21	5	-2	481	404	99
21	5	-1	2178	2265	99
21	5	0	311	365	99
21	5	1	1742	1703	99
21	5	2	569	479	99
21	5	3	922	850	99
21	5	4	570	582	99
21	5	5	-242	33	99
21	5	6	1403	1283	99
21	5	7	805	764	99
21	5	8	698	630	99
21	5	9	148	260	99
21	5	10	-345	208	99
21	5	11	-196	83	99
21	5	12	300	290	99
21	5	13	228	379	99
21	5	14	484	387	99
21	5	15	116	291	99
21	5	16	258	159	99
21	5	17	288	263	99
21	5	18	396	371	99
21	5	19	-139	312	99
21	7	-25	-331	71	99
21	7	-24	-22	36	99
21	7	-23	318	191	99
21	7	-22	263	42	99
21	7	-21	-255	156	99
21	7	-20	235	209	99
21	7	-19	318	288	99
21	7	-18	331	295	99
21	7	-17	852	783	99
21	7	-16	237	171	99
21	7	-15	429	392	99
21	7	-14	1033	998	99
21	7	-13	266	71	99
21	7	-12	1177	1158	99
21	7	-11	915	867	99
21	7	-10	760	765	99
21	7	-9	1382	1401	99
21	7	-8	-299	54	99
21	7	-7	1263	1275	99
21	7	-6	1829	1773	99
21	7	-5	816	824	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
21	7	-4	1440	1433	99	21	11	-13	194	141	99	22	2	-17	1519	1604	99	22	4	-11	592	450	99	22	6	-2	1568	1631	99
21	7	-3	322	314	99	21	11	-12	503	514	99	22	2	-16	636	638	99	22	4	-10	333	194	99	22	6	-1	897	907	99
21	7	-2	567	478	99	21	11	-11	-248	50	99	22	2	-15	133	264	99	22	4	-9	857	823	99	22	6	0	811	796	99
21	7	-1	884	957	99	21	11	-10	199	243	99	22	2	-14	1123	1152	99	22	4	-8	531	575	99	22	6	1	480	453	99
21	7	0	495	544	99	21	11	-9	-118	33	99	22	2	-13	1241	1253	99	22	4	-7	2458	2512	99	22	6	2	185	252	99
21	7	1	348	370	99	21	11	-8	292	303	99	22	2	-12	224	190	99	22	4	-6	245	411	99	22	6	3	602	649	99
21	7	2	1629	1693	99	21	11	-7	-265	139	99	22	2	-11	3170	3105	99	22	4	-5	1468	1537	99	22	6	4	1264	1296	99
21	7	3	-176	110	99	21	11	-6	807	914	99	22	2	-10	346	339	99	22	4	-4	184	292	99	22	6	5	-318	96	99
21	7	4	1019	1083	99	21	11	-5	41	113	99	22	2	-9	2735	2660	99	22	4	-3	656	703	99	22	6	6	1710	1742	99
21	7	5	229	48	99	21	11	-4	753	787	99	22	2	-8	454	472	99	22	4	-2	1101	1067	99	22	6	7	460	460	99
21	7	6	236	166	99	21	11	-3	252	241	99	22	2	-7	1077	1070	99	22	4	-1	632	690	99	22	6	8	1092	1076	99
21	7	7	204	283	99	21	11	-2	561	525	99	22	2	-6	543	527	99	22	4	0	532	468	99	22	6	9	644	626	99
21	7	8	376	403	99	21	11	-1	301	310	99	22	2	-5	2005	1826	99	22	4	1	1890	1821	99	22	6	10	-152	185	99
21	7	9	372	349	99	21	11	0	230	237	99	22	2	-4	1340	1337	99	22	4	2	203	241	99	22	6	11	575	506	99
21	7	10	538	625	99	21	11	1	23	75	99	22	2	-3	4044	3829	99	22	4	3	1586	1547	99	22	6	12	371	475	99
21	7	11	215	130	99	21	11	2	180	241	99	22	2	-2	1760	1624	99	22	4	4	221	216	99	22	6	13	313	115	99
21	7	12	550	555	99	21	11	3	-266	175	99	22	2	-1	1161	1134	99	22	4	5	856	806	99	22	6	14	459	495	99
21	7	13	91	165	99	21	11	4	268	331	99	22	2	0	325	368	99	22	4	6	-220	163	99	22	6	15	141	301	99
21	7	14	-385	34	99	21	11	5	-135	258	99	22	2	1	-193	147	99	22	4	7	537	496	99	22	6	16	71	127	99
21	7	15	272	170	99	22	0	-28	-125	110	99	22	2	2	200	53	99	22	4	8	346	282	99	22	6	17	164	279	99
21	7	16	-241	59	99	22	0	-26	527	385	99	22	2	3	876	789	99	22	4	9	1389	1367	99	22	8	-23	327	400	99
21	9	-21	123	258	99	22	0	-24	875	830	99	22	2	4	539	456	99	22	4	10	279	205	99	22	8	-22	226	229	99
21	9	-20	78	70	99	22	0	-22	1027	907	99	22	2	5	115	254	99	22	4	11	995	882	99	22	8	-21	154	390	99
21	9	-19	287	273	99	22	0	-20	978	930	99	22	2	6	1350	1250	99	22	4	12	256	15	99	22	8	-20	168	203	99
21	9	-18	150	104	99	22	0	-18	1834	1731	99	22	2	7	357	317	99	22	4	13	230	233	99	22	8	-19	168	201	99
21	9	-17	389	222	99	22	0	-16	3561	3524	99	22	2	8	839	769	99	22	4	14	-238	441	99	22	8	-18	299	193	99
21	9	-16	-393	94	99	22	0	-14	2978	3004	99	22	2	9	1161	1113	99	22	4	15	287	223	99	22	8	-17	241	88	99
21	9	-15	-222	208	99	22	0	-12	1724	1797	99	22	2	10	333	223	99	22	4	16	271	497	99	22	8	-16	-110	105	99
21	9	-14	-225	89	99	22	0	-10	-228	96	99	22	2	11	261	43	99	22	4	17	151	129	99	22	8	-15	241	81	99
21	9	-13	224	42	99	22	0	-8	632	689	99	22	2	12	406	381	99	22	4	18	367	430	99	22	8	-14	-371	89	99
21	9	-12	267	40	99	22	0	-6	3132	3104	99	22	2	13	609	562	99	22	4	19	136	86	99	22	8	-13	191	175	99
21	9	-11	325	269	99	22	0	-4	2210	2479	99	22	2	14	94	237	99	22	6	-26	544	578	99	22	8	-12	143	194	99
21	9	-10	-217	93	99	22	0	-2	759	927	99	22	2	15	601	671	99	22	6	-25	138	228	99	22	8	-11	-45	325	99
21	9	-9	608	467	99	22	0	0	756	728	99	22	2	16	-238	100	99	22	6	-24	690	717	99	22	8	-10	-232	66	99
21	9	-8	248	156	99	22	0	2	1827	2008	99	22	2	17	745	573	99	22	6	-23	-333	160	99	22	8	-9	394	364	99
21	9	-7	877	870	99	22	0	4	1623	1567	99	22	2	18	274	288	99	22	6	-22	-169	286	99	22	8	-8	-145	187	99
21	9	-6	299	346	99	22	0	6	1115	1163	99	22	2	19	-241	37	99	22	6	-21	330	199	99	22	8	-7	679	678	99
21	9	-5	-138	86	99	22	0	8	-150	184	99	22	2	20	-289	159	99	22	6	-20	23	202	99	22	8	-6	373	465	99
21	9	-4	619	643	99	22	0	10	1714	1680	99	22	4	-28	-115	8	99	22	6	-19	610	599	99	22	8	-5	486	560	99
21	9	-3	529	514	99	22	0	12	623	615	99	22	4	-27	316	240	99	22	6	-18	207	95	99	22	8	-4	374	341	99
21	9	-2	-217	364	99	22	0	14	-295	34	99	22	4	-26	-159	212	99	22	6	-17	772	749	99	22	8	-3	271	190	99
21	9	-1	690	623	99	22	0	16	344	337	99	22	4	-25	180	74	99	22	6	-16	524	426	99	22	8	-2	212	334	99
21	9	0	301	151	99	22	0	18	633	617	99	22	4	-24	546	535	99	22	6	-15	665	683	99	22	8	-1	778	735	99
21	9	1	871	931	99	22	0	20	326	370	99	22	4	-23	776	780	99	22	6	-14	1374	1162	99	22	8	0	-385	68	99
21	9	2	-55	328	99	22	2	-28	155	17	99	22	4	-22	710	670	99	22	6	-13	75	20	99	22	8	1	1243	1115	99
21	9	3	390	433	99	22	2	-27	454	418	99	22	4	-21	755	835	99	22	6	-12	795	727	99	22	8	2	-141	5	99
21	9	4	226	251	99	22	2	-26	210	15	99	22	4	-20	-361	10	99	22	6	-11	624	612	99	22	8	3	1062	1113	99
21	9	5	176	291	99	22	2	-25	578	586	99	22	4	-19	369	320	99	22	6	-10	407	253	99	22	8	4	458	477	99
21	9	6	198	227	99	22	2	-24	-389	45	99	22	4	-18	527	430	99	22	6	-9	764	685	99	22	8	5	57	168	99
21	9	7	449	494	99	22	2	-23	-193	187	99	22	4	-17	706	620	99	22	6	-8	399	362	99	22	8	6	-175	220	99
21	9	8	-139	45	99	22	2	-22	454	490	99	22	4	-16	1051	1028	99	22	6	-7	184	44	99	22	8	7	476	500	99
21	9	9	231	559	99	22	2	-21	1099	1056	99	22	4	-15	527	581	99	22	6	-6	519	624	99	22	8	8	-311	58	99
21	9	10	356	356	99	22	2	-20	1025	1141	99	22	4	-14	877	903	99	22	6	-5	1159	1048	99	22	8	9	866	878	99
21	9	11	363	373	99	22	2	-19	1277	1245	99	22	4	-13	1448	1399	99	22	6	-4	1903	1826	99	22	8	10	178	145	99
21	9	12	163	130	99	22	2	-18	-133	187	99	22	4	-12	437	453	99	22	6	-3	826	824	99	22	8	11	746	795	99
22	8	12	-87	174	99	23	1	-4	4113	4163	99	23	3	2	1479	1320	99	23	5	8	1247	1278	99	23	9	-18	220	99	99
22	8	13	219	163	99	23	1	-3	1453	1511	99	23	3	3	-77	97	99	23	5	9	720	737	99	23	9	-17	-412	47	99
22	8	14	-80	81	99	23	1	-2	2788	2798	99	23	3	4	1437	1383	99	23	5	10	-211	300	99	23	9	-16	141	112	99
22	10	-18	376	309	99	23	1	-1	2725	2850	99	23	3	5	892	778	99	23	5	11	803	877	99	23	9	-15	107	297	99
22	10	-17	-281	154	99	23	1	0	1682	1540	99	23	3	6	284	241	99	23	5	12	396	408	99	23	9	-14	253	85	99
22	10	-16	267	158	99	23	1	1	730	711	99	23	3	7	1279	1236	99	23	5	13	715	631	99	23	9	-13	169	225	99
22	10	-15	-174	13	99	23	1	2	771	578	99	23	3	8	1203	1273	99	23	5	14	311	272	99	23	9	-12	309	363	99
22	10	-14	196	40	99	23	1	3	565	486	99	23	3	9	1157	1060	99	23	5	15	326	210	99	23	9	-11	326	36	99
22	10	-13	256	230	99	23	1	4	1211	1171	99	23	3	10	352	304	99	23	5	16	454	425	99	23	9	-10	238	237	99
22	10	-12	234	211	99	23	1	5	917	851	99	23	3	11	716	681	99	23	5	17	280	283	99	23	9	-9	-83	227	99
22	10	-11	351	174	99	23	1	6	1196	1155	99	23	3	12	195	39	99	23	5	18	110	202	99	23	9	-8	-207	218	99
22	10	-10	128	129	99	23	1	7	1859	1748	99	23	3	13	342	312	99	23	7	-25	292	161	99	23	9	-7	-209	76	99
22	10	-9	489	534	99	23	1	8	824	804	99	23	3	14	-190	27	99	23	7	-24	446	488	99	23	9	-6	-203	246	99
22	10	-8	-323	129	99	23	1	9	691	700	99	23	3	15	330	362	99	23	7	-23	433	326	99	23	9	-5	273	327	99
22	10	-7	-39	458	99	23	1	10	439	325	99	23	3	16	118	443	99	23	7	-22	387	372	99	23	9	-4	220	189	99
22	10	-6	-240	282	99	23	1	11	145	313	99	23	3	17	-86	44	99	23	7	-21	419	580	99	23	9	-3	177	123	99
22	10	-5	354	271	99	23	1	12	387	306	99	23	3	18	-127	117	99	23	7	-20	-80	27	99	23	9	-2	153	180	99
22	10	-4	575	599	99	23	1	13	428	294	99	23	3	19	-262	57	99	23	7	-19	582	573	99	23	9	-1	182	248	99
22	10	-3	159	103	99	23	1	14	190	349	99	23	3	20	187	197	99	23	7	-18	171	270	99	23	9	0	-468	95	99
22	10	-2	674	601	99	23	1	15	-195	276	99	23	5	-28	276	190	99	23	7	-17	864	864	99	23	9	1	502	497	99
22	10	-1	256	100	99	23	1	16	220	153	99	23	5	-27	285	318	99	23	7	-16	526	497	99	23	9	2	185	280	99
22	10	0	294	363	99	23	1	17	805	723	99	23	5	-26	458	537	99	23	7	-15	746	741	99	23	9	3	829	879	99
22	10	1	322	293	99	23	1	18	149	34	99	23	5	-25	232	144	99	23	7	-14	352	279	99	23	9	4	286	198	99
22	10	2	-412	8	99	23	1	19	510	565	99	23	5	-24	961	862	99	23	7	-13	348	350	99	23	9	5	489	527	99
22	10	3	557	626	99	23	1	20	-131	173	99	23	5	-23	739	655	99	23	7	-12	167	56	99	23	9	6	174	163	99
22	10	4	447	393	99	23	3	-28	197	56	99	23	5	-22	857	788	99	23	7	-11	457	388	99	23	9	7	58	122	99
22	10	5	204	299	99	23	3	-27	82	14	99	23	5	-21	701	813	99	23	7	-10	252	168	99	23	9	8	-160	302	99
22	10	6	-314	387	99	23	3	-26	-216	316	99	23	5	-20	-142	10	99	23	7	-9	237	66	99	23	9	9	391	433	99
22	10	7	193	36	99	23	3	-25	212	248	99	23	5	-19	202	132	99	23	7	-8	449	482	99	23	9	10	249	59	99
22	10	8	178	169	99	23	3	-24	252	129	99	23	5	-18	227	250	99	23	7	-7	735	717	99	23	9	11	207	373	99
22	10	9	-289	121	99	23	3	-23	196	63	99	23	5	-17	529	430	99	23	7	-6	321	394	99	23	11	-13	-293	10	99
23	1	-28	193	342	99	23	3	-22	254	232	99	23	5	-16	680	588	99	23	7	-5	119	155	99	23	11	-12	-218	379	99
23	1	-27	-158	96	99	23	3	-21	849	880	99	23	5	-15	1037	918	99	23	7	-4	337	396	99	23	11	-11	-39	172	99
23	1	-26	237	69	99	23	3	-20	909	806	99	23	5	-14	1393	1321	99	23	7	-3	364	243	99	23	11	-10	-166	281	99
23	1	-25	437	347	99	23	3	-19	1034	1078	99	23	5	-13	1512	1539	99	23	7	-2	352	281	99	23	11	-9	-80	226	99
23	1	-24	223	384	99	23	3	-18	520	556	99	23	5	-12	470	448	99	23	7	-1	886	910	99	23	11	-8	-193	140	99
23	1	-23	324	236	99	23	3	-17	611	645	99	23	5	-11	271	387	99	23	7	0	250	289	99	23	11	-7	115	162	99
23	1	-22	711	708	99	23	3	-16	439	519	99	23	5	-10	302	396	99	23	7	1	706	797	99	23	11	-6	212	404	99
23	1	-21	618	634	99	23	3	-15	595	664	99	23	5	-9	84	176	99	23	7	2	-227	161	99	23	11	-5	85	78	99
23	1	-20	-116	29	99	23	3	-14	712	777	99	23	5	-8	179	136	99	23	7	3	-185	333	99	23	11	-4	-169	438	99
23	1	-19	1779	1797	99	23	3	-13	1005	1049	99	23	5	-7	-229	224	99	23	7	4	219	327	99	23	11	-3	268	87	99
23	1	-18	1309	1180	99	23	3	-12	1071	1067	99	23	5	-6	886	898	99	23	7	5	485	532	99	23	11	-2	-93	216	99
23	1	-17	1499	1514	99	23	3	-11	1954	1960	99	23	5	-5	2122	2204	99	23	7	6	910	998	99	23	11	-1	215	134	99
23	1	-16	1223	1013	99	23	3	-10	833	882	99	23	5	-4	1652	1628	99	23	7	7	470	412	99	23	11	0	240	124	99
23	1	-15	1027	1000	99	23	3	-9	1444	1406	99	23	5	-3	1711	1789	99	23	7	8	594	603	99	23	11	1	327	273	99
23	1	-14	1007	1023	99	23	3	-8	336	351	99	23	5	-2	1598	1556	99	23	7	9	226	349	99	23	11	2	188	5	99
23	1	-13	1313	1412	99	23	3	-7	2012	1986	99	23	5	-1	1119	1050	99	23	7	10	278	255	99	23	11	3	167	58	99
23	1	-12	2040	1921	99	23	3	-6	1683	1603	99	23	5	0	799	777	99	23	7	11	254	464	99	24	0	-28	987	965	99
23	1	-11	2151	1987	99	23	3	-5	605	639	99	23	5	1	183	171	99	23	7	12	-308	86	99	24	0	-26	824	816	99
23	1	-10	491	410	99	23	3	-4	284	379	99	23	5	2	507	513	99	23	7	13	-294	148	99	24	0	-24	390	862	99
23	1	-9	4233	4119	99	23	3	-3	1566	1455	99	23	5	3	1422	1521	99	23	7	14	333	366	99	24	0	-22	632	593	99
23	1	-8	1586	1477	99	23	3	-2	468	199	99	23	5	4	820	787	99	23	7	15	141	201	99	24	0	-20	199	190	99
23	1	-7	2176	2137	99	23	3	-1	1741	1729	99	23	5	5	1599	1617	99	23	9	-21	437	435	99	24	0	-18	1026	1024	99
23	1	-6	2822	2454	99	23	3	0	959	950	99	23	5	6	1011	1055	99	23	9	-20	-231	182	99	24	0	-16	794	741	99
23	1	-5	701	716	99	23	3	1	1454	1359	99	23	5	7	695	628	99	23	9	-19	183	225	99	24	0	-14	-353	296	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
24	0	-12	2173	1946	99	24	2	10	272	59	99	24	4	16	-284	10	99	24	8	-15	62	28	99	24	10	8	32	109	99
24	0	-10	2307	2217	99	24	2	11	-141	77	99	24	4	17	172	88	99	24	8	-14	264	199	99	25	1	-28	611	613	99
24	0	-8	936	953	99	24	2	12	-414	146	99	24	4	18	247	320	99	24	8	-13	614	663	99	25	1	-27	-333	243	99
24	0	-6	2037	2051	99	24	2	13	117	223	99	24	4	19	-38	233	99	24	8	-12	279	192	99	25	1	-26	871	873	99
24	0	-4	3839	4297	99	24	2	14	-324	18	99	24	6	-26	317	400	99	24	8	-11	762	756	99	25	1	-25	147	5	99
24	0	-2	5410	5834	99	24	2	15	-127	254	99	24	6	-25	41	63	99	24	8	-10	183	64	99	25	1	-24	593	596	99
24	0	0	3245	3300	99	24	2	16	357	261	99	24	6	-24	906	801	99	24	8	-9	704	706	99	25	1	-23	238	27	99
24	0	2	615	645	99	24	2	17	396	415	99	24	6	-23	260	29	99	24	8	-8	733	650	99	25	1	-22	600	611	99
24	0	4	1866	1787	99	24	2	18	237	174	99	24	6	-22	934	871	99	24	8	-7	17	109	99	25	1	-21	907	960	99
24	0	6	3230	3336	99	24	2	19	-102	10	99	24	6	-21	-259	142	99	24	8	-6	442	425	99	25	1	-20	106	98	99
24	0	8	1692	1534	99	24	2	20	155	22	99	24	6	-20	-357	119	99	24	8	-5	283	319	99	25	1	-19	1581	1706	99
24	0	10	435	440	99	24	4	-28	222	288	99	24	6	-19	164	291	99	24	8	-4	239	115	99	25	1	-18	1744	1963	99
24	0	12	-109	114	99	24	4	-27	558	499	99	24	6	-18	695	679	99	24	8	-3	533	466	99	25	1	-17	-341	29	99
24	0	14	862	774	99	24	4	-26	77	217	99	24	6	-17	280	375	99	24	8	-2	146	230	99	25	1	-16	1379	1513	99
24	0	16	306	267	99	24	4	-25	348	232	99	24	6	-16	1265	1270	99	24	8	-1	669	757	99	25	1	-15	500	480	99
24	0	18	581	573	99	24	4	-24	-167	146	99	24	6	-15	618	555	99	24	8	0	271	290	99	25	1	-14	919	1014	99
24	0	20	224	328	99	24	4	-23	396	401	99	24	6	-14	1545	1634	99	24	8	1	-222	92	99	25	1	-13	702	767	99
24	2	-28	173	185	99	24	4	-22	198	80	99	24	6	-13	101	40	99	24	8	2	315	166	99	25	1	-12	1341	1353	99
24	2	-27	192	176	99	24	4	-21	1180	1112	99	24	6	-12	640	719	99	24	8	3	-136	15	99	25	1	-11	742	822	99
24	2	-26	-186	169	99	24	4	-20	389	332	99	24	6	-11	608	561	99	24	8	4	166	102	99	25	1	-10	1037	1064	99
24	2	-25	28	25	99	24	4	-19	1452	1365	99	24	6	-10	608	551	99	24	8	5	271	426	99	25	1	-9	1019	911	99
24	2	-24	424	345	99	24	4	-18	286	13	99	24	6	-9	432	350	99	24	8	6	237	276	99	25	1	-8	717	546	99
24	2	-23	245	61	99	24	4	-17	731	797	99	24	6	-8	1393	1386	99	24	8	7	230	163	99	25	1	-7	1669	1333	99
24	2	-22	414	448	99	24	4	-16	1087	1046	99	24	6	-7	1434	1364	99	24	8	8	336	345	99	25	1	-6	922	852	99
24	2	-21	-232	368	99	24	4	-15	157	108	99	24	6	-6	1051	1027	99	24	8	9	-184	63	99	25	1	-5	684	442	99
24	2	-20	115	10	99	24	4	-14	1079	1090	99	24	6	-5	862	920	99	24	8	10	275	126	99	25	1	-4	986	1031	99
24	2	-19	817	842	99	24	4	-13	623	665	99	24	6	-4	1412	1411	99	24	8	11	107	261	99	25	1	-3	273	386	99
24	2	-18	539	553	99	24	4	-12	183	166	99	24	6	-3	-37	278	99	24	8	12	-177	204	99	25	1	-2	1275	1365	99
24	2	-17	362	291	99	24	4	-11	1914	2114	99	24	6	-2	519	498	99	24	8	13	350	433	99	25	1	-1	902	848	99
24	2	-16	620	668	99	24	4	-10	-56	289	99	24	6	-1	239	369	99	24	10	-18	156	289	99	25	1	0	2002	2178	99
24	2	-15	304	254	99	24	4	-9	1487	1542	99	24	6	0	468	535	99	24	10	-17	207	119	99	25	1	1	1887	1820	99
24	2	-14	772	730	99	24	4	-8	1307	1400	99	24	6	1	428	296	99	24	10	-16	240	558	99	25	1	2	446	380	99
24	2	-13	426	412	99	24	4	-7	-225	70	99	24	6	2	-69	99	99	24	10	-15	-291	39	99	25	1	3	2377	2377	99
24	2	-12	846	835	99	24	4	-6	305	58	99	24	6	3	145	184	99	24	10	-14	684	680	99	25	1	4	796	702	99
24	2	-11	1028	953	99	24	4	-5	953	803	99	24	6	4	-87	83	99	24	10	-13	260	50	99	25	1	5	2007	2094	99
24	2	-10	460	523	99	24	4	-4	1675	1579	99	24	6	5	202	229	99	24	10	-12	342	385	99	25	1	6	1887	1819	99
24	2	-9	2561	2360	99	24	4	-3	205	266	99	24	6	6	449	390	99	24	10	-11	-174	140	99	25	1	7	1607	1519	99
24	2	-8	135	374	99	24	4	-2	963	923	99	24	6	7	427	467	99	24	10	-10	-244	86	99	25	1	8	2422	2446	99
24	2	-7	3801	3601	99	24	4	-1	1302	1305	99	24	6	8	940	979	99	24	10	-9	200	370	99	25	1	9	179	329	99
24	2	-6	160	76	99	24	4	0	305	308	99	24	6	9	178	344	99	24	10	-8	348	303	99	25	1	10	814	790	99
24	2	-5	2068	1990	99	24	4	1	271	337	99	24	6	10	785	797	99	24	10	-7	-117	412	99	25	1	11	496	473	99
24	2	-4	717	709	99	24	4	2	884	820	99	24	6	11	378	323	99	24	10	-6	-316	267	99	25	1	12	252	171	99
24	2	-3	51	10	99	24	4	3	172	282	99	24	6	12	215	421	99	24	10	-5	-161	415	99	25	1	13	714	767	99
24	2	-2	539	525	99	24	4	4	2264	2208	99	24	6	13	-170	107	99	24	10	-4	-148	22	99	25	1	14	710	640	99
24	2	-1	2229	2362	99	24	4	5	995	933	99	24	6	14	256	48	99	24	10	-3	220	129	99	25	1	15	339	380	99
24	2	0	108	187	99	24	4	6	2283	2236	99	24	6	15	-248	8	99	24	10	-2	-322	59	99	25	1	16	669	639	99
24	2	1	2031	1945	99	24	4	7	1370	1457	99	24	6	16	174	476	99	24	10	-1	272	283	99	25	1	17	266	353	99
24	2	2	975	913	99	24	4	8	908	874	99	24	8	-23	236	79	99	24	10	0	214	86	99	25	1	18	275	151	99
24	2	3	1555	1567	99	24	4	9	-349	29	99	24	8	-22	222	250	99	24	10	1	604	610	99	25	1	19	158	304	99
24	2	4	1150	1068	99	24	4	10	274	279	99	24	8	-21	554	559	99	24	10	2	-127	121	99	25	1	20	214	177	99
24	2	5	-71	249	99	24	4	11	270	346	99	24	8	-20	-228	45	99	24	10	3	758	795	99	25	3	-28	286	231	99
24	2	6	1184	1183	99	24	4	12	673	718	99	24	8	-19	721	696	99	24	10	4	-182	181	99	25	3	-27	429	410	99
24	2	7	1762	1589	99	24	4	13	174	376	99	24	8	-18	-240	108	99	24	10	5	248	347	99	25	3	-26	-313	13	99
24	2	8	-247	196	99	24	4	14	585	504	99	24	8	-17	515	466	99	24	10	6	-136	77	99	25	3	-25	-259	239	99
24	2	9	1258	1293	99	24	4	15	304	511	99	24	8	-16	-146	223	99	24	10	7	-360	2	99	25	3	-24	198	167	99
25	3	-23	193	15	99	25	5	-16	610	597	99	25	7	-4	1091	1096	99	25	11	-9	-151	3	99	26	2	-9	1718	1741	99
25	3	-22	167	3	99	25	5	-15	1304	1262	99	25	7	-3	-270	35	99	25	11	-8	162	246	99	26	2	-8	799	757	99
25	3	-21	185	256	99	25	5	-14	749	784	99	25	7	-2	-244	184	99	25	11	-7	148	136	99	26	2	-7	303	336	99
25	3	-20	461	345	99	25	5	-13	186	220	99	25	7	-1	1032	1066	99	25	11	-6	685	703	99	26	2	-6	339	362	99
25	3	-19	1189	1202	99	25	5	-12	1243	1229	99	25	7	0	713	646	99	25	11	-5	209	41	99	26	2	-5	1214	1220	99
25	3	-18	695	731	99	25	5	-11	1055	969	99	25	7	1	481	518	99	25	11	-4	699	688	99	26	2	-4	1581	1380	99
25	3	-17	535	498	99	25	5	-10	414	535	99	25	7	2	797	968	99	25	11	-3	-301	268	99	26	2	-3	1820	1635	99
25	3	-16	437	230	99	25	5	-9	1434	1470	99	25	7	3	-111	89	99	25	11	-2	-328	444	99	26	2	-2	292	336	99
25	3	-15	-193	34	99	25	5	-8	439	475	99	25	7	4	186	236	99	25	11	-1	310	116	99	26	2	-1	271	378	99
25	3	-14	2108	2004	99	25	5	-7	852	959	99	25	7	5	160	89	99	25	11	0	242	141	99	26	2	0	-84	74	99
25	3	-13	287	95	99	25	5	-6	-135	59	99	25	7	6	295	88	99	25	11	1	159	88	99	26	2	1	179	35	99
25	3	-12	1885	1894	99	25	5	-5	576	602	99	25	7	7	-422	104	99	25	11	2	148	5	99	26	2	2	1173	1118	99
25	3	-11	1366	1317	99	25	5	-4	1371	1329	99	25	7	8	70	28	99	26	0	-28	234	178	99	26	2	3	534	494	99
25	3	-10	225	140	99	25	5	-3	690	619	99	25	7	9	259	18	99	26	0	-26	976	969	99	26	2	4	-59	265	99
25	3	-9	1790	1797	99	25	5	-2	1667	1681	99	25	7	10	-222	198	99	26	0	-24	636	622	99	26	2	5	607	423	99
25	3	-8	1324	1267	99	25	5	-1	1715	1762	99	25	7	11	213	74	99	26	0	-22	694	679	99	26	2	6	-230	88	99
25	3	-7	434	484	99	25	5	0	198	232	99	25	7	12	-327	77	99	26	0	-20	406	502	99	26	2	7	1435	1362	99
25	3	-6	1328	1300	99	25	5	1	1221	1199	99	25	7	13	106	143	99	26	0	-18	2223	2230	99	26	2	8	234	17	99
25	3	-5	487	276	99	25	5	2	256	380	99	25	7	14	336	441	99	26	0	-16	4052	4064	99	26	2	9	-277	262	99
25	3	-4	2249	2233	99	25	5	3	-101	156	99	25	7	15	-116	178	99	26	0	-14	3136	3104	99	26	2	10	471	503	99
25	3	-3	1031	1036	99	25	5	4	825	824	99	25	9	-21	-200	157	99	26	0	-12	1515	1588	99	26	2	11	49	196	99
25	3	-2	206	336	99	25	5	5	314	232	99	25	9	-20	-157	49	99	26	0	-10	1796	1692	99	26	2	12	336	278	99
25	3	-1	2048	1982	99	25	5	6	1226	1177	99	25	9	-19	271	373	99	26	0	-8	707	640	99	26	2	13	914	874	99
25	3	0	1908	1772	99	25	5	7	-194	162	99	25	9	-18	182	161	99	26	0	-6	1235	1382	99	26	2	14	235	327	99
25	3	1	1451	1442	99	25	5	8	1246	1161	99	25	9	-17	405	324	99	26	0	-4	408	189	99	26	2	15	975	916	99
25	3	2	836	832	99	25	5	9	-173	200	99	25	9	-16	219	8	99	26	0	-2	384	495	99	26	2	16	277	186	99
25	3	3	1443	1289	99	25	5	10	548	527	99	25	9	-15	249	274	99	26	0	0	2223	2353	99	26	2	17	450	359	99
25	3	4	547	627	99	25	5	11	-446	85	99	25	9	-14	358	372	99	26	0	2	1277	1372	99	26	2	18	262	132	99
25	3	5	1299	1170	99	25	5	12	216	102	99	25	9	-13	245	78	99	26	0	4	184	196	99	26	2	19	262	275	99
25	3	6	982	1026	99	25	5	13	218	364	99	25	9	-12	179	108	99	26	0	6	-359	129	99	26	4	-28	-170	146	99
25	3	7	735	611	99	25	5	14	-304	255	99	25	9	-11	225	179	99	26	0	8	1622	1654	99	26	4	-27	302	254	99
25	3	8	1115	1101	99	25	5	15	-487	229	99	25	9	-10	-420	138	99	26	0	10	753	707	99	26	4	-26	-127	102	99
25	3	9	-339	371	99	25	5	16	-246	146	99	25	9	-9	610	614	99	26	0	12	335	383	99	26	4	-25	-150	43	99
25	3	10	129	213	99	25	5	17	139	339	99	25	9	-8	-158	225	99	26	0	14	385	230	99	26	4	-24	-122	215	99
25	3	11	454	508	99	25	7	-25	332	315	99	25	9	-7	847	738	99	26	0	16	778	832	99	26	4	-23	549	533	99
25	3	12	230	122	99	25	7	-24	-407	18	99	25	9	-6	-77	30	99	26	0	18	607	746	99	26	4	-22	224	262	99
25	3	13	273	337	99	25	7	-23	255	33	99	25	9	-5	150	153	99	26	2	-28	187	150	99	26	4	-21	376	385	99
25	3	14	991	815	99	25	7	-22	486	501	99	25	9	-4	195	190	99	26	2	-27	665	595	99	26	4	-20	131	217	99
25	3	15	-360	13	99	25	7	-21	-231	132	99	25	9	-3	383	169	99	26	2	-26	-112	96	99	26	4	-19	570	579	99
25	3	16	640	600	99	25	7	-20	542	591	99	25	9	-2	-341	196	99	26	2	-25	90	266	99	26	4	-18	294	234	99
25	3	17	184	161	99	25	7	-19	238	252	99	25	9	-1	516	597	99	26	2	-24	-404	297	99	26	4	-17	1412	1464	99
25	3	18	240	132	99	25	7	-18	434	379	99	25	9	0	195	178	99	26	2	-23	186	129	99	26	4	-16	788	773	99
25	3	19	-281	354	99	25	7	-17	745	777	99	25	9	1	607	643	99	26	2	-22	72	133	99	26	4	-15	648	699	99
25	5	-28	-365	44	99	25	7	-16	223	60	99	25	9	2	145	291	99	26	2	-21	723	649	99	26	4	-14	255	291	99
25	5	-27	-288	115	99	25	7	-15	408	401	99	25	9	3	-120	260	99	26	2	-20	296	123	99	26	4	-13	567	487	99
25	5	-26	492	402	99	25	7	-14	978	909	99	25	9	4	-444	47	99	26	2	-19	2421	2541	99	26	4	-12	298	360	99
25	5	-25	-367	172	99	25	7	-13	200	238	99	25	9	5	123	13	99	26	2	-18	323	379	99	26	4	-11	662	601	99
25	5	-24	671	622	99	25	7	-12	720	703	99	25	9	6	263	163	99	26	2	-17	1895	2076	99	26	4	-10	192	327	99
25	5	-23	437	360	99	25	7	-11	832	881	99	25	9	7	-71	282	99	26	2	-16	1004	1045	99	26	4	-9	2025	1892	99
25	5	-22	266	365	99	25	7	-10	-279	123	99	25	9	8	291	186	99	26	2	-15	513	380	99	26	4	-8	816	902	99
25	5	-21	518	438	99	25	7	-9	1345	1372	99	25	9	9	371	435	99	26	2	-14	898	990	99	26	4	-7	1910	1934	99
25	5	-20	-100	338	99	25	7	-8	925	856	99	25	9	10	354	327	99	26	2	-13	1463	1385	99	26	4	-6	131	25	99
25	5	-19	904	779	99	25	7	-7	904	855	99	25	11	-12	419	495	99	26	2	-12	879	821	99	26	4	-5	1355	1293	99
25	5	-18	375	244	99	25	7	-6	1558	1497	99	25	11	-11	167	54	99	26	2	-11	1351	1376	99	26	4	-4	639	708	99
25	5	-17	1136	1092	99	25	7	-5	483	536	99	25	11	-10	-163	250	99	26	2	-10	1768	1768	99	26	4	-3	1425	1393	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
26	4	-2	890	900	99	26	6	8	1067	1057	99	26	10	-7	715	725	99	27	1	13	482	460	99	27	5	-27	214	196	99
26	4	-1	1319	1239	99	26	6	9	509	571	99	26	10	-6	171	218	99	27	1	14	-181	87	99	27	5	-26	56	323	99
26	4	0	872	937	99	26	6	10	111	324	99	26	10	-5	618	423	99	27	1	15	767	763	99	27	5	-25	309	58	99
26	4	1	1794	1800	99	26	6	11	-53	178	99	26	10	-4	504	523	99	27	1	16	213	36	99	27	5	-24	596	588	99
26	4	2	828	746	99	26	6	12	282	235	99	26	10	-3	409	367	99	27	1	17	754	727	99	27	5	-23	693	639	99
26	4	3	502	473	99	26	6	13	380	351	99	26	10	-2	531	504	99	27	1	18	254	248	99	27	5	-22	483	445	99
26	4	4	479	452	99	26	6	14	325	59	99	26	10	-1	-370	36	99	27	1	19	-154	193	99	27	5	-21	427	517	99
26	4	5	209	147	99	26	6	15	136	253	99	26	10	0	86	285	99	27	3	-28	294	169	99	27	5	-20	-287	72	99
26	4	6	-88	219	99	26	6	16	-262	117	99	26	10	1	501	441	99	27	3	-27	466	406	99	27	5	-19	363	120	99
26	4	7	321	248	99	26	8	-23	96	85	99	26	10	2	-297	68	99	27	3	-26	-154	220	99	27	5	-18	-140	16	99
26	4	8	568	567	99	26	8	-22	213	219	99	26	10	3	681	672	99	27	3	-25	542	523	99	27	5	-17	397	383	99
26	4	9	915	854	99	26	8	-21	247	131	99	26	10	4	-223	226	99	27	3	-24	384	445	99	27	5	-16	611	649	99
26	4	10	158	357	99	26	8	-20	418	382	99	26	10	5	60	406	99	27	3	-23	-179	171	99	27	5	-15	257	211	99
26	4	11	460	488	99	26	8	-19	157	226	99	26	10	6	34	149	99	27	3	-22	176	41	99	27	5	-14	1074	1051	99
26	4	12	215	143	99	26	8	-18	255	13	99	27	1	-28	-169	68	99	27	3	-21	420	500	99	27	5	-13	181	155	99
26	4	13	208	185	99	26	8	-17	-179	251	99	27	1	-27	355	256	99	27	3	-20	745	765	99	27	5	-12	196	82	99
26	4	14	424	337	99	26	8	-16	171	222	99	27	1	-26	247	439	99	27	3	-19	1107	1157	99	27	5	-11	-269	81	99
26	4	15	253	188	99	26	8	-15	280	434	99	27	1	-25	280	217	99	27	3	-18	-136	38	99	27	5	-10	256	87	99
26	4	16	427	315	99	26	8	-14	298	174	99	27	1	-24	716	733	99	27	3	-17	1449	1512	99	27	5	-9	207	296	99
26	4	17	171	163	99	26	8	-13	-209	130	99	27	1	-23	246	204	99	27	3	-16	345	194	99	27	5	-8	271	172	99
26	4	18	-188	245	99	26	8	-12	340	275	99	27	1	-22	1165	1133	99	27	3	-15	763	859	99	27	5	-7	1133	1090	99
26	6	-26	205	326	99	26	8	-11	437	361	99	27	1	-21	433	433	99	27	3	-14	600	682	99	27	5	-6	1292	1291	99
26	6	-25	282	273	99	26	8	-10	358	319	99	27	1	-20	1054	1089	99	27	3	-13	1061	1083	99	27	5	-5	1991	2059	99
26	6	-24	533	501	99	26	8	-9	629	575	99	27	1	-19	2301	2140	99	27	3	-12	143	56	99	27	5	-4	1794	1819	99
26	6	-23	-287	73	99	26	8	-8	-42	3	99	27	1	-18	194	57	99	27	3	-11	1366	1290	99	27	5	-3	1342	1302	99
26	6	-22	329	311	99	26	8	-7	897	928	99	27	1	-17	2181	2186	99	27	3	-10	517	338	99	27	5	-2	2481	2378	99
26	6	-21	221	300	99	26	8	-6	573	555	99	27	1	-16	1208	1085	99	27	3	-9	1708	1755	99	27	5	-1	128	54	99
26	6	-20	201	172	99	26	8	-5	817	895	99	27	1	-15	202	461	99	27	3	-8	2011	1864	99	27	5	0	1610	1682	99
26	6	-19	433	398	99	26	8	-4	123	77	99	27	1	-14	2026	1852	99	27	3	-7	1812	1865	99	27	5	1	1321	1307	99
26	6	-18	187	3	99	26	8	-3	-141	13	99	27	1	-13	675	525	99	27	3	-6	1711	1741	99	27	5	2	148	177	99
26	6	-17	748	772	99	26	8	-2	431	386	99	27	1	-12	1663	1466	99	27	3	-5	520	535	99	27	5	3	1567	1633	99
26	6	-16	754	732	99	26	8	-1	722	791	99	27	1	-11	2012	1883	99	27	3	-4	1144	1148	99	27	5	4	614	583	99
26	6	-15	190	292	99	26	8	0	-272	18	99	27	1	-10	1478	1490	99	27	3	-3	165	231	99	27	5	5	988	959	99
26	6	-14	1547	1402	99	26	8	1	1155	1286	99	27	1	-9	3304	3349	99	27	3	-2	231	231	99	27	5	6	785	873	99
26	6	-13	-303	357	99	26	8	2	-197	103	99	27	1	-8	-244	125	99	27	3	-1	526	481	99	27	5	7	171	133	99
26	6	-12	1089	991	99	26	8	3	612	688	99	27	1	-7	1667	1859	99	27	3	0	1076	942	99	27	5	8	1269	1285	99
26	6	-11	478	500	99	26	8	4	372	394	99	27	1	-6	1776	1814	99	27	3	1	1167	1106	99	27	5	9	784	644	99
26	6	-10	879	856	99	26	8	5	134	34	99	27	1	-5	240	22	99	27	3	2	-318	46	99	27	5	10	555	536	99
26	6	-9	425	462	99	26	8	6	-315	209	99	27	1	-4	2252	2278	99	27	3	3	62	65	99	27	5	11	1125	1023	99
26	6	-8	-238	180	99	26	8	7	220	215	99	27	1	-3	1553	1581	99	27	3	4	291	254	99	27	5	12	-144	11	99
26	6	-7	922	820	99	26	8	8	132	114	99	27	1	-2	1412	1406	99	27	3	5	471	411	99	27	5	13	493	388	99
26	6	-6	1122	1150	99	26	8	9	544	533	99	27	1	-1	251	335	99	27	3	6	-163	79	99	27	5	14	-420	122	99
26	6	-5	245	121	99	26	8	10	261	247	99	27	1	0	1473	1241	99	27	3	7	227	167	99	27	5	15	213	137	99
26	6	-4	1410	1554	99	26	8	11	392	447	99	27	1	1	394	316	99	27	3	8	657	674	99	27	5	16	201	87	99
26	6	-3	432	565	99	26	8	12	215	165	99	27	1	2	-58	129	99	27	3	9	227	76	99	27	7	-25	-326	76	99
26	6	-2	2024	2186	99	26	10	-17	214	180	99	27	1	3	-157	75	99	27	3	10	302	195	99	27	7	-24	388	362	99
26	6	-1	938	948	99	26	10	-16	198	1	99	27	1	4	453	458	99	27	3	11	563	470	99	27	7	-23	-488	160	99
26	6	0	1147	1215	99	26	10	-15	230	65	99	27	1	5	660	607	99	27	3	12	-217	460	99	27	7	-22	-120	81	99
26	6	1	212	15	99	26	10	-14	-88	248	99	27	1	6	81	37	99	27	3	13	574	590	99	27	7	-21	426	420	99
26	6	2	980	969	99	26	10	-13	203	116	99	27	1	7	72	214	99	27	3	14	521	512	99	27	7	-20	-49	68	99
26	6	3	264	52	99	26	10	-12	453	396	99	27	1	8	545	529	99	27	3	15	388	389	99	27	7	-19	155	164	99
26	6	4	1099	1138	99	26	10	-11	-22	275	99	27	1	9	991	969	99	27	3	16	141	231	99	27	7	-18	-74	136	99
26	6	5	747	705	99	26	10	-10	278	300	99	27	1	10	389	356	99	27	3	17	-201	302	99	27	7	-17	684	614	99
26	6	6	843	862	99	26	10	-9	548	550	99	27	1	11	244	266	99	27	3	18	251	8	99	27	7	-16	163	333	99
26	6	7	660	657	99	26	10	-8	-117	159	99	27	1	12	235	178	99	27	5	-28	-311	64	99	27	7	-15	368	345	99
27	7	-14	371	322	99	27	9	6	-348	139	99	28	2	-13	114	24	99	28	4	-5	734	671	99	28	6	6	160	175	99
27	7	-13	231	269	99	27	9	7	-229	31	99	28	2	-12	950	902	99	28	4	-4	1370	1244	99	28	6	7	-157	56	99
27	7	-12	262	82	99	27	9	8	159	187	99	28	2	-11	1057	1010	99	28	4	-3	222	62	99	28	6	8	957	944	99
27	7	-11	210	484	99	27	9	9	271	307	99	28	2	-10	-182	82	99	28	4	-2	1566	1466	99	28	6	9	162	159	99
27	7	-10	124	43	99	27	11	-11	140	122	99	28	2	-9	3289	3055	99	28	4	-1	458	355	99	28	6	10	1054	1139	99
27	7	-9	191	347	99	27	11	-10	243	317	99	28	2	-8	747	616	99	28	4	0	887	923	99	28	6	11	-362	44	99
27	7	-8	221	226	99	27	11	-9	104	218	99	28	2	-7	4209	4062	99	28	4	1	391	408	99	28	6	12	198	243	99
27	7	-7	467	476	99	27	11	-8	208	47	99	28	2	-6	222	207	99	28	4	2	936	783	99	28	6	13	241	292	99
27	7	-6	320	129	99	27	11	-7	337	187	99	28	2	-5	1426	1340	99	28	4	3	895	853	99	28	6	14	333	303	99
27	7	-5	615	652	99	27	11	-6	269	271	99	28	2	-4	321	41	99	28	4	4	1565	1555	99	28	6	15	-163	61	99
27	7	-4	519	603	99	27	11	-5	327	110	99	28	2	-3	-246	108	99	28	4	5	301	357	99	28	8	-23	134	8	99
27	7	-3	144	297	99	27	11	-4	270	249	99	28	2	-2	211	142	99	28	4	6	1251	1256	99	28	8	-22	148	89	99
27	7	-2	664	670	99	27	11	-3	-144	128	99	28	2	-1	1393	1369	99	28	4	7	1004	1052	99	28	8	-21	529	457	99
27	7	-1	475	419	99	27	11	-2	253	294	99	28	2	0	525	559	99	28	4	8	230	120	99	28	8	-20	-252	168	99
27	7	0	634	627	99	27	11	-1	-135	183	99	28	2	1	1146	1136	99	28	4	9	205	85	99	28	8	-19	462	529	99
27	7	1	797	840	99	27	11	0	-64	237	99	28	2	2	654	657	99	28	4	10	-150	100	99	28	8	-18	379	113	99
27	7	2	149	260	99	28	0	-28	695	713	99	28	2	3	684	681	99	28	4	11	770	850	99	28	8	-17	522	541	99
27	7	3	438	507	99	28	0	-26	767	800	99	28	2	4	778	766	99	28	4	12	329	327	99	28	8	-16	417	401	99
27	7	4	412	490	99	28	0	-24	717	751	99	28	2	5	-249	74	99	28	4	13	577	609	99	28	8	-15	195	289	99
27	7	5	198	410	99	28	0	-22	314	193	99	28	2	6	1063	1073	99	28	4	14	-332	107	99	28	8	-14	-90	181	99
27	7	6	489	650	99	28	0	-20	1327	1105	99	28	2	7	1315	1335	99	28	4	15	165	302	99	28	8	-13	205	319	99
27	7	7	396	410	99	28	0	-18	1428	1298	99	28	2	8	-81	92	99	28	4	16	107	253	99	28	8	-12	-136	70	99
27	7	8	615	644	99	28	0	-16	1110	953	99	28	2	9	-258	41	99	28	4	17	137	125	99	28	8	-11	453	558	99
27	7	9	344	306	99	28	0	-14	1812	1547	99	28	2	10	220	110	99	28	6	-26	-318	242	99	28	8	-10	-93	59	99
27	7	10	378	424	99	28	0	-12	2288	2126	99	28	2	11	272	177	99	28	6	-25	-150	86	99	28	8	-9	-171	262	99
27	7	11	301	362	99	28	0	-10	3998	4050	99	28	2	12	550	325	99	28	6	-24	711	696	99	28	8	-8	538	470	99
27	7	12	-436	50	99	28	0	-8	1691	1803	99	28	2	13	-263	14	99	28	6	-23	346	242	99	28	8	-7	-283	37	99
27	7	13	-168	77	99	28	0	-6	2341	2224	99	28	2	14	-351	318	99	28	6	-22	668	654	99	28	8	-6	614	574	99
27	7	14	244	248	99	28	0	-4	2971	3131	99	28	2	15	-409	169	99	28	6	-21	-279	99	99	28	8	-5	248	148	99
27	9	-20	-211	89	99	28	0	-2	3721	4063	99	28	2	16	255	270	99	28	6	-20	107	113	99	28	8	-4	82	275	99
27	9	-19	-238	130	99	28	0	0	1098	970	99	28	2	17	-21	38	99	28	6	-19	-14	152	99	28	8	-3	-161	125	99
27	9	-18	214	160	99	28	0	2	663	498	99	28	2	18	346	266	99	28	6	-18	486	530	99	28	8	-2	159	12	99
27	9	-17	-200	114	99	28	0	4	1948	1893	99	28	4	-28	-449	71	99	28	6	-17	-120	204	99	28	8	-1	-82	166	99
27	9	-16	418	196	99	28	0	6	2400	2334	99	28	4	-27	219	370	99	28	6	-16	924	983	99	28	8	0	-297	56	99
27	9	-15	275	125	99	28	0	8	-308	448	99	28	4	-26	76	58	99	28	6	-15	130	404	99	28	8	1	-147	214	99
27	9	-14	-345	191	99	28	0	10	495	594	99	28	4	-25	364	302	99	28	6	-14	1493	1578	99	28	8	2	608	551	99
27	9	-13	-306	110	99	28	0	12	434	406	99	28	4	-24	-153	120	99	28	6	-13	-257	144	99	28	8	3	370	536	99
27	9	-12	-220	94	99	28	0	14	688	668	99	28	4	-23	342	327	99	28	6	-12	673	765	99	28	8	4	520	521	99
27	9	-11	150	159	99	28	0	16	-302	9	99	28	4	-22	-238	65	99	28	6	-11	1032	1042	99	28	8	5	473	510	99
27	9	-10	235	41	99	28	0	18	195	110	99	28	4	-21	1111	1089	99	28	6	-10	720	670	99	28	8	6	-160	299	99
27	9	-9	212	129	99	28	2	-28	-349	69	99	28	4	-20	398	400	99	28	6	-9	567	610	99	28	8	7	385	476	99
27	9	-8	462	479	99	28	2	-27	-339	160	99	28	4	-19	871	921	99	28	6	-8	779	864	99	28	8	8	167	170	99
27	9	-7	532	560	99	28	2	-26	188	252	99	28	4	-18	705	693	99	28	6	-7	977	966	99	28	8	9	-296	144	99
27	9	-6	713	694	99	28	2	-25	243	235	99	28	4	-17	800	816	99	28	6	-6	813	797	99	28	8	10	62	31	99
27	9	-5	568	619	99	28	2	-24	598	630	99	28	4	-16	511	457	99	28	6	-5	-49	384	99	28	8	11	332	427	99
27	9	-4	229	209	99	28	2	-23	288	151	99	28	4	-15	1090	1182	99	28	6	-4	1008	965	99	28	10	-17	242	287	99
27	9	-3	304	269	99	28	2	-22	868	886	99	28	4	-14	97	355	99	28	6	-3	231	235	99	28	10	-16	392	442	99
27	9	-2	353	207	99	28	2	-21	487	357	99	28	4	-13	498	577	99	28	6	-2	749	671	99	28	10	-15	268	139	99
27	9	-1	390	342	99	28	2	-20	382	407	99	28	4	-12	823	784	99	28	6	-1	212	62	99	28	10	-14	509	442	99
27	9	0	380	336	99	28	2	-19	562	527	99	28	4	-11	1457	1596	99	28	6	0	914	874	99	28	10	-13	258	67	99
27	9	1	696	746	99	28	2	-18	130	317	99	28	4	-10	1523	1502	99	28	6	1	722	693	99	28	10	-12	320	328	99
27	9	2	-220	159	99	28	2	-17	1930	1919	99	28	4	-9	444	450	99	28	6	2	659	665	99	28	10	-11	-217	63	99
27	9	3	973	1075	99	28	2	-16	377	313	99	28	4	-8	1470	1533	99	28	6	3	-147	166	99	28	10	-10	-163	52	99
27	9	4	164	55	99	28	2	-15	1352	1284	99	28	4	-7	1133	1149	99	28	6	4	-394	46	99	28	10	-9	184	378	99
27	9	5	622	623	99	28	2	-14	1160	1227	99	28	4	-6	709	645	99	28	6	5	299	218	99	28	10	-8	-450	53	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
28	10	-7	605	627	99	29	1	14	303	504	99	29	5	-24	-272	385	99	29	7	-11	1107	1367	99	29	11	-9	260	30	99
28	10	-6	253	215	99	29	1	15	198	128	99	29	5	-23	-345	37	99	29	7	-10	-278	36	99	29	11	-8	378	247	99
28	10	-5	357	359	99	29	1	16	266	466	99	29	5	-22	296	209	99	29	7	-9	712	721	99	29	11	-7	-142	97	99
28	10	-4	-468	211	99	29	1	17	352	305	99	29	5	-21	777	705	99	29	7	-8	775	759	99	29	11	-6	511	449	99
28	10	-3	223	12	99	29	1	18	-455	16	99	29	5	-20	-164	23	99	29	7	-7	144	353	99	29	11	-5	411	276	99
28	10	-2	-36	6	99	29	3	-28	-333	106	99	29	5	-19	439	413	99	29	7	-6	683	739	99	29	11	-4	375	415	99
28	10	-1	-204	155	99	29	3	-27	198	313	99	29	5	-18	437	386	99	29	7	-5	239	217	99	29	11	-3	281	199	99
28	10	0	147	163	99	29	3	-26	-148	40	99	29	5	-17	723	741	99	29	7	-4	713	806	99	29	11	-2	104	171	99
28	10	1	196	459	99	29	3	-25	490	525	99	29	5	-16	534	465	99	29	7	-3	-58	63	99	30	0	-28	736	610	99
28	10	2	223	319	99	29	3	-24	399	366	99	29	5	-15	1101	1285	99	29	7	-2	203	278	99	30	0	-26	835	869	99
28	10	3	517	604	99	29	3	-23	170	271	99	29	5	-14	1582	1580	99	29	7	-1	248	248	99	30	0	-24	589	617	99
28	10	4	-193	228	99	29	3	-22	996	872	99	29	5	-13	170	148	99	29	7	0	162	230	99	30	0	-22	519	583	99
28	10	5	260	301	99	29	3	-21	541	494	99	29	5	-12	1737	1921	99	29	7	1	179	293	99	30	0	-20	105	704	99
29	1	-28	669	645	99	29	3	-20	212	375	99	29	5	-11	1108	1086	99	29	7	2	124	282	99	30	0	-18	856	793	99
29	1	-27	-62	44	99	29	3	-19	999	1038	99	29	5	-10	182	86	99	29	7	3	174	104	99	30	0	-16	755	742	99
29	1	-26	559	448	99	29	3	-18	288	387	99	29	5	-9	791	897	99	29	7	4	419	451	99	30	0	-14	399	545	99
29	1	-25	131	25	99	29	3	-17	1166	1232	99	29	5	-8	-94	93	99	29	7	5	339	90	99	30	0	-12	714	781	99
29	1	-24	505	598	99	29	3	-16	346	382	99	29	5	-7	433	515	99	29	7	6	173	132	99	30	0	-10	682	629	99
29	1	-23	258	209	99	29	3	-15	1741	1781	99	29	5	-6	-405	97	99	29	7	7	130	327	99	30	0	-8	992	846	99
29	1	-22	767	770	99	29	3	-14	864	882	99	29	5	-5	475	526	99	29	7	8	-170	85	99	30	0	-6	-69	44	99
29	1	-21	455	473	99	29	3	-13	346	325	99	29	5	-4	1115	1135	99	29	7	9	-228	257	99	30	0	-4	516	470	99
29	1	-20	553	459	99	29	3	-12	631	749	99	29	5	-3	875	932	99	29	7	10	324	200	99	30	0	-2	966	947	99
29	1	-19	960	1051	99	29	3	-11	1246	1279	99	29	5	-2	1699	1637	99	29	7	11	338	204	99	30	0	0	1272	1132	99
29	1	-18	468	192	99	29	3	-10	1409	1219	99	29	5	-1	922	903	99	29	7	12	599	643	99	30	0	2	1069	1032	99
29	1	-17	850	796	99	29	3	-9	142	149	99	29	5	0	1175	1107	99	29	7	13	-246	302	99	30	0	4	1026	1017	99
29	1	-16	-332	128	99	29	3	-8	2030	1881	99	29	5	1	262	295	99	29	9	-20	217	94	99	30	0	6	2186	2070	99
29	1	-15	-385	39	99	29	3	-7	880	726	99	29	5	2	626	592	99	29	9	-19	351	267	99	30	0	8	1710	1899	99
29	1	-14	1244	1269	99	29	3	-6	585	672	99	29	5	3	275	424	99	29	9	-18	236	259	99	30	0	10	504	521	99
29	1	-13	-154	173	99	29	3	-5	1030	876	99	29	5	4	525	486	99	29	9	-17	600	477	99	30	0	12	-187	189	99
29	1	-12	1543	1512	99	29	3	-4	706	746	99	29	5	5	178	122	99	29	9	-16	181	34	99	30	0	14	230	177	99
29	1	-11	222	221	99	29	3	-3	208	98	99	29	5	6	644	609	99	29	9	-15	-299	359	99	30	0	16	947	920	99
29	1	-10	1445	1352	99	29	3	-2	1317	1186	99	29	5	7	296	84	99	29	9	-14	208	190	99	30	0	18	364	433	99
29	1	-9	520	414	99	29	3	-1	854	734	99	29	5	8	577	568	99	29	9	-13	-387	120	99	30	2	-28	-250	42	99
29	1	-8	1977	1894	99	29	3	0	1507	1439	99	29	5	9	239	200	99	29	9	-12	189	232	99	30	2	-27	604	539	99
29	1	-7	1689	1425	99	29	3	1	784	873	99	29	5	10	591	700	99	29	9	-11	282	310	99	30	2	-26	-266	39	99
29	1	-6	408	467	99	29	3	2	532	527	99	29	5	11	142	216	99	29	9	-10	-251	88	99	30	2	-25	-92	233	99
29	1	-5	255	259	99	29	3	3	1989	1859	99	29	5	12	-250	53	99	29	9	-9	700	675	99	30	2	-24	377	437	99
29	1	-4	1150	1019	99	29	3	4	-301	93	99	29	5	13	157	96	99	29	9	-8	-162	140	99	30	2	-23	-293	151	99
29	1	-3	903	907	99	29	3	5	1583	1331	99	29	5	14	393	158	99	29	9	-7	790	758	99	30	2	-22	596	633	99
29	1	-2	1908	2108	99	29	3	6	976	1060	99	29	5	15	291	276	99	29	9	-6	192	174	99	30	2	-21	718	655	99
29	1	-1	829	785	99	29	3	7	478	367	99	29	5	16	336	88	99	29	9	-5	492	536	99	30	2	-20	890	891	99
29	1	0	1212	1325	99	29	3	8	481	456	99	29	7	-25	354	309	99	29	9	-4	236	284	99	30	2	-19	1863	1983	99
29	1	1	1492	1418	99	29	3	9	397	349	99	29	7	-24	-420	240	99	29	9	-3	-199	57	99	30	2	-18	892	863	99
29	1	2	803	877	99	29	3	10	294	395	99	29	7	-23	145	6	99	29	9	-2	106	81	99	30	2	-17	1339	1559	99
29	1	3	1673	1729	99	29	3	11	260	370	99	29	7	-22	765	692	99	29	9	-1	127	175	99	30	2	-16	461	486	99
29	1	4	936	893	99	29	3	12	586	526	99	29	7	-21	204	200	99	29	9	0	188	114	99	30	2	-15	596	677	99
29	1	5	2140	2133	99	29	3	13	-107	273	99	29	7	-20	454	464	99	29	9	1	-246	200	99	30	2	-14	-143	73	99
29	1	6	2291	2366	99	29	3	14	295	552	99	29	7	-19	379	163	99	29	9	2	330	264	99	30	2	-13	162	97	99
29	1	7	214	11	99	29	3	15	-339	141	99	29	7	-18	54	300	99	29	9	3	-236	288	99	30	2	-12	1491	1458	99
29	1	8	881	834	99	29	3	16	227	147	99	29	7	-17	429	521	99	29	9	4	88	50	99	30	2	-11	345	387	99
29	1	9	346	456	99	29	3	17	216	89	99	29	7	-16	451	307	99	29	9	5	136	203	99	30	2	-10	1300	1335	99
29	1	10	-202	192	99	29	5	-28	-105	91	99	29	7	-15	414	482	99	29	9	6	376	221	99	30	2	-9	211	194	99
29	1	11	389	357	99	29	5	-27	-294	76	99	29	7	-14	1158	1126	99	29	9	7	150	5	99	30	2	-8	-329	228	99
29	1	12	-221	315	99	29	5	-26	-256	159	99	29	7	-13	268	352	99	29	9	8	-261	129	99	30	2	-7	491	358	99
29	1	13	557	510	99	29	5	-25	-349	59	99	29	7	-12	625	682	99	29	11	-10	-212	132	99	30	2	-6	1727	1651	99
30	2	-5	139	127	99	30	4	4	813	778	99	30	8	-22	399	423	99	31	1	-27	568	464	99	31	3	-18	228	116	99
30	2	-4	771	780	99	30	4	5	-269	36	99	30	8	-21	163	10	99	31	1	-26	513	537	99	31	3	-17	1342	1429	99
30	2	-3	666	524	99	30	4	6	233	419	99	30	8	-20	182	309	99	31	1	-25	-71	148	99	31	3	-16	423	371	99
30	2	-2	579	717	99	30	4	7	450	265	99	30	8	-19	206	235	99	31	1	-24	806	757	99	31	3	-15	898	981	99
30	2	-1	924	844	99	30	4	8	146	275	99	30	8	-18	273	186	99	31	1	-23	-73	116	99	31	3	-14	342	484	99
30	2	0	833	852	99	30	4	9	227	151	99	30	8	-17	595	546	99	31	1	-22	1106	1061	99	31	3	-13	-227	240	99
30	2	1	507	492	99	30	4	10	-247	205	99	30	8	-16	416	508	99	31	1	-21	588	477	99	31	3	-12	179	123	99
30	2	2	885	886	99	30	4	11	339	99	99	30	8	-15	942	969	99	31	1	-20	1409	1404	99	31	3	-11	986	880	99
30	2	3	1288	1116	99	30	4	12	247	67	99	30	8	-14	584	532	99	31	1	-19	1694	1636	99	31	3	-10	768	462	99
30	2	4	536	584	99	30	4	13	-294	157	99	30	8	-13	249	387	99	31	1	-18	650	766	99	31	3	-9	2166	2235	99
30	2	5	1460	1424	99	30	4	14	-298	178	99	30	8	-12	497	437	99	31	1	-17	1241	1252	99	31	3	-8	1035	948	99
30	2	6	127	272	99	30	4	15	174	37	99	30	8	-11	704	590	99	31	1	-16	343	207	99	31	3	-7	1353	1274	99
30	2	7	607	613	99	30	4	16	258	264	99	30	8	-10	538	465	99	31	1	-15	144	206	99	31	3	-6	1150	1157	99
30	2	8	-87	113	99	30	6	-26	217	113	99	30	8	-9	976	940	99	31	1	-14	954	818	99	31	3	-5	677	706	99
30	2	9	350	274	99	30	6	-25	-136	127	99	30	8	-8	-358	164	99	31	1	-13	1396	1163	99	31	3	-4	206	259	99
30	2	10	190	9	99	30	6	-24	297	308	99	30	8	-7	1028	1056	99	31	1	-12	1508	1497	99	31	3	-3	1543	1413	99
30	2	11	658	527	99	30	6	-23	255	237	99	30	8	-6	-308	7	99	31	1	-11	2409	2320	99	31	3	-2	1165	1094	99
30	2	12	186	125	99	30	6	-22	473	541	99	30	8	-5	749	821	99	31	1	-10	1243	1263	99	31	3	-1	423	409	99
30	2	13	1007	921	99	30	6	-21	315	267	99	30	8	-4	154	25	99	31	1	-9	1816	1932	99	31	3	0	158	288	99
30	2	14	-380	22	99	30	6	-20	174	212	99	30	8	-3	-110	166	99	31	1	-8	424	387	99	31	3	1	256	149	99
30	2	15	929	962	99	30	6	-19	196	344	99	30	8	-2	174	109	99	31	1	-7	556	756	99	31	3	2	717	546	99
30	2	16	-336	236	99	30	6	-18	-30	151	99	30	8	-1	94	425	99	31	1	-6	141	274	99	31	3	3	-100	277	99
30	2	17	-294	51	99	30	6	-17	401	474	99	30	8	0	-77	11	99	31	1	-5	235	202	99	31	3	4	-388	154	99
30	4	-28	323	19	99	30	6	-16	508	476	99	30	8	1	675	667	99	31	1	-4	603	679	99	31	3	5	297	347	99
30	4	-27	103	98	99	30	6	-15	-218	228	99	30	8	2	-247	108	99	31	1	-3	794	909	99	31	3	6	771	773	99
30	4	-26	345	226	99	30	6	-14	1635	1538	99	30	8	3	-138	227	99	31	1	-2	464	434	99	31	3	7	583	631	99
30	4	-25	137	247	99	30	6	-13	500	468	99	30	8	4	-442	80	99	31	1	-1	758	710	99	31	3	8	284	412	99
30	4	-24	319	330	99	30	6	-12	2148	2035	99	30	8	5	209	0	99	31	1	0	536	375	99	31	3	9	208	30	99
30	4	-23	81	5	99	30	6	-11	552	536	99	30	8	6	211	6	99	31	1	1	1030	961	99	31	3	10	-306	60	99
30	4	-22	-191	67	99	30	6	-10	721	811	99	30	8	7	-276	53	99	31	1	2	-74	22	99	31	3	11	329	130	99
30	4	-21	138	413	99	30	6	-9	135	11	99	30	8	8	238	156	99	31	1	3	170	82	99	31	3	12	535	492	99
30	4	-20	-340	304	99	30	6	-8	408	363	99	30	8	9	334	98	99	31	1	4	311	458	99	31	3	13	441	515	99
30	4	-19	576	604	99	30	6	-7	371	228	99	30	8	10	346	166	99	31	1	5	239	166	99	31	3	14	489	415	99
30	4	-18	154	15	99	30	6	-6	726	693	99	30	10	-16	277	141	99	31	1	6	331	160	99	31	3	15	634	555	99
30	4	-17	1005	991	99	30	6	-5	259	288	99	30	10	-15	-183	8	99	31	1	7	869	903	99	31	3	16	-310	28	99
30	4	-16	355	320	99	30	6	-4	1468	1542	99	30	10	-14	357	353	99	31	1	8	966	948	99	31	5	-28	282	193	99
30	4	-15	1117	1204	99	30	6	-3	-303	36	99	30	10	-13	-252	91	99	31	1	9	171	470	99	31	5	-27	-58	24	99
30	4	-14	-248	289	99	30	6	-2	1836	1953	99	30	10	-12	503	529	99	31	1	10	730	731	99	31	5	-26	-140	335	99
30	4	-13	787	928	99	30	6	-1	279	177	99	30	10	-11	-231	169	99	31	1	11	-317	151	99	31	5	-25	188	228	99
30	4	-12	516	564	99	30	6	0	433	580	99	30	10	-10	328	276	99	31	1	12	440	454	99	31	5	-24	615	547	99
30	4	-11	1134	991	99	30	6	1	414	396	99	30	10	-9	496	478	99	31	1	13	467	481	99	31	5	-23	-152	279	99
30	4	-10	346	484	99	30	6	2	541	450	99	30	10	-8	-384	117	99	31	1	14	476	467	99	31	5	-22	245	364	99
30	4	-9	2103	2048	99	30	6	3	221	24	99	30	10	-7	696	634	99	31	1	15	910	978	99	31	5	-21	207	102	99
30	4	-8	935	802	99	30	6	4	476	568	99	30	10	-6	427	219	99	31	1	16	270	152	99	31	5	-20	-301	78	99
30	4	-7	734	655	99	30	6	5	489	469	99	30	10	-5	598	608	99	31	1	17	443	486	99	31	5	-19	442	283	99
30	4	-6	464	262	99	30	6	6	636	549	99	30	10	-4	170	370	99	31	3	-28	223	50	99	31	5	-18	149	81	99
30	4	-5	1161	1283	99	30	6	7	284	247	99	30	10	-3	246	232	99	31	3	-27	696	722	99	31	5	-17	331	172	99
30	4	-4	660	734	99	30	6	8	336	442	99	30	10	-2	-247	140	99	31	3	-26	-308	44	99	31	5	-16	518	434	99
30	4	-3	973	1043	99	30	6	9	204	253	99	30	10	-1	178	86	99	31	3	-25	700	724	99	31	5	-15	343	148	99
30	4	-2	1447	1374	99	30	6	10	396	280	99	30	10	0	247	129	99	31	3	-24	180	135	99	31	5	-14	881	917	99
30	4	-1	1870	1816	99	30	6	11	198	223	99	30	10	1	-161	318	99	31	3	-23	331	260	99	31	5	-13	993	931	99
30	4	0	1596	1562	99	30	6	12	-68	190	99	30	10	2	180	10	99	31	3	-22	366	249	99	31	5	-12	1375	1415	99
30	4	1	1480	1480	99	30	6	13	596	500	99	30	10	3	399	529	99	31	3	-21	372	294	99	31	5	-11	369	324	99
30	4	2	2166	1923	99	30	6	14	213	141	99	30	10	4	201	120	99	31	3	-20	660	656	99	31	5	-10	1101	1097	99
30	4	3	530	425	99	30	8	-23	352	374	99	31	1	-28	160	6	99	31	3	-19	927	955	99	31	5	-9	374	336	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
31	5	-8	505	481	99	31	7	6	268	202	99	32	0	12	142	127	99	32	4	-21	473	458	99	32	6	-8	404	401	99
31	5	-7	1484	1386	99	31	7	7	-194	119	99	32	0	14	204	238	99	32	4	-20	582	538	99	32	6	-7	429	350	99
31	5	-6	700	601	99	31	7	8	220	261	99	32	0	16	237	98	99	32	4	-19	655	842	99	32	6	-6	200	135	99
31	5	-5	1928	1941	99	31	7	9	18	115	99	32	2	-28	-314	189	99	32	4	-18	1057	1119	99	32	6	-5	-96	18	99
31	5	-4	1156	1011	99	31	7	10	245	127	99	32	2	-27	851	837	99	32	4	-17	338	418	99	32	6	-4	-125	69	99
31	5	-3	1034	1060	99	31	7	11	-98	57	99	32	2	-26	112	231	99	32	4	-16	232	433	99	32	6	-3	171	319	99
31	5	-2	2090	2089	99	31	7	12	192	221	99	32	2	-25	529	448	99	32	4	-15	359	391	99	32	6	-2	1056	986	99
31	5	-1	793	664	99	31	9	-20	-350	163	99	32	2	-24	598	593	99	32	4	-14	1228	1136	99	32	6	-1	104	320	99
31	5	0	1007	1002	99	31	9	-19	154	162	99	32	2	-23	604	495	99	32	4	-13	726	653	99	32	6	0	1527	1507	99
31	5	1	1679	1650	99	31	9	-18	362	323	99	32	2	-22	639	703	99	32	4	-12	1693	1649	99	32	6	1	418	287	99
31	5	2	138	72	99	31	9	-17	276	308	99	32	2	-21	773	731	99	32	4	-11	653	746	99	32	6	2	798	747	99
31	5	3	1083	1111	99	31	9	-16	595	613	99	32	2	-20	746	823	99	32	4	-10	2555	2565	99	32	6	3	144	33	99
31	5	4	-158	127	99	31	9	-15	384	361	99	32	2	-19	575	475	99	32	4	-9	954	953	99	32	6	4	289	314	99
31	5	5	432	490	99	31	9	-14	363	315	99	32	2	-18	482	439	99	32	4	-8	1381	1475	99	32	6	5	211	87	99
31	5	6	627	649	99	31	9	-13	517	533	99	32	2	-17	1996	1949	99	32	4	-7	452	325	99	32	6	6	-287	175	99
31	5	7	140	256	99	31	9	-12	-216	147	99	32	2	-16	747	678	99	32	4	-6	221	118	99	32	6	7	208	228	99
31	5	8	675	675	99	31	9	-11	233	114	99	32	2	-15	1090	1004	99	32	4	-5	394	288	99	32	6	8	837	836	99
31	5	9	887	742	99	31	9	-10	155	122	99	32	2	-14	564	425	99	32	4	-4	922	875	99	32	6	9	-431	97	99
31	5	10	344	191	99	31	9	-9	275	369	99	32	2	-13	323	253	99	32	4	-3	1163	1011	99	32	6	10	696	765	99
31	5	11	714	675	99	31	9	-8	417	267	99	32	2	-12	265	278	99	32	4	-2	846	804	99	32	6	11	151	204	99
31	5	12	-179	281	99	31	9	-7	828	824	99	32	2	-11	174	34	99	32	4	-1	437	446	99	32	6	12	-200	6	99
31	5	13	196	62	99	31	9	-6	245	483	99	32	2	-10	143	308	99	32	4	0	187	373	99	32	6	13	240	58	99
31	5	14	284	123	99	31	9	-5	792	845	99	32	2	-9	2907	2795	99	32	4	1	1143	1086	99	32	8	-22	134	215	99
31	5	15	-140	169	99	31	9	-4	-158	49	99	32	2	-8	-449	86	99	32	4	2	322	441	99	32	8	-21	-112	225	99
31	7	-25	-274	88	99	31	9	-3	-45	294	99	32	2	-7	2097	1896	99	32	4	3	992	914	99	32	8	-20	429	424	99
31	7	-24	-222	117	99	31	9	-2	29	229	99	32	2	-6	-141	93	99	32	4	4	495	531	99	32	8	-19	351	429	99
31	7	-23	-334	104	99	31	9	-1	297	303	99	32	2	-5	586	680	99	32	4	5	953	953	99	32	8	-18	160	81	99
31	7	-22	-423	75	99	31	9	0	-168	232	99	32	2	-4	653	629	99	32	4	6	-44	61	99	32	8	-17	411	459	99
31	7	-21	249	338	99	31	9	1	555	617	99	32	2	-3	741	738	99	32	4	7	958	821	99	32	8	-16	523	467	99
31	7	-20	184	166	99	31	9	2	207	24	99	32	2	-2	399	294	99	32	4	8	296	87	99	32	8	-15	439	510	99
31	7	-19	-249	322	99	31	9	3	703	700	99	32	2	-1	1411	1274	99	32	4	9	-306	226	99	32	8	-14	-461	135	99
31	7	-18	-357	207	99	31	9	4	169	243	99	32	2	0	1199	1247	99	32	4	10	602	493	99	32	8	-13	619	586	99
31	7	-17	195	314	99	31	9	5	288	446	99	32	2	1	653	713	99	32	4	11	680	691	99	32	8	-12	-234	47	99
31	7	-16	148	246	99	31	9	6	155	216	99	32	2	2	297	488	99	32	4	12	274	80	99	32	8	-11	-223	178	99
31	7	-15	632	508	99	31	9	7	-263	81	99	32	2	3	318	607	99	32	4	13	20	501	99	32	8	-10	186	26	99
31	7	-14	444	419	99	32	0	-28	93	148	99	32	2	4	119	381	99	32	4	14	318	364	99	32	8	-9	-145	345	99
31	7	-13	-213	104	99	32	0	-26	689	727	99	32	2	5	409	474	99	32	4	15	-143	225	99	32	8	-8	184	42	99
31	7	-12	1071	1032	99	32	0	-24	363	282	99	32	2	6	221	67	99	32	6	-26	495	403	99	32	8	-7	50	158	99
31	7	-11	505	599	99	32	0	-22	-89	134	99	32	2	7	517	411	99	32	6	-25	-163	139	99	32	8	-6	-182	230	99
31	7	-10	743	739	99	32	0	-20	1695	1511	99	32	2	8	613	615	99	32	6	-24	529	626	99	32	8	-5	569	557	99
31	7	-9	904	902	99	32	0	-18	1548	1532	99	32	2	9	112	51	99	32	6	-23	141	193	99	32	8	-4	121	71	99
31	7	-8	846	814	99	32	0	-16	594	445	99	32	2	10	242	254	99	32	6	-22	360	476	99	32	8	-3	693	692	99
31	7	-7	330	254	99	32	0	-14	1059	925	99	32	2	11	533	385	99	32	6	-21	338	195	99	32	8	-2	-145	92	99
31	7	-6	203	281	99	32	0	-12	1873	1628	99	32	2	12	-320	17	99	32	6	-20	214	122	99	32	8	-1	379	320	99
31	7	-5	216	306	99	32	0	-10	2845	2980	99	32	2	13	386	215	99	32	6	-19	-186	59	99	32	8	0	464	339	99
31	7	-4	648	658	99	32	0	-8	331	84	99	32	2	14	-229	156	99	32	6	-18	443	413	99	32	8	1	98	119	99
31	7	-3	-117	389	99	32	0	-6	2282	2202	99	32	2	15	-302	244	99	32	6	-17	-465	181	99	32	8	2	551	612	99
31	7	-2	875	897	99	32	0	-4	3622	3559	99	32	2	16	-302	209	99	32	6	-16	470	522	99	32	8	3	420	445	99
31	7	-1	208	345	99	32	0	-2	1927	1990	99	32	4	-28	201	78	99	32	6	-15	511	517	99	32	8	4	758	733	99
31	7	0	859	850	99	32	0	0	287	154	99	32	4	-27	522	554	99	32	6	-14	294	532	99	32	8	5	572	557	99
31	7	1	454	545	99	32	0	2	900	736	99	32	4	-26	-237	157	99	32	6	-13	375	376	99	32	8	6	386	318	99
31	7	2	537	614	99	32	0	4	1614	1720	99	32	4	-25	365	308	99	32	6	-12	1070	1210	99	32	8	7	409	404	99
31	7	3	116	360	99	32	0	6	1477	1490	99	32	4	-24	174	37	99	32	6	-11	571	529	99	32	8	8	239	43	99
31	7	4	-149	76	99	32	0	8	766	742	99	32	4	-23	271	198	99	32	6	-10	468	361	99	32	8	9	-250	110	99
31	7	5	379	365	99	32	0	10	362	321	99	32	4	-22	122	261	99	32	6	-9	723	745	99	32	10	-16	202	96	99
32	10	-15	159	285	99	33	1	9	428	391	99	33	5	-24	146	437	99	33	7	-8	-148	339	99	34	0	-10	707	457	99
32	10	-14	-115	164	99	33	1	10	-221	37	99	33	5	-23	214	204	99	33	7	-7	143	16	99	34	0	-8	2073	1804	99
32	10	-13	133	163	99	33	1	11	-35	103	99	33	5	-22	385	438	99	33	7	-6	-283	78	99	34	0	-6	779	811	99
32	10	-12	225	290	99	33	1	12	178	243	99	33	5	-21	273	281	99	33	7	-5	231	148	99	34	0	-4	1934	1649	99
32	10	-11	264	17	99	33	1	13	225	123	99	33	5	-20	-207	216	99	33	7	-4	236	331	99	34	0	-2	1960	1922	99
32	10	-10	193	166	99	33	1	14	-109	188	99	33	5	-19	306	382	99	33	7	-3	-367	119	99	34	0	0	2534	2068	99
32	10	-9	455	309	99	33	1	15	241	27	99	33	5	-18	-55	77	99	33	7	-2	285	106	99	34	0	2	685	710	99
32	10	-8	101	140	99	33	1	16	79	37	99	33	5	-17	364	479	99	33	7	-1	194	15	99	34	0	4	269	258	99
32	10	-7	599	685	99	33	3	-28	-150	185	99	33	5	-16	66	175	99	33	7	0	166	371	99	34	0	6	1935	2086	99
32	10	-6	79	208	99	33	3	-27	814	839	99	33	5	-15	306	368	99	33	7	1	-209	30	99	34	0	8	1396	1558	99
32	10	-5	-230	282	99	33	3	-26	88	29	99	33	5	-14	1123	1209	99	33	7	2	672	650	99	34	0	10	742	723	99
32	10	-4	259	89	99	33	3	-25	696	752	99	33	5	-13	-396	20	99	33	7	3	-278	90	99	34	0	12	-180	294	99
32	10	-3	153	125	99	33	3	-24	537	420	99	33	5	-12	1788	1937	99	33	7	4	699	762	99	34	0	14	284	163	99
32	10	-2	218	150	99	33	3	-23	266	307	99	33	5	-11	905	924	99	33	7	5	221	129	99	34	0	16	148	265	99
32	10	-1	153	89	99	33	3	-22	536	439	99	33	5	-10	1236	1244	99	33	7	6	-426	330	99	34	2	-28	445	424	99
32	10	0	151	297	99	33	3	-21	400	402	99	33	5	-9	185	321	99	33	7	7	-137	270	99	34	2	-27	722	756	99
32	10	1	-128	338	99	33	3	-20	-232	84	99	33	5	-8	736	692	99	33	7	8	-110	71	99	34	2	-26	341	232	99
32	10	2	337	320	99	33	3	-19	702	762	99	33	5	-7	405	422	99	33	7	9	185	152	99	34	2	-25	-159	399	99
33	1	-28	357	265	99	33	3	-18	442	397	99	33	5	-6	232	212	99	33	7	10	294	358	99	34	2	-24	248	384	99
33	1	-27	-184	237	99	33	3	-17	1503	1481	99	33	5	-5	-259	128	99	33	7	11	-189	291	99	34	2	-23	415	290	99
33	1	-26	-450	69	99	33	3	-16	87	16	99	33	5	-4	928	951	99	33	9	-19	377	269	99	34	2	-22	622	619	99
33	1	-25	-443	80	99	33	3	-15	1692	1646	99	33	5	-3	176	174	99	33	9	-18	-57	123	99	34	2	-21	806	868	99
33	1	-24	286	324	99	33	3	-14	140	112	99	33	5	-2	813	870	99	33	9	-17	687	662	99	34	2	-20	781	731	99
33	1	-23	56	137	99	33	3	-13	902	885	99	33	5	-1	210	213	99	33	9	-16	-239	231	99	34	2	-19	463	642	99
33	1	-22	354	410	99	33	3	-12	469	221	99	33	5	0	1410	1398	99	33	9	-15	422	414	99	34	2	-18	338	411	99
33	1	-21	261	295	99	33	3	-11	-176	72	99	33	5	1	213	208	99	33	9	-14	148	174	99	34	2	-17	702	809	99
33	1	-20	569	375	99	33	3	-10	2496	2286	99	33	5	2	648	632	99	33	9	-13	127	152	99	34	2	-16	417	531	99
33	1	-19	336	329	99	33	3	-9	392	427	99	33	5	3	364	272	99	33	9	-12	76	216	99	34	2	-15	706	771	99
33	1	-18	1153	1006	99	33	3	-8	1307	1294	99	33	5	4	364	303	99	33	9	-11	-52	58	99	34	2	-14	276	173	99
33	1	-17	1438	1308	99	33	3	-7	1263	1119	99	33	5	5	-184	166	99	33	9	-10	-230	174	99	34	2	-13	328	82	99
33	1	-16	-232	115	99	33	3	-6	399	267	99	33	5	6	201	18	99	33	9	-9	567	556	99	34	2	-12	1110	1080	99
33	1	-15	584	420	99	33	3	-5	656	559	99	33	5	7	574	431	99	33	9	-8	-119	223	99	34	2	-11	846	528	99
33	1	-14	554	555	99	33	3	-4	638	602	99	33	5	8	169	247	99	33	9	-7	875	876	99	34	2	-10	263	286	99
33	1	-13	-119	176	99	33	3	-3	207	133	99	33	5	9	659	529	99	33	9	-6	242	105	99	34	2	-9	1039	923	99
33	1	-12	744	694	99	33	3	-2	1215	1144	99	33	5	10	-255	418	99	33	9	-5	611	580	99	34	2	-8	-413	67	99
33	1	-11	883	910	99	33	3	-1	649	661	99	33	5	11	-120	41	99	33	9	-4	-256	141	99	34	2	-7	1280	1121	99
33	1	-10	1850	1731	99	33	3	0	262	136	99	33	5	12	-94	100	99	33	9	-3	-155	299	99	34	2	-6	167	388	99
33	1	-9	1012	803	99	33	3	1	1097	958	99	33	5	13	190	220	99	33	9	-2	160	53	99	34	2	-5	1527	1392	99
33	1	-8	1214	1346	99	33	3	2	48	51	99	33	5	14	328	62	99	33	9	-1	-204	40	99	34	2	-4	385	449	99
33	1	-7	1590	1435	99	33	3	3	1675	1587	99	33	7	-24	718	679	99	33	9	0	-312	126	99	34	2	-3	1164	961	99
33	1	-6	1458	1356	99	33	3	4	146	80	99	33	7	-23	223	19	99	33	9	1	-159	58	99	34	2	-2	-439	344	99
33	1	-5	393	305	99	33	3	5	735	722	99	33	7	-22	659	634	99	33	9	2	81	84	99	34	2	-1	1263	1220	99
33	1	-4	1735	1587	99	33	3	6	665	717	99	33	7	-21	425	261	99	33	9	3	80	106	99	34	2	0	238	149	99
33	1	-3	-313	21	99	33	3	7	901	861	99	33	7	-20	550	563	99	33	9	4	-267	132	99	34	2	1	259	29	99
33	1	-2	1450	1546	99	33	3	8	287	116	99	33	7	-19	433	490	99	33	9	5	176	265	99	34	2	2	-492	120	99
33	1	-1	597	572	99	33	3	9	568	507	99	33	7	-18	274	355	99	33	9	6	199	15	99	34	2	3	1365	1254	99
33	1	0	2290	2211	99	33	3	10	1046	946	99	33	7	-17	453	394	99	34	0	-28	213	49	99	34	2	4	217	107	99
33	1	1	1062	1000	99	33	3	11	-351	231	99	33	7	-16	615	629	99	34	0	-26	457	366	99	34	2	5	1842	1872	99
33	1	2	746	850	99	33	3	12	620	533	99	33	7	-15	527	423	99	34	0	-24	370	487	99	34	2	6	-374	20	99
33	1	3	1221	1289	99	33	3	13	-221	96	99	33	7	-14	784	885	99	34	0	-22	229	193	99	34	2	7	370	586	99
33	1	4	576	654	99	33	3	14	238	75	99	33	7	-13	106	292	99	34	0	-20	507	296	99	34	2	8	31	5	99
33	1	5	1223	1264	99	33	3	15	274	80	99	33	7	-12	455	616	99	34	0	-18	560	451	99	34	2	9	238	135	99
33	1	6	296	832	99	33	5	-27	182	144	99	33	7	-11	590	654	99	34	0	-16	522	421	99	34	2	10	680	600	99
33	1	7	101	41	99	33	5	-26	293	309	99	33	7	-10	280	400	99	34	0	-14	-269	207	99	34	2	11	689	637	99
33	1	8	416	360	99	33	5	-25	140	262	99	33	7	-9	654	789	99	34	0	-12	1057	1025	99	34	2	12	576	454	99

h	k	l	Fo	Fc	sigF2
34	2	13	695	705	99
34	2	14	252	240	99
34	2	15	196	389	99
34	4	-28	142	27	99
34	4	-27	323	371	99
34	4	-26	451	400	99
34	4	-25	745	674	99
34	4	-24	417	496	99
34	4	-23	341	256	99
34	4	-22	42	371	99
34	4	-21	375	323	99
34	4	-20	177	310	99
34	4	-19	672	668	99
34	4	-18	597	664	99
34	4	-17	803	787	99
34	4	-16	530	421	99
34	4	-15	1125	1244	99
34	4	-14	398	144	99
34	4	-13	765	898	99
34	4	-12	544	587	99
34	4	-11	851	746	99
34	4	-10	1431	1372	99
34	4	-9	1174	1168	99
34	4	-8	1997	1874	99
34	4	-7	663	685	99
34	4	-6	568	380	99
34	4	-5	556	664	99
34	4	-4	737	740	99
34	4	-3	462	330	99
34	4	-2	1226	1188	99
34	4	-1	1026	1008	99
34	4	0	1918	1772	99
34	4	1	773	797	99
34	4	2	1417	1368	99
34	4	3	443	491	99
34	4	4	35	184	99
34	4	5	371	195	99
34	4	6	209	359	99
34	4	7	208	228	99
34	4	8	298	166	99
34	4	9	580	619	99
34	4	10	120	249	99
34	4	11	255	57	99
34	4	12	283	188	99
34	4	13	-168	195	99
34	4	14	268	113	99
34	6	-26	183	31	99
34	6	-25	-264	91	99
34	6	-24	568	561	99
34	6	-23	374	244	99
34	6	-22	850	766	99
34	6	-21	-173	246	99
34	6	-20	555	447	99
34	6	-19	202	164	99
34	6	-18	-193	174	99
34	6	-17	85	28	99
34	6	-16	359	264	99
34	6	-15	306	292	99
34	6	-14	958	993	99
34	6	-13	115	39	99
34	6	-12	1585	1664	99
34	6	-11	-56	206	99
34	6	-10	1008	1147	99
34	6	-9	-121	139	99
34	6	-8	-102	100	99
34	6	-7	218	105	99
34	6	-6	442	517	99
34	6	-5	335	311	99
34	6	-4	634	686	99
34	6	-3	607	525	99
34	6	-2	554	726	99
34	6	-1	850	787	99
34	6	0	132	221	99
34	6	1	534	449	99
34	6	2	319	249	99
34	6	3	103	239	99
34	6	4	-394	152	99
34	6	5	169	109	99
34	6	6	112	29	99
34	6	7	-391	48	99
34	6	8	-147	29	99
34	6	9	-218	5	99
34	6	10	396	354	99
34	6	11	198	525	99
34	6	12	378	335	99
34	8	-22	409	444	99
34	8	-21	-135	25	99
34	8	-20	281	301	99
34	8	-19	214	268	99
34	8	-18	-322	42	99
34	8	-17	796	698	99
34	8	-16	501	439	99
34	8	-15	774	883	99
34	8	-14	747	708	99
34	8	-13	540	606	99
34	8	-12	430	385	99
34	8	-11	118	165	99
34	8	-10	439	356	99
34	8	-9	911	961	99
34	8	-8	502	498	99
34	8	-7	906	1090	99
34	8	-6	302	281	99
34	8	-5	324	444	99
34	8	-4	146	108	99
34	8	-3	-263	208	99
34	8	-2	230	265	99
34	8	-1	-90	60	99
34	8	0	53	51	99
34	8	1	322	286	99
34	8	2	243	169	99
34	8	3	86	52	99
34	8	4	168	211	99
34	8	5	264	129	99
34	8	6	302	62	99
34	8	7	259	139	99
34	8	8	-160	150	99
34	10	-15	184	276	99
34	10	-14	-326	228	99
34	10	-13	-163	89	99
34	10	-12	273	402	99
34	10	-11	-162	59	99
34	10	-10	-166	418	99
34	10	-9	80	188	99
34	10	-8	219	48	99
34	10	-7	589	582	99
34	10	-6	-142	284	99
34	10	-5	415	515	99
34	10	-4	222	196	99
34	10	-3	186	12	99
34	10	-2	-101	182	99
34	10	-1	174	113	99
34	10	0	-191	153	99
35	1	-28	149	278	99
35	1	-27	487	470	99
35	1	-26	-150	19	99
35	1	-25	409	333	99
35	1	-24	465	381	99
35	1	-23	-277	244	99
35	1	-22	1010	1020	99
35	1	-21	573	442	99
35	1	-20	613	676	99
35	1	-19	793	812	99
35	1	-18	352	592	99
35	1	-17	470	588	99
35	1	-16	-21	68	99
35	1	-15	-309	32	99
35	1	-14	1257	1202	99
35	1	-13	1149	1038	99
35	1	-12	1554	1581	99
35	1	-11	1470	1550	99
35	1	-10	1028	960	99
35	1	-9	299	31	99
35	1	-8	1410	1335	99
35	1	-7	827	904	99
35	1	-6	417	479	99
35	1	-5	512	454	99
35	1	-4	975	972	99
35	1	-3	516	345	99
35	1	-2	-440	361	99
35	1	-1	1216	1073	99
35	1	0	-360	239	99
35	1	1	1315	1295	99
35	1	2	1095	932	99
35	1	3	-197	254	99
35	1	4	491	624	99
35	1	5	485	621	99
35	1	6	202	266	99
35	1	7	924	936	99
35	1	8	445	543	99
35	1	9	454	418	99
35	1	10	901	823	99
35	1	11	251	300	99
35	1	12	781	666	99
35	1	13	460	449	99
35	1	14	393	333	99
35	1	15	389	511	99
35	3	-28	-459	135	99
35	3	-27	754	740	99
35	3	-26	362	289	99
35	3	-25	929	1036	99
35	3	-24	151	255	99
35	3	-23	430	536	99
35	3	-22	454	409	99
35	3	-21	85	482	99
35	3	-20	412	541	99
35	3	-19	632	767	99
35	3	-18	176	140	99
35	3	-17	987	1062	99
35	3	-16	126	95	99
35	3	-15	928	1027	99
35	3	-14	442	591	99
35	3	-13	568	477	99
35	3	-12	-70	138	99
35	3	-11	701	769	99
35	3	-10	778	623	99
35	3	-9	1308	1273	99
35	3	-8	540	453	99
35	3	-7	1965	1918	99
35	3	-6	400	268	99
35	3	-5	1494	1533	99
35	3	-4	347	45	99
35	3	-3	1169	1145	99
35	3	-2	1068	1071	99
35	3	-1	808	807	99
35	3	0	485	507	99
35	3	1	890	960	99
35	3	2	140	89	99
35	3	3	328	45	99
35	3	4	-183	327	99
35	3	5	907	978	99
35	3	6	294	420	99
35	3	7	619	581	99
35	3	8	191	7	99
35	3	9	654	527	99
35	3	10	255	246	99
35	3	11	-199	44	99
35	3	12	195	38	99
35	3	13	264	534	99
35	3	14	-74	88	99
35	5	-27	-264	68	99
35	5	-26	-282	83	99
35	5	-25	-231	66	99
35	5	-24	603	647	99
35	5	-23	308	142	99
35	5	-22	633	661	99
35	5	-21	-229	81	99
35	5	-20	346	319	99
35	5	-19	382	352	99
35	5	-18	233	326	99
35	5	-17	-96	44	99
35	5	-16	134	143	99
35	5	-15	893	867	99
35	5	-14	424	337	99
35	5	-13	963	970	99
35	5	-12	1419	1457	99
35	5	-11	463	543	99
35	5	-10	1575	1635	99
35	5	-9	704	640	99
35	5	-8	525	566	99
35	5	-7	1322	1247	99
35	5	-6	165	101	99
35	5	-5	949	995	99
35	5	-4	406	410	99
35	5	-3	276	397	99
35	5	-2	905	945	99
35	5	-1	672	546	99
35	5	0	154	361	99
35	5	1	787	804	99
35	5	2	-310	19	99
35	5	3	210	465	99
35	5	4	257	112	99
35	5	5	26	213	99
35	5	6	423	464	99
35	5	7	712	569	99
35	5	8	269	87	99
35	5	9	575	508	99
35	5	10	157	181	99
35	5	11	256	36	99
35	5	12	334	150	99
35	5	13	281	95	99
35	7	-24	255	280	99
35	7	-23	90	13	99
35	7	-22	459	404	99
35	7	-21	-121	240	99
35	7	-20	342	354	99
35	7	-19	113	258	99
35	7	-18	356	294	99
35	7	-17	-345	109	99
35	7	-16	-428	247	99
35	7	-15	340	307	99
35	7	-14	354	394	99
35	7	-13	451	476	99
35	7	-12	776	848	99
35	7	-11	-141	75	99
35	7	-10	985	1046	99
35	7	-9	641	576	99
35	7	-8	915	977	99
35	7	-7	225	414	99
35	7	-6	117	412	99
35	7	-5	143	269	99
35	7	-4	508	347	99
35	7	-3	281	300	99
35	7	-2	518	507	99
35	7	-1	-313	174	99
35	7	0	468	543	99
35	7	1	132	405	99
35	7	2	316	414	99
35	7	3	-185	181	99
35	7	4	-201	62	99
35	7	5	237	196	99
35	7	6	-226	54	99
35	7	7	-228	30	99
35	7	8	220	95	99
35	7	9	-30	9	99
35	7	10	236	72	99
35	9	-19	-352	159	99
35	9	-18	112	225	99
35	9	-17	-304	420	99
35	9	-16	399	401	99
35	9	-15	826	813	99
35	9	-14	-43	276	99
35	9	-13	683	686	99
35	9	-12	224	210	99
35	9	-11	319	264	99
35	9	-10	519	411	99
35	9	-9	136	293	99
35	9	-8	239	287	99
35	9	-7	713	829	99
35	9	-6	85	7	99
35	9	-5	778	943	99
35	9	-4	310	204	99
35	9	-3	179	102	99
35	9	-2	326	458	99
35	9	-1	319	266	99
35	9	0	244	309	99
35	9	1	431	408	99
35	9	2	146	105	99
35	9	3	492	496	99
35	9	4	238	193	99

APPENDIX 6.IV

$[Cd(S_2CN(Et)Cy)_2]$

Table 6.IV.1: Crystallographic Parameters for $[Cd(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

Formula	$C_{18}H_{22}CdN_2S_4$
Formula weight	517.11
Crystal morphology / colour	block / colourless
Crystal dimensions (mm)	0.10 x 0.10 x 0.40
Crystal system	monoclinic
Space group	$P2_1/c$ (#14)
a (Å)	8.541(4)
b (Å)	19.688(8)
c (Å)	13.847(3)
α (°)	90
β (°)	94.29(3)
γ (°)	90
V (Å^3)	2322(1)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.479
$F(000)$	1064
Temperature (°K)	200
μ (cm^{-1})	13.06
θ limits, cell (°)	16.9 – 19.8
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 11, 0 – 25, -18 – 18
Range of transmission factors	0.932 – 1
Scan technique	ω:2θ
No. of data measured	5904
No. of unique data	5547
R_{amal}	0.102
No. of parameters	226
R (I≥0σ(I))	0.124
R_w (I≥0σ(I))	0.121
R (I≥3σ(I))	0.055
R_w (I≥3σ(I))	0.053
Maximum and minimum residual electron density (e Å^{-3})	1.15, -1.41

Table 6.IV.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Cd(S_2CN(CH_2CH_3)(CH(CH_2)5))2]$

Atom	*x*	*y*	*z*
Cd	0.59259(6)	0.05051(3)	-0.09557(4)
S(1)	0.5342(2)	0.17586(9)	-0.0695(1)
S(2)	0.6144(2)	0.11815(9)	-0.2574(1)
S(3)	0.8036(2)	-0.04051(9)	-0.0675(1)
S(4)	0.6625(2)	0.02220(8)	0.1019(1)
N(1)	0.5501(6)	0.2488(3)	-0.2307(4)
N(2)	0.8661(6)	-0.0801(3)	0.1129(4)
C(1)	0.5667(7)	0.1878(3)	-0.1909(4)
C(2)	0.5884(9)	0.2599(4)	-0.3319(5)
C(3)	0.760(1)	0.2728(5)	-0.3412(6)
C(4)	0.4962(8)	0.3080(3)	-0.1742(5)
C(5)	0.368(1)	0.3480(5)	-0.2281(7)
C(6)	0.309(2)	0.4024(6)	-0.1623(7)
C(7)	0.438(2)	0.4492(5)	-0.1232(9)
C(8)	0.568(2)	0.4084(6)	-0.0735(10)
C(9)	0.630(1)	0.3534(5)	-0.1388(7)
C(10)	0.7846(7)	-0.0388(3)	0.0561(4)
C(11)	0.9847(7)	-0.1278(4)	0.0760(5)
C(12)	0.9170(8)	-0.1934(3)	0.0360(6)
C(13)	0.8530(7)	-0.0815(3)	0.2202(5)
C(14)	0.9801(8)	-0.0370(3)	0.2692(5)
C(15)	0.9680(9)	-0.0347(4)	0.3796(5)
C(16)	0.9659(9)	-0.1064(4)	0.4207(5)
C(17)	0.8348(9)	-0.1482(4)	0.3709(6)
C(18)	0.8498(8)	-0.1508(4)	0.2631(5)

Table 6.IV.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Cd(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Cd	0.0377(3)	0.0390(3)	0.0410(3)	0.0006(3)	0.0019(2)	0.0069(3)
S(1)	0.066(1)	0.041(1)	0.0299(9)	0.0018(9)	0.0048(9)	0.0045(8)
S(2)	0.053(1)	0.047(1)	0.0359(10)	0.0101(9)	0.0082(9)	0.0022(8)
S(3)	0.043(1)	0.049(1)	0.0329(9)	0.0065(8)	0.0040(8)	0.0012(9)
S(4)	0.0374(10)	0.0324(8)	0.0354(9)	0.0013(7)	0.0004(7)	0.0001(7)
N(1)	0.045(4)	0.040(3)	0.036(3)	0.008(3)	0.006(3)	0.010(3)
N(2)	0.028(3)	0.034(3)	0.035(3)	0.000(2)	0.002(2)	-0.010(2)
C(1)	0.030(4)	0.047(4)	0.032(4)	0.002(3)	0.004(3)	0.001(3)
C(2)	0.070(6)	0.071(6)	0.036(4)	0.024(4)	0.021(4)	0.026(4)
C(3)	0.076(6)	0.087(7)	0.077(6)	0.018(5)	0.044(5)	0.032(5)
C(4)	0.058(5)	0.036(4)	0.042(4)	0.002(3)	0.011(4)	0.017(3)
C(5)	0.122(9)	0.093(7)	0.075(7)	0.066(7)	-0.017(6)	-0.020(6)
C(6)	0.20(1)	0.115(10)	0.076(7)	0.124(10)	-0.028(8)	-0.040(7)
C(7)	0.30(2)	0.050(6)	0.091(9)	0.031(10)	0.08(1)	-0.010(7)
C(8)	0.14(1)	0.099(9)	0.15(1)	-0.051(8)	0.047(9)	-0.064(9)
C(9)	0.094(8)	0.090(7)	0.093(7)	-0.022(6)	0.022(6)	-0.046(6)
C(10)	0.022(3)	0.031(4)	0.040(4)	0.002(3)	-0.005(3)	-0.008(3)
C(11)	0.030(4)	0.061(5)	0.046(4)	0.006(3)	0.004(3)	-0.004(4)
C(12)	0.048(5)	0.041(4)	0.069(5)	0.006(3)	0.006(4)	-0.009(4)
C(13)	0.027(4)	0.040(4)	0.038(4)	0.004(3)	-0.001(3)	0.007(3)
C(14)	0.046(4)	0.049(5)	0.041(4)	0.005(3)	0.004(3)	-0.007(3)
C(15)	0.060(5)	0.063(6)	0.041(4)	-0.002(4)	0.003(4)	-0.009(4)
C(16)	0.063(6)	0.080(6)	0.036(4)	0.011(5)	0.003(4)	-0.001(4)
C(17)	0.060(6)	0.075(6)	0.059(5)	0.007(5)	0.006(4)	0.037(5)
C(18)	0.054(5)	0.045(4)	0.048(5)	-0.001(4)	-0.003(4)	0.016(4)

Table 6.IV.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Cd(S_2CN(CH_2CH_3)(CH(CH_2)5))2]^*$

Atom	*x*	*y*	*z*	*B*eq
H(2a)	0.5577	0.2198	-0.3695	5.5204
H(2b)	0.5295	0.2988	-0.3576	5.5204
H(3a)	0.7920	0.3134	-0.3051	7.3958
H(3b)	0.8207	0.2343	-0.3156	7.3958
H(3c)	0.7785	0.2791	-0.4089	7.3958
H(4a)	0.4523	0.2896	-0.1171	4.2883
H(5a)	0.2820	0.3177	-0.2487	9.2929
H(5b)	0.4082	0.3692	-0.2843	9.2929
H(6a)	0.2628	0.3806	-0.1083	12.4746
H(6b)	0.2291	0.4291	-0.1987	12.4746
H(7a)	0.3975	0.4806	-0.0774	13.4578
H(7b)	0.4785	0.4744	-0.1763	13.4578
H(8a)	0.6540	0.4387	-0.0532	11.9940
H(8b)	0.5294	0.3867	-0.0171	11.9940
H(9a)	0.6754	0.3745	-0.1937	8.6754
H(9b)	0.7101	0.3268	-0.1025	8.6754
H(11a)	1.0614	-0.1384	0.1291	4.3105
H(11b)	1.0362	-0.1050	0.0250	4.3105
H(12a)	0.8675	-0.2176	0.0866	4.9884
H(12b)	0.8395	-0.1838	-0.0170	4.9884
H(12c)	1.0003	-0.2211	0.0128	4.9884
H(13a)	0.7535	-0.0604	0.2316	3.3202
H(14a)	1.0820	-0.0551	0.2560	4.2576
H(14b)	0.9692	0.0087	0.2434	4.2576

Table 6.IV.4: Cont.

Atom	x	y	z	B_{eq}
H(15a)	0.8721	-0.0115	0.3933	5.2019
H(15b)	1.0576	-0.0103	0.4095	5.2019
H(16a)	1.0656	-0.1282	0.4116	5.6696
H(16b)	0.9508	-0.1039	0.4894	5.6696
H(17a)	0.8398	-0.1941	0.3967	6.1418
H(17b)	0.7347	-0.1280	0.3831	6.1418
H(18a)	0.7610	-0.1756	0.2328	4.6793
H(18b)	0.9463	-0.1742	0.2509	4.6793

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 6.IV.5: Bond distances (Å) for [Cd($S_2CN(CH_2CH_3)(CH(CH_2)5)2$))2]

Cd — S(1)	2.549(2)	C(2) — C(3)	1.50(1)
Cd — S(2)	2.625(2)	C(4) — C(5)	1.50(1)
Cd — S(3)	2.551(2)	C(4) — C(9)	1.51(1)
Cd — S(4)	2.811(2)	C(5) — C(6)	1.52(1)
Cd — S(4)*	2.603(2)	C(6) — C(7)	1.51(2)
S(1) — C(1)	1.741(6)	C(7) — C(8)	1.50(2)
S(2) — C(1)	1.718(6)	C(8) — C(9)	1.53(1)
S(3) — C(10)	1.732(6)	C(11) — C(12)	1.504(9)
S(4) — C(10)	1.741(6)	C(13) — C(14)	1.516(9)
N(1) — C(1)	1.325(7)	C(13) — C(18)	1.490(9)
N(1) — C(2)	1.479(8)	C(14) — C(15)	1.540(9)
N(1) — C(4)	1.495(8)	C(15) — C(16)	1.52(1)
N(2) — C(10)	1.296(7)	C(16) — C(17)	1.51(1)
N(2) — C(11)	1.498(8)	C(17) — C(18)	1.51(1)
N(2) — C(13)	1.499(7)		

* symmetry operation: 1-*x*, -*y*, -*z*

Table 6.IV.6: Bond angles (deg.) for [Cd($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]

S(1) — Cd — S(2)	69.94(6)	S(1) — C(1) — N(1)	120.3(5)
S(1) — Cd — S(3)	143.35(6)	S(2) — C(1) — N(1)	121.5(5)
S(1) — Cd — S(4)	94.80(5)	N(1) — C(2) — C(3)	113.1(7)
S(1) — Cd — S(4)*	111.41(6)	N(1) — C(4) — C(5)	113.0(6)
S(2) — Cd — S(3)	113.08(6)	N(1) — C(4) — C(9)	112.1(6)
S(2) — Cd — S(4)	155.17(6)	C(5) — C(4) — C(9)	111.1(7)
S(2) — Cd — S(4)*	111.27(6)	C(4) — C(5) — C(6)	109.6(7)
S(3) — Cd — S(4)	67.43(5)	C(5) — C(6) — C(7)	112(1)
S(3) — Cd — S(4)*	101.46(6)	C(6) — C(7) — C(8)	109.6(9)
S(4) — Cd — S(4)*	92.29(5)	C(7) — C(8) — C(9)	113(1)
Cd — S(1) — C(1)	86.9(2)	C(4) — C(9) — C(8)	108.8(8)
Cd — S(2) — C(1)	85.0(2)	S(3) — C(10) — S(4)	118.4(3)
Cd — S(3) — C(10)	91.1(2)	S(3) — C(10) — N(2)	120.1(4)
Cd — S(4) — Cd*	87.71(5)	S(4) — C(10) — N(2)	121.4(5)
Cd — S(4) — C(10)	82.6(2)	N(2) — C(11) — C(12)	114.4(5)
Cd — S(4) * — C(10)*	97.5(2)	N(2) — C(13) — C(14)	109.3(5)
C(1) — N(1) — C(2)	120.2(6)	N(2) — C(13) — C(18)	114.7(6)
C(1) — N(1) — C(4)	121.1(5)	C(14) — C(13) — C(18)	112.6(5)
C(2) — N(1) — C(4)	118.6(5)	C(13) — C(14) — C(15)	111.3(6)
C(10) — N(2) — C(11)	122.2(5)	C(14) — C(15) — C(16)	110.3(6)
C(10) — N(2) — C(13)	122.4(5)	C(15) — C(16) — C(17)	111.3(6)
C(11) — N(2) — C(13)	115.3(5)	C(16) — C(17) — C(18)	110.8(6)
S(1) — C(1) — S(2)	118.1(4)	C(13) — C(18) — C(17)	111.7(6)

* symmetry operation: 1-*x*, -*y*, -*z*

Table 6.IV.7: Observed and calculated structure factors for $[Cd(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

h	k	l	Fo	Fc	sigF2
0	0	4	1670	1635	99
0	0	6	2825	2829	99
0	0	8	-131	66	99
0	0	10	440	459	99
0	0	12	655	722	99
0	0	14	-67	186	99
0	0	16	113	75	99
0	0	18	83	29	99
0	1	2	1180	1149	99
0	1	3	393	359	99
0	1	4	671	682	99
0	1	5	1898	1932	99
0	1	6	329	302	99
0	1	7	1132	1157	99
0	1	8	432	414	99
0	1	9	304	292	99
0	1	10	195	210	99
0	1	11	797	858	99
0	1	12	108	83	99
0	1	13	-52	12	99
0	1	14	67	10	99
0	1	15	102	157	99
0	1	16	-82	76	99
0	1	17	105	158	99
0	1	18	44	16	99
0	2	2	1254	1245	99
0	2	3	749	731	99
0	2	4	1442	1448	99
0	2	5	1231	1200	99
0	2	6	1737	1739	99
0	2	7	1138	1121	99
0	2	8	289	269	99
0	2	9	234	255	99
0	2	10	841	816	99
0	2	11	171	91	99
0	2	12	201	190	99
0	2	13	273	303	99
0	2	14	235	232	99
0	2	15	102	23	99
0	2	16	237	236	99
0	2	17	56	62	99
0	3	1	1064	1073	99
0	3	2	1504	1549	99
0	3	3	596	602	99
0	3	4	297	322	99
0	3	5	1094	1097	99
0	3	6	781	774	99
0	3	7	293	289	99
0	3	8	382	356	99
0	3	9	614	605	99
0	3	10	194	189	99
0	3	11	317	316	99
0	3	12	497	494	99
0	3	13	79	9	99
0	3	14	209	222	99
0	3	15	392	386	99
0	3	16	47	13	99
0	3	17	-65	50	99
0	4	0	131	153	99
0	4	1	826	849	99
0	4	2	665	641	99
0	4	3	173	199	99
0	4	4	874	910	99
0	4	5	344	327	99
0	4	6	-14	39	99
0	4	7	1028	1006	99
0	4	8	185	188	99
0	4	9	227	228	99
0	4	10	484	492	99
0	4	11	472	454	99
0	4	12	48	49	99
0	4	13	599	556	99
0	4	14	97	128	99
0	4	15	117	92	99
0	4	16	198	185	99
0	4	17	244	315	99
0	5	1	1153	1156	99
0	5	2	506	490	99
0	5	3	125	117	99
0	5	4	370	378	99
0	5	5	201	225	99
0	5	6	548	561	99
0	5	7	422	424	99
0	5	8	864	858	99
0	5	9	204	176	99
0	5	10	343	314	99
0	5	11	12	85	99
0	5	12	495	490	99
0	5	13	188	121	99
0	5	14	353	349	99
0	5	15	92	10	99
0	5	16	155	165	99
0	5	17	75	69	99
0	6	0	106	82	99
0	6	1	99	109	99
0	6	2	217	232	99
0	6	3	871	907	99
0	6	4	72	78	99
0	6	5	6	84	99
0	6	6	-117	30	99
0	6	7	357	359	99
0	6	8	223	181	99
0	6	9	453	441	99
0	6	10	115	139	99
0	6	11	452	428	99
0	6	12	-64	110	99
0	6	13	250	203	99
0	6	14	-26	96	99
0	6	15	-73	159	99
0	6	16	162	181	99
0	6	17	115	217	99
0	7	1	893	898	99
0	7	2	892	915	99
0	7	3	411	404	99
0	7	4	456	461	99
0	7	5	358	373	99
0	7	6	91	82	99
0	7	7	319	301	99
0	7	8	360	360	99
0	7	9	345	328	99
0	7	10	335	314	99
0	7	11	37	75	99
0	7	12	211	224	99
0	7	13	-27	107	99
0	7	14	272	220	99
0	7	15	189	156	99
0	7	16	71	9	99
0	7	17	-114	33	99
0	8	0	1118	1157	99
0	8	1	314	301	99
0	8	2	1004	1006	99
0	8	3	371	371	99
0	8	4	905	908	99
0	8	5	162	155	99
0	8	6	552	591	99
0	8	7	-77	90	99
0	8	8	543	554	99
0	8	9	175	173	99
0	8	10	588	575	99
0	8	11	-171	8	99
0	8	12	-92	107	99
0	8	13	186	157	99
0	8	14	-74	64	99
0	8	15	118	39	99
0	8	16	88	101	99
0	8	17	-167	51	99
0	9	1	1317	1354	99
0	9	2	835	793	99
0	9	3	147	123	99
0	9	4	7	86	99
0	9	5	1027	1075	99
0	9	6	196	166	99
0	9	7	977	940	99
0	9	8	65	86	99
0	9	9	60	118	99
0	9	10	98	88	99
0	9	11	449	451	99
0	9	12	104	75	99
0	9	13	330	258	99
0	9	14	-159	47	99
0	9	15	-69	83	99
0	9	16	-152	50	99
0	10	0	1391	1416	99
0	10	1	225	210	99
0	10	2	277	315	99
0	10	3	800	812	99
0	10	4	782	804	99
0	10	5	70	3	99
0	10	6	999	998	99
0	10	7	154	86	99
0	10	8	141	117	99
0	10	9	511	469	99
0	10	10	412	384	99
0	10	11	78	5	99
0	10	12	252	221	99
0	10	13	-157	69	99
0	10	14	178	8	99
0	10	15	-202	114	99
0	10	16	161	188	99
0	11	1	770	789	99
0	11	2	830	846	99
0	11	3	-61	60	99
0	11	4	522	531	99
0	11	5	837	855	99
0	11	6	181	173	99
0	11	7	373	332	99
0	11	8	845	816	99
0	11	9	81	26	99
0	11	10	87	31	99
0	11	11	577	557	99
0	11	12	-117	49	99
0	11	13	-156	60	99
0	11	14	291	233	99
0	11	15	149	223	99
0	11	16	136	61	99
0	12	0	1026	1053	99
0	12	1	228	243	99
0	12	2	366	335	99
0	12	3	690	696	99
0	12	4	415	412	99
0	12	5	132	118	99
0	12	6	715	707	99
0	12	7	538	558	99
0	12	8	-190	83	99
0	12	9	380	361	99
0	12	10	233	235	99
0	12	11	282	238	99
0	12	12	237	213	99
0	12	13	340	325	99
0	12	14	195	209	99
0	12	15	172	94	99
0	13	1	710	688	99
0	13	2	710	719	99
0	13	3	135	163	99
0	13	4	451	454	99
0	13	5	596	588	99
0	13	6	592	579	99
0	13	7	178	362	99
0	13	8	525	504	99
0	13	9	-238	31	99
0	13	10	-97	45	99
0	13	11	239	215	99
0	13	12	506	461	99
0	13	13	88	40	99
0	13	14	246	252	99
0	13	15	97	60	99
0	14	0	965	974	99
0	14	1	672	654	99
0	14	2	206	241	99
0	14	3	704	708	99
0	14	4	56	99	99
0	14	5	224	226	99
0	14	6	552	539	99
0	14	7	663	651	99
0	14	8	193	202	99
0	14	9	354	345	99
0	14	10	-156	55	99
0	14	11	97	140	99
0	14	12	-84	178	99
0	14	13	531	454	99
0	14	14	74	28	99
0	14	15	-70	38	99
0	15	1	119	234	99
0	15	2	905	894	99
0	15	3	-178	14	99
0	15	4	558	570	99
0	15	5	194	160	99
0	15	6	308	308	99
0	15	7	64	115	99
0	15	8	526	505	99
0	15	9	-159	120	99
0	15	10	221	188	99
0	15	11	131	47	99
0	15	12	381	345	99
0	15	13	-24	6	99
0	15	14	56	173	99
0	16	0	203	193	99
0	16	1	491	497	99
0	16	2	35	81	99
0	16	3	609	592	99
0	16	4	84	115	99
0	16	5	263	238	99
0	16	6	62	128	99
0	16	7	594	576	99
0	16	8	60	53	99
0	16	9	351	338	99
0	16	10	-58	11	99
0	16	11	-181	33	99
0	16	12	121	188	99
0	16	13	306	336	99
0	16	14	47	34	99
0	17	1	302	312	99
0	17	2	318	335	99
0	17	3	-127	57	99
0	17	4	313	305	99
0	17	5	239	246	99
0	17	6	417	409	99
0	17	7	194	189	99
0	17	8	319	313	99
0	17	9	-190	54	99
0	17	10	-108	17	99
0	17	11	83	191	99
0	17	12	280	291	99
0	17	13	126	118	99
0	18	0	240	211	99
0	18	1	-5	53	99
0	18	2	186	159	99
0	18	3	74	187	99
0	18	4	-32	142	99
0	18	5	282	274	99
0	18	6	351	354	99
0	18	7	194	235	99
0	18	8	-18	31	99
0	18	9	-278	43	99
0	18	10	-36	99	99
0	18	11	310	283	99
0	18	12	203	236	99
0	19	1	130	94	99
0	19	2	26	98	99
0	19	3	-71	5	99
0	19	4	64	152	99
0	19	5	231	245	99
0	19	6	96	107	99
0	19	7	66	70	99
0	19	8	-58	56	99
0	19	9	123	84	99
0	19	10	194	161	99
0	19	11	-70	212	99
0	19	12	203	181	99
0	20	0	224	231	99
0	20	1	-39	27	99
0	20	2	132	85	99
0	20	3	98	33	99
0	20	4	182	197	99
0	20	5	-63	89	99
0	20	6	66	105	99
0	20	7	-64	27	99
0	20	8	-126	16	99
0	20	9	-139	32	99
0	20	10	91	163	99
0	20	11	-111	220	99
0	21	1	222	190	99
0	21	2	-143	31	99
0	21	3	61	9	99
0	21	4	112	22	99
0	21	5	129	146	99
0	21	6	36	17	99
0	21	7	80	132	99
0	21	8	40	66	99
0	21	9	-47	60	99
0	21	10	94	23	99
0	22	0	262	245	99
0	22	1	62	28	99
0	22	2	192	223	99
0	22	3	84	187	99
0	22	4	73	217	99
0	22	5	-86	22	99
0	22	6	-79	114	99
0	22	7	71	65	99
0	22	8	85	167	99
0	22	9	-136	136	99
0	23	1	200	203	99
0	23	2	253	280	99
0	23	3	58	11	99
0	23	4	155	181	99
0	23	5	106	126	99
0	23	6	-105	61	99
0	23	7	24	163	99
0	23	8	-71	156	99
0	24	0	105	105	99
0	24	1	-161	98	99
0	24	2	44	4	99
0	24	3	313	373	99
0	24	4	83	40	99
0	24	5	81	15	99
0	24	6	58	125	99
0	25	1	61	37	99
0	25	2	260	288	99
0	25	3	-132	27	99
0	25	4	184	192	99
1	0	-18	-39	76	99
1	0	-16	376	357	99
1	0	-14	274	299	99
1	0	-12	586	573	99
1	0	-10	915	894	99
1	0	-8	403	396	99
1	0	-6	811	880	99
1	0	-4	2090	2091	99
1	0	-2	671	711	99
1	0	2	122	136	99
1	0	4	-52	67	99
1	0	6	1070	1071	99
1	0	8	481	445	99
1	0	10	140	109	99
1	0	12	483	517	99
1	0	14	212	256	99
1	0	16	52	26	99
1	1	-18	123	21	99
1	1	-17	256	274	99
1	1	-16	-128	49	99
1	1	-15	366	335	99
1	1	-14	-105	76	99
1	1	-13	222	166	99
1	1	-12	149	149	99
1	1	-11	995	978	99
1	1	-10	224	214	99
1	1	-9	930	894	99
1	1	-8	485	466	99
1	1	-7	313	296	99
1	1	-6	65	32	99
1	1	-5	1749	1794	99
1	1	-4	72	71	99
1	1	-3	636	640	99
1	1	-2	1051	1044	99
1	1	1	1306	1331	99
1	1	2	1293	1322	99
1	1	3	69	23	99
1	1	4	574	577	99
1	1	5	888	891	99
1	1	6	154	173	99
1	1	7	694	659	99
1	1	8	434	443	99
1	1	9	204	220	99
1	1	10	316	352	99
1	1	11	324	294	99
1	1	12	177	234	99
1	1	13	145	106	99
1	1	14	83	142	99
1	1	15	144	158	99
1	1	16	83	109	99
1	1	17	110	60	99
1	2	-18	71	61	99
1	2	-17	-140	49	99
1	2	-16	437	397	99
1	2	-15	92	109	99
1	2	-14	420	424	99
1	2	-13	167	164	99
1	2	-12	169	169	99
1	2	-11	144	116	99
1	2	-10	1009	1005	99
1	2	-9	143	169	99
1	2	-8	454	471	99
1	2	-7	326	323	99
1	2	-6	585	594	99
1	2	-5	65	50	99
1	2	-4	1327	1337	99
1	2	-3	371	364	99
1	2	-2	481	478	99
1	2	-1	45	54	99
1	2	0	79	76	99
1	2	1	560	607	99
1	2	2	1354	1437	99
1	2	3	708	701	99
1	2	4	433	431	99
1	2	5	855	887	99
1	2	6	532	512	99
1	2	7	431	429	99
1	2	8	218	191	99
1	2	9	551	566	99
1	2	10	311	315	99
1	2	11	514	514	99
1	2	12	102	127	99
1	2	13	269	261	99
1	2	14	182	200	99
1	2	15	119	140	99
1	2	16	209	223	99
1	2	17	73	171	99
1	3	-17	92	116	99
1	3	-16	-44	128	99
1	3	-15	574	545	99
1	3	-14	19	85	99
1	3	-13	116	74	99
1	3	-12	506	496	99
1	3	-11	341	306	99
1	3	-10	83	115	99
1	3	-9	864	836	99
1	3	-8	-8	54	99
1	3	-7	128	79	99
1	3	-6	1064	1089	99
1	3	-5	404	425	99
1	3	-4	792	786	99
1	3	-3	1139	1115	99
1	3	-2	1628	1629	99
1	3	-1	475	491	99
1	3	0	312	336	99
1	3	1	761	817	99
1	3	2	1001	1018	99
1	3	3	233	243	99
1	3	4	982	1009	99
1	3	5	567	600	99
1	3	6	60	56	99
1	3	7	64	87	99
1	3	8	731	745	99
1	3	9	468	485	99
1	3	10	665	651	99
1	3	11	188	172	99
1	3	12	69	94	99
1	3	13	123	162	99
1	3	14	480	458	99
1	3	15	299	323	99
1	3	16	-91	209	99
1	3	17	91	61	99
1	4	-17	372	365	99
1	4	-16	240	269	99
1	4	-15	223	227	99
1	4	-14	133	131	99
1	4	-13	337	310	99
1	4	-12	177	163	99
1	4	-11	567	572	99
1	4	-10	494	478	99
1	4	-9	230	258	99
1	4	-8	170	178	99
1	4	-7	268	279	99
1	4	-6	375	386	99
1	4	-5	706	721	99
1	4	-4	854	824	99
1	4	-3	302	345	99
1	4	-2	607	666	99
1	4	-1	363	424	99
1	4	0	415	450	99
1	4	1	39	2	99
1	4	2	90	61	99
1	4	3	623	660	99
1	4	4	715	712	99
1	4	5	669	649	99
1	4	6	-49	129	99
1	4	7	655	663	99
1	4	8	233	210	99
1	4	9	706	714	99
1	4	10	455	456	99
1	4	11	274	295	99
1	4	12	39	129	99
1	4	13	584	583	99
1	4	14	144	33	99
1	4	15	443	405	99
1	4	16	146	179	99
1	4	17	-104	18	99
1	5	-17	150	45	99
1	5	-16	434	416	99
1	5	-15	115	57	99
1	5	-14	91	20	99
1	5	-13	317	296	99
1	5	-12	434	426	99
1	5	-11	-205	71	99
1	5	-10	656	641	99
1	5	-9	330	329	99
1	5	-8	459	445	99
1	5	-7	508	508	99
1	5	-6	618	630	99
1	5	-5	323	301	99
1	5	-4	-68	40	99
1	5	-3	366	383	99
1	5	-2	692	808	99
1	5	-1	789	892	99
1	5	0	560	614	99
1	5	1	106	104	99
1	5	2	967	1027	99
1	5	3	255	260	99
1	5	4	1296	1341	99
1	5	5	224	218	99
1	5	6	-110	74	99
1	5	7	111	89	99
1	5	8	1160	1171	99
1	5	9	75	5	99
1	5	10	549	545	99
1	5	11	47	53	99
1	5	12	153	127	99
1	5	13	109	167	99
1	5	14	586	556	99
1	5	15	-124	53	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	5	16	149	239	99	1	7	1	388	392	99	1	9	-12	-110	32	99	1	10	10	423	410	99	1	12	0	326	332	99
1	5	17	142	146	99	1	7	2	1155	1163	99	1	9	-11	250	234	99	1	10	11	-74	65	99	1	12	1	-115	15	99
1	6	-17	105	148	99	1	7	3	697	668	99	1	9	-10	690	683	99	1	10	12	253	244	99	1	12	2	393	374	99
1	6	-16	93	111	99	1	7	4	1408	1395	99	1	9	-9	869	860	99	1	10	13	245	242	99	1	12	3	599	600	99
1	6	-15	128	124	99	1	7	5	441	417	99	1	9	-8	203	198	99	1	10	14	49	63	99	1	12	4	-139	31	99
1	6	-14	267	242	99	1	7	6	58	40	99	1	9	-7	318	358	99	1	10	15	53	66	99	1	12	5	-66	51	99
1	6	-13	109	36	99	1	7	7	568	555	99	1	9	-6	210	220	99	1	10	16	262	296	99	1	12	6	400	375	99
1	6	-12	172	126	99	1	7	8	791	756	99	1	9	-5	738	769	99	1	11	-16	-212	31	99	1	12	7	158	183	99
1	6	-11	450	421	99	1	7	9	178	161	99	1	9	-4	254	290	99	1	11	-15	500	426	99	1	12	8	75	85	99
1	6	-10	106	46	99	1	7	10	992	965	99	1	9	-3	1052	1187	99	1	11	-14	367	341	99	1	12	9	290	251	99
1	6	-9	243	219	99	1	7	11	345	330	99	1	9	-2	142	110	99	1	11	-13	311	279	99	1	12	10	193	220	99
1	6	-8	609	612	99	1	7	12	-140	8	99	1	9	-1	553	614	99	1	11	-12	-118	9	99	1	12	11	227	193	99
1	6	-7	371	339	99	1	7	13	213	229	99	1	9	0	411	410	99	1	11	-11	257	252	99	1	12	12	195	196	99
1	6	-6	84	65	99	1	7	14	365	338	99	1	9	1	1242	1218	99	1	11	-10	-120	25	99	1	12	13	106	167	99
1	6	-5	342	361	99	1	7	15	-102	51	99	1	9	2	292	287	99	1	11	-9	723	772	99	1	12	14	211	232	99
1	6	-4	354	370	99	1	7	16	227	233	99	1	9	3	925	931	99	1	11	-8	674	712	99	1	12	15	-89	131	99
1	6	-3	775	848	99	1	7	17	110	134	99	1	9	4	286	307	99	1	11	-7	485	488	99	1	13	-15	100	60	99
1	6	-2	98	94	99	1	8	-17	115	71	99	1	9	5	665	667	99	1	11	-6	146	107	99	1	13	-14	-141	144	99
1	6	-1	518	612	99	1	8	-16	-177	75	99	1	9	6	-110	60	99	1	11	-5	707	745	99	1	13	-13	153	162	99
1	6	0	56	111	99	1	8	-15	238	156	99	1	9	7	778	769	99	1	11	-4	211	230	99	1	13	-12	488	482	99
1	6	1	139	136	99	1	8	-14	139	118	99	1	9	8	582	565	99	1	11	-3	862	898	99	1	13	-11	329	312	99
1	6	2	419	403	99	1	8	-13	-69	34	99	1	9	9	304	298	99	1	11	-2	744	797	99	1	13	-10	89	121	99
1	6	3	2021	2064	99	1	8	-12	-32	112	99	1	9	10	112	91	99	1	11	-1	61	58	99	1	13	-9	352	374	99
1	6	4	623	597	99	1	8	-11	100	103	99	1	9	11	400	368	99	1	11	0	149	173	99	1	13	-8	315	341	99
1	6	5	774	765	99	1	8	-10	807	792	99	1	9	12	-142	53	99	1	11	1	719	717	99	1	13	-7	153	175	99
1	6	6	42	118	99	1	8	-9	54	145	99	1	9	13	323	284	99	1	11	2	-97	10	99	1	13	-6	258	497	99
1	6	7	345	343	99	1	8	-8	79	41	99	1	9	14	289	269	99	1	11	3	257	242	99	1	13	-5	579	585	99
1	6	8	74	19	99	1	8	-7	75	65	99	1	9	15	-107	20	99	1	11	4	541	519	99	1	13	-4	161	127	99
1	6	9	1326	1342	99	1	8	-6	312	333	99	1	9	16	92	115	99	1	11	5	147	130	99	1	13	-3	386	411	99
1	6	10	-111	76	99	1	8	-5	263	272	99	1	10	-16	293	251	99	1	11	6	160	144	99	1	13	-2	404	435	99
1	6	11	376	387	99	1	8	-4	1472	1588	99	1	10	-15	310	253	99	1	11	7	454	446	99	1	13	-1	218	204	99
1	6	12	243	279	99	1	8	-3	601	647	99	1	10	-14	309	269	99	1	11	8	-72	56	99	1	13	0	116	119	99
1	6	13	188	213	99	1	8	-2	124	126	99	1	10	-13	-81	99	99	1	11	9	264	243	99	1	13	1	897	862	99
1	6	14	138	47	99	1	8	-1	333	372	99	1	10	-12	126	79	99	1	11	10	-46	58	99	1	13	2	487	475	99
1	6	15	618	567	99	1	8	0	784	824	99	1	10	-11	196	163	99	1	11	11	300	321	99	1	13	3	-155	12	99
1	6	16	77	137	99	1	8	1	208	202	99	1	10	-10	569	550	99	1	11	12	-185	20	99	1	13	4	254	226	99
1	6	17	-275	74	99	1	8	2	1543	1554	99	1	10	-9	708	713	99	1	11	13	-60	22	99	1	13	5	326	299	99
1	7	-17	-79	54	99	1	8	3	1238	1250	99	1	10	-8	659	617	99	1	11	14	-183	12	99	1	13	6	391	378	99
1	7	-16	316	269	99	1	8	4	546	529	99	1	10	-7	86	171	99	1	11	15	187	302	99	1	13	7	408	417	99
1	7	-15	227	174	99	1	8	5	664	656	99	1	10	-6	345	366	99	1	11	16	154	2	99	1	13	8	386	364	99
1	7	-14	107	53	99	1	8	6	637	664	99	1	10	-5	239	281	99	1	12	-15	143	61	99	1	13	9	240	269	99
1	7	-13	115	33	99	1	8	7	-141	78	99	1	10	-4	1006	1112	99	1	12	-14	391	361	99	1	13	10	-101	12	99
1	7	-12	-164	40	99	1	8	8	914	884	99	1	10	-3	877	928	99	1	12	-13	320	348	99	1	13	11	-66	78	99
1	7	-11	134	144	99	1	8	9	1201	1190	99	1	10	-2	419	433	99	1	12	-12	-99	41	99	1	13	12	342	279	99
1	7	-10	449	450	99	1	8	10	300	269	99	1	10	-1	-121	15	99	1	12	-11	38	154	99	1	13	13	-45	20	99
1	7	-9	376	392	99	1	8	11	272	213	99	1	10	0	796	815	99	1	12	-10	463	477	99	1	13	14	148	196	99
1	7	-8	470	461	99	1	8	12	311	332	99	1	10	1	162	196	99	1	12	-9	239	253	99	1	13	15	101	79	99
1	7	-7	96	75	99	1	8	13	221	197	99	1	10	2	1279	1286	99	1	12	-8	653	707	99	1	14	-15	-113	8	99
1	7	-6	302	308	99	1	8	14	262	253	99	1	10	3	393	385	99	1	12	-7	351	373	99	1	14	-14	-125	34	99
1	7	-5	171	216	99	1	8	15	384	365	99	1	10	4	169	150	99	1	12	-6	-125	120	99	1	14	-13	271	249	99
1	7	-4	429	434	99	1	8	16	101	97	99	1	10	5	122	147	99	1	12	-5	-194	67	99	1	14	-12	-133	114	99
1	7	-3	706	794	99	1	9	-16	307	240	99	1	10	6	773	738	99	1	12	-4	596	613	99	1	14	-11	255	256	99
1	7	-2	1597	1775	99	1	9	-15	307	279	99	1	10	7	289	284	99	1	12	-3	595	651	99	1	14	-10	231	182	99
1	7	-1	44	30	99	1	9	-14	263	214	99	1	10	8	341	352	99	1	12	-2	572	629	99	1	14	-9	75	98	99
1	7	0	52	46	99	1	9	-13	90	35	99	1	10	9	-62	42	99	1	12	-1	210	231	99	1	14	-8	-137	153	99
1	14	-7	635	648	99	1	16	-10	-114	7	99	1	18	-8	296	288	99	1	20	-1	282	293	99	1	23	-6	192	158	99
1	14	-6	293	359	99	1	16	-9	220	189	99	1	18	-7	-132	32	99	1	20	0	180	209	99	1	23	-5	123	98	99
1	14	-5	-48	88	99	1	16	-8	-97	119	99	1	18	-6	282	272	99	1	20	1	-38	58	99	1	23	-4	-213	6	99
1	14	-4	291	310	99	1	16	-7	433	424	99	1	18	-5	128	124	99	1	20	2	391	396	99	1	23	-3	229	217	99
1	14	-3	439	422	99	1	16	-6	22	170	99	1	18	-4	532	444	99	1	20	3	-196	120	99	1	23	-2	380	377	99
1	14	-2	211	214	99	1	16	-5	202	128	99	1	18	-3	91	196	99	1	20	4	-49	52	99	1	23	-1	-85	20	99
1	14	-1	689	668	99	1	16	-4	-176	23	99	1	18	-2	13	152	99	1	20	5	129	149	99	1	23	0	177	159	99
1	14	0	537	533	99	1	16	-3	561	513	99	1	18	-1	149	115	99	1	20	6	230	237	99	1	23	1	227	218	99
1	14	1	477	485	99	1	16	-2	293	322	99	1	18	0	483	456	99	1	20	7	-124	80	99	1	23	2	-108	133	99
1	14	2	-109	125	99	1	16	-1	704	681	99	1	18	1	-94	86	99	1	20	8	188	210	99	1	23	3	219	228	99
1	14	3	552	516	99	1	16	0	542	496	99	1	18	2	493	505	99	1	20	9	44	101	99	1	23	4	239	277	99
1	14	4	-137	83	99	1	16	1	422	439	99	1	18	3	368	386	99	1	20	10	134	233	99	1	23	5	-122	37	99
1	14	5	373	353	99	1	16	2	-358	21	99	1	18	4	148	115	99	1	20	11	120	58	99	1	23	6	-109	33	99
1	14	6	220	204	99	1	16	3	799	771	99	1	18	5	59	191	99	1	21	-10	109	80	99	1	23	7	166	187	99
1	14	7	547	545	99	1	16	4	86	93	99	1	18	6	516	533	99	1	21	-9	372	367	99	1	24	-6	-99	34	99
1	14	8	94	112	99	1	16	5	419	401	99	1	18	7	153	215	99	1	21	-8	-187	142	99	1	24	-5	-85	66	99
1	14	9	195	393	99	1	16	6	304	299	99	1	18	8	219	192	99	1	21	-7	-221	76	99	1	24	-4	126	66	99
1	14	10	-112	66	99	1	16	7	513	509	99	1	18	9	311	340	99	1	21	-6	-162	199	99	1	24	-3	355	289	99
1	14	11	-63	37	99	1	16	8	-21	155	99	1	18	10	94	67	99	1	21	-5	97	123	99	1	24	-2	134	123	99
1	14	12	-44	85	99	1	16	9	398	398	99	1	18	11	-159	152	99	1	21	-4	-139	82	99	1	24	-1	276	297	99
1	14	13	341	338	99	1	16	10	-90	95	99	1	18	12	237	251	99	1	21	-3	461	433	99	1	24	0	-150	18	99
1	14	14	-100	75	99	1	16	11	195	122	99	1	19	-12	70	20	99	1	21	-2	132	123	99	1	24	1	-101	0	99
1	15	-14	79	33	99	1	16	12	152	274	99	1	19	-11	-102	64	99	1	21	-1	-56	10	99	1	24	2	99	94	99
1	15	-13	-151	91	99	1	16	13	137	212	99	1	19	-10	271	233	99	1	21	0	206	186	99	1	24	3	238	309	99
1	15	-12	360	331	99	1	17	-13	-81	47	99	1	19	-9	263	305	99	1	21	1	258	245	99	1	24	4	91	129	99
1	15	-11	-136	73	99	1	17	-12	82	136	99	1	19	-8	123	86	99	1	21	2	-84	58	99	1	24	5	95	172	99
1	15	-10	114	99	99	1	17	-11	-189	155	99	1	19	-7	162	172	99	1	21	3	235	276	99	1	24	6	-65	85	99
1	15	-9	104	59	99	1	17	-10	-167	162	99	1	19	-6	-43	98	99	1	21	4	-183	42	99	1	25	-4	127	135	99
1	15	-8	320	371	99	1	17	-9	127	59	99	1	19	-5	296	265	99	1	21	5	-105	173	99	1	25	-3	87	33	99
1	15	-7	-36	124	99	1	17	-8	241	233	99	1	19	-4	169	168	99	1	21	6	98	96	99	1	25	-2	275	250	99
1	15	-6	432	466	99	1	17	-7	-155	72	99	1	19	-3	440	423	99	1	21	7	280	271	99	1	25	-1	166	183	99
1	15	-5	-115	151	99	1	17	-6	280	237	99	1	19	-2	97	133	99	1	21	8	-124	43	99	1	25	0	-68	116	99
1	15	-4	562	543	99	1	17	-5	459	415	99	1	19	-1	-131	29	99	1	21	9	-75	28	99	1	25	1	16	85	99
1	15	-3	181	122	99	1	17	-4	280	318	99	1	19	0	295	298	99	1	21	10	-191	19	99	1	25	2	136	151	99
1	15	-2	652	616	99	1	17	-3	182	214	99	1	19	1	494	486	99	1	22	-9	184	43	99	1	25	3	-126	19	99
1	15	-1	247	242	99	1	17	-2	543	535	99	1	19	2	-139	183	99	1	22	-8	71	135	99	2	0	-16	89	132	99
1	15	0	373	383	99	1	17	-1	42	31	99	1	19	3	264	313	99	1	22	-7	292	255	99	2	0	-14	174	186	99
1	15	1	76	156	99	1	17	0	48	28	99	1	19	4	39	20	99	1	22	-6	127	8	99	2	0	-12	185	181	99
1	15	2	1128	1042	99	1	17	1	792	737	99	1	19	5	241	253	99	1	22	-5	-98	149	99	2	0	-10	492	496	99
1	15	3	-87	59	99	1	17	2	531	510	99	1	19	6	175	245	99	1	22	-4	436	385	99	2	0	-8	676	630	99
1	15	4	519	486	99	1	17	3	218	234	99	1	19	7	339	362	99	1	22	-3	73	53	99	2	0	-6	478	453	99
1	15	5	83	25	99	1	17	4	524	526	99	1	19	8	100	215	99	1	22	-2	109	113	99	2	0	-4	1024	1041	99
1	15	6	-86	71	99	1	17	5	111	141	99	1	19	9	87	21	99	1	22	-1	225	217	99	2	0	-2	791	826	99
1	15	7	45	27	99	1	17	6	112	218	99	1	19	10	96	14	99	1	22	0	132	140	99	2	0	0	1464	1427	99
1	15	8	698	716	99	1	17	7	592	603	99	1	19	11	240	282	99	1	22	1	32	147	99	2	0	2	1071	1053	99
1	15	9	-17	17	99	1	17	8	449	450	99	1	20	-11	43	35	99	1	22	2	406	408	99	2	0	4	684	680	99
1	15	10	289	278	99	1	17	9	133	153	99	1	20	-10	165	205	99	1	22	3	109	162	99	2	0	6	740	751	99
1	15	11	40	26	99	1	17	10	193	183	99	1	20	-9	112	7	99	1	22	4	77	7	99	2	0	8	682	633	99
1	15	12	-182	129	99	1	17	11	288	245	99	1	20	-8	372	372	99	1	22	5	86	97	99	2	0	10	96	24	99
1	15	13	133	73	99	1	17	12	115	145	99	1	20	-7	53	145	99	1	22	6	70	156	99	2	0	12	607	627	99
1	15	14	222	209	99	1	17	13	-77	193	99	1	20	-6	134	45	99	1	22	7	-112	26	99	2	0	14	-52	98	99
1	16	-14	137	44	99	1	18	-12	87	72	99	1	20	-5	-103	72	99	1	22	8	203	267	99	2	0	16	70	23	99
1	16	-13	235	190	99	1	18	-11	-150	175	99	1	20	-4	479	421	99	1	22	9	160	145	99	2	1	-17	-147	67	99
1	16	-12	115	2	99	1	18	-10	68	172	99	1	20	-3	119	25	99	1	23	-8	-78	233	99	2	1	-16	49	69	99
1	16	-11	124	120	99	1	18	-9	-36	40	99	1	20	-2	338	348	99	1	23	-7	121	59	99	2	1	-15	145	127	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	1	-14	116	74	99	2	2	6	417	393	99	2	4	-9	464	440	99	2	5	11	81	19	99	2	7	-3	983	1066	99
2	1	-13	458	421	99	2	2	7	294	270	99	2	4	-8	601	589	99	2	5	12	-85	32	99	2	7	-2	2001	2060	99
2	1	-12	140	154	99	2	2	8	108	90	99	2	4	-7	872	859	99	2	5	13	73	125	99	2	7	-1	399	418	99
2	1	-11	161	164	99	2	2	9	571	552	99	2	4	-6	55	101	99	2	5	14	346	318	99	2	7	0	1213	1243	99
2	1	-10	236	242	99	2	2	10	244	221	99	2	4	-5	1701	1617	99	2	5	15	67	132	99	2	7	1	414	409	99
2	1	-9	278	264	99	2	2	11	667	660	99	2	4	-4	269	253	99	2	5	16	267	277	99	2	7	2	-34	80	99
2	1	-8	-60	66	99	2	2	12	274	264	99	2	4	-3	302	269	99	2	5	17	36	42	99	2	7	3	1314	1228	99
2	1	-7	1088	1067	99	2	2	13	144	100	99	2	4	-2	476	471	99	2	6	-17	113	61	99	2	7	4	1766	1732	99
2	1	-6	571	547	99	2	2	14	119	75	99	2	4	-1	1809	1771	99	2	6	-16	70	42	99	2	7	5	390	372	99
2	1	-5	559	525	99	2	2	15	185	165	99	2	4	0	178	159	99	2	6	-15	275	252	99	2	7	6	658	672	99
2	1	-4	259	243	99	2	2	16	183	200	99	2	4	1	932	960	99	2	6	-14	300	282	99	2	7	7	437	408	99
2	1	-3	423	420	99	2	2	17	26	184	99	2	4	2	943	920	99	2	6	-13	216	163	99	2	7	8	37	44	99
2	1	-2	958	908	99	2	3	-17	84	38	99	2	4	3	995	958	99	2	6	-12	209	188	99	2	7	9	289	280	99
2	1	-1	1857	1809	99	2	3	-16	-43	95	99	2	4	4	-87	64	99	2	6	-11	482	480	99	2	7	10	1070	1052	99
2	1	0	2364	2281	99	2	3	-15	378	359	99	2	4	5	1347	1286	99	2	6	-10	52	18	99	2	7	11	480	440	99
2	1	1	1367	1355	99	2	3	-14	75	138	99	2	4	6	419	410	99	2	6	-9	169	169	99	2	7	12	61	65	99
2	1	2	1012	952	99	2	3	-13	279	245	99	2	4	7	123	91	99	2	6	-8	968	917	99	2	7	13	133	152	99
2	1	3	317	323	99	2	3	-12	512	503	99	2	4	8	202	177	99	2	6	-7	1169	1111	99	2	7	14	50	142	99
2	1	4	563	551	99	2	3	-11	-80	115	99	2	4	9	768	745	99	2	6	-6	77	62	99	2	7	15	35	12	99
2	1	5	234	231	99	2	3	-10	261	285	99	2	4	10	258	229	99	2	6	-5	896	919	99	2	7	16	177	218	99
2	1	6	940	945	99	2	3	-9	433	417	99	2	4	11	418	367	99	2	6	-4	314	323	99	2	8	-17	-19	48	99
2	1	7	885	842	99	2	3	-8	76	48	99	2	4	12	223	176	99	2	6	-3	246	267	99	2	8	-16	110	61	99
2	1	8	314	290	99	2	3	-7	538	539	99	2	4	13	276	240	99	2	6	-2	645	634	99	2	8	-15	-95	112	99
2	1	9	-91	86	99	2	3	-6	1853	1811	99	2	4	14	113	35	99	2	6	-1	2320	2406	99	2	8	-14	413	376	99
2	1	10	261	265	99	2	3	-5	1013	920	99	2	4	15	324	314	99	2	6	0	52	43	99	2	8	-13	161	103	99
2	1	11	348	322	99	2	3	-4	105	38	99	2	4	16	174	129	99	2	6	1	1336	1301	99	2	8	-12	231	224	99
2	1	12	305	276	99	2	3	-3	770	706	99	2	4	17	93	20	99	2	6	2	543	545	99	2	8	-11	397	374	99
2	1	13	337	364	99	2	3	-2	716	678	99	2	5	-17	-99	45	99	2	6	3	1061	1047	99	2	8	-10	334	328	99
2	1	14	153	103	99	2	3	-1	413	395	99	2	5	-16	390	361	99	2	6	4	293	284	99	2	8	-9	160	159	99
2	1	15	-88	32	99	2	3	0	2119	2118	99	2	5	-15	7	62	99	2	6	5	1492	1426	99	2	8	-8	683	685	99
2	1	16	76	32	99	2	3	1	1521	1456	99	2	5	-14	45	14	99	2	6	6	480	458	99	2	8	-7	896	903	99
2	1	17	171	201	99	2	3	2	110	103	99	2	5	-13	261	261	99	2	6	7	257	275	99	2	8	-6	-65	101	99
2	2	-17	121	26	99	2	3	3	483	488	99	2	5	-12	441	440	99	2	6	8	331	307	99	2	8	-5	565	551	99
2	2	-16	165	129	99	2	3	4	1458	1411	99	2	5	-11	90	66	99	2	6	9	711	703	99	2	8	-4	1155	1164	99
2	2	-15	-71	38	99	2	3	5	342	324	99	2	5	-10	769	758	99	2	6	10	340	338	99	2	8	-3	738	744	99
2	2	-14	420	401	99	2	3	6	1102	1074	99	2	5	-9	61	18	99	2	6	11	401	385	99	2	8	-2	888	959	99
2	2	-13	-100	14	99	2	3	7	339	317	99	2	5	-8	536	532	99	2	6	12	180	185	99	2	8	-1	1146	1226	99
2	2	-12	324	329	99	2	3	8	561	535	99	2	5	-7	767	776	99	2	6	13	114	6	99	2	8	0	506	520	99
2	2	-11	272	259	99	2	3	9	-61	9	99	2	5	-6	1438	1353	99	2	6	14	102	16	99	2	8	1	467	468	99
2	2	-10	312	318	99	2	3	10	671	666	99	2	5	-5	155	160	99	2	6	15	321	307	99	2	8	2	1423	1400	99
2	2	-9	273	265	99	2	3	11	452	421	99	2	5	-4	749	735	99	2	6	16	-74	193	99	2	8	3	486	489	99
2	2	-8	922	938	99	2	3	12	136	122	99	2	5	-3	268	240	99	2	7	-17	66	114	99	2	8	4	92	99	99
2	2	-7	742	746	99	2	3	13	25	8	99	2	5	-2	1195	1200	99	2	7	-16	-173	86	99	2	8	5	1079	1080	99
2	2	-6	432	421	99	2	3	14	247	239	99	2	5	-1	517	521	99	2	7	-15	237	224	99	2	8	6	342	348	99
2	2	-5	297	276	99	2	3	15	130	108	99	2	5	0	1550	1577	99	2	7	-14	96	15	99	2	8	7	218	203	99
2	2	-4	544	544	99	2	3	16	158	171	99	2	5	1	554	560	99	2	7	-13	310	299	99	2	8	8	777	794	99
2	2	-3	907	841	99	2	3	17	224	252	99	2	5	2	271	272	99	2	7	-12	205	191	99	2	8	9	526	516	99
2	2	-2	711	680	99	2	4	-17	258	238	99	2	5	3	428	461	99	2	7	-11	77	165	99	2	8	10	210	163	99
2	2	-1	1920	1858	99	2	4	-16	32	4	99	2	5	4	1397	1394	99	2	7	-10	153	151	99	2	8	11	379	362	99
2	2	0	301	297	99	2	4	-15	303	254	99	2	5	5	-30	89	99	2	7	-9	625	622	99	2	8	12	374	358	99
2	2	1	396	380	99	2	4	-14	286	278	99	2	5	6	756	761	99	2	7	-8	628	603	99	2	8	13	91	14	99
2	2	2	125	121	99	2	4	-13	292	267	99	2	5	7	363	325	99	2	7	-7	384	383	99	2	8	14	250	200	99
2	2	3	1110	1090	99	2	4	-12	95	49	99	2	5	8	271	286	99	2	7	-6	765	745	99	2	8	15	-72	164	99
2	2	4	154	126	99	2	4	-11	610	587	99	2	5	9	162	100	99	2	7	-5	40	76	99	2	8	16	-193	151	99
2	2	5	1325	1294	99	2	4	-10	95	126	99	2	5	10	859	838	99	2	7	-4	483	483	99	2	9	-16	-82	54	99
2	9	-15	207	217	99	2	10	7	287	306	99	2	12	-2	470	501	99	2	14	-8	-119	119	99	2	16	-10	74	113	99
2	9	-14	91	68	99	2	10	8	310	330	99	2	12	-1	42	15	99	2	14	-7	284	294	99	2	16	-9	186	191	99
2	9	-13	216	221	99	2	10	9	-129	94	99	2	12	0	65	52	99	2	14	-6	-142	105	99	2	16	-8	-164	43	99
2	9	-12	236	217	99	2	10	10	219	186	99	2	12	1	232	243	99	2	14	-5	263	300	99	2	16	-7	312	319	99
2	9	-11	-96	50	99	2	10	11	121	78	99	2	12	2	39	121	99	2	14	-4	56	33	99	2	16	-6	120	154	99
2	9	-10	176	147	99	2	10	12	411	389	99	2	12	3	-103	19	99	2	14	-3	213	230	99	2	16	-5	223	215	99
2	9	-9	724	735	99	2	10	13	221	216	99	2	12	4	85	29	99	2	14	-2	172	147	99	2	16	-4	312	328	99
2	9	-8	-123	73	99	2	10	14	155	168	99	2	12	5	111	82	99	2	14	-1	564	561	99	2	16	-3	256	251	99
2	9	-7	255	262	99	2	10	15	127	22	99	2	12	6	292	271	99	2	14	0	304	304	99	2	16	-2	248	272	99
2	9	-6	578	620	99	2	10	16	232	238	99	2	12	7	180	201	99	2	14	1	342	354	99	2	16	-1	710	716	99
2	9	-5	341	334	99	2	11	-16	-82	59	99	2	12	8	196	186	99	2	14	2	127	118	99	2	16	0	501	452	99
2	9	-4	176	194	99	2	11	-15	318	276	99	2	12	9	-83	129	99	2	14	3	218	170	99	2	16	1	-152	105	99
2	9	-3	1149	1260	99	2	11	-14	200	190	99	2	12	10	-112	130	99	2	14	4	75	36	99	2	16	2	454	440	99
2	9	-2	137	153	99	2	11	-13	487	471	99	2	12	11	89	140	99	2	14	5	617	613	99	2	16	3	365	351	99
2	9	-1	123	111	99	2	11	-12	197	113	99	2	12	12	343	300	99	2	14	6	143	103	99	2	16	4	94	161	99
2	9	0	713	731	99	2	11	-11	-66	28	99	2	12	13	118	31	99	2	14	7	79	71	99	2	16	5	645	610	99
2	9	1	974	954	99	2	11	-10	140	148	99	2	12	14	-161	43	99	2	14	8	60	23	99	2	16	6	101	164	99
2	9	2	160	188	99	2	11	-9	480	506	99	2	12	15	74	149	99	2	14	9	143	164	99	2	16	7	119	36	99
2	9	3	1056	1040	99	2	11	-8	255	224	99	2	13	-15	-146	7	99	2	14	10	67	35	99	2	16	8	362	374	99
2	9	4	597	568	99	2	11	-7	816	902	99	2	13	-14	57	8	99	2	14	11	269	239	99	2	16	9	169	167	99
2	9	5	505	487	99	2	11	-6	-57	85	99	2	13	-13	355	306	99	2	14	12	185	122	99	2	16	10	142	121	99
2	9	6	228	222	99	2	11	-5	224	232	99	2	13	-12	289	295	99	2	14	13	-145	15	99	2	16	11	326	335	99
2	9	7	694	689	99	2	11	-4	133	172	99	2	13	-11	-126	81	99	2	14	14	-160	30	99	2	16	12	96	160	99
2	9	8	476	459	99	2	11	-3	622	650	99	2	13	-10	180	182	99	2	15	-14	-95	40	99	2	16	13	-35	37	99
2	9	9	447	430	99	2	11	-2	158	186	99	2	13	-9	-122	121	99	2	15	-13	-186	51	99	2	17	-13	-214	137	99
2	9	10	72	50	99	2	11	-1	450	471	99	2	13	-8	67	55	99	2	15	-12	268	290	99	2	17	-12	-191	126	99
2	9	11	509	495	99	2	11	0	98	83	99	2	13	-7	260	333	99	2	15	-11	120	50	99	2	17	-11	185	187	99
2	9	12	134	132	99	2	11	1	239	231	99	2	13	-6	400	419	99	2	15	-10	178	69	99	2	17	-10	79	52	99
2	9	13	343	327	99	2	11	2	12	27	99	2	13	-5	149	158	99	2	15	-9	71	133	99	2	17	-9	167	188	99
2	9	14	246	228	99	2	11	3	374	363	99	2	13	-4	175	210	99	2	15	-8	241	280	99	2	17	-8	159	130	99
2	9	15	-49	66	99	2	11	4	355	331	99	2	13	-3	167	174	99	2	15	-7	84	31	99	2	17	-7	110	100	99
2	9	16	68	46	99	2	11	5	77	81	99	2	13	-2	253	269	99	2	15	-6	434	441	99	2	17	-6	413	373	99
2	10	-16	95	125	99	2	11	6	70	77	99	2	13	-1	323	340	99	2	15	-5	56	220	99	2	17	-5	484	484	99
2	10	-15	-169	41	99	2	11	7	569	546	99	2	13	0	259	263	99	2	15	-4	243	229	99	2	17	-4	-176	38	99
2	10	-14	487	446	99	2	11	8	-64	8	99	2	13	1	265	248	99	2	15	-3	92	129	99	2	17	-3	399	402	99
2	10	-13	-88	20	99	2	11	9	182	143	99	2	13	2	-29	1	99	2	15	-2	431	444	99	2	17	-2	284	281	99
2	10	-12	331	295	99	2	11	10	37	77	99	2	13	3	170	126	99	2	15	-1	-128	45	99	2	17	-1	-187	49	99
2	10	-11	191	222	99	2	11	11	403	397	99	2	13	4	219	208	99	2	15	0	711	704	99	2	17	0	244	230	99
2	10	-10	373	401	99	2	11	12	174	140	99	2	13	5	-138	10	99	2	15	1	284	297	99	2	17	1	672	670	99
2	10	-9	104	59	99	2	11	13	295	265	99	2	13	6	113	128	99	2	15	2	239	237	99	2	17	2	97	125	99
2	10	-8	933	943	99	2	11	14	116	64	99	2	13	7	188	161	99	2	15	3	173	195	99	2	17	3	389	403	99
2	10	-7	79	129	99	2	11	15	192	179	99	2	13	8	-19	76	99	2	15	4	348	312	99	2	17	4	387	375	99
2	10	-6	214	251	99	2	12	-15	96	72	99	2	13	9	151	68	99	2	15	5	-86	4	99	2	17	5	-93	14	99
2	10	-5	403	420	99	2	12	-14	388	339	99	2	13	10	-99	166	99	2	15	6	579	571	99	2	17	6	178	174	99
2	10	-4	770	792	99	2	12	-13	189	201	99	2	13	11	198	135	99	2	15	7	161	143	99	2	17	7	577	599	99
2	10	-3	147	118	99	2	12	-12	412	390	99	2	13	12	118	49	99	2	15	8	-70	77	99	2	17	8	-69	11	99
2	10	-2	743	816	99	2	12	-11	130	188	99	2	13	13	194	162	99	2	15	9	-62	81	99	2	17	9	208	223	99
2	10	-1	254	252	99	2	12	-10	382	382	99	2	13	14	150	120	99	2	15	10	233	246	99	2	17	10	186	178	99
2	10	0	106	126	99	2	12	-9	54	103	99	2	14	-15	48	21	99	2	15	11	-76	42	99	2	17	11	89	89	99
2	10	1	190	199	99	2	12	-8	432	481	99	2	14	-14	-144	73	99	2	15	12	297	298	99	2	17	12	63	92	99
2	10	2	525	529	99	2	12	-7	-18	176	99	2	14	-13	100	54	99	2	15	13	-112	79	99	2	18	-12	41	135	99
2	10	3	-52	30	99	2	12	-6	311	341	99	2	14	-12	-36	42	99	2	15	14	-121	96	99	2	18	-11	-103	67	99
2	10	4	246	234	99	2	12	-5	308	361	99	2	14	-11	245	255	99	2	16	-13	133	81	99	2	18	-10	249	310	99
2	10	5	-38	142	99	2	12	-4	358	369	99	2	14	-10	-131	6	99	2	16	-12	92	29	99	2	18	-9	82	42	99
2	10	6	658	620	99	2	12	-3	67	61	99	2	14	-9	-112	80	99	2	16	-11	-118	94	99	2	18	-8	274	299	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	18	-7	118	142	99	2	20	1	76	55	99	2	23	1	223	210	99	3	1	-2	69	65	99	3	3	-15	-110	4	99
2	18	-6	-74	53	99	2	20	2	319	313	99	2	23	2	-158	29	99	3	1	-1	621	651	99	3	3	-14	205	148	99
2	18	-5	192	186	99	2	20	3	81	27	99	2	23	3	93	196	99	3	1	0	1030	1001	99	3	3	-13	236	226	99
2	18	-4	495	530	99	2	20	4	-53	126	99	2	23	4	221	244	99	3	1	1	1007	973	99	3	3	-12	432	452	99
2	18	-3	63	6	99	2	20	5	67	37	99	2	23	5	129	162	99	3	1	2	252	238	99	3	3	-11	531	521	99
2	18	-2	239	211	99	2	20	6	213	222	99	2	23	6	96	56	99	3	1	3	818	814	99	3	3	-10	560	581	99
2	18	-1	138	133	99	2	20	7	-193	32	99	2	23	7	187	204	99	3	1	4	184	193	99	3	3	-9	-155	44	99
2	18	0	185	201	99	2	20	8	127	184	99	2	24	-5	146	154	99	3	1	5	637	619	99	3	3	-8	100	73	99
2	18	1	87	90	99	2	20	9	67	46	99	2	24	-4	131	93	99	3	1	6	694	680	99	3	3	-7	457	451	99
2	18	2	605	589	99	2	20	10	-81	137	99	2	24	-3	-106	91	99	3	1	7	1118	1062	99	3	3	-6	1116	1073	99
2	18	3	-157	7	99	2	21	-10	226	165	99	2	24	-2	115	170	99	3	1	8	55	52	99	3	3	-5	593	556	99
2	18	4	92	197	99	2	21	-9	328	351	99	2	24	-1	280	238	99	3	1	9	749	710	99	3	3	-4	744	702	99
2	18	5	53	77	99	2	21	-8	93	6	99	2	24	0	-144	28	99	3	1	10	173	125	99	3	3	-3	741	702	99
2	18	6	502	492	99	2	21	-7	276	229	99	2	24	1	43	114	99	3	1	11	255	232	99	3	3	-2	539	496	99
2	18	7	-171	21	99	2	21	-6	-117	93	99	2	24	2	29	105	99	3	1	12	272	272	99	3	3	-1	264	261	99
2	18	8	289	308	99	2	21	-5	-98	35	99	2	24	3	157	195	99	3	1	13	683	645	99	3	3	0	1327	1297	99
2	18	9	95	71	99	2	21	-4	185	125	99	2	24	4	-117	16	99	3	1	14	-201	37	99	3	3	1	260	267	99
2	18	10	97	40	99	2	21	-3	492	478	99	2	24	5	114	225	99	3	1	15	275	276	99	3	3	2	628	619	99
2	18	11	-181	4	99	2	21	-2	78	43	99	2	25	-2	243	179	99	3	1	16	119	45	99	3	3	3	836	855	99
2	18	12	229	243	99	2	21	-1	-54	84	99	2	25	-1	119	168	99	3	2	-17	-100	139	99	3	3	4	396	381	99
2	19	-11	80	19	99	2	21	0	-65	34	99	2	25	0	81	148	99	3	2	-16	208	210	99	3	3	5	214	188	99
2	19	-10	139	99	99	2	21	1	237	223	99	2	25	1	-45	23	99	3	2	-15	-133	14	99	3	3	6	737	733	99
2	19	-9	353	358	99	2	21	2	59	32	99	2	25	2	-153	17	99	3	2	-14	-146	75	99	3	3	7	200	160	99
2	19	-8	-109	58	99	2	21	3	362	357	99	3	0	-16	239	175	99	3	2	-13	149	112	99	3	3	8	140	125	99
2	19	-7	383	382	99	2	21	4	-102	45	99	3	0	-14	149	97	99	3	2	-12	569	576	99	3	3	9	430	413	99
2	19	-6	-90	35	99	2	21	5	183	168	99	3	0	-12	482	483	99	3	2	-11	592	588	99	3	3	10	89	15	99
2	19	-5	-75	157	99	2	21	6	-100	20	99	3	0	-10	29	11	99	3	2	-10	221	219	99	3	3	11	-92	58	99
2	19	-4	159	181	99	2	21	7	170	209	99	3	0	-8	257	240	99	3	2	-9	80	133	99	3	3	12	253	229	99
2	19	-3	508	537	99	2	21	8	94	89	99	3	0	-6	600	586	99	3	2	-8	260	254	99	3	3	13	239	259	99
2	19	-2	149	120	99	2	21	9	-64	52	99	3	0	-4	620	595	99	3	2	-7	491	461	99	3	3	14	125	158	99
2	19	-1	167	153	99	2	22	-8	315	266	99	3	0	-2	1259	1252	99	3	2	-6	739	722	99	3	3	15	138	192	99
2	19	0	-90	83	99	2	22	-7	107	77	99	3	0	0	77	28	99	3	2	-5	1027	1015	99	3	3	16	-181	56	99
2	19	1	367	366	99	2	22	-6	-258	52	99	3	0	2	1724	1616	99	3	2	-4	276	282	99	3	4	-17	326	340	99
2	19	2	-51	120	99	2	22	-5	112	126	99	3	0	4	988	954	99	3	2	-3	25	75	99	3	4	-16	228	238	99
2	19	3	325	312	99	2	22	-4	252	305	99	3	0	6	179	182	99	3	2	-2	537	548	99	3	4	-15	325	334	99
2	19	4	-31	73	99	2	22	-3	-215	24	99	3	0	8	1331	1333	99	3	2	-1	985	950	99	3	4	-14	-108	27	99
2	19	5	-68	146	99	2	22	-2	284	255	99	3	0	10	647	604	99	3	2	0	905	841	99	3	4	-13	154	160	99
2	19	6	-135	29	99	2	22	-1	-70	77	99	3	0	12	270	241	99	3	2	1	641	629	99	3	4	-12	93	70	99
2	19	7	319	310	99	2	22	0	79	140	99	3	0	14	507	539	99	3	2	2	1015	964	99	3	4	-11	724	730	99
2	19	8	-49	31	99	2	22	1	167	122	99	3	0	16	157	231	99	3	2	3	76	69	99	3	4	-10	586	594	99
2	19	9	-28	67	99	2	22	2	372	381	99	3	1	-17	303	255	99	3	2	4	996	960	99	3	4	-9	557	554	99
2	19	10	-205	17	99	2	22	3	-126	48	99	3	1	-16	69	4	99	3	2	5	495	513	99	3	4	-8	208	176	99
2	19	11	171	138	99	2	22	4	62	21	99	3	1	-15	238	198	99	3	2	6	197	188	99	3	4	-7	149	154	99
2	20	-11	46	70	99	2	22	5	34	86	99	3	1	-14	83	20	99	3	2	7	511	500	99	3	4	-6	66	89	99
2	20	-10	62	191	99	2	22	6	191	220	99	3	1	-13	271	255	99	3	2	8	708	676	99	3	4	-5	1735	1641	99
2	20	-9	77	37	99	2	22	7	-57	2	99	3	1	-12	201	206	99	3	2	9	118	55	99	3	4	-4	488	418	99
2	20	-8	410	427	99	2	22	8	121	202	99	3	1	-11	417	439	99	3	2	10	330	312	99	3	4	-3	542	518	99
2	20	-7	102	31	99	2	23	-7	-77	136	99	3	1	-10	-108	35	99	3	2	11	301	268	99	3	4	-2	310	291	99
2	20	-6	114	137	99	2	23	-6	65	97	99	3	1	-9	67	59	99	3	2	12	281	288	99	3	4	-1	873	859	99
2	20	-5	-118	127	99	2	23	-5	-106	54	99	3	1	-8	218	226	99	3	2	13	161	166	99	3	4	0	99	84	99
2	20	-4	357	362	99	2	23	-4	103	136	99	3	1	-7	509	530	99	3	2	14	411	414	99	3	4	1	1504	1489	99
2	20	-3	-164	5	99	2	23	-3	273	266	99	3	1	-6	330	348	99	3	2	15	-94	19	99	3	4	2	79	63	99
2	20	-2	393	393	99	2	23	-2	331	290	99	3	1	-5	18	92	99	3	2	16	-87	19	99	3	4	3	355	331	99
2	20	-1	36	60	99	2	23	-1	76	49	99	3	1	-4	-53	40	99	3	3	-17	256	264	99	3	4	4	386	395	99
2	20	0	57	130	99	2	23	0	-66	96	99	3	1	-3	638	616	99	3	3	-16	248	243	99	3	4	5	568	570	99
3	4	6	102	62	99	3	6	-7	804	774	99	3	7	14	177	73	99	3	9	3	1356	1298	99	3	11	-5	-105	132	99
3	4	7	441	441	99	3	6	-6	-97	15	99	3	7	15	115	86	99	3	9	4	11	47	99	3	11	-4	227	256	99
3	4	8	542	571	99	3	6	-5	971	879	99	3	7	16	-223	59	99	3	9	5	74	78	99	3	11	-3	547	526	99
3	4	9	177	187	99	3	6	-4	382	343	99	3	8	-16	167	164	99	3	9	6	28	49	99	3	11	-2	33	37	99
3	4	10	126	115	99	3	6	-3	556	489	99	3	8	-15	159	127	99	3	9	7	615	607	99	3	11	-1	686	634	99
3	4	11	106	117	99	3	6	-2	429	382	99	3	8	-14	255	206	99	3	9	8	201	154	99	3	11	0	144	172	99
3	4	12	177	183	99	3	6	-1	1237	1200	99	3	8	-13	198	180	99	3	9	9	754	756	99	3	11	1	307	302	99
3	4	13	170	107	99	3	6	0	-16	4	99	3	8	-12	150	84	99	3	9	10	110	126	99	3	11	2	565	556	99
3	4	14	93	234	99	3	6	1	1470	1433	99	3	8	-11	166	172	99	3	9	11	-147	140	99	3	11	3	716	681	99
3	4	15	140	186	99	3	6	2	62	58	99	3	8	-10	169	149	99	3	9	12	-24	129	99	3	11	4	315	321	99
3	4	16	-43	10	99	3	6	3	328	327	99	3	8	-9	263	227	99	3	9	13	275	274	99	3	11	5	183	189	99
3	5	-17	-114	14	99	3	6	4	211	202	99	3	8	-8	519	484	99	3	9	14	167	175	99	3	11	6	296	291	99
3	5	-16	416	424	99	3	6	5	1135	1145	99	3	8	-7	622	559	99	3	9	15	249	281	99	3	11	7	559	540	99
3	5	-15	165	179	99	3	6	6	145	163	99	3	8	-6	84	128	99	3	10	-16	209	180	99	3	11	8	311	292	99
3	5	-14	159	125	99	3	6	7	510	474	99	3	8	-5	716	639	99	3	10	-15	-26	35	99	3	11	9	276	284	99
3	5	-13	241	226	99	3	6	8	60	96	99	3	8	-4	616	552	99	3	10	-14	212	204	99	3	11	10	256	297	99
3	5	-12	408	438	99	3	6	9	283	287	99	3	8	-3	126	122	99	3	10	-13	99	16	99	3	11	11	138	127	99
3	5	-11	32	130	99	3	6	10	194	208	99	3	8	-2	740	703	99	3	10	-12	245	240	99	3	11	12	-89	218	99
3	5	-10	1092	1074	99	3	6	11	357	359	99	3	8	-1	1067	1042	99	3	10	-11	310	275	99	3	11	13	313	345	99
3	5	-9	53	34	99	3	6	12	-29	24	99	3	8	0	736	728	99	3	10	-10	282	279	99	3	11	14	-23	125	99
3	5	-8	252	258	99	3	6	13	107	17	99	3	8	1	847	851	99	3	10	-9	-169	74	99	3	11	15	-40	63	99
3	5	-7	396	387	99	3	6	14	108	24	99	3	8	2	920	899	99	3	10	-8	658	600	99	3	12	-15	221	229	99
3	5	-6	1264	1188	99	3	6	15	144	140	99	3	8	3	271	268	99	3	10	-7	110	113	99	3	12	-14	86	87	99
3	5	-5	308	274	99	3	6	16	96	104	99	3	8	4	436	438	99	3	10	-6	201	182	99	3	12	-13	-121	18	99
3	5	-4	1125	1043	99	3	7	-17	-95	104	99	3	8	5	650	642	99	3	10	-5	486	449	99	3	12	-12	462	453	99
3	5	-3	82	18	99	3	7	-16	89	145	99	3	8	6	460	441	99	3	10	-4	371	375	99	3	12	-11	-104	85	99
3	5	-2	774	734	99	3	7	-15	169	127	99	3	8	7	285	274	99	3	10	-3	99	107	99	3	12	-10	110	37	99
3	5	-1	53	74	99	3	7	-14	82	30	99	3	8	8	822	790	99	3	10	-2	714	692	99	3	12	-9	495	473	99
3	5	0	1246	1234	99	3	7	-13	264	232	99	3	8	9	215	198	99	3	10	-1	341	325	99	3	12	-8	170	66	99
3	5	1	-62	28	99	3	7	-12	296	300	99	3	8	10	323	342	99	3	10	0	97	87	99	3	12	-7	-131	44	99
3	5	2	415	417	99	3	7	-11	154	126	99	3	8	11	77	102	99	3	10	1	289	284	99	3	12	-6	761	696	99
3	5	3	801	788	99	3	7	-10	508	494	99	3	8	12	359	344	99	3	10	2	855	830	99	3	12	-5	362	335	99
3	5	4	207	229	99	3	7	-9	477	460	99	3	8	13	-143	39	99	3	10	3	-120	16	99	3	12	-4	225	213	99
3	5	5	169	183	99	3	7	-8	388	373	99	3	8	14	224	263	99	3	10	4	651	630	99	3	12	-3	503	487	99
3	5	6	635	650	99	3	7	-7	298	260	99	3	8	15	-57	87	99	3	10	5	341	329	99	3	12	-2	294	299	99
3	5	7	-62	15	99	3	7	-6	927	835	99	3	8	16	24	77	99	3	10	6	481	459	99	3	12	-1	349	332	99
3	5	8	55	31	99	3	7	-5	-54	10	99	3	9	-16	-181	189	99	3	10	7	162	122	99	3	12	0	383	391	99
3	5	9	523	528	99	3	7	-4	1045	916	99	3	9	-15	-140	3	99	3	10	8	691	670	99	3	12	1	348	304	99
3	5	10	115	96	99	3	7	-3	855	773	99	3	9	-14	-105	36	99	3	10	9	-75	98	99	3	12	2	730	673	99
3	5	11	-119	47	99	3	7	-2	1135	1056	99	3	9	-13	187	203	99	3	10	10	-107	91	99	3	12	3	430	392	99
3	5	12	179	164	99	3	7	-1	40	60	99	3	9	-12	235	251	99	3	10	11	254	291	99	3	12	4	156	157	99
3	5	13	103	18	99	3	7	0	887	878	99	3	9	-11	222	198	99	3	10	12	335	309	99	3	12	5	278	276	99
3	5	14	68	146	99	3	7	1	504	494	99	3	9	-10	298	260	99	3	10	13	248	284	99	3	12	6	-59	110	99
3	5	15	-123	240	99	3	7	2	611	616	99	3	9	-9	502	501	99	3	10	14	297	330	99	3	12	7	277	276	99
3	5	16	-192	119	99	3	7	3	592	546	99	3	9	-8	131	78	99	3	10	15	-191	15	99	3	12	8	515	508	99
3	6	-17	91	27	99	3	7	4	895	893	99	3	9	-7	49	149	99	3	11	-15	-39	54	99	3	12	9	28	35	99
3	6	-16	109	119	99	3	7	5	240	272	99	3	9	-6	492	468	99	3	11	-14	63	11	99	3	12	10	-143	52	99
3	6	-15	206	234	99	3	7	6	574	573	99	3	9	-5	89	103	99	3	11	-13	354	346	99	3	12	11	262	252	99
3	6	-14	316	295	99	3	7	7	343	359	99	3	9	-4	279	262	99	3	11	-12	60	73	99	3	12	12	280	275	99
3	6	-13	210	224	99	3	7	8	394	418	99	3	9	-3	1144	1073	99	3	11	-11	343	337	99	3	12	13	97	122	99
3	6	-12	288	291	99	3	7	9	191	204	99	3	9	-2	108	76	99	3	11	-10	139	84	99	3	12	14	122	164	99
3	6	-11	419	409	99	3	7	10	571	576	99	3	9	-1	153	152	99	3	11	-9	-107	21	99	3	13	-15	76	189	99
3	6	-10	214	219	99	3	7	11	104	65	99	3	9	0	569	563	99	3	11	-8	-47	19	99	3	13	-14	121	180	99
3	6	-9	412	397	99	3	7	12	-25	31	99	3	9	1	717	694	99	3	11	-7	741	698	99	3	13	-13	128	103	99
3	6	-8	605	548	99	3	7	13	214	161	99	3	9	2	270	292	99	3	11	-6	75	79	99	3	13	-12	102	123	99

h	k	l	Fo	Fc	sigF2
3	13	-11	247	233	99
3	13	-10	416	416	99
3	13	-9	-115	52	99
3	13	-8	460	441	99
3	13	-7	261	247	99
3	13	-6	311	319	99
3	13	-5	32	53	99
3	13	-4	797	753	99
3	13	-3	-190	12	99
3	13	-2	335	317	99
3	13	-1	352	331	99
3	13	0	399	401	99
3	13	1	516	499	99
3	13	2	764	732	99
3	13	3	266	289	99
3	13	4	-138	29	99
3	13	5	74	102	99
3	13	6	452	439	99
3	13	7	536	531	99
3	13	8	168	209	99
3	13	9	220	251	99
3	13	10	242	233	99
3	13	11	101	42	99
3	13	12	-104	169	99
3	13	13	259	305	99
3	13	14	121	43	99
3	14	-14	171	185	99
3	14	-13	120	157	99
3	14	-12	-70	23	99
3	14	-11	350	348	99
3	14	-10	128	163	99
3	14	-9	327	332	99
3	14	-8	47	157	99
3	14	-7	127	85	99
3	14	-6	77	24	99
3	14	-5	784	750	99
3	14	-4	-37	108	99
3	14	-3	478	461	99
3	14	-2	82	55	99
3	14	-1	43	51	99
3	14	0	91	20	99
3	14	1	1107	1081	99
3	14	2	553	511	99
3	14	3	84	74	99
3	14	4	209	191	99
3	14	5	470	455	99
3	14	6	108	51	99
3	14	7	572	557	99
3	14	8	503	520	99
3	14	9	98	121	99
3	14	10	148	144	99
3	14	11	256	302	99
3	14	12	116	134	99
3	14	13	-96	127	99
3	15	-14	162	124	99
3	15	-13	218	153	99
3	15	-12	130	77	99
3	15	-11	-141	63	99
3	15	-10	130	222	99
3	15	-9	231	239	99
3	15	-8	218	202	99
3	15	-7	265	236	99
3	15	-6	489	475	99
3	15	-5	115	27	99
3	15	-4	479	486	99
3	15	-3	-84	10	99
3	15	-2	107	145	99
3	15	-1	276	272	99
3	15	0	1043	1011	99
3	15	1	178	141	99
3	15	2	247	219	99
3	15	3	-133	77	99
3	15	4	-78	42	99
3	15	5	14	42	99
3	15	6	819	798	99
3	15	7	161	180	99
3	15	8	104	165	99
3	15	9	96	84	99
3	15	10	184	189	99
3	15	11	74	4	99
3	15	12	380	416	99
3	15	13	-141	68	99
3	16	-13	108	78	99
3	16	-12	132	68	99
3	16	-11	178	156	99
3	16	-10	269	244	99
3	16	-9	103	144	99
3	16	-8	-74	220	99
3	16	-7	143	16	99
3	16	-6	-101	94	99
3	16	-5	606	616	99
3	16	-4	275	259	99
3	16	-3	252	225	99
3	16	-2	210	192	99
3	16	-1	396	382	99
3	16	0	-62	23	99
3	16	1	881	897	99
3	16	2	145	151	99
3	16	3	82	88	99
3	16	4	87	14	99
3	16	5	570	532	99
3	16	6	73	74	99
3	16	7	560	574	99
3	16	8	170	164	99
3	16	9	-63	96	99
3	16	10	113	8	99
3	16	11	354	372	99
3	16	12	108	20	99
3	17	-12	-81	35	99
3	17	-11	50	94	99
3	17	-10	215	219	99
3	17	-9	138	171	99
3	17	-8	128	104	99
3	17	-7	295	273	99
3	17	-6	343	310	99
3	17	-5	296	298	99
3	17	-4	338	350	99
3	17	-3	326	305	99
3	17	-2	-57	20	99
3	17	-1	346	325	99
3	17	0	465	450	99
3	17	1	407	428	99
3	17	2	555	544	99
3	17	3	316	320	99
3	17	4	208	205	99
3	17	5	119	143	99
3	17	6	383	373	99
3	17	7	357	370	99
3	17	8	73	144	99
3	17	9	114	106	99
3	17	10	191	174	99
3	17	11	-52	30	99
3	17	12	109	116	99
3	18	-12	137	134	99
3	18	-11	-89	25	99
3	18	-10	-75	181	99
3	18	-9	411	372	99
3	18	-8	261	228	99
3	18	-7	-145	23	99
3	18	-6	88	125	99
3	18	-5	285	311	99
3	18	-4	438	439	99
3	18	-3	367	372	99
3	18	-2	330	292	99
3	18	-1	159	155	99
3	18	0	26	73	99
3	18	1	301	303	99
3	18	2	514	499	99
3	18	3	235	257	99
3	18	4	233	224	99
3	18	5	137	148	99
3	18	6	128	142	99
3	18	7	141	149	99
3	18	8	247	230	99
3	18	9	-113	15	99
3	18	10	-129	107	99
3	18	11	108	64	99
3	19	-11	-65	59	99
3	19	-10	105	173	99
3	19	-9	149	177	99
3	19	-8	75	36	99
3	19	-7	384	358	99
3	19	-6	-45	27	99
3	19	-5	101	59	99
3	19	-4	358	357	99
3	19	-3	356	375	99
3	19	-2	-151	61	99
3	19	-1	230	229	99
3	19	0	83	38	99
3	19	1	219	235	99
3	19	2	228	264	99
3	19	3	310	333	99
3	19	4	-149	6	99
3	19	5	-126	30	99
3	19	6	-38	6	99
3	19	7	240	266	99
3	19	8	114	131	99
3	19	9	111	159	99
3	19	10	68	21	99
3	20	-10	-11	3	99
3	20	-9	80	18	99
3	20	-8	456	410	99
3	20	-7	56	16	99
3	20	-6	90	125	99
3	20	-5	58	49	99
3	20	-4	152	123	99
3	20	-3	63	145	99
3	20	-2	370	387	99
3	20	-1	70	4	99
3	20	0	-128	67	99
3	20	1	-137	44	99
3	20	2	231	213	99
3	20	3	-180	64	99
3	20	4	-140	171	99
3	20	5	90	45	99
3	20	6	208	182	99
3	20	7	104	42	99
3	20	8	155	212	99
3	20	9	33	64	99
3	21	-9	123	177	99
3	21	-8	-131	112	99
3	21	-7	15	200	99
3	21	-6	-25	55	99
3	21	-5	39	12	99
3	21	-4	105	59	99
3	21	-3	298	293	99
3	21	-2	63	124	99
3	21	-1	101	71	99
3	21	0	97	88	99
3	21	1	132	156	99
3	21	2	-152	3	99
3	21	3	323	316	99
3	21	4	84	59	99
3	21	5	48	133	99
3	21	6	-21	56	99
3	21	7	139	203	99
3	21	8	-80	66	99
3	22	-8	130	142	99
3	22	-7	115	105	99
3	22	-6	-133	42	99
3	22	-5	-12	109	99
3	22	-4	212	197	99
3	22	-3	204	187	99
3	22	-2	173	170	99
3	22	-1	158	126	99
3	22	0	160	179	99
3	22	1	-87	82	99
3	22	2	318	310	99
3	22	3	67	9	99
3	22	4	-49	72	99
3	22	5	156	154	99
3	22	6	162	196	99
3	22	7	-123	33	99
3	23	-6	147	105	99
3	23	-5	190	82	99
3	23	-4	170	202	99
3	23	-3	241	223	99
3	23	-2	81	77	99
3	23	-1	108	90	99
3	23	0	75	178	99
3	23	1	241	242	99
3	23	2	43	179	99
3	23	3	137	147	99
3	23	4	173	218	99
3	23	5	64	81	99
3	23	6	42	158	99
3	24	-4	133	126	99
3	24	-3	84	63	99
3	24	-2	79	63	99
3	24	-1	227	233	99
3	24	0	120	126	99
3	24	1	239	222	99
3	24	2	120	117	99
3	24	3	42	8	99
4	0	-16	193	170	99
4	0	-14	245	235	99
4	0	-12	193	339	99
4	0	-10	-72	65	99
4	0	-8	184	199	99
4	0	-6	807	801	99
4	0	-4	760	796	99
4	0	-2	1070	1167	99
4	0	0	1010	1025	99
4	0	2	1616	1614	99
4	0	4	1459	1438	99
4	0	6	599	572	99
4	0	8	1316	1347	99
4	0	10	803	782	99
4	0	12	44	39	99
4	0	14	482	538	99
4	0	16	126	230	99
4	1	-17	181	167	99
4	1	-16	-111	54	99
4	1	-15	189	212	99
4	1	-14	-170	17	99
4	1	-13	130	127	99
4	1	-12	-87	12	99
4	1	-11	426	463	99
4	1	-10	105	36	99
4	1	-9	83	40	99
4	1	-8	-27	126	99
4	1	-7	842	869	99
4	1	-6	78	4	99
4	1	-5	391	399	99
4	1	-4	56	87	99
4	1	-3	907	950	99
4	1	-2	41	140	99
4	1	-1	1533	1556	99
4	1	0	789	784	99
4	1	1	144	157	99
4	1	2	114	140	99
4	1	3	1561	1659	99
4	1	4	17	41	99
4	1	5	1075	1143	99
4	1	6	448	456	99
4	1	7	584	572	99
4	1	8	252	247	99
4	1	9	1053	1083	99
4	1	10	166	142	99
4	1	11	401	408	99
4	1	12	273	308	99
4	1	13	430	421	99
4	1	14	57	3	99
4	1	15	329	325	99
4	1	16	-225	9	99
4	2	-17	80	14	99
4	2	-16	201	220	99
4	2	-15	-152	29	99
4	2	-14	121	75	99
4	2	-13	290	344	99
4	2	-12	504	536	99
4	2	-11	180	181	99
4	2	-10	122	129	99
4	2	-9	54	21	99
4	2	-8	436	430	99
4	2	-7	384	389	99
4	2	-6	1004	1007	99
4	2	-5	450	453	99
4	2	-4	-45	32	99
4	2	-3	-84	37	99
4	2	-2	1052	1095	99
4	2	-1	221	227	99
4	2	0	878	889	99
4	2	1	852	904	99
4	2	2	618	613	99
4	2	3	219	225	99
4	2	4	1235	1254	99
4	2	5	263	244	99
4	2	6	90	63	99
4	2	7	552	565	99
4	2	8	511	550	99
4	2	9	208	167	99
4	2	10	630	682	99
4	2	11	215	279	99
4	2	12	41	112	99
4	2	13	244	235	99
4	2	14	280	329	99
4	2	15	-80	102	99
4	2	16	-71	120	99
4	3	-17	115	156	99
4	3	-16	204	169	99
4	3	-15	90	119	99
4	3	-14	271	260	99
4	3	-13	331	339	99
4	3	-12	61	27	99
4	3	-11	303	312	99
4	3	-10	458	469	99
4	3	-9	213	226	99
4	3	-8	653	648	99
4	3	-7	920	971	99
4	3	-6	84	120	99
4	3	-5	775	765	99
4	3	-4	758	761	99
4	3	-3	339	332	99
4	3	-2	550	507	99
4	3	-1	1172	1168	99
4	3	0	87	107	99
4	3	1	230	253	99
4	3	2	912	931	99
4	3	3	818	886	99
4	3	4	128	91	99
4	3	5	478	505	99
4	3	6	478	501	99
4	3	7	258	246	99
4	3	8	256	244	99
4	3	9	547	564	99
4	3	10	189	217	99
4	3	11	132	42	99
4	3	12	316	349	99
4	3	13	89	108	99
4	3	14	63	16	99
4	3	15	172	173	99
4	3	16	118	154	99
4	4	-17	131	169	99
4	4	-16	208	190	99
4	4	-15	378	395	99
4	4	-14	69	130	99
4	4	-13	229	243	99
4	4	-12	123	145	99
4	4	-11	298	291	99
4	4	-10	418	439	99
4	4	-9	838	868	99
4	4	-8	749	766	99
4	4	-7	753	753	99
4	4	-6	59	89	99
4	4	-5	719	675	99
4	4	-4	279	273	99
4	4	-3	886	845	99
4	4	-2	1058	1031	99
4	4	-1	666	651	99
4	4	0	209	185	99
4	4	1	144	166	99
4	4	2	354	360	99
4	4	3	610	617	99
4	4	4	891	913	99
4	4	5	155	109	99
4	4	6	-78	42	99
4	4	7	320	324	99
4	4	8	-105	126	99
4	4	9	78	30	99
4	4	10	311	352	99
4	4	11	263	306	99
4	4	12	-54	66	99
4	4	13	-168	67	99
4	4	14	127	103	99
4	4	15	-151	146	99
4	4	16	110	70	99
4	5	-16	251	263	99
4	5	-15	156	180	99
4	5	-14	446	460	99
4	5	-13	63	80	99
4	5	-12	-145	62	99
4	5	-11	38	71	99
4	5	-10	495	505	99
4	5	-9	106	33	99
4	5	-8	1009	1000	99
4	5	-7	-44	41	99
4	5	-6	-77	38	99
4	5	-5	195	176	99
4	5	-4	986	931	99
4	5	-3	371	350	99
4	5	-2	1219	1149	99
4	5	-1	317	281	99
4	5	0	380	363	99
4	5	1	345	347	99
4	5	2	668	644	99
4	5	3	480	491	99
4	5	4	17	124	99
4	5	5	80	21	99
4	5	6	300	305	99
4	5	7	-55	86	99
4	5	8	59	147	99
4	5	9	230	237	99
4	5	10	217	238	99
4	5	11	-48	41	99
4	5	12	91	164	99
4	5	13	106	27	99
4	5	14	-158	16	99
4	5	15	128	98	99
4	6	-16	-30	4	99
4	6	-15	394	384	99
4	6	-14	109	85	99
4	6	-13	178	179	99
4	6	-12	138	164	99
4	6	-11	202	177	99
4	6	-10	82	106	99
4	6	-9	755	747	99
4	6	-8	162	168	99
4	6	-7	-22	21	99
4	6	-6	361	342	99
4	6	-5	67	66	99
4	6	-4	181	159	99
4	6	-3	1217	1118	99
4	6	-2	187	144	99
4	6	-1	213	198	99
4	6	0	372	358	99
4	6	1	388	409	99
4	6	2	288	274	99
4	6	3	667	665	99
4	6	4	-157	66	99
4	6	5	391	398	99
4	6	6	-106	116	99
4	6	7	142	136	99
4	6	8	72	116	99
4	6	9	249	242	99
4	6	10	-163	7	99
4	6	11	335	416	99
4	6	12	97	45	99
4	6	13	202	112	99
4	6	14	124	34	99
4	6	15	-226	28	99
4	7	-16	49	20	99
4	7	-15	118	69	99
4	7	-14	270	269	99
4	7	-13	141	140	99
4	7	-12	125	106	99
4	7	-11	170	135	99
4	7	-10	265	242	99
4	7	-9	126	113	99
4	7	-8	371	368	99
4	7	-7	466	441	99
4	7	-6	98	23	99
4	7	-5	229	212	99
4	7	-4	397	346	99
4	7	-3	133	133	99
4	7	-2	157	141	99
4	7	-1	678	646	99
4	7	0	95	86	99
4	7	1	328	312	99
4	7	2	369	357	99
4	7	3	587	528	99
4	7	4	163	163	99
4	7	5	339	345	99
4	7	6	242	226	99
4	7	7	107	100	99
4	7	8	227	263	99
4	7	9	344	342	99
4	7	10	389	420	99
4	7	11	-96	73	99
4	7	12	-10	106	99
4	7	13	-102	12	99
4	7	14	154	97	99
4	7	15	154	142	99
4	8	-16	174	143	99
4	8	-15	-155	129	99
4	8	-14	98	101	99
4	8	-13	-49	67	99
4	8	-12	142	56	99
4	8	-11	71	63	99
4	8	-10	-103	80	99
4	8	-9	350	352	99
4	8	-8	350	280	99
4	8	-7	-113	43	99
4	8	-6	105	103	99
4	8	-5	41	102	99
4	8	-4	-47	7	99
4	8	-3	358	343	99
4	8	-2	1050	1026	99
4	8	-1	309	299	99
4	8	0	156	161	99
4	8	1	52	94	99
4	8	2	249	232	99
4	8	3	38	49	99
4	8	4	953	944	99
4	8	5	192	181	99
4	8	6	153	173	99
4	8	7	-50	26	99
4	8	8	237	244	99
4	8	9	197	23	99
4	8	10	640	671	99
4	8	11	101	116	99
4	8	12	42	69	99
4	8	13	92	143	99
4	8	14	-79	122	99
4	8	15	-153	27	99
4	9	-16	120	163	99
4	9	-15	165	166	99
4	9	-14	28	58	99
4	9	-13	148	137	99
4	9	-12	19	17	99
4	9	-11	68	167	99
4	9	-10	151	183	99
4	9	-9	168	108	99
4	9	-8	214	210	99
4	9	-7	390	330	99
4	9	-6	200	152	99
4	9	-5	232	197	99
4	9	-4	126	84	99
4	9	-3	736	691	99
4	9	-2	292	281	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	9	-1	690	689	99	4	11	-7	698	615	99	4	13	-11	151	130	99	4	15	-11	-107	36	99	4	17	-7	-156	69	99
4	9	0	330	345	99	4	11	-6	232	195	99	4	13	-10	552	530	99	4	15	-10	321	342	99	4	17	-6	97	74	99
4	9	1	109	72	99	4	11	-5	410	392	99	4	13	-9	92	65	99	4	15	-9	112	64	99	4	17	-5	90	52	99
4	9	2	328	328	99	4	11	-4	388	357	99	4	13	-8	469	426	99	4	15	-8	418	396	99	4	17	-4	453	431	99
4	9	3	1004	980	99	4	11	-3	514	509	99	4	13	-7	227	164	99	4	15	-7	96	82	99	4	17	-3	86	132	99
4	9	4	96	73	99	4	11	-2	135	126	99	4	13	-6	168	122	99	4	15	-6	235	201	99	4	17	-2	320	295	99
4	9	5	479	473	99	4	11	-1	631	626	99	4	13	-5	-111	29	99	4	15	-5	61	77	99	4	17	-1	167	197	99
4	9	6	93	99	99	4	11	0	352	354	99	4	13	-4	757	745	99	4	15	-4	626	589	99	4	17	0	213	201	99
4	9	7	-95	102	99	4	11	1	-85	42	99	4	13	-3	266	230	99	4	15	-3	-105	105	99	4	17	1	-100	134	99
4	9	8	289	306	99	4	11	2	567	550	99	4	13	-2	314	312	99	4	15	-2	262	232	99	4	17	2	347	329	99
4	9	9	741	741	99	4	11	3	554	526	99	4	13	-1	682	674	99	4	15	-1	111	22	99	4	17	3	116	157	99
4	9	10	-109	40	99	4	11	4	129	154	99	4	13	0	223	230	99	4	15	0	755	725	99	4	17	4	69	93	99
4	9	11	136	214	99	4	11	5	530	500	99	4	13	1	312	304	99	4	15	1	103	149	99	4	17	5	191	213	99
4	9	12	-115	21	99	4	11	6	420	414	99	4	13	2	678	696	99	4	15	2	336	307	99	4	17	6	308	309	99
4	9	13	-115	108	99	4	11	7	264	247	99	4	13	3	556	557	99	4	15	3	249	248	99	4	17	7	141	116	99
4	9	14	-57	64	99	4	11	8	321	343	99	4	13	4	-64	10	99	4	15	4	-53	25	99	4	17	8	95	49	99
4	9	15	274	307	99	4	11	9	334	373	99	4	13	5	374	347	99	4	15	5	-82	88	99	4	17	9	130	89	99
4	10	-15	-97	31	99	4	11	10	165	198	99	4	13	6	410	395	99	4	15	6	637	637	99	4	17	10	211	196	99
4	10	-14	-131	103	99	4	11	11	219	191	99	4	13	7	318	297	99	4	15	7	198	230	99	4	17	11	87	166	99
4	10	-13	81	38	99	4	11	12	228	218	99	4	13	8	145	162	99	4	15	8	78	140	99	4	18	-11	103	32	99
4	10	-12	250	225	99	4	11	13	122	168	99	4	13	9	327	296	99	4	15	9	143	164	99	4	18	-10	-112	41	99
4	10	-11	183	162	99	4	11	14	-229	79	99	4	13	10	180	189	99	4	15	10	189	209	99	4	18	-9	505	455	99
4	10	-10	184	203	99	4	12	-15	254	267	99	4	13	11	71	135	99	4	15	11	94	10	99	4	18	-8	97	74	99
4	10	-9	119	76	99	4	12	-14	-197	25	99	4	13	12	171	193	99	4	15	12	291	350	99	4	18	-7	211	195	99
4	10	-8	587	561	99	4	12	-13	-4	57	99	4	13	13	18	125	99	4	16	-13	230	248	99	4	18	-6	233	231	99
4	10	-7	285	254	99	4	12	-12	359	378	99	4	14	-14	126	135	99	4	16	-12	-54	98	99	4	18	-5	63	133	99
4	10	-6	399	355	99	4	12	-11	159	113	99	4	14	-13	377	373	99	4	16	-11	187	210	99	4	18	-4	110	125	99
4	10	-5	-97	130	99	4	12	-10	86	24	99	4	14	-12	70	35	99	4	16	-10	92	29	99	4	18	-3	450	424	99
4	10	-4	95	5	99	4	12	-9	599	553	99	4	14	-11	331	270	99	4	16	-9	304	305	99	4	18	-2	70	111	99
4	10	-3	212	214	99	4	12	-8	142	140	99	4	14	-10	-50	32	99	4	16	-8	-116	18	99	4	18	-1	90	75	99
4	10	-2	766	710	99	4	12	-7	210	212	99	4	14	-9	513	496	99	4	16	-7	212	221	99	4	18	0	158	143	99
4	10	-1	458	446	99	4	12	-6	626	551	99	4	14	-8	64	52	99	4	16	-6	-109	42	99	4	18	1	-114	27	99
4	10	0	462	461	99	4	12	-5	586	561	99	4	14	-7	233	206	99	4	16	-5	433	391	99	4	18	2	124	153	99
4	10	1	518	495	99	4	12	-4	281	259	99	4	14	-6	-172	78	99	4	16	-4	90	110	99	4	18	3	67	189	99
4	10	2	421	412	99	4	12	-3	798	781	99	4	14	-5	642	592	99	4	16	-3	407	379	99	4	18	4	94	142	99
4	10	3	256	287	99	4	12	-2	469	437	99	4	14	-4	229	235	99	4	16	-2	-125	37	99	4	18	5	70	149	99
4	10	4	919	895	99	4	12	-1	213	227	99	4	14	-3	550	546	99	4	16	-1	137	118	99	4	18	6	-126	88	99
4	10	5	427	439	99	4	12	0	311	308	99	4	14	-2	295	293	99	4	16	0	57	95	99	4	18	7	93	39	99
4	10	6	139	82	99	4	12	1	625	579	99	4	14	-1	-158	52	99	4	16	1	499	486	99	4	18	8	108	123	99
4	10	7	301	309	99	4	12	2	351	318	99	4	14	0	127	158	99	4	16	2	89	58	99	4	18	9	-55	90	99
4	10	8	496	522	99	4	12	3	417	408	99	4	14	1	884	877	99	4	16	3	-89	91	99	4	18	10	82	131	99
4	10	9	99	177	99	4	12	4	418	414	99	4	14	2	368	340	99	4	16	4	78	29	99	4	19	-10	132	101	99
4	10	10	387	381	99	4	12	5	317	335	99	4	14	3	228	193	99	4	16	5	385	390	99	4	19	-9	-121	101	99
4	10	11	268	252	99	4	12	6	188	182	99	4	14	4	238	256	99	4	16	6	185	191	99	4	19	-8	249	277	99
4	10	12	113	96	99	4	12	7	386	406	99	4	14	5	258	259	99	4	16	7	404	372	99	4	19	-7	297	263	99
4	10	13	-111	92	99	4	12	8	329	337	99	4	14	6	-131	29	99	4	16	8	-139	92	99	4	19	-6	59	92	99
4	10	14	239	264	99	4	12	9	77	11	99	4	14	7	514	491	99	4	16	9	143	124	99	4	19	-5	263	168	99
4	11	-15	-33	14	99	4	12	10	255	228	99	4	14	8	274	283	99	4	16	10	66	8	99	4	19	-4	251	184	99
4	11	-14	-133	112	99	4	12	11	240	237	99	4	14	9	-71	91	99	4	16	11	259	288	99	4	19	-3	197	173	99
4	11	-13	204	156	99	4	12	12	-74	3	99	4	14	10	211	213	99	4	16	12	101	57	99	4	19	-2	247	234	99
4	11	-12	101	15	99	4	12	13	47	112	99	4	14	11	284	261	99	4	17	-12	-182	40	99	4	19	-1	241	219	99
4	11	-11	320	335	99	4	12	14	85	177	99	4	14	12	106	23	99	4	17	-11	24	54	99	4	19	0	-150	20	99
4	11	-10	166	162	99	4	13	-14	317	319	99	4	14	13	-93	181	99	4	17	-10	353	328	99	4	19	1	-49	68	99
4	11	-9	59	59	99	4	13	-13	-155	36	99	4	15	-13	-71	71	99	4	17	-9	98	112	99	4	19	2	-86	92	99
4	11	-8	143	144	99	4	13	-12	80	47	99	4	15	-12	148	130	99	4	17	-8	422	400	99	4	19	3	31	114	99
4	19	4	-72	17	99	4	23	-4	212	224	99	5	1	14	-149	104	99	5	3	5	485	496	99	5	5	-4	525	490	99
4	19	5	201	203	99	4	23	-3	85	65	99	5	1	15	-13	80	99	5	3	6	270	277	99	5	5	-3	104	112	99
4	19	6	-110	33	99	4	23	-2	-61	13	99	5	2	-16	175	153	99	5	3	7	47	104	99	5	5	-2	794	790	99
4	19	7	-93	32	99	4	23	-1	-141	9	99	5	2	-15	82	37	99	5	3	8	336	353	99	5	5	-1	96	139	99
4	19	8	-186	24	99	4	23	0	180	189	99	5	2	-14	121	152	99	5	3	9	-73	77	99	5	5	0	-91	72	99
4	19	9	112	105	99	4	23	1	-39	70	99	5	2	-13	228	289	99	5	3	10	-136	25	99	5	5	1	205	195	99
4	20	-9	86	106	99	4	23	2	222	230	99	5	2	-12	389	456	99	5	3	11	-163	77	99	5	5	2	569	568	99
4	20	-8	205	171	99	4	23	3	147	136	99	5	2	-11	-24	5	99	5	3	12	266	266	99	5	5	3	368	362	99
4	20	-7	114	52	99	4	23	4	-105	18	99	5	2	-10	290	311	99	5	3	13	108	97	99	5	5	4	460	488	99
4	20	-6	170	158	99	5	0	-16	149	137	99	5	2	-9	146	134	99	5	3	14	186	175	99	5	5	5	-35	14	99
4	20	-5	121	152	99	5	0	-14	-110	33	99	5	2	-8	345	367	99	5	3	15	-43	32	99	5	5	6	367	368	99
4	20	-4	131	108	99	5	0	-12	539	511	99	5	2	-7	360	372	99	5	4	-16	137	119	99	5	5	7	88	106	99
4	20	-3	83	124	99	5	0	-10	127	201	99	5	2	-6	1180	1231	99	5	4	-15	180	213	99	5	5	8	477	479	99
4	20	-2	283	293	99	5	0	-8	679	654	99	5	2	-5	265	242	99	5	4	-14	85	97	99	5	5	9	122	150	99
4	20	-1	85	8	99	5	0	-6	1066	1035	99	5	2	-4	279	277	99	5	4	-13	329	396	99	5	5	10	102	14	99
4	20	0	192	159	99	5	0	-4	54	46	99	5	2	-3	327	316	99	5	4	-12	85	133	99	5	5	11	80	43	99
4	20	1	81	101	99	5	0	-2	802	798	99	5	2	-2	955	981	99	5	4	-11	215	231	99	5	5	12	383	398	99
4	20	2	-59	16	99	5	0	0	1467	1565	99	5	2	-1	254	259	99	5	4	-10	267	273	99	5	5	13	-158	92	99
4	20	3	-135	28	99	5	0	2	471	461	99	5	2	0	1060	1088	99	5	4	-9	570	587	99	5	5	14	-98	203	99
4	20	4	214	202	99	5	0	4	601	668	99	5	2	1	835	841	99	5	4	-8	459	440	99	5	5	15	-141	6	99
4	20	5	-78	46	99	5	0	6	924	913	99	5	2	2	-74	32	99	5	4	-7	728	696	99	5	6	-16	44	108	99
4	20	6	95	84	99	5	0	8	571	568	99	5	2	3	85	96	99	5	4	-6	148	170	99	5	6	-15	79	43	99
4	20	7	119	89	99	5	0	10	130	214	99	5	2	4	426	470	99	5	4	-5	238	243	99	5	6	-14	-54	1	99
4	20	8	98	65	99	5	0	12	192	194	99	5	2	5	-41	14	99	5	4	-4	309	305	99	5	6	-13	287	287	99
4	21	-8	83	6	99	5	0	14	179	180	99	5	2	6	371	372	99	5	4	-3	854	837	99	5	6	-12	177	177	99
4	21	-7	126	130	99	5	1	-16	9	32	99	5	2	7	644	654	99	5	4	-2	449	462	99	5	6	-11	346	389	99
4	21	-6	-18	117	99	5	1	-15	-124	36	99	5	2	8	-112	45	99	5	4	-1	517	531	99	5	6	-10	264	302	99
4	21	-5	126	37	99	5	1	-14	-40	74	99	5	2	9	169	112	99	5	4	0	157	167	99	5	6	-9	344	371	99
4	21	-4	178	151	99	5	1	-13	-77	177	99	5	2	10	95	59	99	5	4	1	509	505	99	5	6	-8	144	126	99
4	21	-3	-121	96	99	5	1	-12	153	162	99	5	2	11	142	95	99	5	4	2	164	140	99	5	6	-7	381	387	99
4	21	-2	64	32	99	5	1	-11	665	693	99	5	2	12	34	34	99	5	4	3	676	685	99	5	6	-6	275	292	99
4	21	-1	78	184	99	5	1	-10	-39	14	99	5	2	13	371	358	99	5	4	4	335	349	99	5	6	-5	252	235	99
4	21	0	70	110	99	5	1	-9	229	242	99	5	2	14	114	95	99	5	4	5	-54	154	99	5	6	-4	284	294	99
4	21	1	-44	47	99	5	1	-8	-114	97	99	5	2	15	141	43	99	5	4	6	178	188	99	5	6	-3	793	778	99
4	21	2	140	81	99	5	1	-7	820	805	99	5	3	-16	113	18	99	5	4	7	510	556	99	5	6	-2	81	130	99
4	21	3	184	168	99	5	1	-6	76	117	99	5	3	-15	-74	8	99	5	4	8	76	31	99	5	6	-1	171	154	99
4	21	4	131	168	99	5	1	-5	966	921	99	5	3	-14	181	211	99	5	4	9	-28	50	99	5	6	0	470	479	99
4	21	5	134	115	99	5	1	-4	229	249	99	5	3	-13	380	393	99	5	4	10	-166	15	99	5	6	1	415	414	99
4	21	6	61	59	99	5	1	-3	472	478	99	5	3	-12	401	456	99	5	4	11	7	83	99	5	6	2	218	204	99
4	21	7	66	14	99	5	1	-2	111	95	99	5	3	-11	233	256	99	5	4	12	66	140	99	5	6	3	588	561	99
4	22	-7	-131	85	99	5	1	-1	1140	1186	99	5	3	-10	336	350	99	5	4	13	320	320	99	5	6	4	102	38	99
4	22	-6	-141	33	99	5	1	0	504	465	99	5	3	-9	-75	22	99	5	4	14	-130	2	99	5	6	5	272	291	99
4	22	-5	152	118	99	5	1	1	564	565	99	5	3	-8	337	339	99	5	4	15	-195	8	99	5	6	6	313	314	99
4	22	-4	-149	21	99	5	1	2	89	54	99	5	3	-7	698	695	99	5	5	-16	-97	14	99	5	6	7	495	538	99
4	22	-3	214	212	99	5	1	3	481	503	99	5	3	-6	333	315	99	5	5	-15	116	54	99	5	6	8	118	57	99
4	22	-2	153	173	99	5	1	4	-61	103	99	5	3	-5	657	603	99	5	5	-14	272	294	99	5	6	9	323	343	99
4	22	-1	52	107	99	5	1	5	653	626	99	5	3	-4	521	537	99	5	5	-13	21	97	99	5	6	10	-108	60	99
4	22	0	-196	25	99	5	1	6	261	293	99	5	3	-3	224	233	99	5	5	-12	270	282	99	5	6	11	334	379	99
4	22	1	205	200	99	5	1	7	158	130	99	5	3	-2	552	531	99	5	5	-11	-87	130	99	5	6	12	223	217	99
4	22	2	76	100	99	5	1	8	273	293	99	5	3	-1	657	689	99	5	5	-10	40	8	99	5	6	13	312	316	99
4	22	3	150	144	99	5	1	9	174	212	99	5	3	0	-52	136	99	5	5	-9	196	195	99	5	6	14	-130	69	99
4	22	4	202	218	99	5	1	10	81	20	99	5	3	1	645	644	99	5	5	-8	666	657	99	5	7	-15	153	148	99
4	22	5	71	49	99	5	1	11	242	211	99	5	3	2	724	791	99	5	5	-7	162	161	99	5	7	-14	190	142	99
4	22	6	90	21	99	5	1	12	215	177	99	5	3	3	-37	9	99	5	5	-6	395	383	99	5	7	-13	83	78	99
4	23	-5	155	24	99	5	1	13	-88	69	99	5	3	4	278	292	99	5	5	-5	317	310	99	5	7	-12	153	215	99

h	k	l	Fo	Fc	sigF2
5	7	-11	232	274	99
5	7	-10	81	160	99
5	7	-9	130	106	99
5	7	-8	197	205	99
5	7	-7	304	300	99
5	7	-6	241	241	99
5	7	-5	264	256	99
5	7	-4	79	35	99
5	7	-3	332	318	99
5	7	-2	361	360	99
5	7	-1	526	521	99
5	7	0	133	62	99
5	7	1	443	433	99
5	7	2	549	567	99
5	7	3	132	102	99
5	7	4	115	157	99
5	7	5	507	484	99
5	7	6	491	505	99
5	7	7	70	165	99
5	7	8	614	616	99
5	7	9	158	182	99
5	7	10	128	15	99
5	7	11	242	225	99
5	7	12	422	472	99
5	7	13	-67	49	99
5	7	14	250	286	99
5	8	-15	74	99	99
5	8	-14	95	48	99
5	8	-13	194	191	99
5	8	-12	30	46	99
5	8	-11	301	306	99
5	8	-10	279	312	99
5	8	-9	80	27	99
5	8	-8	153	147	99
5	8	-7	312	329	99
5	8	-6	385	387	99
5	8	-5	-159	152	99
5	8	-4	505	485	99
5	8	-3	284	266	99
5	8	-2	725	683	99
5	8	-1	311	279	99
5	8	0	358	359	99
5	8	1	196	172	99
5	8	2	88	129	99
5	8	3	512	496	99
5	8	4	629	647	99
5	8	5	137	141	99
5	8	6	346	356	99
5	8	7	349	340	99
5	8	8	77	4	99
5	8	9	254	269	99
5	8	10	465	541	99
5	8	11	261	280	99
5	8	12	97	82	99
5	8	13	196	237	99
5	8	14	21	22	99
5	9	-15	160	166	99
5	9	-14	33	12	99
5	9	-13	119	114	99
5	9	-12	189	196	99
5	9	-11	121	137	99
5	9	-10	153	141	99
5	9	-9	194	191	99
5	9	-8	133	133	99
5	9	-7	550	518	99
5	9	-6	354	333	99
5	9	-5	513	494	99
5	9	-4	12	30	99
5	9	-3	124	119	99
5	9	-2	349	347	99
5	9	-1	876	879	99
5	9	0	368	364	99
5	9	1	411	412	99
5	9	2	235	228	99
5	9	3	283	275	99
5	9	4	367	347	99
5	9	5	807	738	99
5	9	6	-102	6	99
5	9	7	256	268	99
5	9	8	174	122	99
5	9	9	321	341	99
5	9	10	90	92	99
5	9	11	374	378	99
5	9	12	67	174	99
5	9	13	124	18	99
5	9	14	121	89	99
5	10	-15	-93	49	99
5	10	-14	102	23	99
5	10	-13	-72	10	99
5	10	-12	201	237	99
5	10	-11	142	149	99
5	10	-10	341	331	99
5	10	-9	198	208	99
5	10	-8	98	227	99
5	10	-7	470	474	99
5	10	-6	575	526	99
5	10	-5	131	85	99
5	10	-4	583	549	99
5	10	-3	82	18	99
5	10	-2	391	382	99
5	10	-1	482	462	99
5	10	0	1017	999	99
5	10	1	113	97	99
5	10	2	431	409	99
5	10	3	69	20	99
5	10	4	668	621	99
5	10	5	375	396	99
5	10	6	480	471	99
5	10	7	77	42	99
5	10	8	54	8	99
5	10	9	82	17	99
5	10	10	261	268	99
5	10	11	126	79	99
5	10	12	75	106	99
5	10	13	85	76	99
5	11	-14	161	165	99
5	11	-13	108	169	99
5	11	-12	141	120	99
5	11	-11	422	426	99
5	11	-10	-171	73	99
5	11	-9	-186	97	99
5	11	-8	322	285	99
5	11	-7	547	532	99
5	11	-6	422	408	99
5	11	-5	897	852	99
5	11	-4	196	156	99
5	11	-3	76	99	99
5	11	-2	236	224	99
5	11	-1	713	682	99
5	11	0	601	616	99
5	11	1	896	883	99
5	11	2	74	69	99
5	11	3	106	10	99
5	11	4	-74	20	99
5	11	5	621	569	99
5	11	6	269	276	99
5	11	7	325	333	99
5	11	8	107	9	99
5	11	9	-27	47	99
5	11	10	-136	36	99
5	11	11	238	198	99
5	11	12	52	52	99
5	11	13	129	35	99
5	12	-14	50	15	99
5	12	-13	-67	104	99
5	12	-12	326	316	99
5	12	-11	47	60	99
5	12	-10	165	179	99
5	12	-9	397	379	99
5	12	-8	100	18	99
5	12	-7	219	220	99
5	12	-6	877	840	99
5	12	-5	351	333	99
5	12	-4	275	296	99
5	12	-3	559	516	99
5	12	-2	75	131	99
5	12	-1	153	144	99
5	12	0	901	918	99
5	12	1	93	70	99
5	12	2	256	258	99
5	12	3	426	401	99
5	12	4	201	212	99
5	12	5	81	102	99
5	12	6	492	477	99
5	12	7	-36	79	99
5	12	8	-131	23	99
5	12	9	-71	67	99
5	12	10	90	92	99
5	12	11	189	140	99
5	12	12	128	64	99
5	12	13	18	19	99
5	13	-13	-105	19	99
5	13	-12	-70	81	99
5	13	-11	216	221	99
5	13	-10	334	368	99
5	13	-9	157	144	99
5	13	-8	437	409	99
5	13	-7	107	91	99
5	13	-6	-74	86	99
5	13	-5	537	508	99
5	13	-4	535	527	99
5	13	-3	60	34	99
5	13	-2	353	361	99
5	13	-1	347	328	99
5	13	0	-40	5	99
5	13	1	514	478	99
5	13	2	570	547	99
5	13	3	159	182	99
5	13	4	108	52	99
5	13	5	198	227	99
5	13	6	134	170	99
5	13	7	231	242	99
5	13	8	130	145	99
5	13	9	-142	143	99
5	13	10	-212	65	99
5	13	11	115	120	99
5	13	12	-148	71	99
5	14	-13	231	288	99
5	14	-12	37	3	99
5	14	-11	39	109	99
5	14	-10	96	14	99
5	14	-9	371	370	99
5	14	-8	91	119	99
5	14	-7	327	302	99
5	14	-6	213	231	99
5	14	-5	260	265	99
5	14	-4	-84	82	99
5	14	-3	416	409	99
5	14	-2	212	215	99
5	14	-1	277	235	99
5	14	0	310	304	99
5	14	1	564	537	99
5	14	2	186	157	99
5	14	3	190	191	99
5	14	4	144	96	99
5	14	5	55	56	99
5	14	6	197	218	99
5	14	7	372	386	99
5	14	8	156	140	99
5	14	9	-142	87	99
5	14	10	-22	19	99
5	14	11	57	123	99
5	14	12	97	37	99
5	15	-12	148	207	99
5	15	-11	-129	90	99
5	15	-10	164	198	99
5	15	-9	62	93	99
5	15	-8	217	186	99
5	15	-7	104	25	99
5	15	-6	106	123	99
5	15	-5	143	91	99
5	15	-4	434	413	99
5	15	-3	103	98	99
5	15	-2	175	135	99
5	15	-1	72	39	99
5	15	0	158	120	99
5	15	1	85	19	99
5	15	2	491	477	99
5	15	3	-79	24	99
5	15	4	78	6	99
5	15	5	-119	9	99
5	15	6	353	333	99
5	15	7	-119	94	99
5	15	8	356	334	99
5	15	9	-89	54	99
5	15	10	112	100	99
5	15	11	81	49	99
5	16	-12	111	25	99
5	16	-11	-49	21	99
5	16	-10	25	73	99
5	16	-9	67	87	99
5	16	-8	117	101	99
5	16	-7	245	227	99
5	16	-6	55	48	99
5	16	-5	340	270	99
5	16	-4	78	81	99
5	16	-3	197	221	99
5	16	-2	-78	88	99
5	16	-1	-86	8	99
5	16	0	163	118	99
5	16	1	530	507	99
5	16	2	71	37	99
5	16	3	148	138	99
5	16	4	-129	66	99
5	16	5	212	187	99
5	16	6	220	229	99
5	16	7	450	429	99
5	16	8	109	70	99
5	16	9	-108	6	99
5	16	10	40	149	99
5	17	-11	46	84	99
5	17	-10	-95	19	99
5	17	-9	-109	46	99
5	17	-8	151	164	99
5	17	-7	95	80	99
5	17	-6	76	49	99
5	17	-5	188	180	99
5	17	-4	220	205	99
5	17	-3	98	14	99
5	17	-2	143	99	99
5	17	-1	105	140	99
5	17	0	94	83	99
5	17	1	266	245	99
5	17	2	273	262	99
5	17	3	210	215	99
5	17	4	21	17	99
5	17	5	315	293	99
5	17	6	257	226	99
5	17	7	-281	135	99
5	17	8	-133	92	99
5	17	9	142	223	99
5	17	10	131	77	99
5	18	-10	138	90	99
5	18	-9	104	168	99
5	18	-8	167	98	99
5	18	-7	177	138	99
5	18	-6	223	207	99
5	18	-5	64	20	99
5	18	-4	89	74	99
5	18	-3	164	184	99
5	18	-2	61	33	99
5	18	-1	-158	43	99
5	18	0	365	379	99
5	18	1	130	87	99
5	18	2	114	104	99
5	18	3	99	133	99
5	18	4	286	273	99
5	18	5	188	176	99
5	18	6	317	300	99
5	18	7	51	45	99
5	18	8	84	24	99
5	18	9	-96	32	99
5	19	-9	230	223	99
5	19	-8	-56	173	99
5	19	-7	128	125	99
5	19	-6	-127	4	99
5	19	-5	343	351	99
5	19	-4	-135	12	99
5	19	-3	84	92	99
5	19	-2	-147	116	99
5	19	-1	291	268	99
5	19	0	85	101	99
5	19	1	352	346	99
5	19	2	-70	86	99
5	19	3	55	26	99
5	19	4	135	6	99
5	19	5	288	319	99
5	19	6	91	89	99
5	19	7	141	158	99
5	19	8	63	33	99
5	20	-8	94	28	99
5	20	-7	-166	62	99
5	20	-6	262	271	99
5	20	-5	143	105	99
5	20	-4	314	338	99
5	20	-3	62	20	99
5	20	-2	-28	85	99
5	20	-1	-123	101	99
5	20	0	337	345	99
5	20	1	76	36	99
5	20	2	294	286	99
5	20	3	31	93	99
5	20	4	191	232	99
5	20	5	149	114	99
5	20	6	243	295	99
5	20	7	74	36	99
5	21	-7	53	140	99
5	21	-6	42	16	99
5	21	-5	234	237	99
5	21	-4	-171	54	99
5	21	-3	179	203	99
5	21	-2	186	201	99
5	21	-1	281	297	99
5	21	0	101	48	99
5	21	1	271	264	99
5	21	2	-154	64	99
5	21	3	51	19	99
5	21	4	145	191	99
5	21	5	245	252	99
5	22	-5	106	11	99
5	22	-4	157	197	99
5	22	-3	151	209	99
5	22	-2	158	131	99
5	22	-1	-40	111	99
5	22	0	188	222	99
5	22	1	-87	46	99
5	22	2	93	132	99
5	22	3	153	208	99
5	22	4	103	185	99
6	0	-14	-46	174	99
6	0	-12	35	35	99
6	0	-10	226	245	99
6	0	-8	202	184	99
6	0	-6	88	72	99
6	0	-4	460	456	99
6	0	-2	192	195	99
6	0	0	398	382	99
6	0	2	416	406	99
6	0	4	-103	19	99
6	0	6	505	493	99
6	0	8	-65	96	99
6	0	10	134	198	99
6	0	12	325	282	99
6	0	14	125	110	99
6	1	-15	100	155	99
6	1	-14	202	177	99
6	1	-13	121	119	99
6	1	-12	168	150	99
6	1	-11	335	304	99
6	1	-10	83	91	99
6	1	-9	281	250	99
6	1	-8	120	85	99
6	1	-7	201	208	99
6	1	-6	115	7	99
6	1	-5	538	540	99
6	1	-4	214	217	99
6	1	-3	297	278	99
6	1	-2	110	26	99
6	1	-1	16	65	99
6	1	0	-92	38	99
6	1	1	590	601	99
6	1	2	374	382	99
6	1	3	32	53	99
6	1	4	193	204	99
6	1	5	-106	134	99
6	1	6	-23	124	99
6	1	7	316	347	99
6	1	8	413	418	99
6	1	9	-199	104	99
6	1	10	-125	4	99
6	1	11	202	192	99
6	1	12	89	101	99
6	1	13	-151	99	99
6	1	14	168	159	99
6	2	-15	130	121	99
6	2	-14	112	106	99
6	2	-13	-171	113	99
6	2	-12	181	205	99
6	2	-11	229	198	99
6	2	-10	342	347	99
6	2	-9	-20	39	99
6	2	-8	308	320	99
6	2	-7	19	98	99
6	2	-6	376	387	99
6	2	-5	-57	32	99
6	2	-4	501	497	99
6	2	-3	264	265	99
6	2	-2	291	282	99
6	2	-1	200	232	99
6	2	0	165	188	99
6	2	1	316	311	99
6	2	2	602	626	99
6	2	3	453	458	99
6	2	4	85	13	99
6	2	5	117	163	99
6	2	6	181	207	99
6	2	7	364	356	99
6	2	8	252	241	99
6	2	9	429	414	99
6	2	10	-149	85	99
6	2	11	105	36	99
6	2	12	-129	83	99
6	2	13	352	313	99
6	2	14	-103	16	99
6	3	-15	160	149	99
6	3	-14	-109	35	99
6	3	-13	100	159	99
6	3	-12	215	277	99
6	3	-11	197	218	99
6	3	-10	108	104	99
6	3	-9	459	485	99
6	3	-8	93	72	99
6	3	-7	226	263	99
6	3	-6	545	522	99
6	3	-5	334	337	99
6	3	-4	457	468	99
6	3	-3	477	480	99
6	3	-2	454	467	99
6	3	-1	-34	16	99
6	3	0	274	304	99
6	3	1	191	180	99
6	3	2	936	958	99
6	3	3	555	577	99
6	3	4	423	448	99
6	3	5	174	193	99
6	3	6	65	104	99
6	3	7	64	54	99
6	3	8	636	636	99
6	3	9	205	216	99
6	3	10	267	272	99
6	3	11	94	8	99
6	3	12	149	156	99
6	3	13	110	36	99
6	3	14	292	271	99
6	4	-15	41	22	99
6	4	-14	-67	14	99
6	4	-13	249	265	99
6	4	-12	44	113	99
6	4	-11	161	147	99
6	4	-10	43	67	99
6	4	-9	64	150	99
6	4	-8	107	60	99
6	4	-7	689	707	99
6	4	-6	94	11	99
6	4	-5	119	118	99
6	4	-4	285	277	99
6	4	-3	671	681	99
6	4	-2	76	57	99
6	4	-1	712	704	99
6	4	0	51	123	99
6	4	1	42	119	99
6	4	2	200	111	99
6	4	3	972	1016	99
6	4	4	108	23	99
6	4	5	374	390	99
6	4	6	-215	75	99
6	4	7	453	451	99
6	4	8	105	149	99
6	4	9	562	565	99
6	4	10	-171	14	99
6	4	11	188	116	99
6	4	12	-280	46	99
6	4	13	221	261	99
6	4	14	-64	64	99
6	5	-15	162	95	99
6	5	-14	139	164	99
6	5	-13	-210	45	99
6	5	-12	280	273	99
6	5	-11	-49	141	99
6	5	-10	158	160	99
6	5	-9	-61	3	99
6	5	-8	721	743	99
6	5	-7	134	120	99
6	5	-6	268	267	99
6	5	-5	451	448	99
6	5	-4	393	370	99
6	5	-3	209	173	99
6	5	-2	987	1003	99
6	5	-1	289	286	99
6	5	0	68	19	99
6	5	1	350	364	99
6	5	2	590	624	99
6	5	3	102	1	99
6	5	4	926	974	99
6	5	5	76	121	99
6	5	6	200	182	99
6	5	7	-47	147	99
6	5	8	554	579	99
6	5	9	115	90	99
6	5	10	419	441	99
6	5	11	33	68	99
6	5	12	-70	171	99
6	5	13	-179	25	99
6	5	14	271	237	99
6	6	-15	81	167	99
6	6	-14	-110	50	99
6	6	-13	220	245	99
6	6	-12	-151	161	99
6	6	-11	85	223	99
6	6	-10	229	204	99
6	6	-9	104	140	99
6	6	-8	195	216	99
6	6	-7	342	327	99
6	6	-6	326	321	99
6	6	-5	70	36	99
6	6	-4	528	515	99
6	6	-3	736	713	99
6	6	-2	211	219	99
6	6	-1	524	508	99
6	6	0	518	512	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	6	1	488	484	99	6	8	-1	132	96	99	6	10	-2	84	59	99	6	12	1	248	236	99	6	14	8	153	97	99
6	6	2	337	354	99	6	8	0	463	477	99	6	10	-1	71	64	99	6	12	2	282	283	99	6	14	9	163	176	99
6	6	3	1140	1126	99	6	8	1	500	477	99	6	10	0	480	468	99	6	12	3	212	217	99	6	14	10	-179	19	99
6	6	4	133	41	99	6	8	2	500	512	99	6	10	1	-54	89	99	6	12	4	65	12	99	6	15	-11	-78	79	99
6	6	5	205	219	99	6	8	3	728	686	99	6	10	2	435	424	99	6	12	5	81	100	99	6	15	-10	-135	11	99
6	6	6	287	277	99	6	8	4	325	348	99	6	10	3	185	170	99	6	12	6	259	237	99	6	15	-9	-101	38	99
6	6	7	470	508	99	6	8	5	-51	5	99	6	10	4	250	249	99	6	12	7	-155	31	99	6	15	-8	-201	51	99
6	6	8	102	89	99	6	8	6	436	438	99	6	10	5	99	94	99	6	12	8	22	27	99	6	15	-7	-119	48	99
6	6	9	703	723	99	6	8	7	463	452	99	6	10	6	409	376	99	6	12	9	70	109	99	6	15	-6	-57	70	99
6	6	10	85	10	99	6	8	8	212	225	99	6	10	7	117	225	99	6	12	10	-192	56	99	6	15	-5	159	106	99
6	6	11	79	61	99	6	8	9	488	482	99	6	10	8	169	116	99	6	12	11	49	69	99	6	15	-4	200	187	99
6	6	12	127	149	99	6	8	10	406	452	99	6	10	9	-172	10	99	6	13	-12	140	124	99	6	15	-3	-117	20	99
6	6	13	237	261	99	6	8	11	100	77	99	6	10	10	219	243	99	6	13	-11	206	238	99	6	15	-2	191	181	99
6	7	-15	187	220	99	6	8	12	-75	124	99	6	10	11	-270	13	99	6	13	-10	132	56	99	6	15	-1	10	22	99
6	7	-14	104	72	99	6	8	13	178	215	99	6	10	12	231	202	99	6	13	-9	-41	147	99	6	15	0	-147	71	99
6	7	-13	93	20	99	6	9	-14	69	0	99	6	11	-13	21	30	99	6	13	-8	201	189	99	6	15	1	216	204	99
6	7	-12	203	188	99	6	9	-13	33	64	99	6	11	-12	135	95	99	6	13	-7	56	31	99	6	15	2	364	340	99
6	7	-11	232	248	99	6	9	-12	157	158	99	6	11	-11	320	333	99	6	13	-6	249	252	99	6	15	3	-146	54	99
6	7	-10	246	262	99	6	9	-11	166	174	99	6	11	-10	129	63	99	6	13	-5	262	220	99	6	15	4	170	154	99
6	7	-9	247	257	99	6	9	-10	-200	86	99	6	11	-9	478	489	99	6	13	-4	0	117	99	6	15	5	92	34	99
6	7	-8	313	309	99	6	9	-9	530	554	99	6	11	-8	39	128	99	6	13	-3	93	80	99	6	15	6	-71	28	99
6	7	-7	17	98	99	6	9	-8	275	269	99	6	11	-7	-48	60	99	6	13	-2	260	276	99	6	15	7	141	132	99
6	7	-6	-6	66	99	6	9	-7	57	190	99	6	11	-6	-216	45	99	6	13	-1	19	115	99	6	15	8	306	329	99
6	7	-5	383	380	99	6	9	-6	-172	135	99	6	11	-5	672	681	99	6	13	0	249	266	99	6	15	9	-39	2	99
6	7	-4	242	213	99	6	9	-5	382	393	99	6	11	-4	208	199	99	6	13	1	196	189	99	6	15	10	127	109	99
6	7	-3	513	500	99	6	9	-4	104	140	99	6	11	-3	427	409	99	6	13	2	189	204	99	6	16	-10	80	108	99
6	7	-2	784	799	99	6	9	-3	502	481	99	6	11	-2	101	121	99	6	13	3	-18	39	99	6	16	-9	69	16	99
6	7	-1	424	410	99	6	9	-2	380	373	99	6	11	-1	178	204	99	6	13	4	169	175	99	6	16	-8	-58	14	99
6	7	0	327	325	99	6	9	-1	492	477	99	6	11	0	-103	16	99	6	13	5	90	44	99	6	16	-7	163	146	99
6	7	1	542	513	99	6	9	0	139	84	99	6	11	1	556	545	99	6	13	6	58	122	99	6	16	-6	120	130	99
6	7	2	799	767	99	6	9	1	551	528	99	6	11	2	266	241	99	6	13	7	138	137	99	6	16	-5	118	95	99
6	7	3	258	263	99	6	9	2	458	427	99	6	11	3	-116	106	99	6	13	8	-119	127	99	6	16	-4	-17	93	99
6	7	4	567	574	99	6	9	3	96	123	99	6	11	4	98	145	99	6	13	9	165	131	99	6	16	-3	85	138	99
6	7	5	437	420	99	6	9	4	191	195	99	6	11	5	242	227	99	6	13	10	94	88	99	6	16	-2	84	62	99
6	7	6	285	315	99	6	9	5	558	550	99	6	11	6	-117	6	99	6	13	11	51	33	99	6	16	-1	84	89	99
6	7	7	252	269	99	6	9	6	182	186	99	6	11	7	222	240	99	6	14	-12	-149	54	99	6	16	0	341	340	99
6	7	8	568	606	99	6	9	7	248	274	99	6	11	8	-113	55	99	6	14	-11	87	83	99	6	16	1	256	257	99
6	7	9	104	57	99	6	9	8	343	335	99	6	11	9	84	102	99	6	14	-10	-102	74	99	6	16	2	-54	35	99
6	7	10	302	279	99	6	9	9	94	141	99	6	11	10	112	118	99	6	14	-9	71	118	99	6	16	3	196	222	99
6	7	11	308	341	99	6	9	10	-86	13	99	6	11	11	-112	62	99	6	14	-8	52	102	99	6	16	4	92	67	99
6	7	12	220	210	99	6	9	11	275	288	99	6	11	12	64	10	99	6	14	-7	132	126	99	6	16	5	133	112	99
6	7	13	-195	8	99	6	9	12	-174	16	99	6	12	-13	92	53	99	6	14	-6	132	44	99	6	16	6	264	227	99
6	8	-14	228	252	99	6	9	13	-44	82	99	6	12	-12	63	109	99	6	14	-5	80	15	99	6	16	7	301	322	99
6	8	-13	126	97	99	6	10	-14	176	143	99	6	12	-11	-49	40	99	6	14	-4	75	5	99	6	16	8	-235	50	99
6	8	-12	82	49	99	6	10	-13	87	5	99	6	12	-10	339	344	99	6	14	-3	266	261	99	6	16	9	69	179	99
6	8	-11	182	175	99	6	10	-12	132	126	99	6	12	-9	186	187	99	6	14	-2	34	100	99	6	17	-10	-143	12	99
6	8	-10	285	293	99	6	10	-11	99	135	99	6	12	-8	225	241	99	6	14	-1	278	282	99	6	17	-9	60	39	99
6	8	-9	72	76	99	6	10	-10	447	462	99	6	12	-7	264	236	99	6	14	0	91	98	99	6	17	-8	63	91	99
6	8	-8	256	272	99	6	10	-9	-159	95	99	6	12	-6	258	287	99	6	14	1	233	250	99	6	17	-7	87	5	99
6	8	-7	107	141	99	6	10	-8	165	168	99	6	12	-5	-199	24	99	6	14	2	107	70	99	6	17	-6	85	23	99
6	8	-6	347	354	99	6	10	-7	221	197	99	6	12	-4	459	454	99	6	14	3	227	210	99	6	17	-5	241	245	99
6	8	-5	-115	48	99	6	10	-6	239	247	99	6	12	-3	148	155	99	6	14	4	-202	4	99	6	17	-4	-131	109	99
6	8	-4	478	474	99	6	10	-5	-80	75	99	6	12	-2	195	172	99	6	14	5	189	197	99	6	17	-3	-112	4	99
6	8	-3	509	506	99	6	10	-4	655	689	99	6	12	-1	68	64	99	6	14	6	-71	78	99	6	17	-2	83	156	99
6	8	-2	91	134	99	6	10	-3	166	173	99	6	12	0	378	398	99	6	14	7	-143	145	99	6	17	-1	163	180	99
6	17	0	-85	33	99	6	21	-2	205	204	99	7	2	-6	77	130	99	7	4	-6	184	184	99	7	6	-5	249	248	99
6	17	1	245	257	99	6	21	-1	265	291	99	7	2	-5	221	221	99	7	4	-5	243	267	99	7	6	-4	334	339	99
6	17	2	222	257	99	6	21	0	-78	127	99	7	2	-4	402	388	99	7	4	-4	-37	64	99	7	6	-3	282	270	99
6	17	3	147	104	99	6	21	1	250	269	99	7	2	-3	336	305	99	7	4	-3	528	517	99	7	6	-2	85	49	99
6	17	4	212	171	99	6	21	2	-36	5	99	7	2	-2	522	500	99	7	4	-2	362	333	99	7	6	-1	717	693	99
6	17	5	247	242	99	7	0	-14	159	195	99	7	2	-1	426	435	99	7	4	-1	773	761	99	7	6	0	350	345	99
6	17	6	36	118	99	7	0	-12	521	436	99	7	2	0	94	97	99	7	4	0	159	82	99	7	6	1	-29	19	99
6	17	7	139	191	99	7	0	-10	340	321	99	7	2	1	224	218	99	7	4	1	216	252	99	7	6	2	37	160	99
6	17	8	42	175	99	7	0	-8	473	475	99	7	2	2	498	480	99	7	4	2	-193	68	99	7	6	3	402	399	99
6	18	-9	76	22	99	7	0	-6	301	251	99	7	2	3	138	279	99	7	4	3	458	468	99	7	6	4	128	13	99
6	18	-8	39	111	99	7	0	-4	428	429	99	7	2	4	-100	123	99	7	4	4	202	199	99	7	6	5	334	337	99
6	18	-7	108	81	99	7	0	-2	376	372	99	7	2	5	-66	205	99	7	4	5	501	514	99	7	6	6	-48	118	99
6	18	-6	225	258	99	7	0	0	252	274	99	7	2	6	251	269	99	7	4	6	-161	92	99	7	6	7	131	105	99
6	18	-5	-3	14	99	7	0	2	101	175	99	7	2	7	197	141	99	7	4	7	132	37	99	7	6	8	-119	5	99
6	18	-4	315	288	99	7	0	4	-146	26	99	7	2	8	259	211	99	7	4	8	120	118	99	7	6	9	245	294	99
6	18	-3	108	153	99	7	0	6	524	548	99	7	2	9	217	226	99	7	4	9	202	193	99	7	6	10	131	0	99
6	18	-2	96	1	99	7	0	8	205	183	99	7	2	10	-149	95	99	7	4	10	124	27	99	7	6	11	263	105	99
6	18	-1	-42	66	99	7	0	10	8	214	99	7	2	11	138	97	99	7	4	11	192	111	99	7	6	12	82	16	99
6	18	0	381	399	99	7	0	12	457	422	99	7	2	12	79	244	99	7	4	12	137	150	99	7	7	-13	-97	96	99
6	18	1	-102	52	99	7	1	-14	88	56	99	7	2	13	159	85	99	7	5	-14	136	157	99	7	7	-12	133	152	99
6	18	2	100	107	99	7	1	-13	372	374	99	7	3	-14	133	84	99	7	5	-13	117	47	99	7	7	-11	115	82	99
6	18	3	170	192	99	7	1	-12	90	157	99	7	3	-13	127	147	99	7	5	-12	223	261	99	7	7	-10	-109	63	99
6	18	4	164	165	99	7	1	-11	61	2	99	7	3	-12	268	298	99	7	5	-11	63	192	99	7	7	-9	368	374	99
6	18	5	-118	35	99	7	1	-10	98	20	99	7	3	-11	90	107	99	7	5	-10	160	178	99	7	7	-8	210	223	99
6	18	6	243	280	99	7	1	-9	359	351	99	7	3	-10	-64	6	99	7	5	-9	-40	99	99	7	7	-7	76	13	99
6	18	7	-242	28	99	7	1	-8	52	92	99	7	3	-9	348	357	99	7	5	-8	565	574	99	7	7	-6	306	301	99
6	19	-8	84	86	99	7	1	-7	652	606	99	7	3	-8	241	268	99	7	5	-7	161	132	99	7	7	-5	101	195	99
6	19	-7	150	123	99	7	1	-6	178	105	99	7	3	-7	284	277	99	7	5	-6	480	498	99	7	7	-4	64	2	99
6	19	-6	115	124	99	7	1	-5	192	212	99	7	3	-6	649	688	99	7	5	-5	375	414	99	7	7	-3	373	370	99
6	19	-5	416	420	99	7	1	-4	-186	11	99	7	3	-5	-88	46	99	7	5	-4	92	53	99	7	7	-2	465	438	99
6	19	-4	32	17	99	7	1	-3	531	495	99	7	3	-4	221	235	99	7	5	-3	-57	77	99	7	7	-1	92	225	99
6	19	-3	178	180	99	7	1	-2	-190	72	99	7	3	-3	457	457	99	7	5	-2	838	829	99	7	7	0	76	147	99
6	19	-2	81	148	99	7	1	-1	360	378	99	7	3	-2	552	536	99	7	5	-1	82	29	99	7	7	1	92	171	99
6	19	-1	214	230	99	7	1	0	180	217	99	7	3	-1	240	239	99	7	5	0	481	495	99	7	7	2	160	173	99
6	19	0	100	119	99	7	1	1	558	561	99	7	3	0	675	668	99	7	5	1	324	318	99	7	7	3	55	60	99
6	19	1	372	354	99	7	1	2	229	233	99	7	3	1	93	166	99	7	5	2	170	177	99	7	7	4	447	431	99
6	19	2	-88	22	99	7	1	3	148	164	99	7	3	2	397	382	99	7	5	3	89	26	99	7	7	5	135	176	99
6	19	3	73	50	99	7	1	4	106	158	99	7	3	3	453	477	99	7	5	4	616	623	99	7	7	6	127	56	99
6	19	4	118	174	99	7	1	5	-169	82	99	7	3	4	381	379	99	7	5	5	123	97	99	7	7	7	116	137	99
6	19	5	288	268	99	7	1	6	78	79	99	7	3	5	126	126	99	7	5	6	-40	148	99	7	7	8	138	236	99
6	19	6	-159	49	99	7	1	7	568	573	99	7	3	6	399	351	99	7	5	7	47	42	99	7	7	9	81	27	99
6	20	-6	275	270	99	7	1	8	151	269	99	7	3	7	160	139	99	7	5	8	132	180	99	7	7	10	287	278	99
6	20	-5	-84	6	99	7	1	9	104	54	99	7	3	8	301	280	99	7	5	9	-163	73	99	7	7	11	278	142	99
6	20	-4	334	363	99	7	1	10	123	63	99	7	3	9	105	111	99	7	5	10	186	203	99	7	7	12	144	164	99
6	20	-3	88	18	99	7	1	11	279	309	99	7	3	10	162	158	99	7	5	11	276	206	99	7	8	-13	106	127	99
6	20	-2	72	10	99	7	1	12	131	25	99	7	3	11	-15	168	99	7	5	12	77	9	99	7	8	-12	-86	62	99
6	20	-1	179	127	99	7	1	13	317	275	99	7	3	12	192	52	99	7	6	-14	-106	23	99	7	8	-11	-60	92	99
6	20	0	343	358	99	7	2	-14	225	259	99	7	4	-14	128	116	99	7	6	-13	266	296	99	7	8	-10	123	184	99
6	20	1	-55	29	99	7	2	-13	-206	36	99	7	4	-13	206	216	99	7	6	-12	79	64	99	7	8	-9	132	94	99
6	20	2	294	294	99	7	2	-12	175	183	99	7	4	-12	-189	88	99	7	6	-11	124	182	99	7	8	-8	330	362	99
6	20	3	-33	76	99	7	2	-11	250	266	99	7	4	-11	251	289	99	7	6	-10	231	228	99	7	8	-7	338	360	99
6	20	4	86	93	99	7	2	-10	222	222	99	7	4	-10	43	73	99	7	6	-9	159	162	99	7	8	-6	-44	99	99
6	20	5	154	75	99	7	2	-9	126	180	99	7	4	-9	193	205	99	7	6	-8	124	109	99	7	8	-5	92	68	99
6	21	-4	-70	29	99	7	2	-8	425	455	99	7	4	-8	323	342	99	7	6	-7	461	496	99	7	8	-4	195	196	99
6	21	-3	266	279	99	7	2	-7	220	250	99	7	4	-7	684	720	99	7	6	-6	189	221	99	7	8	-3	338	328	99

h	k	l	Fo	Fc	sigF2
7	8	-2	226	194	99
7	8	-1	356	334	99
7	8	0	218	236	99
7	8	1	12	58	99
7	8	2	177	169	99
7	8	3	212	213	99
7	8	4	192	166	99
7	8	5	223	185	99
7	8	6	304	314	99
7	8	7	110	102	99
7	8	8	72	94	99
7	8	9	-18	108	99
7	8	10	149	252	99
7	8	11	-93	61	99
7	9	-13	159	208	99
7	9	-12	155	92	99
7	9	-11	-82	6	99
7	9	-10	140	152	99
7	9	-9	310	334	99
7	9	-8	152	146	99
7	9	-7	-126	131	99
7	9	-6	159	190	99
7	9	-5	82	32	99
7	9	-4	87	157	99
7	9	-3	438	425	99
7	9	-2	221	215	99
7	9	-1	59	107	99
7	9	0	238	249	99
7	9	1	254	250	99
7	9	2	-69	37	99
7	9	3	138	128	99
7	9	4	266	239	99
7	9	5	399	386	99
7	9	6	-187	44	99
7	9	7	194	182	99
7	9	8	39	37	99
7	9	9	143	50	99
7	9	10	-155	24	99
7	9	11	310	323	99
7	10	-12	62	92	99
7	10	-11	141	15	99
7	10	-10	213	233	99
7	10	-9	263	276	99
7	10	-8	363	378	99
7	10	-7	132	98	99
7	10	-6	97	3	99
7	10	-5	-95	23	99
7	10	-4	367	409	99
7	10	-3	252	239	99
7	10	-2	275	253	99
7	10	-1	-81	13	99
7	10	0	257	233	99
7	10	1	116	99	99
7	10	2	270	278	99
7	10	3	-55	112	99
7	10	4	-111	62	99
7	10	5	92	28	99
7	10	6	295	295	99
7	10	7	-181	5	99
7	10	8	107	102	99
7	10	9	196	127	99
7	10	10	180	105	99
7	10	11	-245	26	99
7	11	-12	-59	15	99
7	11	-11	34	76	99
7	11	-10	167	218	99
7	11	-9	299	297	99
7	11	-8	34	31	99
7	11	-7	278	299	99
7	11	-6	-87	76	99
7	11	-5	297	333	99
7	11	-4	220	227	99
7	11	-3	306	310	99
7	11	-2	77	128	99
7	11	-1	116	162	99
7	11	0	-18	13	99
7	11	1	396	358	99
7	11	2	51	165	99
7	11	3	311	305	99
7	11	4	249	259	99
7	11	5	-208	147	99
7	11	6	-173	33	99
7	11	7	312	263	99
7	11	8	25	19	99
7	11	9	-86	19	99
7	11	10	-31	158	99
7	12	-12	9	111	99
7	12	-11	64	137	99
7	12	-10	222	246	99
7	12	-9	-67	96	99
7	12	-8	201	250	99
7	12	-7	259	252	99
7	12	-6	127	118	99
7	12	-5	158	185	99
7	12	-4	372	357	99
7	12	-3	-104	23	99
7	12	-2	218	190	99
7	12	-1	379	390	99
7	12	0	120	32	99
7	12	1	284	292	99
7	12	2	360	320	99
7	12	3	77	190	99
7	12	4	31	6	99
7	12	5	335	340	99
7	12	6	217	189	99
7	12	7	192	99	99
7	12	8	149	121	99
7	12	9	-163	103	99
7	12	10	137	105	99
7	13	-11	-29	71	99
7	13	-10	126	97	99
7	13	-9	97	51	99
7	13	-8	-78	86	99
7	13	-7	270	302	99
7	13	-6	357	392	99
7	13	-5	42	33	99
7	13	-4	109	109	99
7	13	-3	16	112	99
7	13	-2	261	272	99
7	13	-1	233	238	99
7	13	0	452	466	99
7	13	1	143	175	99
7	13	2	-33	43	99
7	13	3	-190	38	99
7	13	4	390	369	99
7	13	5	115	53	99
7	13	6	325	320	99
7	13	7	224	203	99
7	13	8	-99	61	99
7	13	9	128	59	99
7	14	-10	73	32	99
7	14	-9	-112	50	99
7	14	-8	-49	57	99
7	14	-7	114	150	99
7	14	-6	233	241	99
7	14	-5	401	405	99
7	14	-4	-11	49	99
7	14	-3	-76	139	99
7	14	-2	-70	70	99
7	14	-1	357	368	99
7	14	0	-119	50	99
7	14	1	306	300	99
7	14	2	-112	109	99
7	14	3	284	273	99
7	14	4	55	75	99
7	14	5	394	370	99
7	14	6	129	86	99
7	14	7	-147	122	99
7	14	8	-187	34	99
7	14	9	251	101	99
7	15	-10	58	124	99
7	15	-9	61	30	99
7	15	-8	-102	27	99
7	15	-7	154	163	99
7	15	-6	324	336	99
7	15	-5	57	141	99
7	15	-4	85	84	99
7	15	-3	91	83	99
7	15	-2	190	197	99
7	15	-1	34	99	99
7	15	0	365	380	99
7	15	1	139	157	99
7	15	2	-87	67	99
7	15	3	59	35	99
7	15	4	302	288	99
7	15	5	88	34	99
7	15	6	281	287	99
7	15	7	48	49	99
7	15	8	125	207	99
7	16	-9	79	37	99
7	16	-8	38	51	99
7	16	-7	148	83	99
7	16	-6	-65	62	99
7	16	-5	244	205	99
7	16	-4	182	192	99
7	16	-3	47	54	99
7	16	-2	64	31	99
7	16	-1	290	233	99
7	16	0	97	118	99
7	16	1	132	225	99
7	16	2	137	146	99
7	16	3	235	228	99
7	16	4	-42	18	99
7	16	5	254	301	99
7	16	6	131	97	99
7	16	7	72	35	99
7	17	-8	148	43	99
7	17	-7	-30	5	99
7	17	-6	241	254	99
7	17	-5	64	196	99
7	17	-4	110	70	99
7	17	-3	40	40	99
7	17	-2	-138	158	99
7	17	-1	108	85	99
7	17	0	323	337	99
7	17	1	60	210	99
7	17	2	56	17	99
7	17	3	119	28	99
7	17	4	239	231	99
7	17	5	75	76	99
7	17	6	123	150	99
7	18	-6	-51	43	99
7	18	-5	83	107	99
7	18	-4	194	221	99
7	18	-3	101	15	99
7	18	-2	77	14	99
7	18	-1	241	243	99
7	18	0	152	119	99
7	18	1	117	97	99
7	18	2	180	218	99
7	18	3	139	15	99
7	18	4	103	35	99
7	18	5	191	203	99
7	19	-5	124	210	99
7	19	-4	137	129	99
7	19	-3	95	129	99
7	19	-2	-59	114	99
7	19	-1	-38	4	99
7	19	0	141	111	99
7	19	1	220	208	99
7	19	2	28	106	99
7	19	3	11	153	99
8	0	-12	511	405	99
8	0	-10	-147	59	99
8	0	-8	230	161	99
8	0	-6	100	302	99
8	0	-4	420	440	99
8	0	-2	354	322	99
8	0	0	119	62	99
8	0	2	754	756	99
8	0	4	70	209	99
8	0	6	322	331	99
8	0	8	562	514	99
8	0	10	125	51	99
8	1	-13	289	254	99
8	1	-12	-163	21	99
8	1	-11	141	161	99
8	1	-10	176	113	99
8	1	-9	110	171	99
8	1	-8	-203	10	99
8	1	-7	305	253	99
8	1	-6	-43	70	99
8	1	-5	59	54	99
8	1	-4	-83	108	99
8	1	-3	514	475	99
8	1	-2	-207	5	99
8	1	-1	27	110	99
8	1	0	74	31	99
8	1	1	399	392	99
8	1	2	-137	67	99
8	1	3	473	487	99
8	1	4	119	16	99
8	1	5	84	29	99
8	1	6	108	65	99
8	1	7	505	472	99
8	1	8	110	25	99
8	1	9	69	243	99
8	1	10	-139	27	99
8	1	11	-147	141	99
8	2	-13	-96	50	99
8	2	-12	196	138	99
8	2	-11	188	217	99
8	2	-10	92	53	99
8	2	-9	132	44	99
8	2	-8	300	314	99
8	2	-7	144	123	99
8	2	-6	104	156	99
8	2	-5	405	414	99
8	2	-4	494	473	99
8	2	-3	117	14	99
8	2	-2	436	398	99
8	2	-1	-14	98	99
8	2	0	-50	86	99
8	2	1	347	328	99
8	2	2	730	673	99
8	2	3	106	56	99
8	2	4	265	246	99
8	2	5	-50	66	99
8	2	6	350	280	99
8	2	7	220	171	99
8	2	8	471	430	99
8	2	9	145	103	99
8	2	10	-159	68	99
8	2	11	-236	57	99
8	3	-13	-204	97	99
8	3	-12	202	188	99
8	3	-11	10	28	99
8	3	-10	151	150	99
8	3	-9	195	249	99
8	3	-8	13	16	99
8	3	-7	110	219	99
8	3	-6	327	354	99
8	3	-5	-97	236	99
8	3	-4	271	255	99
8	3	-3	471	457	99
8	3	-2	56	21	99
8	3	-1	181	145	99
8	3	0	365	340	99
8	3	1	379	361	99
8	3	2	369	289	99
8	3	3	573	542	99
8	3	4	137	84	99
8	3	5	139	81	99
8	3	6	329	273	99
8	3	7	380	326	99
8	3	8	142	81	99
8	3	9	245	238	99
8	3	10	100	83	99
8	3	11	117	59	99
8	4	-13	65	123	99
8	4	-12	84	34	99
8	4	-11	219	278	99
8	4	-10	-24	70	99
8	4	-9	-90	91	99
8	4	-8	241	266	99
8	4	-7	311	328	99
8	4	-6	91	118	99
8	4	-5	497	523	99
8	4	-4	110	115	99
8	4	-3	136	115	99
8	4	-2	312	339	99
8	4	-1	295	273	99
8	4	0	252	280	99
8	4	1	604	646	99
8	4	2	239	221	99
8	4	3	-98	75	99
8	4	4	277	219	99
8	4	5	427	366	99
8	4	6	315	276	99
8	4	7	231	252	99
8	4	8	239	157	99
8	4	9	81	21	99
8	4	10	99	25	99
8	4	11	-272	166	99
8	5	-12	159	200	99
8	5	-11	77	78	99
8	5	-10	124	227	99
8	5	-9	56	28	99
8	5	-8	16	121	99
8	5	-7	84	47	99
8	5	-6	431	428	99
8	5	-5	-47	15	99
8	5	-4	444	440	99
8	5	-3	166	169	99
8	5	-2	221	245	99
8	5	-1	97	125	99
8	5	0	512	510	99
8	5	1	207	178	99
8	5	2	373	371	99
8	5	3	-61	85	99
8	5	4	248	224	99
8	5	5	143	102	99
8	5	6	278	301	99
8	5	7	100	103	99
8	5	8	134	164	99
8	5	9	-150	53	99
8	5	10	-80	97	99
8	5	11	-226	153	99
8	6	-12	55	38	99
8	6	-11	94	128	99
8	6	-10	129	137	99
8	6	-9	175	187	99
8	6	-8	-207	35	99
8	6	-7	119	244	99
8	6	-6	37	31	99
8	6	-5	299	311	99
8	6	-4	144	140	99
8	6	-3	205	205	99
8	6	-2	-70	69	99
8	6	-1	417	457	99
8	6	0	140	93	99
8	6	1	284	304	99
8	6	2	-55	13	99
8	6	3	98	122	99
8	6	4	168	223	99
8	6	5	236	279	99
8	6	6	-141	23	99
8	6	7	138	196	99
8	6	8	-177	28	99
8	6	9	-156	30	99
8	6	10	129	188	99
8	7	-12	76	132	99
8	7	-11	72	53	99
8	7	-10	195	205	99
8	7	-9	85	42	99
8	7	-8	98	47	99
8	7	-7	120	77	99
8	7	-6	196	197	99
8	7	-5	96	40	99
8	7	-4	233	238	99
8	7	-3	162	185	99
8	7	-2	-31	120	99
8	7	-1	168	97	99
8	7	0	264	241	99
8	7	1	-154	82	99
8	7	2	241	225	99
8	7	3	299	269	99
8	7	4	-121	108	99
8	7	5	97	51	99
8	7	6	137	143	99
8	7	7	154	114	99
8	7	8	-87	99	99
8	7	9	179	178	99
8	7	10	109	121	99
8	8	-12	-121	78	99
8	8	-11	101	59	99
8	8	-10	-133	48	99
8	8	-9	138	172	99
8	8	-8	63	158	99
8	8	-7	-135	132	99
8	8	-6	-77	21	99
8	8	-5	134	159	99
8	8	-4	44	33	99
8	8	-3	175	157	99
8	8	-2	251	247	99
8	8	-1	173	161	99
8	8	0	81	129	99
8	8	1	184	167	99
8	8	2	257	229	99
8	8	3	-111	6	99
8	8	4	207	171	99
8	8	5	-34	33	99
8	8	6	-99	151	99
8	8	7	108	56	99
8	8	8	188	200	99
8	8	9	-95	32	99
8	8	10	90	75	99
8	9	-11	-113	93	99
8	9	-10	112	101	99
8	9	-9	-140	131	99
8	9	-8	137	105	99
8	9	-7	181	125	99
8	9	-6	98	73	99
8	9	-5	96	2	99
8	9	-4	86	143	99
8	9	-3	367	344	99
8	9	-2	-164	19	99
8	9	-1	-15	17	99
8	9	0	-106	35	99
8	9	1	177	194	99
8	9	2	118	139	99
8	9	3	327	342	99
8	9	4	108	96	99
8	9	5	-172	74	99
8	9	6	-223	11	99
8	9	7	166	221	99
8	9	8	101	75	99
8	9	9	187	246	99
8	10	-11	-97	11	99
8	10	-10	105	45	99
8	10	-9	104	62	99
8	10	-8	267	281	99
8	10	-7	89	5	99
8	10	-6	-179	65	99
8	10	-5	-72	78	99
8	10	-4	-66	200	99
8	10	-3	110	23	99
8	10	-2	300	300	99
8	10	-1	90	104	99
8	10	0	-101	108	99
8	10	1	-105	115	99
8	10	2	335	339	99
8	10	3	-114	22	99
8	10	4	-46	165	99
8	10	5	197	187	99
8	10	6	186	212	99
8	10	7	110	62	99
8	10	8	147	282	99
8	10	9	124	90	99
8	11	-10	60	120	99
8	11	-9	124	216	99
8	11	-8	-172	30	99
8	11	-7	154	150	99
8	11	-6	49	96	99
8	11	-5	100	142	99
8	11	-4	103	169	99
8	11	-3	317	332	99
8	11	-2	91	149	99
8	11	-1	113	119	99
8	11	0	89	118	99
8	11	1	286	259	99
8	11	2	-118	87	99
8	11	3	383	354	99
8	11	4	283	299	99
8	11	5	91	8	99
8	11	6	182	90	99
8	11	7	282	258	99
8	11	8	92	17	99
8	12	-10	87	60	99
8	12	-9	119	170	99
8	12	-8	-56	152	99
8	12	-7	263	237	99
8	12	-6	92	70	99
8	12	-5	248	279	99
8	12	-4	301	297	99
8	12	-3	-120	67	99
8	12	-2	149	191	99
8	12	-1	300	307	99
8	12	0	28	24	99
8	12	1	220	241	99
8	12	2	480	460	99
8	12	3	129	103	99
8	12	4	120	73	99
8	12	5	264	289	99
8	12	6	103	104	99
8	12	7	-119	63	99
8	12	8	219	269	99
8	13	-9	-74	11	99
8	13	-8	-51	26	99
8	13	-7	60	82	99
8	13	-6	341	396	99
8	13	-5	-111	57	99
8	13	-4	239	255	99
8	13	-3	149	155	99
8	13	-2	203	183	99
8	13	-1	61	49	99
8	13	0	419	433	99
8	13	1	326	337	99
8	13	2	-115	157	99
8	13	3	103	55	99
8	13	4	266	260	99
8	13	5	-65	22	99
8	13	6	260	260	99
8	13	7	257	228	99
8	14	-8	-21	4	99
8	14	-7	53	156	99
8	14	-6	80	30	99
8	14	-5	379	416	99
8	14	-4	77	86	99
8	14	-3	95	15	99
8	14	-2	-38	31	99
8	14	-1	370	366	99
8	14	0	179	157	99
8	14	1	361	349	99
8	14	2	101	133	99
8	14	3	-47	132	99
8	14	4	-27	4	99
8	14	5	251	254	99
8	14	6	-89	130	99
8	15	-7	-72	38	99
8	15	-6	239	293	99
8	15	-5	51	31	99
8	15	-4	239	257	99
8	15	-3	-65	40	99
8	15	-2	45	125	99
8	15	-1	16	75	99
8	15	0	450	435	99
8	15	1	120	49	99
8	15	2	58	27	99
8	15	3	79	43	99

h	k	l	Fo	Fc	sigF2
8	15	4	223	184	99
8	15	5	-47	113	99
8	16	-6	114	73	99
8	16	-5	304	333	99
8	16	-4	-131	11	99
8	16	-3	-141	60	99
8	16	-2	86	19	99
8	16	-1	258	266	99
8	16	0	124	60	99
8	16	1	287	275	99
8	16	2	123	35	99
8	16	3	-128	137	99
8	16	4	-157	37	99
8	17	-4	83	183	99
8	17	-3	-38	23	99
8	17	-2	-86	113	99
8	17	-1	-46	113	99
8	17	0	285	289	99
8	17	1	80	69	99
8	17	2	106	65	99
9	0	-10	-100	96	99
9	0	-8	263	205	99
9	0	-6	230	222	99
9	0	-4	295	263	99
9	0	-2	342	316	99
9	0	0	-93	74	99
9	0	2	528	477	99
9	0	4	291	217	99
9	0	6	-211	62	99
9	0	8	350	389	99
9	1	-11	-104	118	99
9	1	-10	-329	169	99
9	1	-9	293	196	99
9	1	-8	-63	31	99
9	1	-7	315	316	99
9	1	-6	-144	37	99
9	1	-5	-62	64	99
9	1	-4	210	116	99
9	1	-3	493	429	99
9	1	-2	84	61	99
9	1	-1	306	306	99
9	1	0	130	92	99
9	1	1	364	361	99
9	1	2	134	39	99
9	1	3	426	394	99
9	1	4	185	48	99
9	1	5	108	116	99
9	1	6	85	112	99
9	1	7	171	282	99
9	1	8	-144	32	99
9	1	9	-127	236	99
9	2	-11	150	117	99
9	2	-10	-138	69	99
9	2	-9	87	142	99
9	2	-8	325	259	99
9	2	-7	154	213	99
9	2	-6	-29	112	99
9	2	-5	254	218	99
9	2	-4	350	328	99
9	2	-3	-93	136	99
9	2	-2	397	345	99
9	2	-1	125	64	99
9	2	0	97	51	99
9	2	1	225	233	99
9	2	2	473	391	99
9	2	3	-181	84	99
9	2	4	322	285	99
9	2	5	-96	63	99
9	2	6	74	19	99
9	2	7	-132	196	99
9	2	8	288	224	99
9	2	9	-271	148	99
9	3	-11	-76	4	99
9	3	-10	179	215	99
9	3	-9	179	133	99
9	3	-8	281	263	99
9	3	-7	236	224	99
9	3	-6	179	167	99
9	3	-5	228	168	99
9	3	-4	321	277	99
9	3	-3	284	248	99
9	3	-2	130	113	99
9	3	-1	246	232	99
9	3	0	350	321	99
9	3	1	-116	140	99
9	3	2	234	200	99
9	3	3	345	347	99
9	3	4	-89	98	99
9	3	5	112	94	99
9	3	6	299	276	99
9	3	7	128	107	99
9	3	8	140	61	99
9	3	9	150	119	99
9	4	-11	159	113	99
9	4	-10	72	13	99
9	4	-9	319	343	99
9	4	-8	181	192	99
9	4	-7	-70	64	99
9	4	-6	102	65	99
9	4	-5	292	290	99
9	4	-4	-196	49	99
9	4	-3	256	279	99
9	4	-2	254	243	99
9	4	-1	105	52	99
9	4	0	191	186	99
9	4	1	458	419	99
9	4	2	-82	12	99
9	4	3	146	121	99
9	4	4	230	192	99
9	4	5	73	223	99
9	4	6	158	138	99
9	4	7	138	227	99
9	4	8	-90	15	99
9	4	9	177	24	99
9	5	-11	184	67	99
9	5	-10	223	254	99
9	5	-9	71	27	99
9	5	-8	316	338	99
9	5	-7	109	13	99
9	5	-6	93	96	99
9	5	-5	-75	6	99
9	5	-4	374	369	99
9	5	-3	78	7	99
9	5	-2	228	226	99
9	5	-1	-70	114	99
9	5	0	314	288	99
9	5	1	-240	63	99
9	5	2	293	291	99
9	5	3	134	94	99
9	5	4	-111	70	99
9	5	5	95	93	99
9	5	6	259	283	99
9	5	7	-48	31	99
9	5	8	-124	103	99
9	6	-10	108	90	99
9	6	-9	315	367	99
9	6	-8	-94	113	99
9	6	-7	43	143	99
9	6	-6	-139	132	99
9	6	-5	98	115	99
9	6	-4	-129	56	99
9	6	-3	411	423	99
9	6	-2	-247	187	99
9	6	-1	-166	55	99
9	6	0	180	134	99
9	6	1	-154	110	99
9	6	2	106	101	99
9	6	3	207	190	99
9	6	4	-142	172	99
9	6	5	232	231	99
9	6	6	-31	86	99
9	6	7	180	162	99
9	6	8	55	77	99
9	7	-10	-69	153	99
9	7	-9	95	10	99
9	7	-8	342	380	99
9	7	-7	196	222	99
9	7	-6	70	52	99
9	7	-5	93	114	99
9	7	-4	188	208	99
9	7	-3	140	103	99
9	7	-2	286	297	99
9	7	-1	306	289	99
9	7	0	-59	70	99
9	7	1	61	4	99
9	7	2	105	103	99
9	7	3	229	198	99
9	7	4	-179	10	99
9	7	5	88	175	99
9	7	6	234	167	99
9	7	7	-90	67	99
9	7	8	-235	41	99
9	8	-10	74	103	99
9	8	-9	-56	159	99
9	8	-8	94	193	99
9	8	-7	225	202	99
9	8	-6	148	162	99
9	8	-5	-21	17	99
9	8	-4	-115	85	99
9	8	-3	225	218	99
9	8	-2	329	331	99
9	8	-1	72	74	99
9	8	0	83	84	99
9	8	1	59	73	99
9	8	2	73	131	99
9	8	3	85	152	99
9	8	4	264	238	99
9	8	5	93	151	99
9	8	6	138	5	99
9	8	7	135	88	99
9	9	-9	69	5	99
9	9	-8	-53	114	99
9	9	-7	263	238	99
9	9	-6	133	103	99
9	9	-5	37	90	99
9	9	-4	55	104	99
9	9	-3	98	164	99
9	9	-2	35	69	99
9	9	-1	282	298	99
9	9	0	122	17	99
9	9	1	-20	55	99
9	9	2	157	134	99
9	9	3	238	250	99
9	9	4	-183	20	99
9	9	5	166	186	99
9	9	6	118	100	99
9	9	7	-112	125	99
9	10	-9	72	54	99
9	10	-8	165	171	99
9	10	-7	47	138	99
9	10	-6	17	137	99
9	10	-5	87	21	99
9	10	-4	107	102	99
9	10	-3	-151	26	99
9	10	-2	359	339	99
9	10	-1	179	157	99
9	10	0	85	107	99
9	10	1	94	46	99
9	10	2	147	179	99
9	10	3	124	75	99
9	10	4	406	416	99
9	10	5	143	12	99
9	10	6	127	4	99
9	11	-8	-127	3	99
9	11	-7	66	169	99
9	11	-6	157	157	99
9	11	-5	-14	9	99
9	11	-4	-127	69	99
9	11	-3	277	295	99
9	11	-2	90	68	99
9	11	-1	199	212	99
9	11	0	106	148	99
9	11	1	76	60	99
9	11	2	-149	3	99
9	11	3	432	388	99
9	11	4	109	22	99
9	11	5	211	194	99
9	11	6	-250	31	99
9	12	-7	183	168	99
9	12	-6	-67	139	99
9	12	-5	182	192	99
9	12	-4	120	178	99
9	12	-3	-91	47	99
9	12	-2	213	174	99
9	12	-1	132	192	99
9	12	0	82	127	99
9	12	1	191	214	99
9	12	2	245	250	99
9	12	3	-165	37	99
9	12	4	246	230	99
9	12	5	141	172	99
9	13	-6	204	207	99
9	13	-5	-53	40	99
9	13	-4	196	185	99
9	13	-3	192	155	99
9	13	-2	107	70	99
9	13	-1	111	65	99
9	13	0	168	208	99
9	13	1	-105	91	99
9	13	2	135	157	99
9	13	3	119	144	99
9	13	4	115	113	99
9	14	-5	233	255	99
9	14	-4	108	29	99
9	14	-3	36	75	99
9	14	-2	19	12	99
9	14	-1	74	126	99
9	14	0	94	43	99
9	14	1	201	176	99
9	14	2	-87	33	99
9	15	-2	-134	16	99
9	15	-1	62	20	99
9	15	0	121	112	99
10	0	-8	192	143	99
10	0	-6	284	207	99
10	0	-4	176	177	99
10	0	-2	243	149	99
10	0	0	-27	243	99
10	0	2	138	169	99
10	0	4	-162	66	99
10	0	6	-205	184	99
10	1	-9	126	58	99
10	1	-8	163	7	99
10	1	-7	142	116	99
10	1	-6	222	160	99
10	1	-5	345	336	99
10	1	-4	36	115	99
10	1	-3	-53	44	99
10	1	-2	-202	54	99
10	1	-1	219	176	99
10	1	0	-145	5	99
10	1	1	286	305	99
10	1	2	-203	66	99
10	1	3	50	11	99
10	1	4	61	23	99
10	1	5	231	149	99
10	1	6	-152	15	99
10	2	-9	184	102	99
10	2	-8	147	108	99
10	2	-7	-278	127	99
10	2	-6	282	257	99
10	2	-5	135	40	99
10	2	-4	-185	67	99
10	2	-3	104	155	99
10	2	-2	92	128	99
10	2	-1	-191	20	99
10	2	0	351	257	99
10	2	1	197	90	99
10	2	2	131	69	99
10	2	3	132	85	99
10	2	4	108	91	99
10	2	5	66	3	99
10	2	6	157	151	99
10	3	-8	133	150	99
10	3	-7	237	168	99
10	3	-6	140	61	99
10	3	-5	70	54	99
10	3	-4	308	250	99
10	3	-3	-67	2	99
10	3	-2	142	100	99
10	3	-1	201	159	99
10	3	0	92	6	99
10	3	1	-97	144	99
10	3	2	281	265	99
10	3	3	-166	16	99
10	3	4	-229	32	99
10	3	5	224	134	99
10	3	6	189	155	99
10	4	-8	72	81	99
10	4	-7	100	101	99
10	4	-6	-71	46	99
10	4	-5	182	183	99
10	4	-4	-40	45	99
10	4	-3	38	239	99
10	4	-2	54	80	99
10	4	-1	71	32	99
10	4	0	-109	57	99
10	4	1	290	281	99
10	4	2	196	59	99
10	4	3	62	182	99
10	4	4	-196	41	99
10	4	5	121	154	99
10	4	6	112	3	99
10	5	-8	105	168	99
10	5	-7	-35	4	99
10	5	-6	127	1	99
10	5	-5	26	69	99
10	5	-4	266	262	99
10	5	-3	-31	62	99
10	5	-2	171	153	99
10	5	-1	93	9	99
10	5	0	227	175	99
10	5	1	58	53	99
10	5	2	304	271	99
10	5	3	140	91	99
10	5	4	180	45	99
10	5	5	173	48	99
10	6	-7	110	142	99
10	6	-6	-185	118	99
10	6	-5	97	106	99
10	6	-4	-65	18	99
10	6	-3	307	294	99
10	6	-2	69	132	99
10	6	-1	130	60	99
10	6	0	-107	111	99
10	6	1	253	244	99
10	6	2	127	12	99
10	6	3	-91	158	99
10	6	4	61	185	99
10	6	5	78	161	99
10	7	-7	101	140	99
10	7	-6	80	9	99
10	7	-5	93	107	99
10	7	-4	85	132	99
10	7	-3	140	76	99
10	7	-2	159	174	99
10	7	-1	92	209	99
10	7	0	205	173	99
10	7	1	86	71	99
10	7	2	192	185	99
10	7	3	94	71	99
10	7	4	-164	30	99
10	8	-6	191	191	99
10	8	-5	159	67	99
10	8	-4	143	131	99
10	8	-3	155	186	99
10	8	-2	179	227	99
10	8	-1	-194	5	99
10	8	0	213	203	99
10	8	1	-23	169	99
10	8	2	111	9	99
10	8	3	98	66	99
10	8	4	126	195	99
10	9	-5	206	206	99
10	9	-4	157	166	99
10	9	-3	-75	14	99
10	9	-2	117	66	99
10	9	-1	304	310	99
10	9	0	136	51	99
10	9	1	117	118	99
10	9	2	105	168	99
10	9	3	118	103	99
10	10	-4	-84	147	99
10	10	-3	92	43	99
10	10	-2	240	222	99
10	10	-1	-188	19	99
10	10	0	273	243	99
10	10	1	190	154	99
10	10	2	133	84	99
10	11	-2	64	30	99
10	11	-1	276	271	99
10	11	0	-208	7	99
11	0	-4	346	315	99
11	0	-2	100	59	99
11	0	0	-152	247	99
11	1	-3	141	151	99
11	1	-2	38	31	99
11	1	-1	73	90	99
11	1	0	-100	1	99
11	1	1	116	267	99
11	2	-3	178	143	99
11	2	-2	84	44	99
11	2	-1	124	60	99
11	2	0	196	240	99
11	2	1	127	132	99
11	3	-3	119	134	99
11	3	-2	218	117	99
11	3	-1	161	127	99
11	3	0	-267	20	99

APPENDIX 7.I

$[Hg(S_2COnBu)_2]$

Table 7.I.1: Crystallographic Parameters for $[Hg(S_2COCH_2CH_2CH_2CH_3)_2]$

Formula	$C_{10}H_{18}HgS_4O_2$
Formula weight	499.08
Crystal morphology / colour	block / pale yellow
Crystal dimensions (mm)	0.05 x 0.21 x 0.45
Crystal system	orthorhombic
Space group	*Pbcn* (# 60)
a (Å)	7.418(5)
b (Å)	25.66(5)
c (Å)	8.61(3)
α (°)	90
β (°)	90
γ (°)	90
V (Å^3)	1639(4)
Z	4
$\rho_{calc.}$ (g cm^{-3})	2.022
$F(000)$	952
Temperature (°K)	293
μ (cm^{-1})	99.10
θ limits, cell (°)	19.8 – 23.0
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 9, 0 – 28, -11 – 0
Range of transmission factors	0.925 – 1
Scan technique	ω:2θ
No. of data measured	2227
No. of unique data	1910
No. of parameters	75
R (I≥0σ(I))	0.144
R_w (I≥0σ(I))	0.163
R (I≥3σ(I))	0.066
R_w (I≥3σ(I))	0.074
Maximum and minimum residual electron density (e Å^{-3})	5.00, -3.63 (located near Hg atom)

Table 7.I.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Hg(S_2COCH_2CH_2CH_2CH_3)2]$

Atom	*x*	*y*	*z*
Hg	0	0.23473(4)	0.25
S(1)	0.2476(5)	0.2587(2)	0.0821(5)
S(2)	0.2955(5)	0.3491(2)	-0.1248(5)
O(1)	0.025(1)	0.3340(4)	0.066(1)
C(1)	0.177(2)	0.3168(6)	0.011(2)
C(2)	-0.055(2)	0.3823(7)	0.013(2)
C(3)	-0.238(2)	0.3869(7)	0.088(2)
C(4)	-0.329(2)	0.4381(9)	0.047(2)
C(5)	-0.254(3)	0.4841(9)	0.129(3)

Table 7.I.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Hg(S_2COCH_2CH_2CH_2CH_3)2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
S(1)	0.047(2)	0.042(3)	0.066(3)	0.008(2)	0.017(2)	0.002(2)
S(2)	0.058(2)	0.038(2)	0.065(3)	0.003(2)	0.017(2)	0.002(2)
O(1)	0.037(5)	0.043(6)	0.075(7)	0.014(5)	-0.004(5)	-0.006(6)
C(1)	0.039(7)	0.033(9)	0.07(1)	0.004(8)	-0.002(7)	-0.014(9)
C(2)	0.06(1)	0.035(10)	0.08(1)	0.007(8)	0.001(8)	-0.022(10)
C(3)	0.059(9)	0.04(1)	0.09(1)	0.005(9)	0.00(1)	-0.01(1)
C(4)	0.08(1)	0.08(2)	0.09(2)	0.03(1)	0.00(1)	-0.02(1)
C(5)	0.13(2)	0.07(2)	0.15(2)	0.04(2)	-0.02(2)	-0.02(2)

Table 7.I.4: Fractional atomic coordinates and B_{eq} values (Å^2) for the hydrogen atoms in [Hg($S_2COCH_2CH_2CH_2CH_3$)$_2$]*

Atom	x	y	z	B_{eq}
H(2a)	0.0206	0.4115	0.0440	5.4817
H(2b)	-0.0671	0.3819	-0.0987	5.4817
H(3a)	-0.2240	0.3851	0.2003	5.9597
H(3b)	-0.3132	0.3583	0.0534	5.9597
H(4a)	-0.3146	0.4437	-0.0642	7.6597
H(4b)	-0.4558	0.4354	0.0715	7.6597
H(5a)	-0.1256	0.4869	0.1082	10.9046
H(5b)	-0.3143	0.5154	0.0941	10.9046
H(5c)	-0.2722	0.4800	0.2403	10.9046

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 7.I.5: Bond distances (Å) for [Hg($S_2COCH_2CH_2CH_2CH_3$)$_2$]

Hg — S(1)	2.417(4)	O(1) — C(2)	1.45(2)
Hg — S(2)*	2.844(4)	C(2) — C(3)	1.51(2)
S(1) — C(1)	1.69(2)	C(3) — C(4)	1.52(2)
S(2) — C(1)	1.68(2)	C(4) — C(5)	1.49(3)
O(1) — C(1)	1.30(2)		

* symmetry operation: 0.5 – x, 0.5 – y, 0.5 + z.

Table 7.I.6: Bond angles (deg.) for [Hg($S_2COCH_2CH_2CH_2CH_3$)2]

S(1) — Hg — S(1)**	150.5(2)	S(1) — C(1) — S(2)	121.8(9)
S(1) — Hg — S(2)*	90.8(1)	S(1) — C(1) — O(1)	116(1)
S(1)** — Hg — S(2)*	111.8(1)	S(2) — C(1) — O(1)	123(1)
S(2)* — Hg — S(2)***	81.8(2)	O(1) — C(2) — C(3)	108(1)
Hg — S(1) — C(1)	102.0(5)	C(2) — C(3) — C(4)	111(2)
Hg — S(2) — C(1)	99.7(5)	C(3) — C(4) — C(5)	114(2)
C(1) — O(1) — C(2)	122(1)		

* symmetry operation: 0.5 – *x*, 0.5 – *y*, 0.5 + *z*. ** symmetry operation: - *x*, *y*, 0.5 – *z*, *** symmetry operation: -0.5 + *x*, 0.5 – *y*, - *z*.

Table 7.I.7: Observed and calculated structure factors for $[Hg(S_2COCH_2CH_2CH_2CH_3)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	-10	240	422	99	0	10	-5	1408	1221	99	0	20	-2	370	353	99	1	1	-5	1936	1809	99	1	6	-6	270	346	99
0	0	-8	616	924	99	0	10	-4	311	299	99	0	20	-1	1019	1045	99	1	1	-4	54	27	99	1	6	-5	-43	60	99
0	0	-6	1421	1825	99	0	10	-3	1819	1721	99	0	20	0	112	67	99	1	1	-3	1954	1876	99	1	6	-4	337	291	99
0	0	-4	1166	1298	99	0	10	-2	975	899	99	0	22	-8	124	190	99	1	1	-2	603	590	99	1	6	-3	372	386	99
0	0	-2	735	700	99	0	10	-1	1422	1529	99	0	22	-7	350	415	99	1	1	-1	3265	3254	99	1	6	-2	1352	1340	99
0	2	-11	178	24	99	0	10	0	2561	2624	99	0	22	-6	141	179	99	1	2	-11	-408	31	99	1	6	-1	35	139	99
0	2	-10	-76	413	99	0	12	-10	221	142	99	0	22	-5	356	377	99	1	2	-10	-146	96	99	1	7	-10	331	279	99
0	2	-9	257	225	99	0	12	-9	691	586	99	0	22	-4	482	590	99	1	2	-9	76	98	99	1	7	-9	466	465	99
0	2	-8	636	788	99	0	12	-8	206	213	99	0	22	-3	775	768	99	1	2	-8	-50	132	99	1	7	-8	357	401	99
0	2	-7	383	455	99	0	12	-7	954	872	99	0	22	-2	616	604	99	1	2	-7	139	215	99	1	7	-7	587	723	99
0	2	-6	1490	1683	99	0	12	-6	836	711	99	0	22	-1	914	916	99	1	2	-6	87	153	99	1	7	-6	673	791	99
0	2	-5	409	398	99	0	12	-5	891	763	99	0	22	0	-214	94	99	1	2	-5	217	206	99	1	7	-5	1027	1139	99
0	2	-4	1711	1724	99	0	12	-4	272	229	99	0	24	-7	196	291	99	1	2	-4	780	670	99	1	7	-4	1196	1280	99
0	2	-3	848	830	99	0	12	-3	1536	1467	99	0	24	-6	-230	241	99	1	2	-3	444	410	99	1	7	-3	1879	1893	99
0	2	-2	2004	2071	99	0	12	-2	476	458	99	0	24	-5	125	212	99	1	2	-2	1021	1058	99	1	7	-2	1180	1166	99
0	4	-11	-217	93	99	0	12	-1	2086	2276	99	0	24	-4	464	316	99	1	2	-1	323	280	99	1	7	-1	1724	1779	99
0	4	-10	349	407	99	0	12	0	1794	1792	99	0	24	-3	665	683	99	1	3	-11	258	330	99	1	7	0	2064	1882	99
0	4	-9	317	324	99	0	14	-10	-79	30	99	0	24	-2	535	556	99	1	3	-10	241	118	99	1	8	-10	130	95	99
0	4	-8	550	536	99	0	14	-9	623	589	99	0	24	-1	588	605	99	1	3	-9	421	581	99	1	8	-9	-140	86	99
0	4	-7	484	497	99	0	14	-8	100	25	99	0	24	0	752	725	99	1	3	-8	-126	310	99	1	8	-8	-191	112	99
0	4	-6	1597	1533	99	0	14	-7	776	715	99	0	26	-7	138	128	99	1	3	-7	902	983	99	1	8	-7	-152	218	99
0	4	-5	288	294	99	0	14	-6	376	342	99	0	26	-6	200	280	99	1	3	-6	357	363	99	1	8	-6	112	126	99
0	4	-4	1999	1871	99	0	14	-5	956	884	99	0	26	-5	222	232	99	1	3	-5	1697	1630	99	1	8	-5	78	131	99
0	4	-3	842	799	99	0	14	-4	638	583	99	0	26	-4	339	305	99	1	3	-4	329	267	99	1	8	-4	367	348	99
0	4	-2	2770	2684	99	0	14	-3	1725	1666	99	0	26	-3	676	672	99	1	3	-3	2245	2204	99	1	8	-3	291	303	99
0	4	-1	1583	1540	99	0	14	-2	164	94	99	0	26	-2	521	493	99	1	3	-2	1398	1390	99	1	8	-2	48	61	99
0	4	0	2036	2128	99	0	14	-1	1642	1705	99	0	26	-1	239	198	99	1	3	-1	2636	2689	99	1	8	-1	365	361	99
0	6	-11	222	190	99	0	14	0	813	784	99	0	26	0	780	785	99	1	3	0	124	104	99	1	9	-10	379	317	99
0	6	-10	384	343	99	0	16	-9	502	460	99	0	28	-6	88	297	99	1	4	-11	-173	9	99	1	9	-9	217	364	99
0	6	-9	-80	295	99	0	16	-8	-270	100	99	0	28	-5	-325	195	99	1	4	-10	124	14	99	1	9	-8	434	469	99
0	6	-8	400	419	99	0	16	-7	565	550	99	0	28	-4	198	395	99	1	4	-9	188	60	99	1	9	-7	564	619	99
0	6	-7	439	448	99	0	16	-6	185	107	99	0	28	-3	433	503	99	1	4	-8	132	171	99	1	9	-6	789	967	99
0	6	-6	1498	1391	99	0	16	-5	907	888	99	0	28	-2	500	501	99	1	4	-7	38	79	99	1	9	-5	765	912	99
0	6	-5	1069	997	99	0	16	-4	431	386	99	0	28	-1	-145	47	99	1	4	-6	211	206	99	1	9	-4	1151	1256	99
0	6	-4	2003	1856	99	0	16	-3	1842	1971	99	0	28	0	535	488	99	1	4	-5	129	199	99	1	9	-3	1135	1101	99
0	6	-3	1813	1665	99	0	16	-2	348	348	99	0	30	-4	486	421	99	1	4	-4	681	600	99	1	9	-2	1672	1667	99
0	6	-2	1970	1857	99	0	16	-1	1083	1147	99	0	30	-3	198	248	99	1	4	-3	-138	21	99	1	9	-1	1563	1626	99
0	6	-1	1016	899	99	0	16	0	246	226	99	0	30	-2	442	481	99	1	4	-2	1384	1411	99	1	9	0	1778	1656	99
0	6	0	1740	1824	99	0	18	-9	137	141	99	0	30	-1	-258	27	99	1	4	-1	1520	1546	99	1	10	-10	-210	151	99
0	8	-10	232	257	99	0	18	-8	183	64	99	0	30	0	132	196	99	1	5	-11	-112	301	99	1	10	-9	201	41	99
0	8	-9	420	365	99	0	18	-7	410	446	99	0	32	-3	82	43	99	1	5	-10	-357	193	99	1	10	-8	255	163	99
0	8	-8	549	534	99	0	18	-6	120	61	99	0	32	-2	167	356	99	1	5	-9	332	513	99	1	10	-7	196	163	99
0	8	-7	486	439	99	0	18	-5	882	909	99	0	32	-1	151	53	99	1	5	-8	345	407	99	1	10	-6	-62	231	99
0	8	-6	1335	1185	99	0	18	-4	326	321	99	0	32	0	104	332	99	1	5	-7	753	887	99	1	10	-5	151	183	99
0	8	-5	1469	1299	99	0	18	-3	2058	1845	99	1	0	-10	187	158	99	1	5	-6	470	524	99	1	10	-4	401	359	99
0	8	-4	857	725	99	0	18	-2	133	74	99	1	0	-8	184	137	99	1	5	-5	1277	1296	99	1	10	-3	119	1	99
0	8	-3	2120	1972	99	0	18	-1	767	738	99	1	0	-6	327	372	99	1	5	-4	907	936	99	1	10	-2	-29	19	99
0	8	-2	1637	1587	99	0	18	0	247	264	99	1	0	-4	467	373	99	1	5	-3	2488	2474	99	1	10	-1	168	148	99
0	8	-1	988	1166	99	0	20	-9	14	326	99	1	0	-2	901	860	99	1	5	-2	1199	1192	99	1	11	-10	413	314	99
0	8	0	2829	2954	99	0	20	-8	-152	78	99	1	1	-11	173	327	99	1	5	-1	1908	1965	99	1	11	-9	180	231	99
0	10	-10	221	231	99	0	20	-7	427	437	99	1	1	-10	140	48	99	1	5	0	1227	1204	99	1	11	-8	551	601	99
0	10	-9	578	480	99	0	20	-6	149	120	99	1	1	-9	537	636	99	1	6	-10	82	2	99	1	11	-7	509	476	99
0	10	-8	430	429	99	0	20	-5	698	713	99	1	1	-8	161	102	99	1	6	-9	-154	18	99	1	11	-6	851	953	99
0	10	-7	693	636	99	0	20	-4	628	672	99	1	1	-7	996	1062	99	1	6	-8	111	147	99	1	11	-5	490	638	99
0	10	-6	1113	968	99	0	20	-3	1153	1042	99	1	1	-6	168	155	99	1	6	-7	96	156	99	1	11	-4	1131	1281	99
1	11	-3	668	651	99	1	17	-8	472	442	99	1	23	-6	498	437	99	1	31	0	74	72	99	2	5	-9	-190	30	99
1	11	-2	1538	1510	99	1	17	-7	-46	64	99	1	23	-5	-215	281	99	1	32	-3	235	55	99	2	5	-8	197	24	99
1	11	-1	1198	1208	99	1	17	-6	876	785	99	1	23	-4	454	463	99	1	32	-2	-347	54	99	2	5	-7	122	43	99
1	11	0	2314	2266	99	1	17	-5	-274	82	99	1	23	-3	521	529	99	1	32	-1	252	190	99	2	5	-6	108	40	99
1	12	-10	-112	76	99	1	17	-4	1021	1097	99	1	23	-2	599	648	99	1	33	-1	360	319	99	2	5	-5	275	162	99
1	12	-9	-287	67	99	1	17	-3	192	63	99	1	23	-1	482	496	99	1	33	0	-185	25	99	2	5	-4	124	29	99
1	12	-8	114	102	99	1	17	-2	1525	1510	99	1	23	0	853	863	99	2	0	-10	477	478	99	2	5	-3	107	154	99
1	12	-7	181	2	99	1	17	-1	264	182	99	1	24	-7	33	40	99	2	0	-8	735	683	99	2	5	-2	48	25	99
1	12	-6	186	144	99	1	17	0	1097	1096	99	1	24	-6	-215	102	99	2	0	-6	1088	985	99	2	5	-1	448	462	99
1	12	-5	425	534	99	1	18	-9	-193	37	99	1	24	-5	175	230	99	2	0	-4	2785	2687	99	2	6	-10	228	361	99
1	12	-4	413	372	99	1	18	-8	237	41	99	1	24	-4	249	60	99	2	0	-2	2630	2657	99	2	6	-9	296	347	99
1	12	-3	671	590	99	1	18	-7	-112	183	99	1	24	-3	146	163	99	2	0	0	634	596	99	2	6	-8	882	902	99
1	12	-2	299	252	99	1	18	-6	188	81	99	1	24	-2	347	292	99	2	1	-10	260	27	99	2	6	-7	574	544	99
1	12	-1	715	685	99	1	18	-5	-86	77	99	1	24	-1	249	288	99	2	1	-9	193	79	99	2	6	-6	543	524	99
1	13	-10	388	299	99	1	18	-4	256	232	99	1	25	-7	402	280	99	2	1	-8	171	3	99	2	6	-5	831	734	99
1	13	-9	199	128	99	1	18	-3	124	348	99	1	25	-6	370	279	99	2	1	-7	-273	85	99	2	6	-4	1451	1383	99
1	13	-8	757	667	99	1	18	-2	67	188	99	1	25	-5	199	303	99	2	1	-6	-121	44	99	2	6	-3	712	741	99
1	13	-7	220	215	99	1	18	-1	158	39	99	1	25	-4	232	355	99	2	1	-5	177	200	99	2	6	-2	2332	2337	99
1	13	-6	811	851	99	1	19	-9	114	75	99	1	25	-3	554	494	99	2	1	-4	111	149	99	2	6	-1	1655	1650	99
1	13	-5	424	505	99	1	19	-8	326	386	99	1	25	-2	583	551	99	2	1	-3	444	394	99	2	6	0	1618	1704	99
1	13	-4	1173	1308	99	1	19	-7	157	99	99	1	25	-1	545	552	99	2	1	-2	402	402	99	2	7	-10	108	31	99
1	13	-3	314	316	99	1	19	-6	845	680	99	1	25	0	358	405	99	2	1	-1	58	50	99	2	7	-9	118	20	99
1	13	-2	1633	1520	99	1	19	-5	-259	274	99	1	26	-6	-316	117	99	2	2	-10	490	472	99	2	7	-8	201	57	99
1	13	-1	741	680	99	1	19	-4	934	922	99	1	26	-5	213	114	99	2	2	-9	63	25	99	2	7	-7	36	37	99
1	13	0	1982	2097	99	1	19	-3	170	248	99	1	26	-4	137	10	99	2	2	-8	799	765	99	2	7	-6	283	215	99
1	14	-10	266	18	99	1	19	-2	1050	1122	99	1	26	-3	222	26	99	2	2	-7	-140	122	99	2	7	-5	230	154	99
1	14	-9	-125	32	99	1	19	-1	361	291	99	1	26	-2	196	232	99	2	2	-6	1099	1009	99	2	7	-4	106	33	99
1	14	-8	-95	51	99	1	19	0	1161	1187	99	1	26	-1	166	81	99	2	2	-5	537	473	99	2	7	-3	264	298	99
1	14	-7	-33	62	99	1	20	-8	231	34	99	1	27	-6	-345	123	99	2	2	-4	2098	2040	99	2	7	-2	302	301	99
1	14	-6	-42	136	99	1	20	-7	241	103	99	1	27	-5	221	374	99	2	2	-3	727	750	99	2	7	-1	398	408	99
1	14	-5	280	339	99	1	20	-6	250	181	99	1	27	-4	-278	334	99	2	2	-2	2569	2707	99	2	8	-10	151	302	99
1	14	-4	325	281	99	1	20	-5	-58	147	99	1	27	-3	360	412	99	2	2	-1	155	141	99	2	8	-9	155	369	99
1	14	-3	182	107	99	1	20	-4	121	109	99	1	27	-2	-279	298	99	2	2	0	1995	1967	99	2	8	-8	519	586	99
1	14	-2	722	694	99	1	20	-3	-247	98	99	1	27	-1	544	546	99	2	3	-10	265	42	99	2	8	-7	793	778	99
1	14	-1	702	709	99	1	20	-2	125	172	99	1	27	0	-215	255	99	2	3	-9	-136	23	99	2	8	-6	337	389	99
1	15	-9	214	53	99	1	20	-1	473	509	99	1	28	-6	309	17	99	2	3	-8	-22	23	99	2	8	-5	980	925	99
1	15	-8	673	588	99	1	21	-8	218	349	99	1	28	-5	-39	51	99	2	3	-7	-88	44	99	2	8	-4	1810	1742	99
1	15	-7	196	26	99	1	21	-7	217	162	99	1	28	-4	202	16	99	2	3	-6	148	146	99	2	8	-3	515	512	99
1	15	-6	784	801	99	1	21	-6	638	544	99	1	28	-3	231	95	99	2	3	-5	85	10	99	2	8	-2	1621	1598	99
1	15	-5	263	221	99	1	21	-5	149	344	99	1	28	-2	-227	23	99	2	3	-4	-102	114	99	2	8	-1	2008	2174	99
1	15	-4	1091	1201	99	1	21	-4	709	715	99	1	28	-1	17	33	99	2	3	-3	88	3	99	2	8	0	629	635	99
1	15	-3	270	257	99	1	21	-3	451	439	99	1	29	-5	307	354	99	2	3	-2	458	482	99	2	9	-10	-28	34	99
1	15	-2	1837	1718	99	1	21	-2	753	774	99	1	29	-4	92	199	99	2	3	-1	140	136	99	2	9	-9	143	74	99
1	15	-1	131	124	99	1	21	-1	363	390	99	1	29	-3	457	411	99	2	4	-10	359	423	99	2	9	-8	180	3	99
1	15	0	1290	1374	99	1	21	0	1191	1183	99	1	29	-2	177	136	99	2	4	-9	182	164	99	2	9	-7	159	93	99
1	16	-9	-263	34	99	1	22	-8	154	29	99	1	29	-1	519	446	99	2	4	-8	919	898	99	2	9	-6	-255	33	99
1	16	-8	258	49	99	1	22	-7	-237	11	99	1	29	0	172	170	99	2	4	-7	354	312	99	2	9	-5	136	76	99
1	16	-7	105	141	99	1	22	-6	269	68	99	1	30	-4	-364	8	99	2	4	-6	943	861	99	2	9	-4	72	172	99
1	16	-6	178	196	99	1	22	-5	-208	257	99	1	30	-3	-219	34	99	2	4	-5	667	651	99	2	9	-3	96	29	99
1	16	-5	157	56	99	1	22	-4	-156	34	99	1	30	-2	-306	205	99	2	4	-4	1509	1485	99	2	9	-2	432	403	99
1	16	-4	183	114	99	1	22	-3	228	159	99	1	30	-1	169	106	99	2	4	-3	1125	1160	99	2	9	-1	431	426	99
1	16	-3	87	117	99	1	22	-2	150	145	99	1	31	-4	274	13	99	2	4	-2	2666	2763	99	2	10	-10	227	227	99
1	16	-2	537	553	99	1	22	-1	480	416	99	1	31	-3	409	370	99	2	4	-1	445	435	99	2	10	-9	256	316	99
1	16	-1	115	153	99	1	23	-8	309	268	99	1	31	-2	164	85	99	2	4	0	1577	1612	99	2	10	-8	269	294	99
1	17	-9	151	7	99	1	23	-7	-70	270	99	1	31	-1	364	375	99	2	5	-10	101	11	99	2	10	-7	679	782	99

h	k	l	Fo	Fc	sigF2
2	10	-6	429	453	99
2	10	-5	1245	1134	99
2	10	-4	1341	1280	99
2	10	-3	831	850	99
2	10	-2	1273	1287	99
2	10	-1	2103	2135	99
2	10	0	355	332	99
2	11	-10	-203	10	99
2	11	-9	-74	66	99
2	11	-8	158	19	99
2	11	-7	-247	88	99
2	11	-6	191	88	99
2	11	-5	157	136	99
2	11	-4	120	7	99
2	11	-3	358	319	99
2	11	-2	185	152	99
2	11	-1	136	184	99
2	12	-10	193	167	99
2	12	-9	236	299	99
2	12	-8	242	198	99
2	12	-7	470	631	99
2	12	-6	395	320	99
2	12	-5	1387	1356	99
2	12	-4	801	738	99
2	12	-3	1520	1476	99
2	12	-2	835	824	99
2	12	-1	1336	1341	99
2	12	0	337	308	99
2	13	-10	-411	22	99
2	13	-9	-79	14	99
2	13	-8	92	17	99
2	13	-7	142	21	99
2	13	-6	158	84	99
2	13	-5	174	3	99
2	13	-4	-56	99	99
2	13	-3	-165	17	99
2	13	-2	375	311	99
2	13	-1	45	121	99
2	14	-9	208	320	99
2	14	-8	-379	242	99
2	14	-7	493	679	99
2	14	-6	59	44	99
2	14	-5	1100	1119	99
2	14	-4	189	170	99
2	14	-3	1382	1380	99
2	14	-2	525	487	99
2	14	-1	1491	1487	99
2	14	0	367	346	99
2	15	-9	229	41	99
2	15	-8	149	3	99
2	15	-7	169	57	99
2	15	-6	153	2	99
2	15	-5	-18	94	99
2	15	-4	-132	6	99
2	15	-3	85	80	99
2	15	-2	-189	16	99
2	15	-1	261	237	99
2	16	-9	388	335	99
2	16	-8	-90	165	99
2	16	-7	447	737	99
2	16	-6	209	160	99
2	16	-5	956	924	99
2	16	-4	168	109	99
2	16	-3	900	892	99
2	16	-2	366	322	99
2	16	-1	1632	1655	99
2	16	0	253	99	99
2	17	-9	203	16	99
2	17	-8	188	31	99
2	17	-7	-170	26	99
2	17	-6	184	141	99
2	17	-5	114	11	99
2	17	-4	24	10	99
2	17	-3	-95	8	99
2	17	-2	-120	217	99
2	17	-1	-238	130	99
2	18	-9	201	315	99
2	18	-8	-186	52	99
2	18	-7	489	687	99
2	18	-6	211	183	99
2	18	-5	742	733	99
2	18	-4	-191	85	99
2	18	-3	572	546	99
2	18	-2	-232	37	99
2	18	-1	1661	1685	99
2	18	0	581	604	99
2	19	-8	208	15	99
2	19	-7	178	17	99
2	19	-6	-219	70	99
2	19	-5	-241	99	99
2	19	-4	-172	21	99
2	19	-3	-375	102	99
2	19	-2	156	128	99
2	19	-1	-246	92	99
2	20	-8	138	163	99
2	20	-7	393	469	99
2	20	-6	348	293	99
2	20	-5	736	784	99
2	20	-4	116	53	99
2	20	-3	633	599	99
2	20	-2	119	210	99
2	20	-1	1076	1129	99
2	20	0	867	885	99
2	21	-8	-372	20	99
2	21	-7	-245	76	99
2	21	-6	141	10	99
2	21	-5	145	38	99
2	21	-4	-263	15	99
2	21	-3	74	71	99
2	21	-2	-392	54	99
2	21	-1	-98	117	99
2	22	-8	-136	160	99
2	22	-7	314	313	99
2	22	-6	-170	362	99
2	22	-5	752	782	99
2	22	-4	-68	133	99
2	22	-3	484	451	99
2	22	-2	476	498	99
2	22	-1	783	814	99
2	22	0	666	645	99
2	23	-7	285	48	99
2	23	-6	145	34	99
2	23	-5	138	100	99
2	23	-4	-101	54	99
2	23	-3	-237	105	99
2	23	-2	-164	171	99
2	23	-1	133	40	99
2	24	-7	102	289	99
2	24	-6	253	305	99
2	24	-5	369	531	99
2	24	-4	534	476	99
2	24	-3	223	356	99
2	24	-2	530	558	99
2	24	-1	615	578	99
2	24	0	-124	224	99
2	25	-7	157	21	99
2	25	-6	232	12	99
2	25	-5	171	81	99
2	25	-4	145	8	99
2	25	-3	-107	73	99
2	25	-2	132	5	99
2	25	-1	-329	105	99
2	26	-6	-94	255	99
2	26	-5	240	223	99
2	26	-4	496	562	99
2	26	-3	-166	177	99
2	26	-2	538	438	99
2	26	-1	535	509	99
2	26	0	427	371	99
2	27	-6	-422	53	99
2	27	-5	177	3	99
2	27	-4	-432	2	99
2	27	-3	-324	12	99
2	27	-2	275	89	99
2	27	-1	79	110	99
2	28	-5	218	117	99
2	28	-4	-65	375	99
2	28	-3	-128	41	99
2	28	-2	381	377	99
2	28	-1	472	390	99
2	28	0	646	554	99
2	29	-5	-150	49	99
2	29	-4	200	6	99
2	29	-3	227	49	99
2	29	-2	-139	60	99
2	29	-1	-222	58	99
2	30	-4	249	202	99
2	30	-3	148	75	99
2	30	-2	450	363	99
2	30	-1	208	214	99
2	30	0	701	621	99
2	31	-3	238	46	99
2	31	-2	194	22	99
2	31	-1	-408	27	99
2	32	-2	366	317	99
2	32	-1	-313	36	99
2	32	0	205	378	99
3	0	-10	-363	100	99
3	0	-8	254	124	99
3	0	-6	355	224	99
3	0	-4	219	322	99
3	0	-2	227	268	99
3	1	-10	-107	31	99
3	1	-9	572	474	99
3	1	-8	-114	34	99
3	1	-7	844	799	99
3	1	-6	-86	44	99
3	1	-5	1563	1541	99
3	1	-4	328	325	99
3	1	-3	1851	1927	99
3	1	-2	476	454	99
3	1	-1	2195	2017	99
3	1	0	510	524	99
3	2	-10	-129	80	99
3	2	-9	214	57	99
3	2	-8	278	143	99
3	2	-7	253	188	99
3	2	-6	147	41	99
3	2	-5	57	7	99
3	2	-4	314	389	99
3	2	-3	-103	127	99
3	2	-2	621	536	99
3	2	-1	293	248	99
3	3	-10	-167	111	99
3	3	-9	512	491	99
3	3	-8	220	135	99
3	3	-7	1107	974	99
3	3	-6	141	159	99
3	3	-5	1174	1094	99
3	3	-4	890	900	99
3	3	-3	1675	1767	99
3	3	-2	650	628	99
3	3	-1	2322	2152	99
3	3	0	67	85	99
3	4	-10	207	46	99
3	4	-9	153	31	99
3	4	-8	262	150	99
3	4	-7	67	56	99
3	4	-6	137	130	99
3	4	-5	176	143	99
3	4	-4	384	463	99
3	4	-3	161	217	99
3	4	-2	1027	956	99
3	4	-1	337	303	99
3	5	-10	146	165	99
3	5	-9	572	514	99
3	5	-8	397	344	99
3	5	-7	998	909	99
3	5	-6	398	379	99
3	5	-5	953	889	99
3	5	-4	888	904	99
3	5	-3	1386	1409	99
3	5	-2	667	683	99
3	5	-1	2175	2136	99
3	5	0	1107	1125	99
3	6	-10	-305	25	99
3	6	-9	168	26	99
3	6	-8	207	91	99
3	6	-7	53	178	99
3	6	-6	69	128	99
3	6	-5	237	116	99
3	6	-4	317	379	99
3	6	-3	114	72	99
3	6	-2	1004	940	99
3	6	-1	47	18	99
3	7	-10	95	213	99
3	7	-9	387	426	99
3	7	-8	490	491	99
3	7	-7	749	698	99
3	7	-6	757	662	99
3	7	-5	806	799	99
3	7	-4	637	646	99
3	7	-3	1384	1396	99
3	7	-2	1043	1076	99
3	7	-1	1512	1511	99
3	7	0	1717	1756	99
3	8	-10	-230	62	99
3	8	-9	96	41	99
3	8	-8	171	85	99
3	8	-7	202	179	99
3	8	-6	250	105	99
3	8	-5	-141	14	99
3	8	-4	252	330	99
3	8	-3	292	273	99
3	8	-2	205	187	99
3	8	-1	111	123	99
3	9	-10	-237	286	99
3	9	-9	184	291	99
3	9	-8	331	431	99
3	9	-7	455	404	99
3	9	-6	1053	873	99
3	9	-5	923	828	99
3	9	-4	809	777	99
3	9	-3	1231	1249	99
3	9	-2	1177	1184	99
3	9	-1	964	961	99
3	9	0	1907	1940	99
3	10	-10	170	97	99
3	10	-9	-116	11	99
3	10	-8	66	144	99
3	10	-7	-91	94	99
3	10	-6	-76	129	99
3	10	-5	-188	72	99
3	10	-4	276	312	99
3	10	-3	178	162	99
3	10	-2	188	128	99
3	10	-1	212	255	99
3	11	-10	176	307	99
3	11	-9	187	173	99
3	11	-8	369	375	99
3	11	-7	255	254	99
3	11	-6	970	831	99
3	11	-5	836	725	99
3	11	-4	1143	1151	99
3	11	-3	777	720	99
3	11	-2	1562	1496	99
3	11	-1	712	707	99
3	11	0	1114	1109	99
3	12	-9	-101	20	99
3	12	-8	-289	118	99
3	12	-7	-222	28	99
3	12	-6	-177	29	99
3	12	-5	488	339	99
3	12	-4	-104	214	99
3	12	-3	264	318	99
3	12	-2	229	168	99
3	12	-1	488	492	99
3	13	-9	177	113	99
3	13	-8	326	399	99
3	13	-7	280	280	99
3	13	-6	811	705	99
3	13	-5	301	242	99
3	13	-4	1320	1321	99
3	13	-3	362	331	99
3	13	-2	1465	1471	99
3	13	-1	568	575	99
3	13	0	927	921	99
3	14	-9	-229	17	99
3	14	-8	213	38	99
3	14	-7	-235	51	99
3	14	-6	-157	97	99
3	14	-5	325	253	99
3	14	-4	65	131	99
3	14	-3	152	178	99
3	14	-2	384	375	99
3	14	-1	207	243	99
3	15	-9	-106	82	99
3	15	-8	355	449	99
3	15	-7	106	190	99
3	15	-6	749	687	99
3	15	-5	-109	46	99
3	15	-4	1073	1081	99
3	15	-3	65	28	99
3	15	-2	1337	1272	99
3	15	-1	388	363	99
3	15	0	1215	1214	99
3	16	-9	-176	3	99
3	16	-8	166	12	99
3	16	-7	178	75	99
3	16	-6	210	57	99
3	16	-5	84	39	99
3	16	-4	176	181	99
3	16	-3	84	93	99
3	16	-2	510	443	99
3	16	-1	-19	162	99
3	17	-9	-190	9	99
3	17	-8	215	497	99
3	17	-7	36	34	99
3	17	-6	628	627	99
3	17	-5	169	166	99
3	17	-4	740	731	99
3	17	-3	-162	33	99
3	17	-2	1229	1129	99
3	17	-1	-254	41	99
3	17	0	1421	1399	99
3	18	-8	134	63	99
3	18	-7	244	164	99
3	18	-6	-216	41	99
3	18	-5	-354	15	99
3	18	-4	210	222	99
3	18	-3	298	264	99
3	18	-2	262	226	99
3	18	-1	-47	160	99
3	19	-8	163	399	99
3	19	-7	210	136	99
3	19	-6	462	515	99
3	19	-5	117	207	99
3	19	-4	720	763	99
3	19	-3	-270	58	99
3	19	-2	822	769	99
3	19	-1	418	442	99
3	19	0	1254	1298	99
3	20	-8	-30	65	99
3	20	-7	88	144	99
3	20	-6	217	71	99
3	20	-5	311	214	99
3	20	-4	208	81	99
3	20	-3	136	21	99
3	20	-2	160	69	99
3	20	-1	321	314	99
3	21	-8	136	232	99
3	21	-7	-196	249	99
3	21	-6	433	434	99
3	21	-5	260	177	99
3	21	-4	759	748	99
3	21	-3	-218	184	99
3	21	-2	580	610	99
3	21	-1	527	523	99
3	21	0	809	877	99
3	22	-7	-351	41	99
3	22	-6	-313	51	99
3	22	-5	203	199	99
3	22	-4	121	31	99
3	22	-3	-167	116	99
3	22	-2	-132	93	99
3	22	-1	393	278	99
3	23	-7	-128	210	99
3	23	-6	154	157	99
3	23	-5	231	278	99
3	23	-4	482	586	99
3	23	-3	483	455	99
3	23	-2	590	579	99
3	23	-1	351	383	99
3	23	0	334	394	99
3	24	-7	104	7	99
3	24	-6	-199	47	99
3	24	-5	199	116	99
3	24	-4	-393	25	99
3	24	-3	165	49	99
3	24	-2	178	162	99
3	24	-1	231	277	99
3	25	-6	302	270	99
3	25	-5	154	319	99
3	25	-4	112	302	99
3	25	-3	609	538	99
3	25	-2	457	454	99
3	25	-1	420	332	99
3	25	0	421	341	99
3	26	-6	-22	66	99
3	26	-5	184	76	99
3	26	-4	133	19	99
3	26	-3	73	35	99
3	26	-2	-161	144	99
3	26	-1	-143	105	99
3	27	-5	221	330	99
3	27	-4	160	112	99
3	27	-3	404	416	99
3	27	-2	90	312	99
3	27	-1	469	390	99
3	27	0	341	294	99
3	28	-5	-145	85	99
3	28	-4	-238	2	99
3	28	-3	238	35	99
3	28	-2	165	9	99
3	28	-1	158	44	99
3	29	-4	-193	70	99
3	29	-3	-13	221	99
3	29	-2	73	139	99
3	29	-1	519	493	99
3	29	0	217	217	99
3	30	-3	211	21	99
3	30	-2	257	116	99
3	30	-1	304	93	99
3	31	-2	269	27	99
3	31	-1	577	408	99
3	31	0	-269	50	99
4	0	-10	384	331	99
4	0	-8	550	546	99
4	0	-6	1227	1246	99
4	0	-4	830	903	99
4	0	-2	1408	1349	99
4	0	0	3063	3119	99
4	1	-10	161	51	99
4	1	-9	-274	66	99
4	1	-8	-182	26	99
4	1	-7	28	36	99
4	1	-6	-50	87	99
4	1	-5	469	334	99
4	1	-4	92	22	99
4	1	-3	373	442	99
4	1	-2	251	243	99
4	1	-1	-77	88	99
4	2	-10	338	314	99
4	2	-9	67	170	99
4	2	-8	507	498	99
4	2	-7	166	134	99
4	2	-6	1205	1190	99
4	2	-5	-189	36	99
4	2	-4	1055	1104	99
4	2	-3	486	480	99
4	2	-2	1395	1347	99
4	2	-1	283	294	99
4	2	0	2323	2432	99
4	3	-10	187	78	99
4	3	-9	-71	11	99
4	3	-8	92	10	99
4	3	-7	157	17	99
4	3	-6	-125	203	99
4	3	-5	-52	82	99
4	3	-4	-157	39	99
4	3	-3	219	105	99
4	3	-2	298	296	99
4	3	-1	105	5	99
4	4	-10	210	262	99
4	4	-9	294	228	99
4	4	-8	451	442	99
4	4	-7	347	284	99
4	4	-6	1124	1077	99
4	4	-5	251	232	99
4	4	-4	1101	1154	99
4	4	-3	687	703	99
4	4	-2	1397	1381	99
4	4	-1	710	669	99
4	4	0	1774	1636	99
4	5	-10	191	5	99
4	5	-9	172	1	99
4	5	-8	93	8	99
4	5	-7	188	7	99
4	5	-6	93	5	99
4	5	-5	259	275	99
4	5	-4	82	31	99
4	5	-3	325	236	99
4	5	-2	-73	1	99
4	5	-1	484	453	99
4	6	-10	314	207	99
4	6	-9	-203	233	99
4	6	-8	403	388	99
4	6	-7	328	349	99
4	6	-6	1020	959	99
4	6	-5	678	645	99
4	6	-4	1004	1053	99
4	6	-3	872	878	99
4	6	-2	1156	1131	99
4	6	-1	782	782	99
4	6	0	1605	1556	99
4	7	-9	-44	24	99
4	7	-8	-197	31	99
4	7	-7	111	30	99
4	7	-6	148	247	99
4	7	-5	-84	95	99
4	7	-4	141	63	99
4	7	-3	-124	40	99
4	7	-2	330	314	99
4	7	-1	219	141	99
4	8	-9	216	273	99
4	8	-8	344	351	99
4	8	-7	452	404	99
4	8	-6	866	781	99
4	8	-5	824	790	99
4	8	-4	674	670	99
4	8	-3	1093	1104	99
4	8	-2	806	820	99
4	8	-1	936	912	99
4	8	0	1882	1807	99
4	9	-9	-126	89	99
4	9	-8	162	21	99
4	9	-7	176	111	99
4	9	-6	145	158	99
4	9	-5	239	130	99
4	9	-4	144	20	99
4	9	-3	-113	154	99
4	9	-2	255	245	99
4	9	-1	249	263	99
4	10	-9	352	342	99
4	10	-8	326	269	99
4	10	-7	452	468	99
4	10	-6	670	583	99
4	10	-5	784	746	99
4	10	-4	421	407	99
4	10	-3	1178	1228	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	10	-2	613	626	99	4	16	-2	-37	34	99	4	23	-1	169	1	99	5	2	-1	-63	21	99	5	8	-3	132	7	99
4	10	-1	1022	1011	99	4	16	-1	881	832	99	4	24	-6	-238	172	99	5	3	-9	330	346	99	5	8	-2	128	148	99
4	10	0	1398	1375	99	4	16	0	160	72	99	4	24	-5	167	188	99	5	3	-8	269	256	99	5	8	-1	109	12	99
4	11	-9	-224	84	99	4	17	-8	-130	56	99	4	24	-4	229	265	99	5	3	-7	490	493	99	5	9	-9	106	233	99
4	11	-8	-175	4	99	4	17	-7	-239	14	99	4	24	-3	451	522	99	5	3	-6	228	216	99	5	9	-8	-113	201	99
4	11	-7	175	121	99	4	17	-6	-272	205	99	4	24	-2	27	454	99	5	3	-5	988	1007	99	5	9	-7	413	408	99
4	11	-6	155	53	99	4	17	-5	-198	62	99	4	24	-1	193	382	99	5	3	-4	-73	55	99	5	9	-6	546	499	99
4	11	-5	82	114	99	4	17	-4	-142	27	99	4	24	0	364	340	99	5	3	-3	1193	1194	99	5	9	-5	442	448	99
4	11	-4	139	67	99	4	17	-3	157	19	99	4	25	-5	-278	112	99	5	3	-2	595	540	99	5	9	-4	881	865	99
4	11	-3	-143	142	99	4	17	-2	287	278	99	4	25	-4	-289	15	99	5	3	-1	1290	1260	99	5	9	-3	508	514	99
4	11	-2	249	232	99	4	17	-1	241	260	99	4	25	-3	139	120	99	5	3	0	517	510	99	5	9	-2	818	812	99
4	11	-1	300	320	99	4	18	-8	-183	54	99	4	25	-2	-293	23	99	5	4	-9	-134	23	99	5	9	-1	1048	950	99
4	12	-9	207	401	99	4	18	-7	242	344	99	4	25	-1	225	91	99	5	4	-8	-258	66	99	5	9	0	852	813	99
4	12	-8	86	139	99	4	18	-6	-146	55	99	4	26	-5	233	141	99	5	4	-7	-224	38	99	5	10	-8	-219	108	99
4	12	-7	492	516	99	4	18	-5	709	633	99	4	26	-4	378	270	99	5	4	-6	-113	14	99	5	10	-7	67	34	99
4	12	-6	465	458	99	4	18	-4	185	164	99	4	26	-3	344	446	99	5	4	-5	102	111	99	5	10	-6	117	60	99
4	12	-5	708	633	99	4	18	-3	1032	1084	99	4	26	-2	477	385	99	5	4	-4	326	225	99	5	10	-5	139	47	99
4	12	-4	280	241	99	4	18	-2	-200	111	99	4	26	-1	352	171	99	5	4	-3	183	104	99	5	10	-4	430	345	99
4	12	-3	1146	1103	99	4	18	-1	684	660	99	4	26	0	438	429	99	5	4	-2	332	364	99	5	10	-3	118	12	99
4	12	-2	313	318	99	4	18	0	135	137	99	4	27	-4	-61	9	99	5	4	-1	121	121	99	5	10	-2	307	332	99
4	12	-1	1328	1292	99	4	19	-7	237	96	99	4	27	-3	-327	46	99	5	5	-9	119	270	99	5	10	-1	-69	51	99
4	12	0	1087	1042	99	4	19	-6	251	139	99	4	27	-2	-230	127	99	5	5	-8	222	222	99	5	11	-8	443	416	99
4	13	-9	-232	23	99	4	19	-5	-107	26	99	4	27	-1	-343	81	99	5	5	-7	393	396	99	5	11	-7	334	296	99
4	13	-8	-183	32	99	4	19	-4	75	61	99	4	28	-4	271	282	99	5	5	-6	399	361	99	5	11	-6	613	537	99
4	13	-7	140	47	99	4	19	-3	-283	53	99	4	28	-3	355	300	99	5	5	-5	907	942	99	5	11	-5	289	309	99
4	13	-6	268	179	99	4	19	-2	275	93	99	4	28	-2	421	337	99	5	5	-4	404	398	99	5	11	-4	686	644	99
4	13	-5	-25	12	99	4	19	-1	-130	159	99	4	28	-1	-100	69	99	5	5	-3	1325	1354	99	5	11	-3	240	267	99
4	13	-4	-78	26	99	4	20	-7	196	311	99	4	28	0	482	386	99	5	5	-2	754	716	99	5	11	-2	803	785	99
4	13	-3	97	32	99	4	20	-6	133	119	99	4	29	-3	206	107	99	5	5	-1	928	863	99	5	11	-1	748	757	99
4	13	-2	94	250	99	4	20	-5	402	478	99	4	29	-2	253	96	99	5	5	0	517	534	99	5	11	0	1450	1377	99
4	13	-1	-102	13	99	4	20	-4	179	311	99	4	29	-1	-304	9	99	5	6	-9	-23	13	99	5	12	-8	-235	78	99
4	14	-9	269	389	99	4	20	-3	727	764	99	4	30	-1	236	18	99	5	6	-8	162	37	99	5	12	-7	138	18	99
4	14	-8	-229	20	99	4	20	-2	275	291	99	4	30	0	-239	273	99	5	6	-7	127	80	99	5	12	-6	47	60	99
4	14	-7	539	501	99	4	20	-1	690	694	99	5	0	-8	-134	151	99	5	6	-6	131	31	99	5	12	-5	-152	68	99
4	14	-6	418	359	99	4	20	0	-255	102	99	5	0	-6	79	70	99	5	6	-5	-100	88	99	5	12	-4	350	299	99
4	14	-5	592	588	99	4	21	-7	-114	72	99	5	0	-4	474	392	99	5	6	-4	256	138	99	5	12	-3	-142	41	99
4	14	-4	42	166	99	4	21	-6	-114	13	99	5	0	-2	230	288	99	5	6	-3	-106	85	99	5	12	-2	241	300	99
4	14	-3	1246	1250	99	4	21	-5	153	71	99	5	1	-9	443	407	99	5	6	-2	251	309	99	5	12	-1	457	426	99
4	14	-2	143	47	99	4	21	-4	187	56	99	5	1	-8	221	115	99	5	6	-1	226	227	99	5	13	-8	439	457	99
4	14	-1	1050	1055	99	4	21	-3	65	100	99	5	1	-7	641	656	99	5	7	-9	271	249	99	5	13	-7	140	85	99
4	14	0	646	606	99	4	21	-2	-234	118	99	5	1	-6	122	66	99	5	7	-8	154	181	99	5	13	-6	605	537	99
4	15	-8	-197	0	99	4	21	-1	200	158	99	5	1	-5	879	920	99	5	7	-7	424	386	99	5	13	-5	361	360	99
4	15	-7	-126	100	99	4	22	-7	208	234	99	5	1	-4	32	70	99	5	7	-6	492	465	99	5	13	-4	528	525	99
4	15	-6	156	43	99	4	22	-6	223	164	99	5	1	-3	910	900	99	5	7	-5	743	734	99	5	13	-3	221	193	99
4	15	-5	62	47	99	4	22	-5	298	316	99	5	1	-2	158	166	99	5	7	-4	861	822	99	5	13	-2	918	905	99
4	15	-4	-164	106	99	4	22	-4	327	354	99	5	1	-1	1828	1704	99	5	7	-3	983	971	99	5	13	-1	322	326	99
4	15	-3	-73	31	99	4	22	-3	554	627	99	5	1	0	340	324	99	5	7	-2	804	739	99	5	13	0	1325	1285	99
4	15	-2	123	83	99	4	22	-2	494	411	99	5	2	-9	155	55	99	5	7	-1	967	916	99	5	14	-8	165	35	99
4	15	-1	549	486	99	4	22	-1	492	551	99	5	2	-8	-38	133	99	5	7	0	567	549	99	5	14	-7	-204	61	99
4	16	-8	-92	47	99	4	22	0	222	127	99	5	2	-7	-264	23	99	5	8	-9	201	20	99	5	14	-6	-138	29	99
4	16	-7	380	428	99	4	23	-6	259	68	99	5	2	-6	88	6	99	5	8	-8	-136	92	99	5	14	-5	-86	105	99
4	16	-6	227	167	99	4	23	-5	-155	35	99	5	2	-5	64	58	99	5	8	-7	170	72	99	5	14	-4	-95	69	99
4	16	-5	626	581	99	4	23	-4	68	31	99	5	2	-4	399	305	99	5	8	-6	112	14	99	5	14	-3	129	48	99
4	16	-4	-124	8	99	4	23	-3	-55	51	99	5	2	-3	85	107	99	5	8	-5	97	80	99	5	14	-2	69	159	99
4	16	-3	1251	1281	99	4	23	-2	146	190	99	5	2	-2	350	403	99	5	8	-4	132	152	99	5	14	-1	323	152	99
5	15	-8	198	373	99	5	22	-3	-194	8	99	6	3	-3	178	42	99	6	10	-7	123	351	99	6	17	-3	-207	39	99
5	15	-7	194	43	99	5	22	-2	-202	31	99	6	3	-2	317	303	99	6	10	-6	277	244	99	6	17	-2	160	185	99
5	15	-6	470	480	99	5	22	-1	95	142	99	6	3	-1	136	156	99	6	10	-5	618	598	99	6	17	-1	-73	48	99
5	15	-5	312	238	99	5	23	-5	-83	163	99	6	4	-8	373	395	99	6	10	-4	453	434	99	6	18	-6	80	112	99
5	15	-4	685	644	99	5	23	-4	117	188	99	6	4	-7	263	218	99	6	10	-3	405	395	99	6	18	-5	426	416	99
5	15	-3	-158	213	99	5	23	-3	335	306	99	6	4	-6	344	348	99	6	10	-2	579	548	99	6	18	-4	-289	42	99
5	15	-2	972	954	99	5	23	-2	107	387	99	6	4	-5	305	280	99	6	10	-1	958	892	99	6	18	-3	380	417	99
5	15	-1	66	43	99	5	23	-1	332	304	99	6	4	-4	900	906	99	6	10	0	398	393	99	6	18	-2	216	44	99
5	15	0	855	833	99	5	23	0	656	634	99	6	4	-3	309	307	99	6	11	-7	170	109	99	6	18	-1	630	662	99
5	16	-7	175	108	99	5	24	-5	-193	89	99	6	4	-2	1107	1085	99	6	11	-6	124	50	99	6	18	0	84	184	99
5	16	-6	28	44	99	5	24	-4	-243	24	99	6	4	-1	417	399	99	6	11	-5	-147	86	99	6	19	-6	147	67	99
5	16	-5	138	154	99	5	24	-3	-99	37	99	6	4	0	634	663	99	6	11	-4	105	14	99	6	19	-5	-113	66	99
5	16	-4	-78	22	99	5	24	-2	-359	72	99	6	5	-8	166	14	99	6	11	-3	225	232	99	6	19	-4	66	17	99
5	16	-3	-51	31	99	5	24	-1	235	135	99	6	5	-7	169	70	99	6	11	-2	170	91	99	6	19	-3	-189	105	99
5	16	-2	-115	120	99	5	25	-4	76	234	99	6	5	-6	97	38	99	6	11	-1	134	47	99	6	19	-2	194	132	99
5	16	-1	-107	145	99	5	25	-3	141	235	99	6	5	-5	33	85	99	6	12	-7	438	402	99	6	19	-1	-109	42	99
5	17	-7	-187	71	99	5	25	-2	-78	278	99	6	5	-4	-114	58	99	6	12	-6	128	120	99	6	20	-5	367	390	99
5	17	-6	380	452	99	5	25	-1	429	395	99	6	5	-3	-121	143	99	6	12	-5	625	576	99	6	20	-4	83	131	99
5	17	-5	140	26	99	5	25	0	336	317	99	6	5	-2	127	62	99	6	12	-4	376	348	99	6	20	-3	215	300	99
5	17	-4	848	763	99	5	26	-4	-265	25	99	6	5	-1	216	182	99	6	12	-3	542	512	99	6	20	-2	-163	128	99
5	17	-3	155	32	99	5	26	-3	113	33	99	6	6	-8	330	338	99	6	12	-2	343	319	99	6	20	-1	528	554	99
5	17	-2	797	823	99	5	26	-2	210	59	99	6	6	-7	236	259	99	6	12	-1	822	815	99	6	20	0	303	261	99
5	17	-1	-77	133	99	5	26	-1	-118	163	99	6	6	-6	309	286	99	6	12	0	273	267	99	6	21	-5	164	27	99
5	17	0	538	512	99	5	27	-3	-278	260	99	6	6	-5	386	345	99	6	13	-7	-245	16	99	6	21	-4	104	3	99
5	18	-7	241	129	99	5	27	-2	251	176	99	6	6	-4	781	758	99	6	13	-6	-10	62	99	6	21	-3	-117	77	99
5	18	-6	91	32	99	5	27	-1	431	343	99	6	6	-3	506	499	99	6	13	-5	182	18	99	6	21	-2	-265	33	99
5	18	-5	-237	147	99	5	27	0	-172	104	99	6	6	-2	1144	1069	99	6	13	-4	-125	52	99	6	21	-1	-169	78	99
5	18	-4	-89	68	99	5	28	-1	327	193	99	6	6	-1	579	557	99	6	13	-3	125	28	99	6	22	-4	-157	180	99
5	18	-3	-155	5	99	6	0	-8	396	444	99	6	6	0	436	428	99	6	13	-2	193	230	99	6	22	-3	169	175	99
5	18	-2	116	103	99	6	0	-6	421	476	99	6	7	-8	-165	12	99	6	13	-1	263	142	99	6	22	-2	-159	157	99
5	18	-1	145	59	99	6	0	-4	1024	1015	99	6	7	-7	136	1	99	6	14	-7	424	377	99	6	22	-1	468	478	99
5	19	-7	171	50	99	6	0	-2	1066	1038	99	6	7	-6	252	145	99	6	14	-6	228	56	99	6	22	0	376	358	99
5	19	-6	412	421	99	6	0	0	951	912	99	6	7	-5	176	41	99	6	14	-5	583	553	99	6	23	-4	156	2	99
5	19	-5	165	174	99	6	1	-8	63	6	99	6	7	-4	128	12	99	6	14	-4	224	256	99	6	23	-3	120	36	99
5	19	-4	590	562	99	6	1	-7	-164	127	99	6	7	-3	116	98	99	6	14	-3	491	497	99	6	23	-2	162	110	99
5	19	-3	266	245	99	6	1	-6	70	71	99	6	7	-2	256	276	99	6	14	-2	248	228	99	6	23	-1	-276	31	99
5	19	-2	638	702	99	6	1	-5	-123	105	99	6	7	-1	101	101	99	6	14	-1	859	806	99	6	24	-3	250	113	99
5	19	-1	189	79	99	6	1	-4	-127	22	99	6	8	-8	275	289	99	6	14	0	-171	34	99	6	24	-2	88	187	99
5	19	0	539	541	99	6	1	-3	295	228	99	6	8	-7	326	291	99	6	15	-7	173	39	99	6	24	-1	270	152	99
5	20	-6	-241	20	99	6	1	-2	224	187	99	6	8	-6	54	271	99	6	15	-6	-80	43	99	6	24	0	382	326	99
5	20	-5	-276	114	99	6	1	-1	136	55	99	6	8	-5	570	503	99	6	15	-5	-224	88	99	6	25	-2	-155	14	99
5	20	-4	154	95	99	6	2	-8	425	444	99	6	8	-4	570	580	99	6	15	-4	-136	55	99	6	25	-1	228	147	99
5	20	-3	-206	27	99	6	2	-7	195	170	99	6	8	-3	509	470	99	6	15	-3	135	107	99	6	26	-1	119	240	99
5	20	-2	165	63	99	6	2	-6	374	433	99	6	8	-2	963	949	99	6	15	-2	112	54	99	6	26	0	297	233	99
5	20	-1	198	144	99	6	2	-5	150	124	99	6	8	-1	794	741	99	6	15	-1	-149	140	99	7	0	-6	104	55	99
5	21	-6	405	352	99	6	2	-4	926	940	99	6	8	0	236	201	99	6	16	-6	-107	115	99	7	0	-4	-127	142	99
5	21	-5	183	240	99	6	2	-3	150	129	99	6	9	-8	-200	8	99	6	16	-5	505	501	99	7	0	-2	288	195	99
5	21	-4	170	323	99	6	2	-2	1155	1105	99	6	9	-7	174	104	99	6	16	-4	-283	127	99	7	1	-7	353	377	99
5	21	-3	348	355	99	6	2	-1	264	235	99	6	9	-6	191	70	99	6	16	-3	507	485	99	7	1	-6	-75	46	99
5	21	-2	517	523	99	6	2	0	854	856	99	6	9	-5	-118	74	99	6	16	-2	30	69	99	7	1	-5	542	571	99
5	21	-1	-119	132	99	6	3	-8	107	6	99	6	9	-4	101	86	99	6	16	-1	720	726	99	7	1	-4	128	162	99
5	21	0	619	672	99	6	3	-7	-157	1	99	6	9	-3	117	138	99	6	16	0	106	107	99	7	1	-3	817	791	99
5	22	-6	239	38	99	6	3	-6	89	108	99	6	9	-2	199	273	99	6	17	-6	-74	120	99	7	1	-2	79	45	99
5	22	-5	-342	62	99	6	3	-5	126	2	99	6	9	-1	108	113	99	6	17	-5	-275	21	99	7	1	-1	726	703	99
5	22	-4	105	80	99	6	3	-4	-108	58	99	6	10	-8	66	222	99	6	17	-4	112	18	99	7	1	0	121	15	99

h	k	l	Fo	Fc	sigF2
7	2	-7	-74	9	99
7	2	-6	-173	47	99
7	2	-5	76	78	99
7	2	-4	-209	129	99
7	2	-3	-151	5	99
7	2	-2	284	200	99
7	2	-1	191	148	99
7	3	-7	359	399	99
7	3	-6	71	124	99
7	3	-5	407	450	99
7	3	-4	320	332	99
7	3	-3	674	631	99
7	3	-2	197	207	99
7	3	-1	860	817	99
7	3	0	89	51	99
7	4	-7	89	20	99
7	4	-6	127	43	99
7	4	-5	-156	21	99
7	4	-4	62	170	99
7	4	-3	99	84	99
7	4	-2	247	180	99
7	4	-1	88	151	99
7	5	-7	419	395	99
7	5	-6	203	193	99
7	5	-5	291	302	99
7	5	-4	280	287	99
7	5	-3	548	543	99
7	5	-2	408	391	99
7	5	-1	769	808	99
7	5	0	254	253	99
7	6	-7	-64	61	99
7	6	-6	224	70	99
7	6	-5	200	132	99
7	6	-4	-215	183	99
7	6	-3	-190	54	99
7	6	-2	211	193	99
7	6	-1	52	97	99
7	7	-7	338	320	99
7	7	-6	162	250	99
7	7	-5	297	279	99
7	7	-4	273	249	99
7	7	-3	600	552	99
7	7	-2	463	444	99
7	7	-1	595	584	99
7	7	0	629	618	99
7	8	-7	21	44	99
7	8	-6	74	8	99
7	8	-5	-71	111	99
7	8	-4	125	154	99
7	8	-3	149	14	99
7	8	-2	229	180	99
7	8	-1	206	224	99
7	9	-7	231	214	99
7	9	-6	279	301	99
7	9	-5	288	317	99
7	9	-4	385	357	99
7	9	-3	500	497	99
7	9	-2	483	447	99
7	9	-1	370	358	99
7	9	0	759	727	99
7	10	-6	-115	40	99
7	10	-5	-84	17	99
7	10	-4	106	158	99
7	10	-3	106	87	99
7	10	-2	219	233	99
7	10	-1	145	183	99
7	11	-6	308	329	99
7	11	-5	191	258	99
7	11	-4	533	535	99
7	11	-3	341	349	99
7	11	-2	504	495	99
7	11	-1	213	232	99
7	11	0	555	512	99
7	12	-6	132	41	99
7	12	-5	-84	6	99
7	12	-4	-45	71	99
7	12	-3	123	56	99
7	12	-2	186	110	99
7	12	-1	109	134	99
7	13	-6	305	334	99
7	13	-5	200	94	99
7	13	-4	559	567	99
7	13	-3	231	146	99
7	13	-2	552	534	99
7	13	-1	203	221	99
7	13	0	427	393	99
7	14	-6	31	11	99
7	14	-5	-98	11	99
7	14	-4	187	18	99
7	14	-3	-135	11	99
7	14	-2	55	12	99
7	14	-1	146	17	99
7	15	-5	93	54	99
7	15	-4	445	458	99
7	15	-3	164	18	99
7	15	-2	487	515	99
7	15	-1	71	154	99
7	15	0	528	472	99
7	16	-5	-346	76	99
7	16	-4	-146	74	99
7	16	-3	95	25	99
7	16	-2	127	67	99
7	16	-1	187	95	99
7	17	-5	224	92	99
7	17	-4	-147	334	99
7	17	-3	-183	11	99
7	17	-2	419	433	99
7	17	-1	71	8	99
7	17	0	640	611	99
7	18	-4	-194	86	99
7	18	-3	144	26	99
7	18	-2	137	127	99
7	18	-1	-121	127	99
7	19	-4	287	295	99
7	19	-3	-247	24	99
7	19	-2	315	380	99
7	19	-1	-208	175	99
7	19	0	463	471	99
7	20	-3	149	40	99
7	20	-2	138	106	99
7	20	-1	157	101	99
7	21	-3	-162	52	99
7	21	-2	216	318	99
7	21	-1	271	243	99
7	21	0	321	280	99
7	22	-2	247	14	99
7	22	-1	-59	81	99
7	23	0	109	206	99
8	0	-6	407	455	99
8	0	-4	377	383	99
8	0	-2	587	544	99
8	0	0	701	642	99
8	1	-6	83	47	99
8	1	-5	146	52	99
8	1	-4	116	56	99
8	1	-3	70	73	99
8	1	-2	-125	14	99
8	1	-1	-91	116	99
8	2	-6	441	432	99
8	2	-5	-65	96	99
8	2	-4	398	383	99
8	2	-3	183	203	99
8	2	-2	481	471	99
8	2	-1	-35	33	99
8	2	0	701	714	99
8	3	-6	-43	68	99
8	3	-5	-87	13	99
8	3	-4	96	72	99
8	3	-3	108	11	99
8	3	-2	-157	36	99
8	3	-1	104	58	99
8	4	-6	381	390	99
8	4	-5	39	137	99
8	4	-4	361	320	99
8	4	-3	282	273	99
8	4	-2	378	388	99
8	4	-1	140	154	99
8	4	0	758	787	99
8	5	-6	101	3	99
8	5	-5	-106	35	99
8	5	-4	132	13	99
8	5	-3	-114	27	99
8	5	-2	75	10	99
8	5	-1	173	149	99
8	6	-5	197	176	99
8	6	-4	289	266	99
8	6	-3	242	253	99
8	6	-2	330	331	99
8	6	-1	274	311	99
8	6	0	676	704	99
8	7	-5	-217	12	99
8	7	-4	53	37	99
8	7	-3	-150	55	99
8	7	-2	45	80	99
8	7	-1	-195	120	99
8	8	-5	-70	200	99
8	8	-4	150	261	99
8	8	-3	316	315	99
8	8	-2	277	271	99
8	8	-1	388	374	99
8	8	0	527	534	99
8	9	-5	73	39	99
8	9	-4	109	61	99
8	9	-3	95	102	99
8	9	-2	125	38	99
8	9	-1	69	9	99
8	10	-5	245	253	99
8	10	-4	242	251	99
8	10	-3	444	421	99
8	10	-2	20	211	99
8	10	-1	370	351	99
8	10	0	338	330	99
8	11	-5	40	29	99
8	11	-4	-92	20	99
8	11	-3	148	59	99
8	11	-2	-44	54	99
8	11	-1	-124	78	99
8	12	-4	139	125	99
8	12	-3	507	466	99
8	12	-2	43	111	99
8	12	-1	384	340	99
8	12	0	278	300	99
8	13	-4	-88	30	99
8	13	-3	-121	4	99
8	13	-2	-55	46	99
8	13	-1	-136	4	99
8	14	-4	102	58	99
8	14	-3	450	483	99
8	14	-2	122	58	99
8	14	-1	338	319	99
8	14	0	154	239	99
8	15	-3	171	40	99
8	15	-2	-88	28	99
8	15	-1	173	65	99
8	16	-3	426	403	99
8	16	-2	87	12	99
8	16	-1	378	333	99
8	16	0	96	100	99
8	17	-2	183	93	99
8	17	-1	147	68	99
8	18	-1	277	303	99
8	18	0	-247	25	99
9	0	-4	118	126	99
9	0	-2	-35	197	99
9	1	-4	120	28	99
9	1	-3	304	318	99
9	1	-2	-12	34	99
9	1	-1	460	437	99
9	1	0	100	73	99
9	2	-3	-150	38	99
9	2	-2	126	146	99
9	2	-1	128	31	99
9	3	-3	324	339	99
9	3	-2	159	86	99
9	3	-1	360	361	99
9	3	0	227	196	99
9	4	-3	10	15	99
9	4	-2	114	37	99
9	4	-1	-140	10	99
9	5	-3	298	300	99
9	5	-2	147	162	99
9	5	-1	322	303	99
9	5	0	226	206	99
9	6	-3	142	29	99
9	6	-2	-164	3	99
9	6	-1	101	69	99
9	7	-3	236	245	99
9	7	-2	260	224	99
9	7	-1	250	279	99
9	7	0	217	184	99
9	8	-3	91	43	99
9	8	-2	-126	79	99
9	8	-1	126	51	99
9	9	-2	251	245	99
9	9	-1	97	249	99
9	9	0	261	252	99
9	10	-2	168	172	99
9	10	-1	-172	27	99
9	11	-1	224	194	99
9	11	0	357	305	99

APPENDIX 7.II

$[Hg(S_2CO\text{-}3\text{-}MeBu)_2]$

Table 7.II.1: Crystallographic Parameters for $[Hg(S_2COCH_2CH_2CH(CH_3)2)2]$

Formula	$C_{12}H_{22}HgO_2S_4$
Formula weight	527.13
Crystal morphology / colour	needle / pale yellow
Crystal dimensions (mm)	0.07 x 0.08 x 0.42
Crystal system	monoclinic
Space group	*Cc* (# 9)
a (Å)	28.72(2)
b (Å)	5.828(9)
c (Å)	11.41(2)
α (°)	90
β (°)	99.7(1)
γ (°)	90
V (Å^3)	1882(4)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.859
F(000)	1016
Temperature (°K)	200
μ (cm^{-1})	86.34
θ limits, cell (°)	15.3 – 18.9
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 37, 0 – 7, -14 – 14
Range of transmission factors	0.895 – 1
Scan technique	ω:2θ
No. of data measured	2459
No. of unique data	2412
R_{amal}	0.087
No. of parameters	170
R (I≥0σ(I))	0.116
R_w (I≥0σ(I))	0.135
R (I≥3σ(I))	0.054
R_w (I≥3σ(I))	0.052
Maximum and minimum residual electron density (e Å^{-3})	2.81, -3.11

Table 7.II.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Hg(S_2COCH_2CH_2CH(CH_3)_2)_2]$

Atom	*x*	*y*	*z*
Hg	0	0.0416(1)	0.5
S(1)	0.0118(4)	-0.3805(9)	0.5277(8)
S(2)	0.0632(3)	-0.7438(9)	0.4190(6)
S(3)	-0.0719(3)	0.161(1)	0.3470(6)
S(4)	-0.0202(3)	-0.1379(9)	0.2031(5)
O(1)	0.0740(6)	-0.297(3)	0.392(1)
O(2)	-0.0818(6)	0.156(3)	0.115(1)
C(1)	0.0514(7)	-0.465(4)	0.442(2)
C(2)	0.109(1)	-0.369(5)	0.318(3)
C(3)	0.1244(10)	-0.143(4)	0.267(2)
C(4)	0.162(1)	-0.176(5)	0.191(3)
C(5)	0.207(1)	-0.276(6)	0.257(3)
C(6)	0.172(1)	0.061(5)	0.137(3)
C(7)	-0.0608(7)	0.072(4)	0.215(2)
C(8)	-0.113(1)	0.354(5)	0.109(3)
C(9)	-0.137(1)	0.393(5)	-0.009(2)
C(10)	-0.171(1)	0.208(6)	-0.065(3)
C(11)	-0.214(1)	0.22(1)	-0.003(3)
C(12)	-0.185(1)	0.251(8)	-0.191(3)

Table 7.II.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Hg(S_2COCH_2CH_2CH(CH_3)2)2]$

Atom	$U11$	$U22$	$U33$	$U12$	$U13$	$U23$
Hg	0.0460(5)	0.0424(3)	0.0410(4)	-0.007(1)	0.0104(3)	-0.001(1)
S(1)	0.069(9)	0.044(2)	0.087(8)	0.005(4)	0.058(7)	0.005(3)
S(2)	0.052(5)	0.038(3)	0.080(5)	0.002(3)	0.034(4)	0.000(3)
S(3)	0.055(5)	0.091(5)	0.045(4)	0.014(4)	0.012(4)	-0.008(3)
S(4)	0.060(5)	0.048(3)	0.030(3)	-0.004(3)	0.012(3)	-0.003(2)
O(1)	0.04(1)	0.048(9)	0.038(9)	0.002(9)	0.018(8)	-0.012(8)
O(2)	0.06(1)	0.050(9)	0.034(10)	0.01(1)	-0.003(9)	-0.003(8)
C(1)	0.02(1)	0.043(10)	0.06(1)	-0.03(1)	0.02(1)	-0.03(1)
C(2)	0.07(2)	0.05(1)	0.10(2)	-0.01(2)	0.07(2)	-0.01(2)
C(3)	0.06(2)	0.07(2)	0.06(2)	-0.01(2)	0.02(2)	0.01(1)
C(4)	0.07(2)	0.07(2)	0.12(3)	0.01(2)	0.07(2)	-0.01(2)
C(5)	0.08(3)	0.12(3)	0.13(3)	0.02(2)	0.05(2)	0.02(2)
C(6)	0.14(3)	0.09(2)	0.11(3)	0.00(2)	0.06(3)	0.06(2)
C(7)	0.01(1)	0.08(2)	0.04(1)	0.00(1)	0.00(1)	0.00(1)
C(8)	0.07(3)	0.07(2)	0.10(3)	0.01(2)	0.04(2)	-0.01(2)
C(9)	0.05(2)	0.10(2)	0.05(2)	0.01(2)	-0.01(1)	0.02(1)
C(10)	0.03(2)	0.11(3)	0.11(3)	-0.01(2)	-0.02(2)	0.01(2)
C(11)	0.04(2)	0.45(9)	0.11(3)	0.01(4)	0.04(2)	0.09(4)
C(12)	0.12(4)	0.15(4)	0.10(3)	0.03(3)	0.02(3)	0.05(3)

Table 7.II.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Hg(S_2COCH_2CH_2CH(CH_3)_2)_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.0950	-0.4715	0.2553	6.4436
H(2b)	0.1359	-0.4440	0.3663	6.4436
H(3a)	0.0970	-0.0746	0.2178	5.8088
H(3b)	0.1363	-0.0409	0.3317	5.8088
H(4a)	0.1503	-0.2793	0.1263	7.6171
H(5a)	0.1997	-0.4202	0.2928	9.9169
H(5b)	0.2288	-0.3013	0.2034	9.9169
H(5c)	0.2203	-0.1701	0.3195	9.9169
H(6a)	0.1426	0.1241	0.0950	10.0367
H(6b)	0.1941	0.0424	0.0822	10.0367
H(6c)	0.1853	0.1651	0.2004	10.0367
H(8a)	-0.1363	0.3275	0.1594	6.9361
H(8b)	-0.0944	0.4884	0.1360	6.9361
H(9a)	-0.1540	0.5355	-0.0093	6.3223
H(9b)	-0.1126	0.4095	-0.0594	6.3223
H(10a)	-0.1565	0.0586	-0.0531	7.9544
H(11a)	-0.2358	0.0949	-0.0324	18.5267
H(11b)	-0.2040	0.1988	0.0822	18.5267
H(11c)	-0.2299	0.3642	-0.0183	18.5267
H(12a)	-0.2016	0.3977	-0.2030	11.7559
H(12b)	-0.1574	0.2556	-0.2291	11.7559
H(12c)	-0.2062	0.1302	-0.2267	11.7559

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 7.II.5: Bond distances (Å) for [Hg($S_2COCH_2CH_2CH(CH_3)_2)_2$]

Hg — S(1)	2.496(6)	O(2) — C(7)	1.29(2)
Hg — S(2)*	2.507(6)	O(2) — C(8)	1.45(3)
Hg — S(3)	2.566(8)	C(2) — C(3)	1.53(3)
Hg — S(4)**	2.546(5)	C(3) — C(4)	1.51(3)
S(1) — C(1)	1.69(2)	C(4) — C(5)	1.48(4)
S(2) — C(1)	1.69(2)	C(4) — C(6)	1.56(4)
S(3) — C(7)	1.67(2)	C(8) — C(9)	1.42(4)
S(4) — C(7)	1.71(2)	C(9) — C(10)	1.53(4)
O(1) — C(1)	1.35(2)	C(10) — C(11)	1.52(4)
O(1) — C(2)	1.48(2)	C(10) — C(12)	1.45(4)

* symmetry operation: x, $1 + y$, z. ** symmetry operation: x, $- y$, $0.5 + z$.

Table 7.II.6: Bond angles (deg.) for $[Hg(S_2COCH_2CH_2CH(CH_3)_2)_2]$

S(1) — Hg — S(2)*	116.6(3)	S(2) — C(1) — O(1)	121(1)
S(1) — Hg — S(3)	115.4(3)	O(1) — C(2) — C(3)	104(2)
S(1) — Hg — S(4)**	98.6(2)	C(2) — C(3) — C(4)	113(2)
S(2)* — Hg — S(3)	99.4(2)	C(3) — C(4) — C(5)	113(3)
S(2)* — Hg — S(4)**	121.1(2)	C(3) — C(4) — C(6)	108(2)
S(3) — Hg — S(4)**	106.2(2)	C(5) — C(4) — C(6)	111(3)
Hg — S(1) — C(1)	107.8(8)	S(3) — C(7) — S(4)	122(1)
Hg — S(2)* — C(1)*	104.2(7)	S(3) — C(7) — O(2)	123(2)
Hg — S(3) — C(7)	106.0(8)	S(4) — C(7) — O(2)	115(1)
Hg — S(4)** — C(7)**	100.3(7)	O(2) — C(8) — C(9)	112(2)
C(1) — O(1) — C(2)	117(2)	C(8) — C(9) — C(10)	117(3)
C(7) — O(2) — C(8)	123(2)	C(9) — C(10) — C(11)	108(3)
S(1) — C(1) — S(2)	123(1)	C(9) — C(10) — C(12)	110(3)
S(1) — C(1) — O(1)	117(1)	C(11) — C(10) — C(12)	110(3)

* symmetry operation: x, $1 + y$, z. ** symmetry operation: x, $- y$, $0.5 + z$.

Table 7.II.7: Observed and calculated structure factors for $[Hg(S_2COCH_2CH_2CH(CH_3)_2)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	2	2795	2732	99	1	1	-4	2160	2125	99	1	5	-2	444	462	99	2	2	2	1821	1718	99
0	0	4	2337	2386	99	1	1	-3	1350	1347	99	1	5	-1	1051	1123	99	2	2	3	1104	1031	99
0	0	6	2085	2083	99	1	1	-2	1959	1972	99	1	5	0	327	308	99	2	2	4	1852	1799	99
0	0	8	1347	1381	99	1	1	-1	1169	1046	99	1	5	1	1293	1287	99	2	2	5	1307	1381	99
0	0	10	1339	1298	99	1	1	0	2935	2956	99	1	5	2	392	355	99	2	2	6	1742	1667	99
0	0	12	731	673	99	1	1	1	733	774	99	1	5	3	1264	1268	99	2	2	7	625	642	99
0	0	14	609	537	99	1	1	2	1319	1313	99	1	5	4	434	397	99	2	2	8	1286	1205	99
0	2	0	1139	1122	99	1	1	3	686	680	99	1	5	5	527	585	99	2	2	9	222	340	99
0	2	1	2059	2048	99	1	1	4	1949	1976	99	1	5	6	305	270	99	2	2	10	775	687	99
0	2	2	2387	2308	99	1	1	5	870	907	99	1	5	7	602	646	99	2	2	11	232	472	99
0	2	3	901	908	99	1	1	6	1956	1947	99	1	5	8	293	219	99	2	2	12	464	448	99
0	2	4	2107	2108	99	1	1	7	391	356	99	1	5	9	669	567	99	2	2	13	275	213	99
0	2	5	1540	1604	99	1	1	8	1237	1179	99	1	5	10	372	109	99	2	2	14	-107	356	99
0	2	6	1644	1615	99	1	1	9	214	122	99	1	5	11	286	385	99	2	4	-12	441	361	99
0	2	7	794	839	99	1	1	10	1155	1070	99	1	7	-5	435	498	99	2	4	-11	553	532	99
0	2	8	1237	1118	99	1	1	11	132	365	99	1	7	-4	-117	172	99	2	4	-10	-267	322	99
0	2	9	413	478	99	1	1	12	652	614	99	1	7	-3	440	515	99	2	4	-9	617	540	99
0	2	10	786	714	99	1	1	13	-445	207	99	1	7	-2	182	209	99	2	4	-8	253	354	99
0	2	11	506	491	99	1	1	14	542	475	99	1	7	-1	376	473	99	2	4	-7	891	821	99
0	2	12	602	491	99	1	3	-13	-82	241	99	1	7	0	86	61	99	2	4	-6	402	428	99
0	2	13	166	227	99	1	3	-12	395	492	99	1	7	1	356	415	99	2	4	-5	1095	1099	99
0	2	14	355	381	99	1	3	-11	528	438	99	1	7	2	-188	177	99	2	4	-4	244	246	99
0	4	0	347	358	99	1	3	-10	592	613	99	1	7	3	490	475	99	2	4	-3	1194	1271	99
0	4	1	1279	1250	99	1	3	-9	721	739	99	1	7	4	-114	167	99	2	4	-2	849	913	99
0	4	2	869	933	99	1	3	-8	764	813	99	1	7	5	234	502	99	2	4	-1	1178	1202	99
0	4	3	1476	1498	99	1	3	-7	910	918	99	2	0	-14	582	616	99	2	4	0	586	603	99
0	4	4	471	446	99	1	3	-6	856	915	99	2	0	-12	417	497	99	2	4	1	1376	1356	99
0	4	5	923	914	99	1	3	-5	1210	1212	99	2	0	-10	1177	1134	99	2	4	2	928	902	99
0	4	6	345	269	99	1	3	-4	1225	1354	99	2	0	-8	1766	1849	99	2	4	3	1423	1364	99
0	4	7	817	784	99	1	3	-3	1074	1098	99	2	0	-6	2128	2181	99	2	4	4	659	628	99
0	4	8	490	448	99	1	3	-2	1625	1684	99	2	0	-4	2029	2032	99	2	4	5	831	827	99
0	4	9	653	633	99	1	3	-1	926	910	99	2	0	-2	2816	2743	99	2	4	6	373	368	99
0	4	10	-119	241	99	1	3	0	1155	1160	99	2	0	2	3343	3473	99	2	4	7	874	854	99
0	4	11	529	467	99	1	3	1	771	762	99	2	0	4	2392	2448	99	2	4	8	495	533	99
0	4	12	474	294	99	1	3	2	1932	1922	99	2	0	6	1882	1869	99	2	4	9	620	623	99
0	6	0	89	2	99	1	3	3	898	933	99	2	0	8	700	748	99	2	4	10	290	188	99
0	6	1	532	585	99	1	3	4	1282	1190	99	2	0	10	1273	1239	99	2	4	11	448	377	99
0	6	2	72	173	99	1	3	5	1085	1116	99	2	0	12	799	691	99	2	4	12	259	258	99
0	6	3	656	682	99	1	3	6	869	823	99	2	0	14	-425	436	99	2	6	-9	441	112	99
0	6	4	-168	81	99	1	3	7	880	896	99	2	2	-14	206	351	99	2	6	-8	-86	72	99
0	6	5	403	456	99	1	3	8	1104	975	99	2	2	-13	151	226	99	2	6	-7	543	589	99
0	6	6	-336	67	99	1	3	9	681	719	99	2	2	-12	555	582	99	2	6	-6	122	74	99
0	6	7	456	518	99	1	3	10	458	482	99	2	2	-11	-153	320	99	2	6	-5	436	489	99
0	6	8	-190	98	99	1	3	11	456	460	99	2	2	-10	747	776	99	2	6	-4	169	82	99
0	6	9	147	375	99	1	3	12	307	408	99	2	2	-9	786	749	99	2	6	-3	562	530	99
1	1	-14	475	548	99	1	3	13	458	243	99	2	2	-8	901	927	99	2	6	-2	196	110	99
1	1	-13	389	240	99	1	5	-11	520	453	99	2	2	-7	803	762	99	2	6	-1	635	673	99
1	1	-12	686	558	99	1	5	-10	157	100	99	2	2	-6	1361	1478	99	2	6	0	120	111	99
1	1	-11	216	253	99	1	5	-9	610	528	99	2	2	-5	1348	1312	99	2	6	1	499	612	99
1	1	-10	1064	1010	99	1	5	-8	262	182	99	2	2	-4	2537	2548	99	2	6	2	-154	156	99
1	1	-9	524	410	99	1	5	-7	837	723	99	2	2	-3	1060	1022	99	2	6	3	735	720	99
1	1	-8	1498	1504	99	1	5	-6	224	329	99	2	2	-2	2123	2091	99	2	6	4	190	165	99
1	1	-7	153	90	99	1	5	-5	732	724	99	2	2	-1	2104	2086	99	2	6	5	488	461	99
1	1	-6	1671	1730	99	1	5	-4	350	378	99	2	2	0	2046	1970	99	2	6	6	-168	78	99
1	1	-5	419	408	99	1	5	-3	966	1065	99	2	2	1	1854	1794	99	2	6	7	467	481	99
3	3	11	499	503	99	4	2	-9	910	943	99	4	6	-2	-199	59	99	5	3	2	1541	1432	99
3	3	12	302	368	99	4	2	-8	836	865	99	4	6	-1	681	690	99	5	3	3	724	743	99
3	3	13	357	277	99	4	2	-7	618	585	99	4	6	0	167	163	99	5	3	4	1180	1107	99
3	5	-11	482	465	99	4	2	-6	1460	1485	99	4	6	1	576	587	99	5	3	5	984	953	99
3	5	-10	187	88	99	4	2	-5	1155	1095	99	4	6	2	158	122	99	5	3	6	801	749	99
3	5	-9	563	489	99	4	2	-4	2014	2003	99	4	6	3	762	705	99	5	3	7	626	676	99
3	5	-8	-132	222	99	4	2	-3	1591	1506	99	4	6	4	156	78	99	5	3	8	983	923	99
3	5	-7	904	857	99	4	2	-2	2528	2453	99	4	6	5	481	473	99	5	3	9	720	627	99
3	5	-6	313	298	99	4	2	-1	1774	1706	99	4	6	6	-428	112	99	5	3	10	442	356	99
3	5	-5	782	796	99	4	2	0	2238	2136	99	4	6	7	473	482	99	5	3	11	545	503	99
3	5	-4	245	323	99	4	2	1	1415	1328	99	4	6	8	102	37	99	5	3	12	-279	359	99
3	5	-3	909	916	99	4	2	2	1668	1611	99	5	1	-14	524	546	99	5	3	13	350	267	99
3	5	-2	493	504	99	4	2	3	1060	1033	99	5	1	-13	343	171	99	5	5	-11	-128	456	99
3	5	-1	1060	1037	99	4	2	4	1341	1327	99	5	1	-12	662	631	99	5	5	-10	169	131	99
3	5	0	279	284	99	4	2	5	1260	1267	99	5	1	-11	259	203	99	5	5	-9	426	457	99
3	5	1	1288	1235	99	4	2	6	1438	1368	99	5	1	-10	1121	1109	99	5	5	-8	-131	239	99
3	5	2	145	265	99	4	2	7	522	564	99	5	1	-9	951	878	99	5	5	-7	908	912	99
3	5	3	1307	1268	99	4	2	8	1267	1226	99	5	1	-8	1395	1408	99	5	5	-6	222	223	99
3	5	4	389	385	99	4	2	9	259	407	99	5	1	-7	-37	170	99	5	5	-5	871	871	99
3	5	5	653	669	99	4	2	10	723	715	99	5	1	-6	1622	1591	99	5	5	-4	377	330	99
3	5	6	241	228	99	4	2	11	167	456	99	5	1	-5	166	136	99	5	5	-3	882	910	99
3	5	7	602	642	99	4	2	12	419	432	99	5	1	-4	2401	2414	99	5	5	-2	562	554	99
3	5	8	309	225	99	4	2	13	-438	155	99	5	1	-3	589	562	99	5	5	-1	1153	1072	99
3	5	9	-47	499	99	4	4	-12	83	357	99	5	1	-2	2297	2112	99	5	5	0	425	371	99
3	5	10	193	90	99	4	4	-11	593	566	99	5	1	-1	1106	1087	99	5	5	1	978	918	99
3	7	-5	429	464	99	4	4	-10	315	310	99	5	1	0	2641	2915	99	5	5	2	373	302	99
3	7	-4	149	167	99	4	4	-9	640	559	99	5	1	1	630	696	99	5	5	3	1358	1223	99
3	7	-3	544	598	99	4	4	-8	428	458	99	5	1	2	2294	2384	99	5	5	4	402	333	99
3	7	-2	293	230	99	4	4	-7	894	861	99	5	1	3	323	338	99	5	5	5	702	772	99
3	7	-1	474	547	99	4	4	-6	524	594	99	5	1	4	1763	1777	99	5	5	6	-171	185	99
3	7	0	135	87	99	4	4	-5	1050	1035	99	5	1	5	833	870	99	5	5	7	608	685	99
3	7	1	402	404	99	4	4	-4	255	233	99	5	1	6	1720	1698	99	5	5	8	142	213	99
3	7	2	66	153	99	4	4	-3	1104	1057	99	5	1	7	213	260	99	5	5	9	402	434	99
3	7	3	400	411	99	4	4	-2	462	472	99	5	1	8	989	921	99	5	5	10	36	125	99
3	7	4	-235	144	99	4	4	-1	1387	1331	99	5	1	9	229	321	99	5	7	-5	351	446	99
3	7	5	375	402	99	4	4	0	872	831	99	5	1	10	1145	1041	99	5	7	-4	139	97	99
4	0	-14	653	634	99	4	4	1	1381	1301	99	5	1	11	296	266	99	5	7	-3	502	611	99
4	0	-12	257	474	99	4	4	2	867	815	99	5	1	12	692	598	99	5	7	-2	283	254	99
4	0	-10	1182	1195	99	4	4	3	1263	1227	99	5	1	13	-489	41	99	5	7	-1	544	603	99
4	0	-8	1869	1882	99	4	4	4	779	698	99	5	1	14	-318	337	99	5	7	0	186	140	99
4	0	-6	1999	2048	99	4	4	5	924	939	99	5	3	-13	392	330	99	5	7	1	430	463	99
4	0	-4	3008	3006	99	4	4	6	569	457	99	5	3	-12	571	513	99	5	7	2	-211	154	99
4	0	-2	2485	2437	99	4	4	7	829	833	99	5	3	-11	551	430	99	5	7	3	351	381	99
4	0	2	4464	4801	99	4	4	8	529	525	99	5	3	-10	232	388	99	5	7	4	130	104	99
4	0	4	3222	3295	99	4	4	9	610	569	99	5	3	-9	664	663	99	5	7	5	337	335	99
4	0	6	2172	2161	99	4	4	10	242	166	99	5	3	-8	830	858	99	6	0	-14	577	586	99
4	0	8	572	566	99	4	4	11	418	330	99	5	3	-7	710	644	99	6	0	-12	501	581	99
4	0	10	1120	1133	99	4	4	12	-189	215	99	5	3	-6	1304	1343	99	6	0	-10	1281	1266	99
4	0	12	748	675	99	4	6	-9	270	325	99	5	3	-5	1280	1238	99	6	0	-8	1618	1676	99
4	0	14	517	355	99	4	6	-8	-240	62	99	5	3	-4	1218	1170	99	6	0	-6	2079	2070	99
4	2	-14	215	342	99	4	6	-7	551	579	99	5	3	-3	1263	1252	99	6	0	-4	3246	3201	99
4	2	-13	279	187	99	4	6	-6	-117	28	99	5	3	-2	1587	1545	99	6	0	-2	2769	2720	99
4	2	-12	676	659	99	4	6	-5	485	512	99	5	3	-1	1455	1368	99	6	0	0	2616	2682	99
4	2	-11	355	248	99	4	6	-4	-109	179	99	5	3	0	1684	1592	99	6	0	2	3172	3052	99
4	2	-10	743	723	99	4	6	-3	510	589	99	5	3	1	1339	1252	99	6	0	4	3205	3227	99
6	0	6	2182	2157	99																		
6	0	8	831	854	99																		
6	0	10	1080	1008	99																		
6	0	12	615	587	99																		
6	0	14	-796	343	99																		
6	2	-14	371	382	99																		
6	2	-13	144	224	99																		
6	2	-12	756	670	99																		
6	2	-11	121	338	99																		
6	2	-10	768	787	99																		
6	2	-9	941	915	99																		
6	2	-8	1018	1080	99																		
6	2	-7	550	550	99																		
6	2	-6	1278	1331	99																		
6	2	-5	1212	1161	99																		
6	2	-4	1492	1520	99																		
6	2	-3	1878	1788	99																		
6	2	-2	2667	2475	99																		
6	2	-1	1356	1340	99																		
6	2	0	2429	2361	99																		
6	2	1	1814	1837	99																		
6	2	2	1971	1983	99																		
6	2	3	1166	1171	99																		
6	2	4	1136	1122	99																		
6	2	5	1312	1324	99																		
6	2	6	1392	1313	99																		
6	2	7	510	494	99																		
6	2	8	1205	1149	99																		
6	2	9	523	541	99																		
6	2	10	814	691	99																		
6	2	11	391	445	99																		
6	2	12	348	479	99																		
6	2	13	209	84	99																		
6	4	-12	271	299	99																		
6	4	-11	508	547	99																		
6	4	-10	401	295	99																		
6	4	-9	425	609	99																		
6	4	-8	437	504	99																		
6	4	-7	875	845	99																		
6	4	-6	653	657	99																		
6	4	-5	1097	1060	99																		
6	4	-4	178	224	99																		
6	4	-3	1042	1035	99																		
6	4	-2	245	291	99																		
6	4	-1	1426	1368	99																		
6	4	0	541	575	99																		
6	4	1	1315	1201	99																		
6	4	2	726	651	99																		
6	4	3	1194	1217	99																		
6	4	4	744	699	99																		
6	4	5	956	917	99																		
6	4	6	581	471	99																		
6	4	7	758	695	99																		
6	4	8	622	603	99																		
6	4	9	571	633	99																		

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	4	10	379	188	99	7	3	-6	1335	1366	99	8	0	-6	2092	2052	99	8	4	5	872	959	99	9	3	-10	420	493	99
6	4	11	314	333	99	7	3	-5	1062	1025	99	8	0	-4	3749	3757	99	8	4	6	529	480	99	9	3	-9	644	681	99
6	6	-9	241	313	99	7	3	-4	937	928	99	8	0	-2	3149	3201	99	8	4	7	716	765	99	9	3	-8	662	726	99
6	6	-8	-44	102	99	7	3	-3	1322	1270	99	8	0	0	1792	1822	99	8	4	8	659	493	99	9	3	-7	535	464	99
6	6	-7	506	511	99	7	3	-2	1815	1722	99	8	0	2	2738	2874	99	8	4	9	524	518	99	9	3	-6	1308	1363	99
6	6	-6	231	122	99	7	3	-1	1256	1131	99	8	0	4	2246	2299	99	8	4	10	436	224	99	9	3	-5	811	755	99
6	6	-5	551	542	99	7	3	0	1645	1521	99	8	0	6	2145	2055	99	8	4	11	468	319	99	9	3	-4	1012	969	99
6	6	-4	-45	194	99	7	3	1	1396	1341	99	8	0	8	1318	1236	99	8	5	-8	-75	78	99	9	3	-3	1094	1066	99
6	6	-3	524	540	99	7	3	2	1425	1304	99	8	0	10	1001	882	99	8	5	-7	427	464	99	9	3	-2	1718	1637	99
6	6	-2	116	90	99	7	3	3	818	859	99	8	0	12	641	470	99	8	5	-6	225	162	99	9	3	-1	1105	1052	99
6	6	-1	637	630	99	7	3	4	1137	1161	99	8	2	-14	269	396	99	8	5	-5	508	510	99	9	3	0	1496	1462	99
6	6	0	175	85	99	7	3	5	693	747	99	8	2	-13	306	324	99	8	6	-4	168	130	99	9	3	1	1484	1392	99
6	6	1	582	537	99	7	3	6	959	856	99	8	2	-12	686	646	99	8	6	-3	504	532	99	9	3	2	1039	1022	99
6	6	2	-281	96	99	7	3	7	424	552	99	8	2	-11	405	408	99	8	6	-2	123	114	99	9	3	3	956	965	99
6	6	3	743	683	99	7	3	8	837	732	99	8	2	-10	819	841	99	8	6	-1	660	638	99	9	3	4	1208	1233	99
6	6	4	203	63	99	7	3	9	577	538	99	8	2	-9	865	861	99	8	6	0	206	96	99	9	3	5	873	856	99
6	6	5	475	519	99	7	3	10	518	365	99	8	2	-8	1044	1111	99	8	6	1	488	495	99	9	3	6	679	688	99
6	6	6	-80	125	99	7	3	11	383	456	99	8	2	-7	680	667	99	8	6	2	192	42	99	9	3	7	597	639	99
6	6	7	457	453	99	7	3	12	-41	334	99	8	2	-6	1198	1231	99	8	6	3	728	653	99	9	3	8	618	557	99
6	6	8	259	73	99	7	5	-11	374	406	99	8	2	-5	1424	1420	99	8	6	4	190	100	99	9	3	9	464	450	99
7	1	-14	304	487	99	7	5	-10	137	167	99	8	2	-4	1317	1294	99	8	6	5	574	523	99	9	3	10	316	372	99
7	1	-13	232	180	99	7	5	-9	465	481	99	8	2	-3	1432	1391	99	8	6	6	277	89	99	9	3	11	285	423	99
7	1	-12	677	636	99	7	5	-8	193	214	99	8	2	-2	2180	2064	99	8	6	7	425	437	99	9	3	12	-58	319	99
7	1	-11	84	220	99	7	5	-7	893	902	99	8	2	-1	1372	1356	99	8	6	8	-230	107	99	9	5	-10	233	146	99
7	1	-10	1068	1075	99	7	5	-6	187	271	99	8	2	0	2487	2531	99	9	1	-14	606	473	99	9	5	-9	496	492	99
7	1	-9	791	745	99	7	5	-5	980	954	99	8	2	1	1825	1925	99	9	1	-13	330	196	99	9	5	-8	165	219	99
7	1	-8	1230	1225	99	7	5	-4	214	347	99	8	2	2	1966	2078	99	9	1	-12	745	704	99	9	5	-7	840	869	99
7	1	-7	258	191	99	7	5	-3	915	913	99	8	2	3	1124	1163	99	9	1	-11	185	154	99	9	5	-6	306	318	99
7	1	-6	1285	1327	99	7	5	-2	570	527	99	8	2	4	1358	1354	99	9	1	-10	940	979	99	9	5	-5	964	908	99
7	1	-5	621	600	99	7	5	-1	1177	1116	99	8	2	5	774	848	99	9	1	-9	331	309	99	9	5	-4	115	255	99
7	1	-4	2404	2379	99	7	5	0	517	471	99	8	2	6	1110	1096	99	9	1	-8	1198	1226	99	9	5	-3	1036	973	99
7	1	-3	291	249	99	7	5	1	875	775	99	8	2	7	399	504	99	9	1	-7	536	551	99	9	5	-2	419	400	99
7	1	-2	2068	1984	99	7	5	2	330	313	99	8	2	8	904	859	99	9	1	-6	1133	1260	99	9	5	-1	1261	1160	99
7	1	-1	940	893	99	7	5	3	1152	994	99	8	2	9	456	486	99	9	1	-5	677	661	99	9	5	0	536	474	99
7	1	0	1913	2096	99	7	5	4	447	289	99	8	2	10	782	662	99	9	1	-4	2342	2347	99	9	5	1	824	723	99
7	1	1	1036	1175	99	7	5	5	801	814	99	8	2	11	320	375	99	9	1	-3	424	458	99	9	5	2	469	355	99
7	1	2	1973	2015	99	7	5	6	236	156	99	8	2	12	381	500	99	9	1	-2	2059	1979	99	9	5	3	792	753	99
7	1	3	458	530	99	7	5	7	558	659	99	8	2	13	256	82	99	9	1	-1	967	906	99	9	5	4	154	276	99
7	1	4	1718	1725	99	7	5	8	-535	200	99	8	4	-12	-245	241	99	9	1	0	1721	1852	99	9	5	5	755	780	99
7	1	5	607	663	99	7	5	9	-346	430	99	8	4	-11	466	471	99	9	1	1	516	600	99	9	5	6	232	133	99
7	1	6	1494	1465	99	7	5	10	-359	138	99	8	4	-10	346	350	99	9	1	2	2406	2382	99	9	5	7	500	567	99
7	1	7	-43	244	99	7	7	-5	354	412	99	8	4	-9	650	664	99	9	1	3	505	568	99	9	5	8	251	138	99
7	1	8	1066	986	99	7	7	-4	99	36	99	8	4	-8	375	404	99	9	1	4	1589	1655	99	9	5	9	282	445	99
7	1	9	395	410	99	7	7	-3	499	545	99	8	4	-7	977	960	99	9	1	5	239	344	99	9	5	10	53	113	99
7	1	10	1057	876	99	7	7	-2	275	249	99	8	4	-6	661	700	99	9	1	6	1466	1468	99	9	7	-5	353	364	99
7	1	11	569	277	99	7	7	-1	572	624	99	8	4	-5	1047	1013	99	9	1	7	114	409	99	9	7	-4	-142	34	99
7	1	12	591	554	99	7	7	0	224	171	99	8	4	-4	268	258	99	9	1	8	1210	1078	99	9	7	-3	429	463	99
7	1	13	190	53	99	7	7	1	533	520	99	8	4	-3	1034	1013	99	9	1	9	432	379	99	9	7	-2	53	189	99
7	3	-13	364	393	99	7	7	2	-185	154	99	8	4	-2	515	477	99	9	1	10	855	781	99	9	7	-1	567	572	99
7	3	-12	463	487	99	7	7	3	454	419	99	8	4	-1	1345	1256	99	9	1	11	107	274	99	9	7	0	100	155	99
7	3	-11	467	444	99	7	7	4	182	93	99	8	4	0	253	133	99	9	1	12	434	514	99	9	7	1	505	546	99
7	3	-10	238	405	99	8	0	-14	505	502	99	8	4	1	1242	1164	99	9	1	13	174	66	99	9	7	2	283	158	99
7	3	-9	579	548	99	8	0	-12	738	730	99	8	4	2	510	402	99	9	3	-13	499	450	99	9	7	3	409	449	99
7	3	-8	835	886	99	8	0	-10	1259	1288	99	8	4	3	980	969	99	9	3	-12	223	430	99	9	7	4	-99	123	99
7	3	-7	517	508	99	8	0	-8	1577	1608	99	8	4	4	754	711	99	9	3	-11	538	429	99	10	0	-14	541	478	99
10	0	-12	782	787	99	10	4	2	406	192	99	11	3	-12	386	373	99	12	0	-10	1052	1057	99	12	4	4	610	551	99
10	0	-10	1245	1223	99	10	4	3	946	909	99	11	3	-11	478	460	99	12	0	-8	1378	1401	99	12	4	5	588	732	99
10	0	-8	1432	1476	99	10	4	4	668	742	99	11	3	-10	519	584	99	12	0	-6	2001	2049	99	12	4	6	242	278	99
10	0	-6	1938	1948	99	10	4	5	872	944	99	11	3	-9	707	723	99	12	0	-4	2541	2537	99	12	4	7	366	527	99
10	0	-4	3785	3767	99	10	4	6	513	430	99	11	3	-8	707	762	99	12	0	-2	2528	2549	99	12	4	8	376	368	99
10	0	-2	1906	1935	99	10	4	7	352	621	99	11	3	-7	597	566	99	12	0	0	2736	2677	99	12	4	9	617	471	99
10	0	0	2527	2571	99	10	4	8	479	439	99	11	3	-6	1133	1111	99	12	0	2	1890	2062	99	12	4	10	-172	270	99
10	0	2	2269	2348	99	10	4	9	474	490	99	11	3	-5	649	594	99	12	0	4	680	776	99	12	6	-8	104	60	99
10	0	4	1389	1351	99	10	4	10	241	265	99	11	3	-4	1169	1110	99	12	0	6	1696	1540	99	12	6	-7	431	438	99
10	0	6	1915	1786	99	10	4	11	203	327	99	11	3	-3	1023	937	99	12	0	8	1251	1144	99	12	6	-6	-118	59	99
10	0	8	1232	1266	99	10	6	-8	127	24	99	11	3	-2	1683	1571	99	12	0	10	547	670	99	12	6	-5	416	447	99
10	0	10	865	739	99	10	6	-7	449	442	99	11	3	-1	1039	1023	99	12	0	12	-584	486	99	12	6	-4	152	70	99
10	0	12	654	411	99	10	6	-6	-37	139	99	11	3	0	1196	1130	99	12	2	-14	291	372	99	12	6	-3	466	455	99
10	2	-14	211	400	99	10	6	-5	430	442	99	11	3	1	1457	1393	99	12	2	-13	392	431	99	12	6	-2	203	225	99
10	2	-13	412	386	99	10	6	4	81	60	99	11	3	2	861	837	99	12	2	-12	538	521	99	12	6	-1	649	613	99
10	2	-12	502	581	99	10	6	-3	513	556	99	11	3	3	904	989	99	12	2	-11	362	297	99	12	6	0	186	123	99
10	2	-11	402	348	99	10	6	-2	244	182	99	11	3	4	1270	1309	99	12	2	-10	814	896	99	12	6	1	487	471	99
10	2	-10	827	855	99	10	6	-1	675	641	99	11	3	5	960	984	99	12	2	-9	722	718	99	12	6	2	91	143	99
10	2	-9	843	854	99	10	6	0	-39	141	99	11	3	6	577	581	99	12	2	-8	1180	1267	99	12	6	3	538	528	99
10	2	-8	1079	1155	99	10	6	1	518	469	99	11	3	7	473	598	99	12	2	-7	714	689	99	12	6	4	162	59	99
10	2	-7	647	678	99	10	6	2	183	112	99	11	3	8	452	517	99	12	2	-6	1328	1343	99	12	6	5	288	468	99
10	2	-6	1501	1467	99	10	6	3	597	576	99	11	3	9	468	394	99	12	2	-5	1425	1395	99	12	6	6	290	34	99
10	2	-5	1543	1497	99	10	6	4	180	93	99	11	3	10	496	389	99	12	2	-4	1383	1305	99	12	6	7	260	364	99
10	2	-4	1122	1030	99	10	6	5	491	510	99	11	3	11	400	362	99	12	2	-3	1340	1300	99	13	1	-14	520	530	99
10	2	-3	1268	1227	99	10	6	6	239	53	99	11	3	12	-288	278	99	12	2	-2	1391	1367	99	13	1	-13	231	357	99
10	2	-2	1842	1776	99	10	6	7	438	419	99	11	5	-10	150	158	99	12	2	-1	654	666	99	13	1	-12	666	623	99
10	2	-1	674	687	99	11	1	-14	289	516	99	11	5	-9	415	454	99	12	2	0	1493	1534	99	13	1	-11	195	173	99
10	2	0	1727	1811	99	11	1	-13	324	309	99	11	5	-8	161	189	99	12	2	1	1430	1469	99	13	1	-10	778	798	99
10	2	1	1540	1671	99	11	1	-12	777	703	99	11	5	-7	689	721	99	12	2	2	1547	1587	99	13	1	-9	130	91	99
10	2	2	1845	1820	99	11	1	-11	-369	31	99	11	5	-6	219	300	99	12	2	3	461	558	99	13	1	-8	1064	1181	99
10	2	3	756	808	99	11	1	-10	856	882	99	11	5	-5	915	890	99	12	2	4	1752	1650	99	13	1	-7	438	454	99
10	2	4	1571	1492	99	11	1	-9	270	260	99	11	5	-4	187	280	99	12	2	5	606	691	99	13	1	-6	1384	1382	99
10	2	5	431	567	99	11	1	-8	1179	1255	99	11	5	-3	1063	1043	99	12	2	6	998	936	99	13	1	-5	568	534	99
10	2	6	906	872	99	11	1	-7	671	716	99	11	5	-2	324	288	99	12	2	7	782	755	99	13	1	-4	1318	1306	99
10	2	7	711	684	99	11	1	-6	1360	1411	99	11	5	-1	1097	1102	99	12	2	8	663	690	99	13	1	-3	478	471	99
10	2	8	735	723	99	11	1	-5	1090	1113	99	11	5	0	467	452	99	12	2	9	309	269	99	13	1	-2	1679	1631	99
10	2	9	-184	379	99	11	1	-4	1743	1730	99	11	5	1	750	679	99	12	2	10	310	509	99	13	1	-1	-166	185	99
10	2	10	735	598	99	11	1	-3	718	717	99	11	5	2	456	387	99	12	2	11	247	287	99	13	1	0	2098	2150	99
10	2	11	490	318	99	11	1	-2	1870	1832	99	11	5	3	766	733	99	12	2	12	102	387	99	13	1	1	1013	1117	99
10	2	12	-129	465	99	11	1	-1	380	341	99	11	5	4	-240	267	99	12	4	-12	180	226	99	13	1	2	1799	1790	99
10	2	13	-359	125	99	11	1	0	2104	2267	99	11	5	5	648	661	99	12	4	-11	378	439	99	13	1	3	346	192	99
10	4	-12	127	213	99	11	1	1	584	658	99	11	5	6	-249	140	99	12	4	-10	374	152	99	13	1	4	1245	1305	99
10	4	-11	434	438	99	11	1	2	2242	2315	99	11	5	7	601	476	99	12	4	-9	594	628	99	13	1	5	446	475	99
10	4	-10	348	373	99	11	1	3	320	364	99	11	5	8	99	100	99	12	4	-8	-16	197	99	13	1	6	1396	1290	99
10	4	-9	689	701	99	11	1	4	1393	1419	99	11	5	9	494	443	99	12	4	-7	863	830	99	13	1	7	229	430	99
10	4	-8	219	305	99	11	1	5	375	312	99	11	7	-4	134	80	99	12	4	-6	467	478	99	13	1	8	917	881	99
10	4	-7	926	925	99	11	1	6	1470	1420	99	11	7	-3	407	386	99	12	4	-5	906	869	99	13	1	9	161	129	99
10	4	-6	620	623	99	11	1	7	693	635	99	11	7	-2	-206	144	99	12	4	-4	539	489	99	13	1	10	471	550	99
10	4	-5	894	872	99	11	1	8	1095	1028	99	11	7	-1	477	476	99	12	4	-3	1163	1117	99	13	1	11	290	164	99
10	4	-4	403	440	99	11	1	9	-295	315	99	11	7	0	-64	130	99	12	4	-2	938	837	99	13	1	12	524	447	99
10	4	-3	1035	1018	99	11	1	10	402	660	99	11	7	1	532	523	99	12	4	-1	1157	1088	99	13	3	-13	85	368	99
10	4	-2	787	714	99	11	1	11	252	240	99	11	7	2	-289	137	99	12	4	0	517	465	99	13	3	-12	293	388	99
10	4	-1	1293	1255	99	11	1	12	203	473	99	11	7	3	516	443	99	12	4	1	879	860	99	13	3	-11	400	418	99
10	4	0	265	249	99	11	1	13	403	103	99	12	0	-14	554	542	99	12	4	2	301	239	99	13	3	-10	634	704	99
10	4	1	1033	970	99	11	3	-13	389	424	99	12	0	-12	736	691	99	12	4	3	992	960	99	13	3	-9	571	700	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
13	3	-8	654	685	99	14	0	4	1101	1084	99	14	6	-7	234	418	99	15	3	1	884	922	99	16	2	-3	1402	1374	99
13	3	-7	717	727	99	14	0	6	1381	1321	99	14	6	-6	-399	33	99	15	3	2	917	872	99	16	2	-2	1420	1384	99
13	3	-6	766	766	99	14	0	8	1126	968	99	14	6	-5	474	482	99	15	3	3	864	812	99	16	2	-1	1001	1057	99
13	3	-5	727	710	99	14	0	10	776	634	99	14	6	-4	254	88	99	15	3	4	701	867	99	16	2	0	1114	1109	99
13	3	-4	1303	1243	99	14	0	12	527	546	99	14	6	-3	84	366	99	15	3	5	683	739	99	16	2	1	743	848	99
13	3	-3	730	699	99	14	2	-13	411	439	99	14	6	-2	305	169	99	15	3	6	360	460	99	16	2	2	1108	1061	99
13	3	-2	1492	1420	99	14	2	-12	435	479	99	14	6	-1	550	579	99	15	3	7	276	647	99	16	2	3	-92	543	99
13	3	-1	709	733	99	14	2	-11	229	260	99	14	6	0	183	87	99	15	3	8	455	512	99	16	2	4	1162	1074	99
13	3	0	1021	1043	99	14	2	-10	792	865	99	14	6	1	428	483	99	15	3	9	96	292	99	16	2	5	375	486	99
13	3	1	1127	1124	99	14	2	-9	581	645	99	14	6	2	281	132	99	15	3	10	308	358	99	16	2	6	783	843	99
13	3	2	972	892	99	14	2	-8	970	1014	99	14	6	3	523	500	99	15	3	11	-234	281	99	16	2	7	456	558	99
13	3	3	879	911	99	14	2	-7	988	994	99	14	6	4	-316	76	99	15	5	-10	167	99	99	16	2	8	659	675	99
13	3	4	1114	1145	99	14	2	-6	1311	1354	99	14	6	5	293	399	99	15	5	-9	462	445	99	16	2	9	234	140	99
13	3	5	828	808	99	14	2	-5	872	856	99	14	6	6	263	36	99	15	5	-8	216	196	99	16	2	10	548	422	99
13	3	6	574	525	99	14	2	-4	1634	1497	99	15	1	-14	518	532	99	15	5	-7	530	515	99	16	2	11	-592	281	99
13	3	7	319	629	99	14	2	-3	1466	1404	99	15	1	-13	346	327	99	15	5	-6	418	360	99	16	4	-11	466	474	99
13	3	8	575	526	99	14	2	-2	1367	1341	99	15	1	-12	525	588	99	15	5	-5	801	785	99	16	4	-10	313	299	99
13	3	9	539	332	99	14	2	-1	1107	1084	99	15	1	-11	138	72	99	15	5	-4	160	274	99	16	4	-9	536	501	99
13	3	10	398	379	99	14	2	0	1144	1162	99	15	1	-10	688	710	99	15	5	-3	762	796	99	16	4	-8	-123	37	99
13	3	11	151	305	99	14	2	1	1063	1152	99	15	1	-9	-130	135	99	15	5	-2	216	296	99	16	4	-7	624	611	99
13	5	-10	70	138	99	14	2	2	1351	1354	99	15	1	-8	1079	1131	99	15	5	-1	984	980	99	16	4	-6	357	339	99
13	5	-9	374	422	99	14	2	3	190	529	99	15	1	-7	372	426	99	15	5	0	383	280	99	16	4	-5	993	943	99
13	5	-8	163	165	99	14	2	4	1424	1441	99	15	1	-6	1235	1167	99	15	5	1	865	746	99	16	4	-4	337	353	99
13	5	-7	541	580	99	14	2	5	556	645	99	15	1	-5	116	209	99	15	5	2	-177	258	99	16	4	-3	888	918	99
13	5	-6	343	353	99	14	2	6	827	902	99	15	1	-4	1433	1401	99	15	5	3	755	740	99	16	4	-2	466	426	99
13	5	-5	917	880	99	14	2	7	648	701	99	15	1	-3	797	758	99	15	5	4	365	301	99	16	4	-1	897	896	99
13	5	-4	323	327	99	14	2	8	654	628	99	15	1	-2	1345	1338	99	15	5	5	283	461	99	16	4	0	707	703	99
13	5	-3	993	996	99	14	2	9	-325	155	99	15	1	-1	639	688	99	15	5	6	-298	214	99	16	4	1	887	801	99
13	5	-2	364	245	99	14	2	10	164	454	99	15	1	0	1634	1679	99	15	5	7	377	332	99	16	4	2	308	530	99
13	5	-1	1053	1013	99	14	2	11	-234	286	99	15	1	1	756	818	99	15	5	8	248	103	99	16	4	3	853	832	99
13	5	0	417	392	99	14	2	12	-294	296	99	15	1	2	1489	1558	99	15	7	-1	355	361	99	16	4	4	521	403	99
13	5	1	801	743	99	14	4	-12	221	237	99	15	1	3	-342	70	99	16	0	-14	605	615	99	16	4	5	486	575	99
13	5	2	299	327	99	14	4	-11	386	426	99	15	1	4	1326	1336	99	16	0	-12	718	709	99	16	4	6	419	237	99
13	5	3	849	766	99	14	4	-10	355	327	99	15	1	5	202	294	99	16	0	-10	816	812	99	16	4	7	239	463	99
13	5	4	-321	290	99	14	4	-9	598	579	99	15	1	6	1231	1167	99	16	0	-8	1676	1719	99	16	4	8	198	257	99
13	5	5	496	529	99	14	4	-8	182	67	99	15	1	7	218	387	99	16	0	-6	1333	1343	99	16	4	9	411	380	99
13	5	6	219	193	99	14	4	-7	725	743	99	15	1	8	669	734	99	16	0	-4	1768	1755	99	16	6	-7	366	369	99
13	5	7	41	393	99	14	4	-6	354	374	99	15	1	9	-247	69	99	16	0	-2	2307	2343	99	16	6	-6	102	59	99
13	5	8	26	109	99	14	4	-5	1046	970	99	15	1	10	598	505	99	16	0	0	2317	2305	99	16	6	-5	535	495	99
13	5	9	100	417	99	14	4	-4	500	474	99	15	1	11	474	181	99	16	0	2	1762	1787	99	16	6	-4	166	33	99
13	7	-3	330	335	99	14	4	-3	1138	1046	99	15	1	12	-186	418	99	16	0	4	1371	1193	99	16	6	-3	145	398	99
13	7	-2	-13	166	99	14	4	-2	684	594	99	15	3	-13	329	262	99	16	0	6	927	1016	99	16	6	-2	205	96	99
13	7	-1	397	408	99	14	4	-1	975	929	99	15	3	-12	413	412	99	16	0	8	-471	553	99	16	6	-1	491	504	99
13	7	0	104	106	99	14	4	0	614	588	99	15	3	-11	283	337	99	16	0	10	362	526	99	16	6	0	138	101	99
13	7	1	523	447	99	14	4	1	961	873	99	15	3	-10	696	724	99	16	0	12	-692	482	99	16	6	1	492	471	99
13	7	2	-352	96	99	14	4	2	-323	371	99	15	3	-9	623	627	99	16	2	-13	381	365	99	16	6	2	286	129	99
14	0	-14	631	626	99	14	4	3	861	891	99	15	3	-8	508	514	99	16	2	-12	464	457	99	16	6	3	535	454	99
14	0	-12	727	712	99	14	4	4	376	394	99	15	3	-7	781	785	99	16	2	-11	152	260	99	16	6	4	-186	123	99
14	0	-10	888	909	99	14	4	5	-141	642	99	15	3	-6	905	868	99	16	2	-10	700	747	99	16	6	5	425	383	99
14	0	-8	1645	1705	99	14	4	6	250	243	99	15	3	-5	658	622	99	16	2	-9	698	712	99	17	1	-14	601	485	99
14	0	-6	1835	1847	99	14	4	7	593	509	99	15	3	-4	1146	1088	99	16	2	-8	826	871	99	17	1	-13	-147	233	99
14	0	-4	2309	2330	99	14	4	8	478	315	99	15	3	-3	798	756	99	16	2	-7	1042	1075	99	17	1	-12	566	576	99
14	0	-2	2831	2892	99	14	4	9	138	445	99	15	3	-2	1140	1116	99	16	2	-6	1470	1409	99	17	1	-11	89	142	99
14	0	0	2832	2840	99	14	4	10	-456	259	99	15	3	-1	428	457	99	16	2	-5	573	614	99	17	1	-10	600	649	99
14	0	2	1705	1866	99	14	6	-8	144	94	99	15	3	0	1163	1202	99	16	2	-4	1729	1637	99	17	1	-9	402	423	99
17	1	-8	1061	1144	99	17	5	3	738	657	99	18	4	1	818	773	99	19	3	-2	525	517	99	20	2	0	1222	1288	99
17	1	-7	141	130	99	17	5	4	292	232	99	18	4	2	386	508	99	19	3	-1	604	703	99	20	2	1	463	565	99
17	1	-6	898	866	99	17	5	5	182	484	99	18	4	3	621	691	99	19	3	0	1009	1012	99	20	2	2	895	904	99
17	1	-5	-126	319	99	17	5	6	305	176	99	18	4	4	-568	454	99	19	3	1	491	589	99	20	2	3	942	778	99
17	1	-4	1575	1501	99	17	5	7	312	310	99	18	4	5	484	474	99	19	3	2	774	690	99	20	2	4	658	632	99
17	1	-3	715	681	99	18	0	-14	524	518	99	18	4	6	341	216	99	19	3	3	-154	700	99	20	2	5	-301	283	99
17	1	-2	1280	1337	99	18	0	-12	718	681	99	18	4	7	-61	415	99	19	3	4	-386	597	99	20	2	6	572	626	99
17	1	-1	456	511	99	18	0	-10	949	898	99	18	4	8	-261	221	99	19	3	5	412	475	99	20	2	7	-527	282	99
17	1	0	1402	1443	99	18	0	-8	1646	1609	99	18	4	9	-542	315	99	19	3	6	375	458	99	20	2	8	586	475	99
17	1	1	624	691	99	18	0	-6	1204	1206	99	18	6	-6	133	86	99	19	3	7	492	519	99	20	2	9	332	227	99
17	1	2	1423	1435	99	18	0	-4	1787	1712	99	18	6	-5	381	468	99	19	3	8	303	384	99	20	2	10	-554	337	99
17	1	3	-686	342	99	18	0	-2	2163	2085	99	18	6	-4	207	87	99	19	3	9	-313	317	99	20	4	-10	347	262	99
17	1	4	1292	1287	99	18	0	0	1752	1744	99	18	6	-3	404	408	99	19	3	10	433	272	99	20	4	-9	498	462	99
17	1	5	157	356	99	18	0	2	1797	1718	99	18	6	-2	237	48	99	19	5	-9	437	464	99	20	4	-8	124	207	99
17	1	6	985	1107	99	18	0	4	1323	1218	99	18	6	-1	496	481	99	19	5	-8	-146	139	99	20	4	-7	557	569	99
17	1	7	350	404	99	18	0	6	967	876	99	18	6	0	-130	90	99	19	5	-7	573	587	99	20	4	-6	385	344	99
17	1	8	572	665	99	18	0	8	536	444	99	18	6	1	-215	433	99	19	5	-6	-314	254	99	20	4	-5	718	700	99
17	1	9	235	88	99	18	0	10	338	468	99	18	6	2	-345	98	99	19	5	-5	619	639	99	20	4	-4	242	142	99
17	1	10	469	504	99	18	2	-13	-76	303	99	18	6	3	513	420	99	19	5	-4	-203	310	99	20	4	-3	619	638	99
17	1	11	-684	195	99	18	2	-12	426	437	99	18	6	4	-339	123	99	19	5	-3	376	432	99	20	4	-2	167	168	99
17	3	-12	-97	381	99	18	2	-11	277	296	99	19	1	-13	160	129	99	19	5	-2	167	276	99	20	4	-1	792	831	99
17	3	-11	-156	308	99	18	2	-10	573	583	99	19	1	-12	479	600	99	19	5	-1	597	688	99	20	4	0	534	564	99
17	3	-10	621	673	99	18	2	-9	660	708	99	19	1	-11	365	297	99	19	5	0	258	239	99	20	4	1	747	709	99
17	3	-9	471	471	99	18	2	-8	776	775	99	19	1	-10	630	667	99	19	5	1	727	681	99	20	4	2	306	369	99
17	3	-8	551	543	99	18	2	-7	765	803	99	19	1	-9	432	409	99	19	5	2	-74	127	99	20	4	3	570	551	99
17	3	-7	740	719	99	18	2	-6	1248	1125	99	19	1	-8	1058	1052	99	19	5	3	567	556	99	20	4	4	554	442	99
17	3	-6	1107	1070	99	18	2	-5	576	616	99	19	1	-7	360	369	99	19	5	4	-516	180	99	20	4	5	-250	462	99
17	3	-5	786	695	99	18	2	-4	1465	1410	99	19	1	-6	821	787	99	19	5	5	-477	500	99	20	4	6	147	251	99
17	3	-4	727	708	99	18	2	-3	944	934	99	19	1	-5	472	374	99	19	5	6	-58	174	99	20	4	7	334	389	99
17	3	-3	938	913	99	18	2	-2	1253	1268	99	19	1	-4	1439	1374	99	19	5	7	414	320	99	20	4	8	-492	161	99
17	3	-2	831	816	99	18	2	-1	711	788	99	19	1	-3	294	269	99	20	0	-12	702	710	99	20	6	-5	296	382	99
17	3	-1	501	591	99	18	2	0	1071	1154	99	19	1	-2	1505	1522	99	20	0	-10	913	922	99	20	6	-4	134	118	99
17	3	0	1111	1138	99	18	2	1	575	562	99	19	1	-1	288	363	99	20	0	-8	1473	1414	99	20	6	-3	402	388	99
17	3	1	665	672	99	18	2	2	892	884	99	19	1	0	1041	1111	99	20	0	-6	1154	1137	99	20	6	-2	-159	89	99
17	3	2	824	790	99	18	2	3	739	743	99	19	1	1	392	414	99	20	0	-4	1747	1681	99	20	6	-1	348	503	99
17	3	3	849	838	99	18	2	4	755	786	99	19	1	2	1316	1271	99	20	0	-2	1494	1513	99	20	6	0	-191	69	99
17	3	4	659	626	99	18	2	5	286	336	99	19	1	3	-311	568	99	20	0	0	997	1004	99	20	6	1	274	461	99
17	3	5	454	615	99	18	2	6	697	784	99	19	1	4	1164	1050	99	20	0	2	1808	1590	99	20	6	2	346	67	99
17	3	6	344	451	99	18	2	7	247	379	99	19	1	5	-393	386	99	20	0	4	1172	1149	99	20	6	3	318	364	99
17	3	7	567	593	99	18	2	8	525	602	99	19	1	6	839	952	99	20	0	6	993	890	99	21	1	-13	-250	108	99
17	3	8	-60	464	99	18	2	9	-177	184	99	19	1	7	349	248	99	20	0	8	392	527	99	21	1	-12	519	583	99
17	3	9	-569	308	99	18	2	10	299	370	99	19	1	8	707	598	99	20	0	10	493	404	99	21	1	-11	228	271	99
17	3	10	-181	323	99	18	2	11	-660	241	99	19	1	9	-665	113	99	20	2	-13	191	283	99	21	1	-10	544	572	99
17	5	-9	402	444	99	18	4	-11	470	495	99	19	1	10	-292	462	99	20	2	-12	454	451	99	21	1	-9	444	348	99
17	5	-8	-114	187	99	18	4	-10	254	306	99	19	1	11	625	150	99	20	2	-11	371	325	99	21	1	-8	913	854	99
17	5	-7	582	541	99	18	4	-9	358	400	99	19	3	-12	-176	331	99	20	2	-10	473	520	99	21	1	-7	333	395	99
17	5	-6	242	266	99	18	4	-8	-152	126	99	19	3	-11	270	243	99	20	2	-9	522	605	99	21	1	-6	901	794	99
17	5	-5	605	668	99	18	4	-7	586	583	99	19	3	-10	554	553	99	20	2	-8	599	673	99	21	1	-5	193	174	99
17	5	-4	-6	280	99	18	4	-6	205	288	99	19	3	-9	-317	313	99	20	2	-7	655	669	99	21	1	-4	1240	1142	99
17	5	-3	502	577	99	18	4	-5	785	793	99	19	3	-8	580	592	99	20	2	-6	997	944	99	21	1	-3	430	403	99
17	5	-2	209	310	99	18	4	-4	199	203	99	19	3	-7	570	563	99	20	2	-5	817	818	99	21	1	-2	1277	1309	99
17	5	-1	826	848	99	18	4	-3	834	853	99	19	3	-6	1017	978	99	20	2	-4	1235	1187	99	21	1	-1	116	172	99
17	5	0	387	239	99	18	4	-2	211	348	99	19	3	-5	808	749	99	20	2	-3	869	891	99	21	1	0	829	894	99
17	5	1	733	737	99	18	4	-1	757	850	99	19	3	-4	778	724	99	20	2	-2	1210	1305	99	21	1	1	216	342	99
17	5	2	310	174	99	18	4	0	712	665	99	19	3	-3	1005	984	99	20	2	-1	572	573	99	21	1	2	1119	1177	99

h	k	l	Fo	Fc	sigF2
21	1	3	-247	597	99
21	1	4	1019	807	99
21	1	5	241	224	99
21	1	6	822	727	99
21	1	7	25	121	99
21	1	8	528	564	99
21	1	9	265	149	99
21	1	10	742	370	99
21	3	-12	367	300	99
21	3	-11	349	263	99
21	3	-10	402	462	99
21	3	-9	122	216	99
21	3	-8	532	582	99
21	3	-7	469	393	99
21	3	-6	934	893	99
21	3	-5	512	559	99
21	3	-4	862	853	99
21	3	-3	839	794	99
21	3	-2	603	522	99
21	3	-1	574	702	99
21	3	0	822	849	99
21	3	1	353	585	99
21	3	2	513	480	99
21	3	3	338	530	99
21	3	4	298	542	99
21	3	5	362	411	99
21	3	6	588	462	99
21	3	7	208	396	99
21	3	8	127	265	99
21	3	9	-372	273	99
21	5	-8	279	187	99
21	5	-7	455	566	99
21	5	-6	105	222	99
21	5	-5	565	656	99
21	5	-4	275	292	99
21	5	-3	130	385	99
21	5	-2	263	247	99
21	5	-1	487	573	99
21	5	0	-388	243	99
21	5	1	362	525	99
21	5	2	-88	148	99
21	5	3	427	435	99
21	5	4	300	136	99
21	5	5	396	468	99
21	5	6	324	137	99
22	0	-12	751	718	99
22	0	-10	915	849	99
22	0	-8	1233	1210	99
22	0	-6	1395	1249	99
22	0	-4	1629	1500	99
22	0	-2	1409	1416	99
22	0	0	832	834	99
22	0	2	1720	1552	99
22	0	4	778	954	99
22	0	6	949	799	99
22	0	8	657	591	99
22	0	10	-640	301	99
22	2	-12	515	444	99
22	2	-11	374	369	99
22	2	-10	400	458	99
22	2	-9	521	541	99
22	2	-8	632	623	99
22	2	-7	626	591	99
22	2	-6	890	772	99
22	2	-5	758	716	99
22	2	-4	997	941	99
22	2	-3	1001	991	99
22	2	-2	1033	1070	99
22	2	-1	-29	376	99
22	2	0	1227	1182	99
22	2	1	112	515	99
22	2	2	866	836	99
22	2	3	-479	617	99
22	2	4	232	581	99
22	2	5	374	226	99
22	2	6	-413	528	99
22	2	7	235	265	99
22	2	8	-509	394	99
22	2	9	-234	213	99
22	4	-10	-240	209	99
22	4	-9	539	497	99
22	4	-8	-120	228	99
22	4	-7	493	546	99
22	4	-6	399	348	99
22	4	-5	665	613	99
22	4	-4	21	142	99
22	4	-3	520	477	99
22	4	-2	-436	149	99
22	4	-1	728	808	99
22	4	0	461	411	99
22	4	1	652	640	99
22	4	2	429	302	99
22	4	3	-191	519	99
22	4	4	373	430	99
22	4	5	388	469	99
22	4	6	-242	286	99
22	4	7	276	317	99
22	6	-4	269	101	99
22	6	-3	181	345	99
22	6	-2	133	103	99
22	6	-1	-221	465	99
22	6	0	-52	75	99
22	6	1	424	378	99
23	1	-12	501	496	99
23	1	-11	266	176	99
23	1	-10	529	489	99
23	1	-9	107	102	99
23	1	-8	735	728	99
23	1	-7	276	321	99
23	1	-6	986	894	99
23	1	-5	297	397	99
23	1	-4	1050	1018	99
23	1	-3	497	515	99
23	1	-2	1005	1059	99
23	1	-1	122	279	99
23	1	0	915	952	99
23	1	1	-142	258	99
23	1	2	1147	1118	99
23	1	3	407	394	99
23	1	4	-205	661	99
23	1	5	102	137	99
23	1	6	202	580	99
23	1	7	-560	188	99
23	1	8	339	542	99
23	1	9	-415	141	99
23	3	-11	359	322	99
23	3	-10	296	439	99
23	3	-9	-125	248	99
23	3	-8	634	570	99
23	3	-7	327	266	99
23	3	-6	716	708	99
23	3	-5	479	441	99
23	3	-4	787	734	99
23	3	-3	642	616	99
23	3	-2	611	692	99
23	3	-1	728	750	99
23	3	0	672	582	99
23	3	1	563	613	99
23	3	2	-443	317	99
23	3	3	-796	498	99
23	3	4	629	483	99
23	3	5	-318	341	99
23	3	6	406	421	99
23	3	7	606	308	99
23	3	8	352	183	99
23	5	-7	274	515	99
23	5	-6	-68	162	99
23	5	-5	613	604	99
23	5	-4	274	290	99
23	5	-3	283	441	99
23	5	-2	-356	205	99
23	5	-1	420	489	99
23	5	0	213	234	99
23	5	1	566	391	99
23	5	2	-626	158	99
23	5	3	489	334	99
23	5	4	-483	84	99
23	5	5	-356	408	99
24	0	-12	719	723	99
24	0	-10	660	684	99
24	0	-8	1147	1081	99
24	0	-6	1269	1206	99
24	0	-4	1362	1324	99
24	0	-2	1197	1176	99
24	0	0	768	852	99
24	0	2	1072	1051	99
24	0	4	-276	612	99
24	0	6	-346	563	99
24	0	8	631	587	99
24	2	-12	322	408	99
24	2	-11	422	429	99
24	2	-10	303	496	99
24	2	-9	231	357	99
24	2	-8	662	589	99
24	2	-7	576	505	99
24	2	-6	657	637	99
24	2	-5	517	541	99
24	2	-4	659	594	99
24	2	-3	617	636	99
24	2	-2	864	939	99
24	2	-1	310	410	99
24	2	0	812	892	99
24	2	1	294	414	99
24	2	2	740	805	99
24	2	3	401	449	99
24	2	4	483	636	99
24	2	5	247	196	99
24	2	6	240	474	99
24	2	7	538	266	99
24	2	8	-657	300	99
24	2	9	398	155	99
24	4	-9	454	441	99
24	4	-8	200	196	99
24	4	-7	553	519	99
24	4	-6	320	264	99
24	4	-5	537	536	99
24	4	-4	-472	319	99
24	4	-3	498	498	99
24	4	-2	139	210	99
24	4	-1	538	631	99
24	4	0	432	273	99
24	4	1	166	546	99
24	4	2	555	263	99
24	4	3	-574	446	99
24	4	4	-439	358	99
24	4	5	505	425	99
24	4	6	-497	296	99
25	1	-12	399	419	99
25	1	-11	248	116	99
25	1	-10	467	414	99
25	1	-9	-491	78	99
25	1	-8	784	628	99
25	1	-7	329	335	99
25	1	-6	965	898	99
25	1	-5	536	576	99
25	1	-4	969	891	99
25	1	-3	-175	397	99
25	1	-2	958	976	99
25	1	-1	-118	74	99
25	1	0	800	880	99
25	1	1	304	231	99
25	1	2	966	968	99
25	1	3	-526	353	99
25	1	4	-129	607	99
25	1	5	-486	181	99
25	1	6	510	499	99
25	1	7	-712	225	99
25	1	8	-857	478	99
25	1	9	-694	87	99
25	3	-10	461	459	99
25	3	-9	224	324	99
25	3	-8	496	515	99
25	3	-7	410	336	99
25	3	-6	473	453	99
25	3	-5	427	321	99
25	3	-4	724	655	99
25	3	-3	570	513	99
25	3	-2	634	696	99
25	3	-1	113	610	99
25	3	0	504	498	99
25	3	1	479	606	99
25	3	2	-226	343	99
25	3	3	509	438	99
25	3	4	-579	417	99
25	3	5	421	324	99
25	3	6	-379	317	99
25	3	7	447	279	99
25	5	-6	143	193	99
25	5	-5	500	547	99
25	5	-4	-424	236	99
25	5	-3	438	488	99
25	5	-2	228	157	99
25	5	-1	396	449	99
25	5	0	-458	202	99
25	5	1	50	342	99
25	5	2	151	154	99
25	5	3	374	276	99
26	0	-12	728	686	99
26	0	-10	611	514	99
26	0	-8	926	843	99
26	0	-6	1271	1230	99
26	0	-4	722	750	99
26	0	-2	995	980	99
26	0	0	730	743	99
26	0	2	-470	733	99
26	0	4	690	602	99
26	0	6	-878	502	99
26	0	8	499	523	99
26	2	-11	-306	404	99
26	2	-10	623	543	99
26	2	-9	-177	300	99
26	2	-8	615	584	99
26	2	-7	611	597	99
26	2	-6	326	526	99
26	2	-5	209	374	99
26	2	-4	687	591	99
26	2	-3	325	359	99
26	2	-2	630	750	99
26	2	-1	485	556	99
26	2	0	645	718	99
26	2	1	-461	382	99
26	2	2	684	701	99
26	2	3	433	293	99
26	2	4	394	614	99
26	2	5	397	181	99
26	2	6	266	368	99
26	2	7	436	245	99
26	2	8	-439	255	99
26	4	-8	246	121	99
26	4	-7	365	407	99
26	4	-6	-149	194	99
26	4	-5	487	497	99
26	4	-4	-67	409	99
26	4	-3	457	500	99
26	4	-2	-130	246	99
26	4	-1	-418	440	99
26	4	0	334	217	99
26	4	1	607	443	99
26	4	2	348	224	99
26	4	3	436	389	99
26	4	4	-656	246	99
26	4	5	-637	386	99
27	1	-11	229	84	99
27	1	-10	163	309	99
27	1	-9	186	156	99
27	1	-8	516	541	99
27	1	-7	-327	222	99
27	1	-6	808	772	99
27	1	-5	195	289	99
27	1	-4	731	692	99
27	1	-3	638	543	99
27	1	-2	874	927	99
27	1	-1	-363	282	99
27	1	0	752	748	99
27	1	1	279	289	99
27	1	2	758	785	99
27	1	3	240	121	99
27	1	4	548	593	99
27	1	5	-1145	92	99
27	1	6	-559	417	99
27	1	7	341	174	99
27	1	8	-1152	374	99
27	3	-10	307	469	99
27	3	-9	418	378	99
27	3	-8	467	382	99
27	3	-7	368	398	99
27	3	-6	-404	410	99
27	3	-5	201	314	99
27	3	-4	574	634	99
27	3	-3	431	380	99
36	2	-2	195	345	99
37	1	-3	-276	119	99
37	1	-2	222	309	99

APPENDIX 7.III

$[Hg(S_2CO\text{-}3,3\text{-}Me_2Bu)_2]$

Table 7.III.1: Crystallographic Parameters for $[Hg(S_2COCH_2CH_2C(CH_3)_3)_2]$

Formula	$C_{14}H_{26}HgS_4O_2$
Formula weight	531.17
Crystal morphology / colour	block / pale yellow
Crystal dimensions (mm)	0.13 x 0.26 x 0.27
Crystal system	monoclinic
Space group	$P2_1/c$ (# 14)
a (Å)	30.045(4)
b (Å)	5.955(8)
c (Å)	11.712(2)
α (°)	90
β (°)	97.07(2)
γ (°)	90
V (Å^3)	2079(1)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.773
$F(000)$	1032
Temperature (°K)	293
μ (cm^{-1})	78.19
θ limits, cell (°)	18.2 – 21.3
θ limits, data (°)	3.0 – 27.5
hkl range	-36 – 36, -7 – 0, 0 – 15
Range of transmission factors	0.910 – 1
Scan technique	ω:2θ
No. of data measured	5536
No. of unique data	5290
R_{amal}	0.095
No. of parameters	185
R (I≥0σ(I))	0.082
R_w (I≥0σ(I))	0.091
R (I≥3σ(I))	0.041
R_w (I≥3σ(I))	0.036
Maximum and minimum residual electron density (e Å^{-3})	2.81, -3.11

Table 7.III.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Hg(S_2COCH_2CH_2C(CH_3)_3)_2]$

Atom	*x*	*y*	*z*
Hg	0.24984(1)	0.23726(6)	0.15132(3)
S(1)	0.2414(1)	-0.1800(4)	0.1315(2)
S(2)	0.19162(9)	-0.5357(4)	0.2392(2)
S(3)	0.26567(9)	0.3652(4)	-0.0457(2)
S(4)	0.32066(9)	0.1567(5)	-0.2109(2)
O(1)	0.1803(2)	-0.103(1)	0.2598(5)
O(2)	0.3231(2)	0.056(1)	0.0078(5)
C(1)	0.2033(3)	-0.264(1)	0.2148(7)
C(2)	0.1467(4)	-0.160(2)	0.336(1)
C(3)	0.1224(5)	0.043(2)	0.358(1)
C(4)	0.0806(5)	0.031(2)	0.404(1)
C(5)	0.0679(7)	0.261(2)	0.440(2)
C(6)	0.0831(5)	-0.116(3)	0.508(1)
C(7)	0.0436(5)	-0.071(4)	0.329(2)
C(8)	0.3039(3)	0.181(1)	-0.0797(7)
C(9)	0.3572(3)	-0.111(2)	-0.0139(8)
C(10)	0.3787(3)	-0.186(2)	0.1048(8)
C(11)	0.4218(3)	-0.322(2)	0.1028(9)
C(12)	0.4594(4)	-0.180(2)	0.0642(9)
C(13)	0.4130(4)	-0.520(2)	0.022(1)
C(14)	0.4371(4)	-0.407(3)	0.222(1)

Table 7.III.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Hg(S_2COCH_2CH_2C(CH_3)3)2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Hg	0.0500(2)	0.0490(2)	0.0485(2)	0.0006(3)	0.0063(1)	0.0019(2)
S(1)	0.090(2)	0.043(1)	0.088(2)	-0.006(1)	0.051(2)	-0.007(1)
S(2)	0.057(2)	0.046(1)	0.101(2)	0.003(1)	0.035(2)	0.007(1)
S(3)	0.066(2)	0.061(1)	0.042(1)	0.025(1)	0.006(1)	0.003(1)
S(4)	0.052(2)	0.127(2)	0.041(1)	0.029(2)	0.004(1)	-0.004(1)
O(1)	0.056(5)	0.050(4)	0.081(4)	0.011(3)	0.027(4)	0.002(3)
O(2)	0.046(4)	0.067(4)	0.049(3)	0.012(3)	0.011(3)	0.004(3)
C(1)	0.050(5)	0.051(5)	0.059(5)	0.012(6)	0.008(4)	-0.007(5)
C(2)	0.084(9)	0.076(7)	0.133(10)	0.013(7)	0.078(8)	-0.003(7)
C(3)	0.14(1)	0.11(1)	0.26(2)	0.01(1)	0.15(1)	-0.01(1)
C(4)	0.069(9)	0.10(1)	0.14(1)	0.014(8)	0.043(9)	0.014(9)
C(5)	0.26(2)	0.07(1)	0.48(4)	0.03(1)	0.24(2)	0.00(2)
C(6)	0.15(2)	0.15(1)	0.18(2)	-0.01(1)	0.12(1)	0.00(1)
C(7)	0.08(1)	0.29(3)	0.23(2)	0.00(2)	0.01(1)	-0.06(2)
C(8)	0.035(5)	0.064(6)	0.044(5)	-0.012(4)	-0.001(4)	0.002(4)
C(9)	0.069(8)	0.081(7)	0.066(6)	0.031(6)	0.011(5)	0.003(6)
C(10)	0.060(7)	0.078(7)	0.072(6)	0.016(6)	0.016(5)	0.023(5)
C(11)	0.052(7)	0.071(7)	0.080(7)	-0.001(6)	0.007(5)	0.018(5)
C(12)	0.060(7)	0.087(8)	0.097(8)	-0.008(6)	-0.002(6)	0.022(6)
C(13)	0.061(9)	0.076(8)	0.21(1)	0.014(7)	0.004(9)	-0.015(9)
C(14)	0.071(9)	0.20(2)	0.11(1)	0.05(1)	0.017(8)	0.07(1)

Table 7.III.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Hg(S_2COCH_2CH_2C(CH_3)_3)_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.1261	-0.2711	0.2992	8.7
H(2b)	0.1614	-0.2196	0.4079	8.7
H(3a)	0.1166	0.1203	0.2846	15.3
H(3b)	0.1424	0.1319	0.4107	15.3
H(5a)	0.0913	0.3208	0.4929	23.9
H(5b)	0.0632	0.3550	0.3739	23.9
H(5c)	0.0411	0.2522	0.4748	23.9
H(6a)	0.0553	-0.1117	0.5389	14.7
H(6b)	0.0892	-0.2663	0.4872	14.7
H(6c)	0.1063	-0.0650	0.5645	14.7
H(7a)	0.0175	-0.0743	0.3673	18.7
H(7b)	0.0378	0.0134	0.2601	18.7
H(7c)	0.0515	-0.2208	0.3109	18.7
H(9a)	0.3433	-0.2378	-0.0566	6.8
H(9b)	0.3795	-0.0443	-0.0567	6.8
H(10a)	0.3856	-0.0538	0.1517	6.6
H(10b)	0.3573	-0.2785	0.1391	6.6
H(12a)	0.4858	-0.2730	0.0618	7.8
H(12b)	0.4500	-0.1197	-0.0118	7.8
H(12c)	0.4664	-0.0577	0.1180	7.8
H(13a)	0.3907	-0.6175	0.0489	11.0
H(13b)	0.4021	-0.4661	-0.0548	11.0
H(13c)	0.4406	-0.6031	0.0192	11.0
H(14a)	0.4136	-0.4983	0.2488	12.1

Table 7.III.4 Cont.

Atom	x	y	z	B_{eq}
H(14b)	0.4639	-0.4978	0.2212	12.1
H(14c)	0.4437	-0.2813	0.2742	12.1

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 7.III.5: Bond distances (Å) for $[Hg(S_2COCH_2CH_2C(CH_3)_3)_2]$

Hg — S(1)	2.506(2)	O(2) — C(9)	1.47(1)
Hg — S(2)*	2.528(3)	C(2) — C(3)	1.45(2)
Hg — S(3)	2.530(2)	C(3) — C(4)	1.43(2)
Hg — S(4)**	2.586(3)	C(4) — C(5)	1.49(2)
S(1) — C(1)	1.670(9)	C(4) — C(6)	1.50(2)
S(2) — C(1)	1.685(9)	C(4) — C(7)	1.47(2)
S(3) — C(8)	1.673(9)	C(9) — C(10)	1.53(1)
S(4) — C(8)	1.680(8)	C(10) — C(11)	1.53(1)
O(1) — C(1)	1.328(9)	C(11) — C(12)	1.52(1)
O(1) — C(2)	1.47(1)	C(11) — C(13)	1.52(1)
O(2) — C(8)	1.338(9)	C(11) — C(14)	1.51(1)

* symmetry operation: x, $1 + y$, z. ** symmetry operation: x, $0.5 - y$, $0.5 + z$.

Table 7.III.6: Bond angles (deg.) for [Hg($S_2COCH_2CH_2C(CH_3)_3$)2]

S(1) — Hg — S(2)*	120.03(8)	C(3) — C(4) — C(5)	109(1)
S(1) — Hg — S(3)	104.02(8)	C(3) — C(4) — C(6)	112(1)
S(1) — Hg — S(4)**	111.5(1)	C(3) — C(4) — C(7)	115(1)
S(2)* — Hg — S(3)	115.31(8)	C(5) — C(4) — C(6)	107(1)
S(2)* — Hg — S(4)**	99.94(9)	C(5) — C(4) — C(7)	110(2)
S(3) — Hg — S(4)**	105.27(8)	C(6) — C(4) — C(7)	102(1)
Hg — S(1) — C(1)	108.3(3)	S(3) — C(8) — S(4)	124.4(5)
Hg — S(2)* — C(1)*	106.0(3)	S(3) — C(8) — O(2)	115.2(6)
Hg — S(3) — C(8)	103.4(3)	S(4) — C(8) — O(2)	120.3(6)
Hg — S(4)** — C(8)**	103.6(3)	O(2) — C(9) — C(10)	105.4(7)
C(1) — O(1) — C(2)	120.3(7)	C(9) — C(10) — C(11)	113.9(8)
C(8) — O(2) — C(9)	119.1(7)	C(10) — C(11) — C(12)	112.0(8)
S(1) — C(1) — S(2)	124.0(5)	C(10) — C(11) — C(13)	109.8(9)
S(1) — C(1) — O(1)	116.2(7)	C(10) — C(11) — C(14)	109.1(9)
S(2) — C(1) — O(1)	119.8(6)	C(12) — C(11) — C(13)	108.8(9)
O(1) — C(2) — C(3)	108.3(9)	C(12) — C(11) — C(14)	108.0(9)
C(2) — C(3) — C(4)	121(1)	C(13) — C(11) — C(14)	109(1)

* symmetry operation: x, $1 + y$, z. ** symmetry operation: x, $0.5 - y$, $0.5 + z$.

Table 7.III.7: Observed and calculated structure factors for $[Hg(S_2COCH_2CH_2C(CH_3)_3)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	-1	1	295	289	99	0	-4	7	124	76	99	1	-5	3	223	213	99	-1	0	8	1449	1426	99	2	-6	9	27	80	99
0	-1	2	1166	1179	99	0	-4	6	755	771	99	1	-5	4	712	702	99	-1	0	6	1710	1744	99	2	-5	0	150	165	99
0	-1	3	67	106	99	0	-4	5	115	116	99	1	-5	5	530	557	99	-1	0	4	1967	1913	99	2	-5	1	319	323	99
0	-1	4	1768	1736	99	0	-4	4	929	928	99	1	-5	6	562	539	99	-1	0	2	2017	1996	99	2	-5	2	1197	1167	99
0	-1	5	49	8	99	0	-4	3	220	225	99	1	-5	7	180	43	99	-1	-1	15	114	51	99	2	-5	3	328	307	99
0	-1	6	1193	1192	99	0	-4	2	597	604	99	1	-5	8	325	309	99	-1	-1	14	344	317	99	2	-5	4	425	458	99
0	-1	7	302	334	99	0	-4	1	299	277	99	1	-5	9	116	132	99	-1	-1	13	133	34	99	2	-5	5	148	108	99
0	-1	8	1455	1480	99	0	-4	0	1249	1202	99	1	-5	10	356	352	99	-1	-1	12	220	181	99	2	-5	6	300	233	99
0	-1	9	94	120	99	0	-5	11	120	115	99	1	-5	11	-47	102	99	-1	-1	11	144	85	99	2	-5	7	283	311	99
0	-1	10	225	219	99	0	-5	10	147	31	99	1	-4	0	165	129	99	-1	-1	10	1008	960	99	2	-5	8	562	532	99
0	-1	11	91	97	99	0	-5	9	102	148	99	1	-4	1	167	198	99	-1	-1	9	-109	126	99	2	-5	9	48	146	99
0	-1	12	486	501	99	0	-5	8	478	498	99	1	-4	2	1398	1399	99	-1	-1	8	72	144	99	2	-5	10	-155	49	99
0	-1	13	145	83	99	0	-5	7	210	231	99	1	-4	3	509	528	99	-1	-1	7	237	227	99	2	-5	11	-163	91	99
0	-1	14	344	342	99	0	-5	6	261	283	99	1	-4	4	715	711	99	-1	-1	6	1370	1348	99	2	-4	0	1164	1136	99
0	-1	15	109	63	99	0	-5	5	96	58	99	1	-4	5	252	235	99	-1	-1	5	514	513	99	2	-4	1	253	270	99
0	-2	14	287	292	99	0	-5	4	385	406	99	1	-4	6	183	191	99	-1	-1	4	1169	1176	99	2	-4	2	673	697	99
0	-2	13	123	32	99	0	-5	3	425	421	99	1	-4	7	120	64	99	-1	-1	3	1032	1055	99	2	-4	3	-91	126	99
0	-2	12	151	125	99	0	-5	2	1018	1040	99	1	-4	8	769	726	99	-1	-1	2	1035	1038	99	2	-4	4	979	968	99
0	-2	11	75	123	99	0	-5	1	382	369	99	1	-4	9	95	110	99	1	-1	1	632	630	99	2	-4	5	122	127	99
0	-2	10	762	796	99	0	-6	9	-176	63	99	1	-4	10	-222	10	99	1	-1	2	160	153	99	2	-4	6	751	731	99
0	-2	9	276	229	99	0	-6	8	179	67	99	1	-4	11	82	48	99	1	-1	3	639	662	99	2	-4	7	133	88	99
0	-2	8	138	143	99	0	-6	7	-135	61	99	1	-4	12	336	340	99	1	-1	4	1329	1344	99	2	-4	8	283	230	99
0	-2	7	466	443	99	0	-6	6	368	400	99	1	-3	0	1428	1392	99	1	-1	5	262	261	99	2	-4	9	147	146	99
0	-2	6	1296	1312	99	0	-6	5	363	346	99	1	-3	1	794	799	99	1	-1	6	1463	1456	99	2	-4	10	519	465	99
0	-2	5	-88	43	99	0	-6	4	310	301	99	1	-3	2	573	574	99	1	-1	7	181	214	99	2	-4	11	189	172	99
0	-2	4	2143	2156	99	0	-6	3	98	47	99	1	-3	3	257	299	99	1	-1	8	161	156	99	2	-4	12	213	199	99
0	-2	3	532	556	99	0	-6	2	128	205	99	1	-3	4	1176	1196	99	1	-1	9	259	295	99	2	-3	0	97	75	99
0	-2	2	587	588	99	0	-6	1	131	132	99	1	-3	5	151	184	99	1	-1	10	924	922	99	2	-3	1	582	570	99
0	0	2	966	914	99	0	-6	0	452	436	99	1	-3	6	1012	1012	99	1	-1	11	156	58	99	2	-3	2	1466	1445	99
0	0	4	1105	1125	99	0	-7	6	265	233	99	1	-3	7	19	17	99	1	-1	12	180	142	99	2	-3	3	1185	1140	99
0	0	6	1229	1259	99	0	-7	5	117	7	99	1	-3	8	287	288	99	1	-1	13	-95	18	99	2	-3	4	787	772	99
0	0	8	520	505	99	0	-7	4	239	186	99	1	-3	9	351	401	99	1	-1	14	368	297	99	2	-3	5	-115	26	99
0	0	10	997	983	99	0	-7	3	198	161	99	1	-3	10	652	660	99	1	0	2	3094	3107	99	2	-3	6	678	675	99
0	0	12	191	87	99	0	-7	2	438	420	99	1	-3	11	201	185	99	1	0	4	1596	1579	99	2	-3	7	217	237	99
0	0	14	383	356	99	0	-7	1	161	199	99	1	-3	12	272	270	99	1	0	6	1740	1786	99	2	-3	8	1019	1026	99
0	-2	1	579	562	99	1	-7	0	354	355	99	1	-3	13	111	22	99	1	0	8	1252	1267	99	2	-3	9	76	62	99
0	-2	0	2637	2523	99	1	-7	1	60	189	99	1	-2	0	184	200	99	1	0	10	-160	85	99	2	-3	10	79	87	99
0	-3	13	-38	131	99	1	-7	2	-189	54	99	1	-2	1	335	327	99	1	0	12	553	595	99	2	-3	11	114	28	99
0	-3	12	491	418	99	1	-7	3	113	41	99	1	-2	2	2074	2128	99	1	0	14	356	369	99	2	-3	12	401	394	99
0	-3	11	87	67	99	1	-7	4	360	394	99	1	-2	3	374	376	99	2	-7	0	-82	53	99	2	-3	13	150	116	99
0	-3	10	-176	106	99	1	-7	5	177	217	99	1	-2	4	1416	1380	99	2	-7	1	148	163	99	2	-2	0	2615	2626	99
0	-3	9	-63	87	99	1	-7	6	286	275	99	1	-2	5	311	298	99	2	-7	2	334	325	99	2	-2	1	514	522	99
0	-3	8	1012	1008	99	1	-6	0	124	47	99	1	-2	6	1387	1389	99	2	-7	3	126	173	99	2	-2	2	691	693	99
0	-3	7	157	203	99	1	-6	1	265	216	99	1	-2	7	-76	55	99	2	-7	4	164	168	99	2	-2	3	291	269	99
0	-3	6	690	671	99	1	-6	2	449	486	99	1	-2	8	1175	1182	99	2	-7	5	-139	5	99	2	-2	4	2049	2020	99
0	-3	5	-152	46	99	1	-6	3	-97	105	99	1	-2	9	115	18	99	2	-7	6	250	260	99	2	-2	5	-105	41	99
0	-3	4	840	853	99	1	-6	4	321	312	99	1	-2	10	-145	61	99	2	-6	0	507	481	99	2	-2	6	1495	1498	99
0	-3	3	854	846	99	1	-6	5	-114	30	99	1	-2	11	143	111	99	2	-6	1	131	188	99	2	-2	7	287	281	99
0	-3	2	1596	1597	99	1	-6	6	-80	105	99	1	-2	12	492	490	99	2	-6	2	216	190	99	2	-2	8	231	184	99
0	-3	1	460	482	99	1	-6	7	113	193	99	1	-2	13	-132	120	99	2	-6	3	-163	49	99	2	-2	9	280	320	99
0	-4	12	289	219	99	1	-6	8	345	329	99	1	-2	14	59	217	99	2	-6	4	327	334	99	2	-2	10	768	763	99
0	-4	11	169	181	99	1	-6	9	135	145	99	1	-1	0	2691	2684	99	2	-6	5	289	275	99	2	-2	11	161	132	99
0	-4	10	527	481	99	1	-5	0	1098	1082	99	-1	0	14	309	303	99	2	-6	6	325	352	99	2	-2	12	-56	135	99
0	-4	9	171	186	99	1	-5	1	267	256	99	-1	0	12	540	513	99	2	-6	7	124	69	99	2	-2	13	90	17	99
0	-4	8	287	260	99	1	-5	2	453	490	99	-1	0	10	62	150	99	2	-6	8	75	69	99	2	-2	14	291	281	99
2	-1	0	252	255	99	3	-4	4	713	717	99	3	0	6	1159	1155	99	4	-3	8	946	956	99	5	-6	5	113	9	99
2	-1	1	1048	1048	99	3	-4	5	353	304	99	3	0	8	1069	1121	99	4	-3	9	128	88	99	5	-6	6	198	157	99
2	-1	2	1470	1518	99	3	-4	6	308	297	99	3	0	10	145	185	99	4	-3	10	49	36	99	5	-6	7	72	167	99
2	-1	3	384	384	99	3	-4	7	-64	55	99	3	0	12	680	654	99	4	-3	11	135	13	99	5	-6	8	350	355	99
2	-1	4	1039	969	99	3	-4	8	723	727	99	3	0	14	381	384	99	4	-3	12	274	372	99	5	-6	9	124	123	99
2	-1	5	93	5	99	3	-4	9	106	119	99	4	-7	0	107	61	99	4	-3	13	228	102	99	5	-5	0	911	865	99
2	-1	6	1032	1053	99	3	-4	10	55	17	99	4	-7	1	207	155	99	4	-2	0	2669	2776	99	5	-5	1	514	498	99
2	-1	7	277	283	99	3	-4	11	-102	21	99	4	-7	2	288	295	99	4	-2	1	514	524	99	5	-5	2	335	319	99
2	-1	8	1130	1142	99	3	-4	12	285	297	99	4	-7	3	208	166	99	4	-2	2	351	355	99	5	-5	3	159	135	99
2	-1	9	-52	23	99	3	-3	0	1452	1450	99	4	-7	4	-58	117	99	4	-2	3	76	31	99	5	-5	4	759	757	99
2	-1	10	215	154	99	3	-3	1	703	719	99	4	-7	5	-169	25	99	4	-2	4	1455	1478	99	5	-5	5	321	326	99
2	-1	11	121	131	99	3	-3	2	628	618	99	4	-7	6	208	229	99	4	-2	5	287	259	99	5	-5	6	400	425	99
2	-1	12	592	570	99	3	-3	3	93	161	99	4	-6	0	482	487	99	4	-2	6	1409	1389	99	5	-5	7	115	20	99
2	-1	13	153	47	99	3	-3	4	1264	1270	99	4	-6	1	278	249	99	4	-3	7	122	184	99	5	-5	8	146	145	99
2	-1	14	361	380	99	3	-3	5	234	233	99	4	-6	2	249	272	99	4	-2	8	251	259	99	5	-5	9	-114	138	99
2	0	2	2222	2231	99	3	-3	6	876	870	99	4	-6	3	-50	59	99	4	-2	9	248	260	99	5	-5	10	304	298	99
2	0	4	1658	1679	99	3	-3	7	143	48	99	4	-6	4	395	388	99	4	-2	10	807	809	99	5	-5	11	86	128	99
2	0	6	1873	1862	99	3	-3	8	341	302	99	4	-6	5	231	229	99	4	-2	11	150	67	99	5	-4	0	254	250	99
2	0	8	320	279	99	3	-3	9	407	391	99	4	-6	6	402	356	99	4	-2	12	99	190	99	5	-4	1	370	368	99
2	0	10	982	967	99	3	-3	10	653	642	99	4	-6	7	176	28	99	4	-2	13	47	20	99	5	-4	2	1253	1235	99
2	0	12	84	52	99	3	-3	11	117	105	99	4	-6	8	18	80	99	4	-2	14	193	252	99	5	-4	3	330	337	99
2	0	14	297	294	99	3	-3	12	315	270	99	4	-6	9	101	72	99	4	-1	0	1632	1610	99	5	-4	4	697	703	99
3	-7	0	444	396	99	3	-3	13	-66	35	99	4	-5	0	198	216	99	4	-1	1	238	240	99	5	-4	5	210	205	99
3	-7	1	245	202	99	3	-2	0	272	270	99	4	-5	1	378	301	99	4	-1	2	1660	1710	99	5	-4	6	346	360	99
3	-7	2	-93	76	99	3	-2	1	231	259	99	4	-5	2	1181	1140	99	4	-1	3	450	459	99	5	-4	7	190	206	99
3	-7	3	-60	39	99	3	-2	2	1672	1655	99	4	-5	3	266	215	99	4	-1	4	1425	1447	99	5	-4	8	830	815	99
3	-7	4	265	294	99	3	-2	3	357	341	99	4	-5	4	428	448	99	4	-1	5	456	433	99	5	-4	9	77	113	99
3	-7	5	225	224	99	3	-2	4	1316	1283	99	4	-5	5	64	45	99	4	-1	6	1291	1311	99	5	-4	10	66	21	99
3	-7	6	214	247	99	3	-2	5	81	108	99	4	-5	6	244	216	99	4	-1	7	210	224	99	5	-4	11	115	14	99
3	-6	0	-146	0	99	3	-2	6	1230	1182	99	4	-5	7	334	358	99	4	-1	8	941	920	99	5	-4	12	272	268	99
3	-6	1	81	183	99	3	-2	7	118	134	99	4	-5	8	530	542	99	4	-1	9	118	139	99	5	-3	0	1738	1749	99
3	-6	2	528	551	99	3	-2	8	1194	1183	99	4	-5	9	194	155	99	4	-1	10	53	44	99	5	-3	1	457	450	99
3	-6	3	114	97	99	3	-2	9	32	198	99	4	-5	10	-112	23	99	4	-1	11	134	71	99	5	-3	2	830	816	99
3	-6	4	261	276	99	3	-2	10	88	46	99	4	-5	11	-18	93	99	4	-1	12	609	583	99	5	-3	3	170	195	99
3	-6	5	-144	2	99	3	-2	11	202	176	99	4	-4	0	1260	1196	99	4	-1	13	149	24	99	5	-3	4	1110	1117	99
3	-6	6	99	127	99	3	-2	12	489	507	99	4	-4	1	332	308	99	4	-1	14	365	347	99	5	-3	5	286	282	99
3	-6	7	197	172	99	3	-2	13	179	72	99	4	-4	2	637	616	99	4	0	2	536	501	99	5	-3	6	846	857	99
3	-6	8	335	329	99	3	-2	14	179	220	99	4	-4	3	-124	55	99	4	0	4	2118	2095	99	5	-3	7	125	100	99
3	-6	9	208	148	99	3	-1	0	3377	3472	99	4	-4	4	899	927	99	4	0	6	1898	1912	99	5	-3	8	271	307	99
3	-5	0	815	839	99	3	-1	1	464	481	99	4	-4	5	290	269	99	4	0	8	-92	135	99	5	-3	9	227	248	99
3	-5	1	348	343	99	3	-1	2	170	168	99	4	-4	6	752	753	99	4	0	10	1043	1027	99	5	-3	10	640	614	99
3	-5	2	510	492	99	3	-1	3	277	268	99	4	-4	7	-32	75	99	4	0	12	188	70	99	5	-3	11	98	38	99
3	-5	3	140	139	99	3	-1	4	1623	1635	99	4	-4	8	217	214	99	4	0	14	167	210	99	5	-3	12	223	230	99
3	-5	4	677	667	99	3	-1	5	498	459	99	4	-4	9	-72	92	99	5	-7	0	490	492	99	5	-3	13	-52	68	99
3	-5	5	516	495	99	3	-1	6	1475	1503	99	4	-4	10	424	427	99	5	-7	1	221	199	99	5	-2	0	326	297	99
3	-5	6	494	511	99	3	-1	7	163	134	99	4	-4	11	92	122	99	5	-7	2	51	106	99	5	-2	1	434	447	99
3	-5	7	-87	18	99	3	-1	8	-82	82	99	4	-4	12	220	176	99	5	-7	3	-167	33	99	5	-2	2	1983	2051	99
3	-5	8	227	225	99	3	-1	9	400	428	99	4	-3	0	50	54	99	5	-7	4	261	238	99	5	-2	3	323	340	99
3	-5	9	117	145	99	3	-1	10	874	896	99	4	-3	1	763	768	99	5	-7	5	140	211	99	5	-2	4	853	876	99
3	-5	10	341	345	99	3	-1	11	-124	18	99	4	-3	2	1504	1512	99	5	-7	6	58	185	99	5	-2	5	190	192	99
3	-5	11	130	105	99	3	-1	12	225	170	99	4	-3	3	922	919	99	5	-6	0	104	9	99	5	-2	6	1004	1029	99
3	-4	0	215	200	99	3	-1	13	79	21	99	4	-3	4	807	790	99	5	-6	1	128	113	99	5	-2	7	287	290	99
3	-4	1	279	271	99	3	-1	14	131	227	99	4	-3	5	-68	57	99	5	-6	2	452	473	99	5	-2	8	1000	1011	99
3	-4	2	1417	1430	99	3	0	2	3839	3981	99	4	-3	6	617	607	99	5	-6	3	162	151	99	5	-2	9	234	222	99
3	-4	3	482	497	99	3	0	4	2054	2118	99	4	-3	7	307	310	99	5	-6	4	304	307	99	5	-2	10	49	74	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	-2	11	185	146	99	6	-4	0	1241	1239	99	6	-1	13	82	44	99	7	-3	6	844	822	99	8	-6	3	-192	27	99
5	-2	12	466	471	99	6	-4	1	248	231	99	6	-1	14	225	274	99	7	-3	7	207	187	99	8	-6	4	364	349	99
5	-2	13	-166	78	99	6	-4	2	578	579	99	6	0	0	3341	3290	99	7	-3	8	244	255	99	8	-6	5	201	220	99
5	-2	14	262	226	99	6	-4	3	-102	51	99	6	0	2	918	914	99	7	-3	9	51	130	99	8	-6	6	334	329	99
5	-1	0	2451	2406	99	6	-4	4	984	956	99	6	0	4	2548	2608	99	7	-3	10	597	593	99	8	-6	7	-185	13	99
5	-1	1	472	477	99	6	-4	5	358	343	99	6	0	6	1633	1648	99	7	-3	11	26	39	99	8	-6	8	-256	41	99
5	-1	2	212	209	99	6	-4	6	725	738	99	6	0	8	159	134	99	7	-3	12	107	192	99	8	-5	0	133	113	99
5	-1	3	241	262	99	6	-4	7	248	222	99	6	0	10	1038	1012	99	7	-3	13	143	56	99	8	-5	1	293	337	99
5	-1	4	1384	1415	99	6	-4	8	127	131	99	6	0	12	116	125	99	7	-2	0	115	47	99	8	-5	2	724	727	99
5	-1	5	348	350	99	6	-4	9	138	82	99	6	0	14	-182	131	99	7	-2	1	683	709	99	8	-5	3	147	272	99
5	-1	6	1792	1763	99	6	-4	10	444	399	99	7	-7	0	529	512	99	7	-2	2	2211	2226	99	8	-5	4	323	357	99
5	-1	7	106	6	99	6	-4	11	95	73	99	7	-7	1	254	197	99	7	-2	3	176	165	99	8	-5	5	69	4	99
5	-1	8	-99	147	99	6	-4	12	181	155	99	7	-7	2	-17	155	99	7	-2	4	1139	1146	99	8	-5	6	345	348	99
5	-1	9	212	290	99	6	-3	0	110	118	99	7	-7	3	169	45	99	7	-2	5	287	291	99	8	-5	7	296	273	99
5	-1	10	1001	982	99	6	-3	1	573	590	99	7	-7	4	192	208	99	7	-2	6	964	951	99	8	-5	8	535	507	99
5	-1	11	-148	10	99	6	-3	2	1361	1362	99	7	-7	5	124	201	99	7	-2	7	255	311	99	8	-5	9	100	69	99
5	-1	12	226	190	99	6	-3	3	655	676	99	7	-6	0	88	36	99	7	-2	8	933	941	99	8	-5	10	64	22	99
5	-1	13	-176	11	99	6	-3	4	836	846	99	7	-6	1	170	114	99	7	-2	9	237	231	99	8	-4	0	1042	1031	99
5	-1	14	141	173	99	6	-3	5	180	145	99	7	-6	2	431	403	99	7	-2	10	139	19	99	8	-4	1	144	183	99
5	0	0	104	19	99	6	-3	6	596	576	99	7	-6	3	119	162	99	7	-2	11	90	60	99	8	-4	2	588	580	99
5	0	2	4049	4113	99	6	-3	7	307	319	99	7	-6	4	244	279	99	7	-2	12	426	402	99	8	-4	3	208	196	99
5	0	4	1930	1924	99	6	-3	8	880	894	99	7	-6	5	191	72	99	7	-2	13	181	124	99	8	-4	4	1025	997	99
5	0	6	853	848	99	6	-3	9	158	104	99	7	-6	6	189	168	99	7	-2	14	229	211	99	8	-4	5	263	290	99
5	0	8	718	722	99	6	-3	10	144	24	99	7	-6	7	89	161	99	7	-1	0	2210	2223	99	8	-4	6	660	653	99
5	0	10	185	95	99	6	-3	11	-107	21	99	7	-6	8	300	343	99	7	-1	1	356	348	99	8	-4	7	321	298	99
5	0	12	650	647	99	6	-3	12	334	360	99	7	-5	0	825	797	99	7	-1	2	565	556	99	8	-4	8	-247	79	99
5	0	14	394	335	99	6	-3	13	135	117	99	7	-5	1	542	515	99	7	-1	3	178	173	99	8	-4	9	-167	52	99
6	-7	0	-50	58	99	6	-2	0	2549	2558	99	7	-5	2	320	338	99	7	-1	4	1059	1080	99	8	-4	10	427	388	99
6	-7	1	-40	171	99	6	-2	1	899	908	99	7	-5	3	-80	126	99	7	-1	5	-60	50	99	8	-4	11	-85	82	99
6	-7	2	336	335	99	6	-2	2	522	511	99	7	-5	4	862	856	99	7	-1	6	1433	1433	99	8	-4	12	-73	153	99
6	-7	3	-101	164	99	6	-2	3	396	362	99	7	-5	5	257	262	99	7	-1	7	194	51	99	8	-3	0	92	38	99
6	-7	4	121	125	99	6	-2	4	1501	1486	99	7	-5	6	444	459	99	7	-1	8	252	220	99	8	-3	1	28	143	99
6	-7	5	160	34	99	6	-2	5	314	291	99	7	-5	7	131	47	99	7	-1	9	-110	110	99	8	-3	2	1296	1348	99
6	-6	0	447	452	99	6	-2	6	1244	1220	99	7	-5	8	-154	113	99	7	-1	10	1049	1027	99	8	-3	3	455	409	99
6	-6	1	273	286	99	6	-2	7	188	153	99	7	-5	9	154	128	99	7	-1	11	-134	39	99	8	-3	4	812	813	99
6	-6	2	261	276	99	6	-2	8	436	377	99	7	-5	10	343	263	99	7	-1	12	187	228	99	8	-3	5	313	319	99
6	-6	3	-113	21	99	6	-2	9	98	232	99	7	-4	0	258	257	99	7	-1	13	179	44	99	8	-3	6	565	518	99
6	-6	4	364	351	99	6	-2	10	788	796	99	7	-4	1	189	192	99	7	-1	14	-158	168	99	8	-3	7	369	375	99
6	-6	5	152	240	99	6	-2	11	-185	16	99	7	-4	2	1192	1169	99	7	0	0	278	232	99	8	-3	8	852	857	99
6	-6	6	407	357	99	6	-2	12	156	230	99	7	-4	3	278	289	99	7	0	2	3195	3156	99	8	-3	9	146	68	99
6	-6	7	-87	15	99	6	-2	13	-39	44	99	7	-4	4	493	520	99	7	0	4	2014	1951	99	8	-3	10	-78	26	99
6	-6	8	-42	48	99	6	-2	14	-68	213	99	7	-4	5	170	138	99	7	0	6	1189	1207	99	8	-3	11	119	33	99
6	-6	9	80	75	99	6	-1	0	705	708	99	7	-4	6	360	344	99	7	0	8	689	691	99	8	-3	12	274	340	99
6	-5	0	161	180	99	6	-1	1	778	799	99	7	-4	7	275	304	99	7	0	10	109	87	99	8	-3	13	209	115	99
6	-5	1	306	271	99	6	-1	2	1727	1772	99	7	-4	8	819	804	99	7	0	12	595	553	99	8	-2	0	2640	2637	99
6	-5	2	947	954	99	6	-1	3	778	771	99	7	-4	9	76	153	99	7	0	14	138	219	99	8	-2	1	590	593	99
6	-5	3	20	199	99	6	-1	4	1680	1641	99	7	-4	10	38	16	99	8	-7	0	-209	16	99	8	-2	2	607	602	99
6	-5	4	396	400	99	6	-1	5	525	544	99	7	-4	11	-157	32	99	8	-7	1	177	166	99	8	-2	3	456	447	99
6	-5	5	-59	25	99	6	-1	6	790	769	99	7	-4	12	247	256	99	8	-7	2	351	364	99	8	-2	4	1166	1169	99
6	-5	6	295	299	99	6	-1	7	68	134	99	7	-3	0	1639	1671	99	8	-7	3	145	176	99	8	-2	5	-137	63	99
6	-5	7	329	308	99	6	-1	8	937	903	99	7	-3	1	277	306	99	8	-7	4	-65	167	99	8	-2	6	1126	1094	99
6	-5	8	512	524	99	6	-1	9	222	197	99	7	-3	2	712	701	99	8	-7	5	-198	41	99	8	-2	7	336	304	99
6	-5	9	147	128	99	6	-1	10	109	63	99	7	-3	3	464	472	99	8	-6	0	466	457	99	8	-2	8	431	432	99
6	-5	10	114	13	99	6	-1	11	80	25	99	7	-3	4	937	940	99	8	-6	1	282	289	99	8	-2	9	125	123	99
6	-5	11	-206	75	99	6	-1	12	581	580	99	7	-3	5	293	281	99	8	-6	2	-104	213	99	8	-2	10	776	789	99
8	-2	11	211	22	99	9	-4	3	102	163	99	9	0	4	1495	1425	99	10	-3	12	330	318	99	-1	-4	3	331	305	99
8	-2	12	148	192	99	9	-4	4	492	497	99	9	0	6	1296	1273	99	10	-2	0	2538	2549	99	-1	-4	2	1372	1342	99
8	-2	13	-56	33	99	9	-4	5	70	71	99	9	0	8	839	836	99	10	-2	1	52	113	99	-1	-4	1	114	45	99
8	-1	0	273	297	99	9	-4	6	438	442	99	9	0	10	329	314	99	10	-2	2	671	672	99	-1	-5	11	-139	89	99
8	-1	1	216	221	99	9	-4	7	245	283	99	9	0	12	494	490	99	10	-2	3	164	153	99	-1	-5	10	369	366	99
8	-1	2	2512	2578	99	9	-4	8	734	738	99	9	0	14	184	127	99	10	-2	4	1265	1238	99	-1	-5	9	-154	159	99
8	-1	3	221	213	99	9	-4	9	145	141	99	10	-7	0	114	43	99	10	-2	5	94	79	99	-1	-5	8	309	292	99
8	-1	4	1442	1389	99	9	-4	10	191	17	99	10	-7	1	81	163	99	10	-2	6	882	889	99	-1	-5	7	74	126	99
8	-1	5	287	296	99	9	-4	11	113	36	99	10	-7	2	362	404	99	10	-2	7	366	343	99	-1	-5	6	572	572	99
8	-1	6	658	651	99	9	-4	12	212	233	99	10	-7	3	89	165	99	10	-2	8	350	371	99	-1	-5	5	539	521	99
8	-1	7	-123	55	99	9	-3	0	1766	1742	99	10	-7	4	127	178	99	10	-2	9	104	77	99	-1	-5	4	636	635	99
8	-1	8	766	785	99	9	-3	1	317	330	99	10	-6	0	459	443	99	10	-2	10	759	752	99	-1	-5	3	260	271	99
8	-1	9	-75	35	99	9	-3	2	642	626	99	10	-6	1	301	276	99	10	-2	11	-80	16	99	-1	-5	2	364	324	99
8	-1	10	155	185	99	9	-3	3	618	640	99	10	-6	2	-168	188	99	10	-2	12	59	155	99	-1	-5	1	295	281	99
8	-1	11	-171	28	99	9	-3	4	970	1014	99	10	-6	3	-13	24	99	10	-2	13	-40	9	99	-1	-6	9	204	136	99
8	-1	12	549	507	99	9	-3	5	405	428	99	10	-6	4	360	339	99	10	-1	0	152	114	99	-1	-6	8	277	312	99
8	-1	13	126	86	99	9	-3	6	825	843	99	10	-6	5	207	185	99	-1	-1	1	538	543	99	-1	-6	7	157	160	99
8	-1	14	261	222	99	9	-3	7	331	242	99	10	-6	6	353	331	99	-1	-2	14	230	231	99	-1	-6	6	-46	155	99
8	0	0	1461	1500	99	9	-3	8	82	164	99	10	-6	7	-170	16	99	-1	-2	13	246	204	99	-1	-6	5	-46	21	99
8	0	2	708	656	99	9	-3	9	-100	119	99	10	-6	8	21	61	99	-1	-2	12	492	496	99	-1	-6	4	316	320	99
8	0	4	2438	2425	99	9	-3	10	497	527	99	10	-5	0	125	40	99	-1	-2	11	-101	63	99	-1	-6	3	189	187	99
8	0	6	1794	1780	99	9	-3	11	-113	37	99	10	-5	1	330	327	99	-1	-2	10	-191	48	99	-1	-6	2	496	504	99
8	0	8	453	404	99	9	-3	12	155	153	99	10	-5	2	591	587	99	-1	-2	9	204	204	99	-1	-6	1	279	245	99
8	0	10	1000	1032	99	9	-3	13	-174	38	99	10	-5	3	411	405	99	-1	-2	8	1194	1204	99	-1	-7	6	254	289	99
8	0	12	109	131	99	9	-2	0	198	172	99	10	-5	4	296	310	99	-1	-2	7	-101	32	99	-1	-7	5	-69	231	99
8	0	14	60	128	99	9	-2	1	518	514	99	10	-5	5	136	51	99	-1	-2	6	950	957	99	-1	-7	4	420	399	99
9	-7	0	483	495	99	9	-2	2	2336	2315	99	10	-5	6	366	354	99	-1	-2	5	362	352	99	-1	-7	3	33	19	99
9	-7	1	99	193	99	9	-2	3	533	533	99	10	-5	7	271	222	99	-1	-2	4	1087	1121	99	-1	-7	2	158	27	99
9	-7	2	-269	131	99	9	-2	4	1108	1055	99	10	-5	8	419	454	99	-1	-2	3	692	706	99	-1	-7	1	140	169	99
9	-7	3	150	46	99	9	-2	5	-35	162	99	10	-5	9	-60	45	99	-1	-2	2	2618	2671	99	-2	0	14	384	364	99
9	-7	4	229	195	99	9	-2	6	664	659	99	10	-5	10	-101	19	99	-1	-2	1	-63	91	99	-2	0	12	40	156	99
9	-7	5	274	199	99	9	-2	7	35	107	99	10	-4	0	882	901	99	-1	-3	14	190	213	99	-2	0	10	1215	1219	99
9	-6	0	-91	44	99	9	-2	8	931	944	99	10	-4	1	-5	102	99	-1	-3	13	-102	30	99	-2	0	8	547	567	99
9	-6	1	182	182	99	9	-2	9	65	120	99	10	-4	2	405	419	99	-1	-3	12	200	224	99	-2	0	6	985	999	99
9	-6	2	405	408	99	9	-2	10	-132	22	99	10	-4	3	217	251	99	-1	-3	11	211	188	99	-2	0	4	1312	1307	99
9	-6	3	142	161	99	9	-2	11	-229	25	99	10	-4	4	1038	1012	99	-1	-3	10	655	638	99	-2	0	2	798	770	99
9	-6	4	225	265	99	9	-2	12	369	388	99	10	-4	5	161	220	99	-1	-3	9	413	400	99	-2	-1	15	-172	12	99
9	-6	5	-66	110	99	9	-2	13	134	162	99	10	-4	6	594	613	99	-1	-3	8	202	195	99	-2	-1	14	268	278	99
9	-6	6	240	183	99	9	-1	0	1730	1753	99	10	-4	7	229	259	99	-1	-3	7	-67	126	99	-2	-1	13	-117	117	99
9	-6	7	186	157	99	9	-1	1	475	483	99	10	-4	8	-163	61	99	-1	-3	6	1139	1125	99	-2	-1	12	457	438	99
9	-6	8	247	313	99	9	-1	2	834	821	99	10	-4	9	201	82	99	-1	-3	5	403	394	99	-2	-1	11	90	22	99
9	-5	0	741	742	99	9	-1	3	201	214	99	10	-4	10	389	394	99	-1	-3	4	1454	1481	99	-2	-1	10	261	246	99
9	-5	1	526	528	99	9	-1	4	894	888	99	10	-4	11	-71	96	99	-1	-3	3	240	266	99	-2	-1	9	264	241	99
9	-5	2	309	277	99	9	-1	5	173	166	99	10	-3	0	147	88	99	-1	-3	2	617	619	99	-2	-1	8	1349	1377	99
9	-5	3	227	175	99	9	-1	6	1218	1183	99	10	-3	1	164	138	99	-1	-3	1	671	637	99	-2	-1	7	252	257	99
9	-5	4	781	755	99	9	-1	7	25	57	99	10	-3	2	1448	1394	99	-1	-4	13	67	126	99	-2	-1	6	1285	1247	99
9	-5	5	262	241	99	9	-1	8	437	427	99	10	-3	3	299	331	99	-1	-4	12	416	373	99	-2	-1	5	206	178	99
9	-5	6	454	470	99	9	-1	9	-167	55	99	10	-3	4	741	723	99	-1	-4	11	-107	58	99	-2	-1	4	1637	1641	99
9	-5	7	94	17	99	9	-1	10	908	917	99	10	-3	5	356	342	99	-1	-4	10	-157	29	99	-2	-1	3	509	509	99
9	-5	8	-116	74	99	9	-1	11	-135	31	99	10	-3	6	383	384	99	-1	-4	9	136	195	99	-2	-1	2	2473	2431	99
9	-5	9	103	128	99	9	-1	12	69	205	99	10	-3	7	305	321	99	-1	-4	8	739	729	99	-2	-1	1	114	88	99
9	-5	10	269	264	99	9	-1	13	-167	41	99	10	-3	8	776	792	99	-1	-4	7	-152	78	99	-2	-2	14	350	301	99
9	-4	0	-112	101	99	9	-1	14	-100	169	99	10	-3	9	-124	40	99	-1	-4	6	306	283	99	-2	-2	13	-175	28	99
9	-4	1	203	187	99	9	0	0	260	203	99	10	-3	10	29	45	99	-1	-4	5	98	15	99	-2	-2	12	136	155	99
9	-4	2	1005	1014	99	9	0	2	2742	2761	99	10	-3	11	122	69	99	-1	-4	4	705	682	99	-2	-2	11	130	141	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
-2	-2	10	859	841	99	-2	-6	2	233	209	99	-3	-3	3	532	571	99	-4	-1	9	179	160	99	-4	-5	6	500	484	99
-2	-2	9	112	46	99	-2	-6	1	174	96	99	-3	-3	2	616	625	99	-4	-1	8	1164	1162	99	-4	-5	5	121	37	99
-2	-2	8	245	239	99	-2	-7	6	160	171	99	-3	-3	1	771	733	99	-4	-1	7	81	178	99	-4	-5	4	322	355	99
-2	-2	7	639	646	99	-2	-7	5	61	6	99	-3	-4	13	-77	111	99	-4	-1	6	801	834	99	-4	-5	3	532	545	99
-2	-2	6	1329	1346	99	-2	-7	4	224	241	99	-3	-4	12	454	407	99	-4	-1	5	-46	34	99	-4	-5	2	847	838	99
-2	-2	5	120	110	99	-2	-7	3	97	181	99	-3	-4	11	166	54	99	-4	-1	4	1765	1748	99	-4	-5	1	504	486	99
-2	-2	4	1857	1841	99	-2	-7	2	437	468	99	-3	-4	10	125	15	99	-4	-1	3	719	727	99	-4	-6	9	122	71	99
-2	-2	3	793	840	99	-2	-7	1	138	188	99	-3	-4	9	-73	134	99	-4	-1	2	2184	2258	99	-4	-6	8	70	36	99
-2	-2	2	814	824	99	-3	0	14	185	243	99	-3	-4	8	777	714	99	-4	-1	1	544	545	99	-4	-6	7	-161	59	99
-2	-2	1	151	134	99	-3	0	12	497	492	99	-3	-4	7	228	195	99	-4	-2	14	291	284	99	-4	-6	6	349	359	99
-2	-3	14	129	155	99	-3	0	10	238	280	99	-3	-4	6	362	361	99	-4	-2	13	85	90	99	-4	-6	5	314	308	99
-2	-3	13	104	146	99	-3	0	8	1581	1564	99	-3	-4	5	104	96	99	-4	-2	12	229	200	99	-4	-6	4	291	332	99
-2	-3	12	426	416	99	-3	0	6	2004	2001	99	-3	-4	4	451	461	99	-4	-2	11	178	133	99	-4	-6	3	84	24	99
-2	-3	11	51	80	99	-3	0	4	2299	2225	99	-3	-4	3	146	88	99	-4	-2	10	942	919	99	-4	-6	2	195	177	99
-2	-3	10	115	89	99	-3	0	2	1883	1800	99	-3	-4	2	1154	1309	99	-4	-2	9	71	63	99	-4	-6	1	-53	100	99
-2	-3	9	105	74	99	-3	-1	15	-124	36	99	-3	-4	1	250	242	99	-4	-2	8	408	386	99	-4	-7	6	193	162	99
-2	-3	8	1044	1047	99	-3	-1	14	335	271	99	-3	-5	11	153	99	99	-4	-2	7	399	389	99	-4	-7	5	-137	3	99
-2	-3	7	369	394	99	-3	-1	13	99	105	99	-3	-5	10	395	358	99	-4	-2	6	1292	1333	99	-4	-7	4	273	314	99
-2	-3	6	601	580	99	-3	-1	12	288	262	99	-3	-5	9	188	172	99	-4	-2	5	160	154	99	-4	-7	3	220	207	99
-2	-3	5	-74	178	99	-3	-1	11	-97	30	99	-3	-5	8	254	252	99	-4	-2	4	1792	1775	99	-4	-7	2	483	485	99
-2	-3	4	705	706	99	-3	-1	10	1043	1012	99	-3	-5	7	-115	102	99	-4	-2	3	-106	99	99	-4	-7	1	117	174	99
-2	-3	3	560	557	99	-3	-1	9	22	56	99	-3	-5	6	626	632	99	-4	-2	2	724	725	99	-5	0	14	88	231	99
-2	-3	2	1932	1906	99	-3	-1	8	283	297	99	-3	-5	5	487	478	99	-4	-2	1	140	73	99	-5	0	12	571	525	99
-2	-3	1	141	156	99	-3	-1	7	379	367	99	-3	-5	4	706	696	99	-4	-3	14	152	193	99	-5	0	10	-175	101	99
-2	-4	13	-168	4	99	-3	-1	6	1131	1156	99	-3	-5	3	161	178	99	-4	-3	13	189	159	99	-5	0	8	1535	1510	99
-2	-4	12	248	241	99	-3	-1	5	465	450	99	-3	-5	2	410	409	99	-4	-3	12	439	422	99	-5	0	6	1607	1594	99
-2	-4	11	83	166	99	-3	-1	4	1244	1222	99	-3	-5	1	328	321	99	-4	-3	11	62	63	99	-5	0	4	2008	1952	99
-2	-4	10	476	470	99	-3	-1	3	537	534	99	-3	-6	9	182	128	99	-4	-3	10	-143	34	99	-5	0	2	2141	2126	99
-2	-4	9	165	154	99	-3	-1	2	804	765	99	-3	-6	8	292	295	99	-4	-3	9	112	43	99	-5	-1	15	94	14	99
-2	-4	8	319	293	99	-3	-1	1	488	483	99	-3	-6	7	81	107	99	-4	-3	8	966	975	99	-5	-1	14	289	222	99
-2	-4	7	199	156	99	-3	-2	14	221	213	99	-3	-6	6	197	174	99	-4	-3	7	556	561	99	-5	-1	13	-56	159	99
-2	-4	6	812	826	99	-3	-2	13	237	220	99	-3	-6	5	127	40	99	-4	-3	6	508	488	99	-5	-1	12	333	343	99
-2	-4	5	153	76	99	-3	-2	12	558	530	99	-3	-6	4	273	253	99	-4	-3	5	266	311	99	-5	-1	11	76	24	99
-2	-4	4	815	820	99	-3	-2	11	86	19	99	-3	-6	3	234	259	99	-4	-3	4	763	763	99	-5	-1	10	1113	1082	99
-2	-4	3	-60	105	99	-3	-2	10	79	22	99	-3	-6	2	478	471	99	-4	-3	3	491	493	99	-5	-1	9	53	96	99
-2	-4	2	621	588	99	-3	-2	9	210	241	99	-3	-6	1	313	292	99	-4	-3	2	1721	1719	99	-5	-1	8	247	208	99
-2	-4	1	408	374	99	-3	-2	8	1208	1212	99	-3	-7	6	298	295	99	-4	-3	1	424	399	99	-5	-1	7	360	343	99
-2	-5	11	148	118	99	-3	-2	7	183	139	99	-3	-7	5	206	245	99	-4	-4	13	123	5	99	-5	-1	6	1084	1085	99
-2	-5	10	95	8	99	-3	-2	6	608	624	99	-3	-7	4	280	355	99	-4	-4	12	112	213	99	-5	-1	5	424	430	99
-2	-5	9	-83	112	99	-3	-2	5	281	264	99	-3	-7	3	-71	17	99	-4	-4	11	123	112	99	-5	-1	4	1628	1653	99
-2	-5	8	540	523	99	-3	-2	4	1578	1552	99	-3	-7	2	-90	70	99	-4	-4	10	449	461	99	-5	-1	3	393	378	99
-2	-5	7	205	240	99	-3	-2	3	316	291	99	-3	-7	1	233	161	99	-4	-4	9	122	130	99	-5	-1	2	513	504	99
-2	-5	6	373	372	99	-3	-2	2	2655	2662	99	-4	0	14	380	310	99	-4	-4	8	249	269	99	-5	-1	1	370	371	99
-2	-5	5	38	11	99	-3	-2	1	182	222	99	-4	0	12	195	201	99	-4	-4	7	219	248	99	-5	-2	14	167	242	99
-2	-5	4	440	394	99	-3	-3	14	184	202	99	-4	0	10	1426	1407	99	-4	-4	6	843	873	99	-5	-2	13	-122	170	99
-2	-5	3	555	533	99	-3	-3	13	122	61	99	-4	0	8	621	645	99	-4	-4	5	76	117	99	-5	-2	12	549	559	99
-2	-5	2	898	890	99	-3	-3	12	69	201	99	-4	0	6	938	946	99	-4	-4	5	76	117	99	-5	-2	11	91	49	99
-2	-5	1	454	439	99	-3	-3	11	121	143	99	-4	0	4	2074	2045	99	-4	-4	3	-62	109	99	-5	-2	10	105	93	99
-2	-6	9	73	55	99	-3	-3	10	603	592	99	-4	0	2	2571	2495	99	-4	-4	2	625	608	99	-5	-2	9	167	207	99
-2	-6	8	118	56	99	-3	-3	9	267	272	99	-4	-1	15	99	26	99	-4	-4	1	324	315	99	-5	-2	8	1134	1139	99
-2	-6	7	117	66	99	-3	-3	8	175	162	99	-4	-1	14	228	256	99	-4	-5	11	126	118	99	-5	-2	7	261	252	99
-2	-6	6	387	389	99	-3	-3	7	261	197	99	-4	-1	13	17	139	99	-4	-5	10	88	51	99	-5	-2	6	733	706	99
-2	-6	5	350	334	99	-3	-3	6	1182	1169	99	-4	-1	12	433	412	99	-4	-5	9	92	115	99	-5	-2	5	134	132	99
-2	-6	4	376	339	99	-3	-3	5	374	393	99	-4	-1	11	77	38	99	-4	-5	8	584	577	99	-5	-2	4	1765	1779	99
-2	-6	3	51	40	99	-3	-3	4	1511	1542	99	-4	-1	10	183	252	99	-4	-5	7	206	232	99	-5	-2	3	120	137	99
-5	-2	2	2617	2698	99	-6	0	14	216	235	99	-6	-4	8	252	257	99	-7	-1	1	1350	1289	99	-7	-6	7	54	54	99
-5	-2	1	82	110	99	-6	0	12	111	225	99	-6	-4	7	246	209	99	-7	-2	14	268	279	99	-7	-6	6	220	158	99
-5	-3	14	286	229	99	-6	0	10	1384	1317	99	-6	-4	6	819	871	99	-7	-2	13	98	82	99	-7	-6	5	167	26	99
-5	-3	13	-28	143	99	-6	0	8	450	436	99	-6	-4	5	-124	111	99	-7	-2	12	600	581	99	-7	-6	4	231	233	99
-5	-3	12	197	207	99	-6	0	6	1506	1499	99	-6	-4	4	773	797	99	-7	-2	11	106	103	99	-7	-6	3	302	308	99
-5	-3	11	120	101	99	-6	0	4	2488	2506	99	-6	-4	3	253	288	99	-7	-2	10	115	79	99	-7	-6	2	458	462	99
-5	-3	10	533	525	99	-6	0	2	283	223	99	-6	-4	2	491	462	99	-7	-2	9	85	87	99	-7	-6	1	213	215	99
-5	-3	9	198	200	99	-6	-1	15	168	49	99	-6	-4	1	201	123	99	-7	-2	8	1048	1001	99	-7	-7	6	130	206	99
-5	-3	8	207	186	99	-6	-1	14	250	273	99	-6	-5	11	-147	129	99	-7	-2	7	194	224	99	-7	-7	5	153	235	99
-5	-3	7	450	413	99	-6	-1	13	-96	103	99	-6	-5	10	49	63	99	-7	-2	6	788	793	99	-7	-7	4	229	252	99
-5	-3	6	1260	1239	99	-6	-1	12	508	472	99	-6	-5	9	215	129	99	-7	-2	5	-54	23	99	-7	-7	3	-89	25	99
-5	-3	5	236	274	99	-6	-1	11	106	110	99	-6	-5	8	628	623	99	-7	-2	4	1317	1344	99	-7	-7	2	207	212	99
-5	-3	4	1237	1283	99	-6	-1	10	213	210	99	-6	-5	7	263	274	99	-7	-2	3	80	68	99	-7	-7	1	-134	144	99
-5	-3	3	569	591	99	-6	-1	9	191	87	99	-6	-5	6	537	496	99	-7	-2	2	2481	2572	99	-8	0	14	281	231	99
-5	-3	2	422	402	99	-6	-1	8	974	1013	99	-6	-5	5	134	44	99	-7	-2	1	279	252	99	-8	0	12	273	237	99
-5	-3	1	684	650	99	-6	-1	7	284	276	99	-6	-5	4	280	311	99	-7	-3	14	300	239	99	-8	0	10	1230	1217	99
-5	-4	13	110	98	99	-6	-1	6	696	704	99	-6	-5	3	572	554	99	-7	-3	13	201	161	99	-8	0	8	119	63	99
-5	-4	12	418	395	99	-6	-1	5	-105	36	99	-6	-5	2	902	880	99	-7	-3	12	113	196	99	-8	0	6	1840	1861	99
-5	-4	11	106	38	99	-6	-1	4	1769	1772	99	-6	-5	1	357	368	99	-7	-3	11	163	64	99	-8	0	4	3101	3207	99
-5	-4	10	-187	79	99	-6	-1	3	794	775	99	-6	-6	9	-171	91	99	-7	-3	10	553	517	99	-8	0	2	343	356	99
-5	-4	9	126	122	99	-6	-1	2	1697	1724	99	-6	-6	8	61	40	99	-7	-3	9	-105	169	99	-8	-1	15	98	51	99
-5	-4	8	790	772	99	-6	-1	1	726	713	99	-6	-6	7	-8	36	99	-7	-3	8	287	263	99	-8	-1	14	302	328	99
-5	-4	7	261	305	99	-6	-2	14	249	243	99	-6	-6	6	319	327	99	-7	-3	7	257	255	99	-8	-1	13	-141	48	99
-5	-4	6	493	471	99	-6	-2	13	130	123	99	-6	-6	5	144	235	99	-7	-3	6	1221	1255	99	-8	-1	12	511	496	99
-5	-4	5	-59	196	99	-6	-2	12	220	238	99	-6	-6	4	317	325	99	-7	-3	5	496	501	99	-8	-1	11	111	59	99
-5	-4	4	378	379	99	-6	-2	11	158	148	99	-6	-6	3	-106	34	99	-7	-3	4	972	981	99	-8	-1	10	-109	36	99
-5	-4	3	56	61	99	-6	-2	10	948	932	99	-6	-6	2	146	179	99	-7	-3	3	312	327	99	-8	-1	9	-60	134	99
-5	-4	2	1064	1078	99	-6	-2	9	122	168	99	-6	-6	1	-33	162	99	-7	-3	2	409	412	99	-8	-1	8	984	991	99
-5	-4	1	248	234	99	-6	-2	8	570	560	99	-6	-7	6	137	173	99	-7	-3	1	833	791	99	-8	-1	7	276	298	99
-5	-5	11	37	116	99	-6	-2	7	81	162	99	-6	-7	5	-148	6	99	-7	-4	13	135	97	99	-8	-1	6	576	581	99
-5	-5	10	356	334	99	-6	-2	6	1292	1297	99	-6	-7	4	302	315	99	-7	-4	12	355	360	99	-8	-1	5	94	84	99
-5	-5	9	210	200	99	-6	-2	5	230	228	99	-6	-7	3	228	210	99	-7	-4	11	210	75	99	-8	-1	4	1645	1598	99
-5	-5	8	257	185	99	-6	-2	4	1367	1406	99	-6	-7	2	439	461	99	-7	-4	10	-142	153	99	-8	-1	3	678	699	99
-5	-5	7	-131	68	99	-6	-2	3	59	21	99	-6	-7	1	137	170	99	-7	-4	9	195	176	99	-8	-1	2	1659	1624	99
-5	-5	6	604	625	99	-6	-2	2	888	921	99	-7	0	14	303	304	99	-7	-4	8	774	768	99	-8	-1	1	300	300	99
-5	-5	5	415	410	99	-6	-2	1	852	818	99	-7	0	12	584	550	99	-7	-4	7	261	289	99	-8	-2	14	244	240	99
-5	-5	4	743	765	99	-6	-3	14	189	204	99	-7	0	10	107	100	99	-7	-4	6	605	582	99	-8	-2	13	168	125	99
-5	-5	3	-32	19	99	-6	-3	13	-199	108	99	-7	0	8	1360	1358	99	-7	-4	5	126	5	99	-8	-2	12	309	276	99
-5	-5	2	409	368	99	-6	-3	12	471	463	99	-7	0	6	1367	1341	99	-7	-4	4	376	409	99	-8	-2	11	230	177	99
-5	-5	1	408	372	99	-6	-3	11	154	42	99	-7	0	4	1836	1802	99	-7	-4	3	62	107	99	-8	-2	10	914	897	99
-5	-6	9	152	113	99	-6	-3	10	71	36	99	-7	0	2	2877	2964	99	-7	-4	2	1039	1047	99	-8	-2	9	94	20	99
-5	-6	8	296	296	99	-6	-3	9	-79	105	99	-7	-1	15	-124	9	99	-7	-4	1	-201	87	99	-8	-2	8	494	486	99
-5	-6	7	-263	68	99	-6	-3	8	892	891	99	-7	-1	14	182	198	99	-7	-5	11	161	111	99	-8	-2	7	158	109	99
-5	-6	6	205	174	99	-6	-3	7	829	849	99	-7	-1	13	133	153	99	-7	-5	10	335	313	99	-8	-2	6	1246	1272	99
-5	-6	5	-144	36	99	-6	-3	6	371	354	99	-7	-1	12	312	302	99	-7	-5	9	194	228	99	-8	-2	5	577	562	99
-5	-6	4	285	257	99	-6	-3	5	231	200	99	-7	-1	11	80	54	99	-7	-5	8	-84	138	99	-8	-2	4	1343	1348	99
-5	-6	3	345	327	99	-6	-3	4	837	869	99	-7	-1	10	1124	1112	99	-7	-5	7	111	27	99	-8	-2	3	79	80	99
-5	-6	2	431	398	99	-6	-3	3	421	403	99	-7	-1	9	-127	34	99	-7	-5	6	673	676	99	-8	-2	2	1065	1059	99
-5	-6	1	231	267	99	-6	-3	2	1912	1944	99	-7	-1	8	90	87	99	-7	-5	5	364	375	99	-8	-2	1	708	695	99
-5	-7	6	271	255	99	-6	-3	1	94	60	99	-7	-1	7	-65	69	99	-7	-5	4	736	717	99	-8	-3	14	79	185	99
-5	-7	5	147	243	99	-6	-4	13	-110	6	99	-7	-1	6	1181	1198	99	-7	-5	3	-238	44	99	-8	-3	13	-92	72	99
-5	-7	4	107	301	99	-6	-4	12	170	183	99	-7	-1	5	91	33	99	-7	-5	2	264	308	99	-8	-3	12	527	483	99
-5	-7	3	130	20	99	-6	-4	11	-151	113	99	-7	-1	4	1653	1709	99	-7	-5	1	548	504	99	-8	-3	11	-135	20	99
-5	-7	2	-27	136	99	-6	-4	10	508	442	99	-7	-1	3	-27	35	99	-7	-6	9	141	195	99	-8	-3	10	26	52	99
-5	-7	1	232	151	99	-6	-4	9	-114	56	99	-7	-1	2	400	411	99	-7	-6	8	308	311	99	-8	-3	9	130	43	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
-8	-3	8	865	841	99	-9	-1	14	132	211	99	-9	-5	9	198	226	99	10	-1	11	142	51	99	11	-3	6	762	751	99
-8	-3	7	802	802	99	-9	-1	13	160	94	99	-9	-5	8	206	147	99	10	-1	12	374	429	99	11	-3	7	242	285	99
-8	-3	6	474	463	99	-9	-1	12	216	209	99	-9	-5	7	-96	29	99	10	-1	13	118	117	99	11	-3	8	-81	96	99
-8	-3	5	-126	99	99	-9	-1	11	109	136	99	-9	-5	6	665	683	99	10	-1	14	218	171	99	11	-3	9	113	163	99
-8	-3	4	858	861	99	-9	-1	10	850	887	99	-9	-5	5	309	295	99	10	0	0	2536	2601	99	11	-3	10	515	502	99
-8	-3	3	527	531	99	-9	-1	9	138	173	99	-9	-5	4	727	732	99	10	0	2	121	150	99	11	-3	11	94	28	99
-8	-3	2	1839	1855	99	-9	-1	8	-106	55	99	-9	-5	3	-73	31	99	10	0	4	1400	1379	99	11	-3	12	48	128	99
-8	-3	1	302	276	99	-9	-1	7	12	80	99	-9	-5	2	349	338	99	10	0	6	1485	1463	99	11	-2	0	317	282	99
-8	-4	13	171	33	99	-9	-1	6	1292	1333	99	-9	-5	1	530	470	99	10	0	8	551	542	99	11	-2	1	159	158	99
-8	-4	12	209	158	99	-9	-1	5	305	326	99	-9	-6	9	-186	99	99	10	0	10	880	869	99	11	-2	2	2202	2175	99
-8	-4	11	177	124	99	-9	-1	4	1792	1822	99	-9	-6	8	299	319	99	10	0	12	184	161	99	11	-2	3	517	529	99
-8	-4	10	445	434	99	-9	-1	3	143	149	99	-9	-6	7	-90	81	99	10	0	14	79	185	99	11	-2	4	936	907	99
-8	-4	9	100	35	99	-9	-1	2	484	471	99	-9	-6	6	138	150	99	11	-7	0	401	411	99	11	-2	5	135	7	99
-8	-4	8	276	219	99	-9	-1	1	1610	1578	99	-9	-6	5	123	8	99	11	-7	1	211	180	99	11	-2	6	717	706	99
-8	-4	7	272	202	99	-9	-2	14	242	274	99	-9	-6	4	256	236	99	11	-7	2	150	99	99	11	-2	7	138	89	99
-8	-4	6	822	832	99	-9	-2	13	126	20	99	-9	-6	3	300	250	99	11	-7	3	151	50	99	11	-2	8	853	860	99
-8	-4	5	151	147	99	-9	-2	12	589	593	99	-9	-6	2	401	456	99	11	-7	4	237	222	99	11	-2	9	-213	25	99
-8	-4	4	761	794	99	-9	-2	11	108	111	99	-9	-6	1	131	148	99	11	-6	0	-14	74	99	11	-2	10	202	66	99
-8	-4	3	130	184	99	-9	-2	10	81	18	99	-9	-7	6	178	182	99	11	-6	1	285	233	99	11	-2	11	-136	82	99
-8	-4	2	395	411	99	-9	-2	9	140	208	99	-9	-7	5	222	203	99	11	-6	2	391	394	99	11	-2	12	338	369	99
-8	-4	1	169	117	99	-9	-2	8	1081	1085	99	-9	-7	4	176	240	99	11	-6	3	218	191	99	11	-2	13	-69	154	99
-8	-5	11	-139	103	99	-9	-2	7	373	416	99	-9	-7	3	-176	34	99	11	-6	4	285	259	99	11	-1	0	2085	2101	99
-8	-5	10	-78	58	99	-9	-2	6	899	897	99	-9	-7	2	246	239	99	11	-6	5	-270	118	99	11	-1	1	45	86	99
-8	-5	9	189	138	99	-9	-2	5	-15	70	99	-9	-7	1	126	136	99	11	-6	6	177	156	99	11	-1	2	689	660	99
-8	-5	8	629	594	99	-9	-2	4	1060	1064	99	-10	0	14	294	286	99	11	-6	7	127	165	99	11	-1	3	63	53	99
-8	-5	7	225	270	99	-9	-2	3	161	149	99	-10	0	12	54	142	99	11	-6	8	283	298	99	11	-1	4	838	863	99
-8	-5	6	386	421	99	-9	-2	2	1831	1856	99	-10	0	10	1059	1099	99	11	-5	0	771	800	99	11	-1	5	217	211	99
-8	-5	5	77	70	99	-9	-2	1	626	598	99	-10	0	8	145	82	99	11	-5	1	423	402	99	11	-1	6	1216	1174	99
-8	-5	4	351	343	99	-9	-3	13	213	142	99	-10	0	6	1922	1944	99	11	-5	2	207	195	99	11	-1	7	242	183	99
-8	-5	3	546	539	99	-9	-3	12	268	201	99	-10	0	4	2925	2967	99	11	-5	3	98	157	99	11	-1	8	419	379	99
-8	-5	2	953	961	99	-9	-3	11	208	157	99	-10	0	2	390	395	99	11	-5	4	669	647	99	11	-1	9	135	48	99
-8	-5	1	260	252	99	-9	-3	10	572	545	99	-10	-1	15	136	18	99	11	-5	5	227	250	99	11	-1	10	748	778	99
-8	-6	9	43	133	99	-9	-3	9	-83	83	99	-10	-1	14	411	394	99	11	-5	6	365	420	99	11	-1	11	-95	26	99
-8	-6	8	129	68	99	-9	-3	8	385	373	99	-10	-1	13	-22	8	99	11	-5	7	96	23	99	11	-1	12	177	123	99
-8	-6	7	64	16	99	-9	-3	7	148	101	99	-10	-1	12	473	467	99	11	-5	8	142	85	99	11	-1	13	102	4	99
-8	-6	6	303	287	99	-9	-3	6	1062	1047	99	-10	-1	11	131	7	99	11	-5	9	118	107	99	11	0	0	116	21	99
-8	-6	5	219	163	99	-9	-3	5	366	390	99	-10	-1	10	46	31	99	11	-5	10	140	251	99	11	0	2	2317	2283	99
-8	-6	4	309	308	99	-9	-3	4	803	823	99	-10	-1	9	-179	41	99	11	-4	0	-48	86	99	11	0	4	896	851	99
-8	-6	3	140	50	99	-9	-3	3	501	530	99	-10	-1	8	1019	1053	99	11	-4	1	195	188	99	11	0	6	1367	1361	99
-8	-6	2	-10	160	99	-9	-3	2	703	701	99	-10	-1	7	247	260	99	11	-4	2	753	753	99	11	0	8	1095	1031	99
-8	-6	1	-130	197	99	-9	-3	1	810	809	99	-10	-1	6	701	732	99	11	-4	3	129	152	99	11	0	10	369	365	99
-8	-7	6	108	169	99	-9	-4	12	402	334	99	-10	-1	5	261	260	99	11	-4	4	591	582	99	11	0	12	385	419	99
-8	-7	5	-99	6	99	-9	-4	11	-155	43	99	-10	-1	4	1119	1127	99	11	-4	5	74	62	99	11	0	14	165	128	99
-8	-7	4	240	263	99	-9	-4	10	177	178	99	-10	-1	3	-66	25	99	11	-4	6	429	435	99	12	-7	0	139	87	99
-8	-7	3	35	223	99	-9	-4	9	47	142	99	-10	-1	2	1789	1757	99	11	-4	7	157	222	99	12	-7	1	220	155	99
-8	-7	2	357	384	99	-9	-4	8	754	774	99	10	-1	1	-106	39	99	11	-4	8	632	651	99	12	-7	2	363	406	99
-8	-7	1	-201	143	99	-9	-4	7	256	317	99	10	-1	2	2219	2209	99	11	-4	9	-52	113	99	12	-7	3	140	141	99
-9	0	14	404	383	99	-9	-4	6	475	477	99	10	-1	3	210	190	99	11	-4	10	168	39	99	12	-7	4	166	189	99
-9	0	12	677	641	99	-9	-4	5	209	166	99	10	-1	4	1520	1510	99	11	-4	11	-64	35	99	12	-6	0	361	405	99
-9	0	10	199	172	99	-9	-4	4	408	408	99	10	-1	5	210	241	99	11	-3	0	1687	1683	99	12	-6	1	275	284	99
-9	0	8	1188	1192	99	-9	-4	3	168	237	99	10	-1	6	766	742	99	11	-3	1	165	164	99	12	-6	2	215	184	99
-9	0	6	1100	1120	99	-9	-4	2	1229	1178	99	10	-1	7	66	107	99	11	-3	2	728	725	99	12	-6	3	164	73	99
-9	0	4	1318	1318	99	-9	-4	1	184	152	99	10	-1	8	911	889	99	11	-3	3	321	357	99	12	-6	4	247	320	99
-9	0	2	2201	2231	99	-9	-5	11	-128	125	99	10	-1	9	-204	79	99	11	-3	4	1035	1004	99	12	-6	5	118	174	99
-9	-1	15	145	23	99	-9	-5	10	286	305	99	10	-1	10	232	244	99	11	-3	5	438	424	99	12	-6	6	242	294	99
12	-6	7	-163	28	99	12	-1	4	1192	1122	99	13	-3	4	1143	1112	99	14	-6	7	101	55	99	14	-1	6	783	792	99
12	-5	0	-160	35	99	12	-1	5	76	64	99	13	-3	5	71	102	99	14	-5	0	-199	42	99	14	-1	7	179	143	99
12	-5	1	342	316	99	12	-1	6	741	715	99	13	-3	6	679	665	99	14	-5	1	407	384	99	14	-1	8	892	906	99
12	-5	2	610	568	99	12	-1	7	117	30	99	13	-3	7	148	175	99	14	-5	2	623	635	99	14	-1	9	-88	56	99
12	-5	3	355	365	99	12	-1	8	937	910	99	13	-3	8	46	58	99	14	-5	3	285	304	99	14	-1	10	170	186	99
12	-5	4	299	300	99	12	-1	9	-108	87	99	13	-3	9	185	223	99	14	-5	4	274	310	99	14	-1	11	161	24	99
12	-5	5	7	95	99	12	-1	10	166	278	99	13	-3	10	469	482	99	14	-5	5	-116	48	99	14	-1	12	390	419	99
12	-5	6	356	303	99	12	-1	11	118	45	99	13	-3	11	-122	84	99	14	-5	6	249	221	99	14	-1	13	135	58	99
12	-5	7	146	193	99	12	-1	12	448	428	99	13	-3	12	145	117	99	14	-5	7	204	183	99	14	0	0	2749	2805	99
12	-5	8	405	415	99	12	-1	13	-67	104	99	13	-2	0	456	477	99	14	-5	8	319	369	99	14	0	2	701	714	99
12	-5	9	117	38	99	12	0	0	2734	2748	99	13	-2	1	121	80	99	14	-5	9	70	26	99	14	0	4	869	885	99
12	-5	10	-238	34	99	12	0	2	471	418	99	13	-2	2	1870	1792	99	14	-4	0	971	910	99	14	0	6	1091	1037	99
12	-4	0	967	941	99	12	0	4	809	818	99	13	-2	3	615	590	99	14	-4	1	286	269	99	14	0	8	462	425	99
12	-4	1	234	231	99	12	0	6	1190	1181	99	13	-2	4	980	934	99	14	-4	2	332	321	99	14	0	10	525	578	99
12	-4	2	282	309	99	12	0	8	660	673	99	13	-2	5	193	92	99	14	-4	3	148	114	99	14	0	12	-120	88	99
12	-4	3	211	213	99	12	0	10	671	684	99	13	-2	6	697	684	99	14	-4	4	762	756	99	15	-7	0	231	245	99
12	-4	4	923	918	99	12	0	12	50	127	99	13	-2	7	141	49	99	14	-4	5	147	168	99	15	-7	1	204	186	99
12	-4	5	215	196	99	13	-7	0	286	304	99	13	-2	8	792	810	99	14	-4	6	496	492	99	15	-7	2	47	18	99
12	-4	6	583	580	99	13	-7	1	198	183	99	13	-2	9	131	54	99	14	-4	7	-209	96	99	15	-6	0	-169	21	99
12	-4	7	128	178	99	13	-7	2	-114	42	99	13	-2	10	-205	57	99	14	-4	8	-161	110	99	15	-6	1	188	162	99
12	-4	8	201	77	99	13	-7	3	-74	63	99	13	-2	11	54	61	99	14	-4	9	-42	183	99	15	-6	2	371	384	99
12	-4	9	-199	133	99	13	-6	0	184	55	99	13	-2	12	397	375	99	14	-4	10	400	404	99	15	-6	3	113	171	99
12	-4	10	417	403	99	13	-6	1	230	199	99	13	-2	13	-99	113	99	14	-4	11	91	131	99	15	-6	4	175	241	99
12	-4	11	121	110	99	13	-6	2	390	384	99	13	-1	0	2306	2351	99	14	-3	0	259	287	99	15	-6	5	-103	78	99
12	-3	0	-106	77	99	13	-6	3	239	209	99	13	-1	1	297	311	99	14	-3	1	254	196	99	15	-6	6	109	121	99
12	-3	1	29	80	99	13	-6	4	197	253	99	13	-1	2	854	892	99	14	-3	2	1164	1144	99	15	-5	0	739	718	99
12	-3	2	1336	1313	99	13	-6	5	161	103	99	13	-1	3	116	193	99	14	-3	3	458	486	99	15	-5	1	167	227	99
12	-3	3	348	329	99	13	-6	6	117	142	99	13	-1	4	918	894	99	14	-3	4	868	826	99	15	-5	2	280	252	99
12	-3	4	677	680	99	13	-6	7	74	172	99	13	-1	5	188	182	99	14	-3	5	259	258	99	15	-5	3	259	255	99
12	-3	5	154	212	99	13	-5	0	745	765	99	13	-1	6	1163	1154	99	14	-3	6	473	466	99	15	-5	4	505	480	99
12	-3	6	369	404	99	13	-5	1	125	193	99	13	-1	7	235	180	99	14	-3	7	174	35	99	15	-5	5	146	215	99
12	-3	7	62	169	99	13	-5	2	43	211	99	13	-1	8	310	292	99	14	-3	8	601	634	99	15	-5	6	286	278	99
12	-3	8	697	714	99	13	-5	3	189	192	99	13	-1	9	152	118	99	14	-3	9	-184	43	99	15	-5	7	142	64	99
12	-3	9	-141	22	99	13	-5	4	542	553	99	13	-1	10	566	572	99	14	-3	10	-86	12	99	15	-5	8	-70	108	99
12	-3	10	-90	32	99	13	-5	5	108	235	99	13	-1	11	170	21	99	14	-3	11	172	33	99	15	-5	9	144	74	99
12	-3	11	20	75	99	13	-5	6	343	361	99	13	-1	12	183	95	99	14	-3	12	286	255	99	15	-4	0	-106	42	99
12	-3	12	147	288	99	13	-5	7	123	54	99	13	-1	13	96	46	99	14	-2	0	1664	1669	99	15	-4	1	-46	142	99
12	-2	0	1893	1928	99	13	-5	8	188	104	99	13	0	0	188	213	99	14	-2	1	482	434	99	15	-4	2	674	694	99
12	-2	1	239	256	99	13	-5	9	-48	79	99	13	0	2	1769	1719	99	14	-2	2	352	342	99	15	-4	3	293	331	99
12	-2	2	755	730	99	13	-4	0	145	30	99	13	0	4	370	344	99	14	-2	3	-125	34	99	15	-4	4	505	495	99
12	-2	3	140	167	99	13	-4	1	260	277	99	13	0	6	1130	1138	99	14	-2	4	1153	1164	99	15	-4	5	-148	46	99
12	-2	4	1283	1258	99	13	-4	2	728	704	99	13	0	8	1191	1162	99	14	-2	5	378	401	99	15	-4	6	397	338	99
12	-2	5	383	363	99	13	-4	3	363	394	99	13	0	10	278	279	99	14	-2	6	880	884	99	15	-4	7	22	143	99
12	-2	6	973	948	99	13	-4	4	540	520	99	13	0	12	391	412	99	14	-2	7	218	280	99	15	-4	8	439	495	99
12	-2	7	254	253	99	13	-4	5	-100	62	99	14	-7	0	147	78	99	14	-2	8	-162	154	99	15	-4	9	212	93	99
12	-2	8	318	258	99	13	-4	6	339	361	99	14	-7	1	86	132	99	14	-2	9	204	220	99	15	-4	10	63	29	99
12	-2	9	186	125	99	13	-4	7	200	176	99	14	-7	2	335	369	99	14	-2	10	537	537	99	15	-3	0	1188	1193	99
12	-2	10	635	637	99	13	-4	8	533	553	99	14	-7	3	113	120	99	14	-2	11	-99	49	99	15	-3	1	158	141	99
12	-2	11	105	40	99	13	-4	9	-23	77	99	14	-6	0	359	383	99	14	-2	12	132	98	99	15	-3	2	422	440	99
12	-2	12	-131	109	99	13	-4	10	111	44	99	14	-6	1	228	223	99	14	-1	0	359	394	99	15	-3	3	243	171	99
12	-2	13	64	45	99	13	-4	11	58	45	99	14	-6	2	194	191	99	14	-1	1	568	543	99	15	-3	4	1031	1027	99
12	-1	0	170	132	99	13	-3	0	1350	1313	99	14	-6	3	120	78	99	14	-1	2	1683	1622	99	15	-3	5	161	154	99
12	-1	1	104	99	99	13	-3	1	126	44	99	14	-6	4	322	294	99	14	-1	3	371	357	99	15	-3	6	680	666	99
12	-1	2	2032	1973	99	13	-3	2	627	614	99	14	-6	5	169	172	99	14	-1	4	879	834	99	15	-3	7	-126	39	99
12	-1	3	512	479	99	13	-3	3	273	285	99	14	-6	6	206	266	99	14	-1	5	152	4	99	15	-3	8	160	58	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
15	-3	9	241	239	99	16	-5	9	-191	25	99	16	0	10	473	464	99	17	-1	1	187	259	99	18	-3	10	-128	44	99
15	-3	10	423	456	99	16	-4	0	947	940	99	16	0	12	-126	103	99	17	-1	2	421	430	99	18	-3	11	150	11	99
15	-3	11	95	78	99	16	-4	1	244	217	99	17	-6	0	-95	3	99	17	-1	3	-83	158	99	18	-2	0	1244	1280	99
15	-2	0	112	201	99	16	-4	2	329	335	99	17	-6	1	88	102	99	17	-1	4	1058	1023	99	18	-2	1	152	105	99
15	-2	1	-54	77	99	16	-4	3	133	204	99	17	-6	2	387	377	99	17	-1	5	-128	126	99	18	-2	2	201	161	99
15	-2	2	1409	1407	99	16	-4	4	655	632	99	17	-6	3	126	145	99	17	-1	6	1197	1125	99	18	-2	3	160	143	99
15	-2	3	493	473	99	16	-4	5	109	82	99	17	-6	4	131	207	99	17	-1	7	-46	39	99	18	-2	4	1076	1037	99
15	-2	4	748	697	99	16	-4	6	442	398	99	17	-6	5	30	37	99	17	-1	8	60	71	99	18	-2	5	-72	99	99
15	-2	5	192	180	99	16	-4	7	147	55	99	17	-6	6	127	111	99	17	-1	9	271	165	99	18	-2	6	794	803	99
15	-2	6	639	628	99	16	-4	8	172	116	99	17	-5	0	702	697	99	17	-1	10	484	448	99	18	-2	7	175	16	99
15	-2	7	-85	73	99	16	-4	9	225	161	99	17	-5	1	272	218	99	17	-1	11	152	12	99	18	-2	8	-132	155	99
15	-2	8	727	695	99	16	-4	10	312	366	99	17	-5	2	223	250	99	17	-1	12	-55	123	99	18	-2	9	197	198	99
15	-2	9	78	50	99	16	-3	0	337	318	99	17	-5	3	183	188	99	17	0	0	445	396	99	18	-2	10	385	436	99
15	-2	10	177	50	99	16	-3	1	308	280	99	17	-5	4	431	437	99	17	0	2	1543	1583	99	18	-2	11	-226	14	99
15	-2	11	103	24	99	16	-3	2	1041	992	99	17	-5	5	136	196	99	17	0	4	644	624	99	18	-2	12	-253	108	99
15	-2	12	311	368	99	16	-3	3	616	642	99	17	-5	6	303	242	99	17	0	6	647	667	99	18	-1	0	358	369	99
15	-1	0	2075	2047	99	16	-3	4	858	832	99	17	-5	7	128	82	99	17	0	8	672	673	99	18	-1	1	-57	176	99
15	-1	1	241	239	99	16	-3	5	140	154	99	17	-5	8	172	85	99	17	0	10	127	36	99	18	-1	2	1303	1302	99
15	-1	2	624	609	99	16	-3	6	428	421	99	17	-4	0	203	105	99	17	0	12	394	456	99	18	-1	3	267	253	99
15	-1	3	199	183	99	16	-3	7	-106	51	99	17	-4	1	279	199	99	18	-6	0	372	314	99	18	-1	4	660	658	99
15	-1	4	983	938	99	16	-3	8	531	564	99	17	-4	2	700	699	99	18	-6	1	142	170	99	18	-1	5	110	87	99
15	-1	5	138	134	99	16	-3	9	201	52	99	17	-4	3	370	321	99	18	-6	2	144	199	99	18	-1	6	497	472	99
15	-1	6	1291	1260	99	16	-3	10	-150	13	99	17	-4	4	569	507	99	18	-6	3	-124	115	99	18	-1	7	-241	38	99
15	-1	7	188	85	99	16	-3	11	132	11	99	17	-4	5	-157	23	99	18	-6	4	316	247	99	18	-1	8	649	655	99
15	-1	8	226	199	99	16	-2	0	1484	1477	99	17	-4	6	307	292	99	18	-6	5	203	141	99	18	-1	9	-223	148	99
15	-1	9	102	176	99	16	-2	1	228	215	99	17	-4	7	125	107	99	18	-5	0	218	216	99	18	-1	10	142	33	99
15	-1	10	470	470	99	16	-2	2	86	192	99	17	-4	8	438	448	99	18	-5	1	196	121	99	18	-1	11	-120	3	99
15	-1	11	141	9	99	16	-2	3	-229	14	99	17	-4	9	-148	81	99	18	-5	2	629	568	99	18	-1	12	315	385	99
15	-1	12	146	83	99	16	-2	4	1246	1240	99	17	-4	10	85	32	99	18	-5	3	210	175	99	18	0	0	2128	2149	99
15	-1	13	158	60	99	16	-2	5	154	68	99	17	-3	0	1044	1064	99	18	-5	4	320	329	99	18	0	2	295	271	99
15	0	0	442	399	99	16	-2	6	833	835	99	17	-3	1	146	78	99	18	-5	5	29	49	99	18	0	4	1065	1049	99
15	0	2	1776	1792	99	16	-2	7	244	192	99	17	-3	2	181	238	99	18	-5	6	143	180	99	18	0	6	968	977	99
15	0	4	362	318	99	16	-2	8	259	156	99	17	-3	3	267	223	99	18	-5	7	182	195	99	18	0	8	275	266	99
15	0	6	952	929	99	16	-2	9	33	246	99	17	-3	4	838	816	99	18	-5	8	279	314	99	18	0	10	538	470	99
15	0	8	888	899	99	16	-2	10	441	455	99	17	-3	5	148	178	99	18	-4	0	976	962	99	18	0	12	121	122	99
15	0	10	-38	145	99	16	-2	11	-215	47	99	17	-3	6	546	594	99	18	-4	1	317	306	99	19	-6	0	221	8	99
15	0	12	452	453	99	16	-2	12	146	114	99	17	-3	7	-194	38	99	18	-4	2	424	412	99	19	-6	1	-48	39	99
16	-7	0	-268	41	99	16	-1	0	430	480	99	17	-3	8	-136	91	99	18	-4	3	264	146	99	19	-6	2	273	324	99
16	-7	1	108	118	99	16	-1	1	468	453	99	17	-3	9	116	249	99	18	-4	4	533	518	99	19	-6	3	25	114	99
16	-6	0	407	363	99	16	-1	2	1327	1324	99	17	-3	10	316	435	99	18	-4	5	113	126	99	19	-6	4	99	187	99
16	-6	1	104	172	99	16	-1	3	476	480	99	17	-3	11	-218	46	99	18	-4	6	253	314	99	19	-6	5	132	15	99
16	-6	2	39	199	99	16	-1	4	706	685	99	17	-2	0	-152	12	99	18	-4	7	-157	41	99	19	-5	0	666	635	99
16	-6	3	160	112	99	16	-1	5	-142	79	99	17	-2	1	210	150	99	18	-4	8	-303	113	99	19	-5	1	173	176	99
16	-6	4	290	253	99	16	-1	6	607	611	99	17	-2	2	1164	1186	99	18	-4	9	84	125	99	19	-5	2	172	236	99
16	-6	5	103	147	99	16	-1	7	-163	40	99	17	-2	3	342	360	99	18	-4	10	302	337	99	19	-5	3	56	140	99
16	-6	6	194	233	99	16	-1	8	877	859	99	17	-2	4	644	611	99	18	-3	0	170	191	99	19	-5	4	440	409	99
16	-5	0	-116	109	99	16	-1	9	167	50	99	17	-2	5	75	153	99	18	-3	1	482	439	99	19	-5	5	94	165	99
16	-5	1	134	231	99	16	-1	10	138	86	99	17	-2	6	646	649	99	18	-3	2	808	852	99	19	-5	6	162	225	99
16	-5	2	605	623	99	16	-1	11	-194	5	99	17	-2	7	-240	55	99	18	-3	3	356	368	99	19	-5	7	222	84	99
16	-5	3	157	285	99	16	-1	12	418	424	99	17	-2	8	601	614	99	18	-3	4	674	659	99	19	-5	8	-271	50	99
16	-5	4	354	339	99	16	0	0	2699	2643	99	17	-2	9	257	164	99	18	-3	5	-167	50	99	19	-4	0	-128	132	99
16	-5	5	-61	8	99	16	0	2	737	730	99	17	-2	10	-224	10	99	18	-3	6	437	436	99	19	-4	1	236	191	99
16	-5	6	120	199	99	16	0	4	956	902	99	17	-2	11	170	29	99	18	-3	7	136	65	99	19	-4	2	714	684	99
16	-5	7	165	207	99	16	0	6	925	910	99	17	-2	12	271	319	99	18	-3	8	504	512	99	19	-4	3	373	319	99
16	-5	8	294	339	99	16	0	8	219	311	99	17	-1	0	1689	1662	99	18	-3	9	267	119	99	19	-4	4	456	462	99
19	-4	5	-86	55	99	20	-5	2	513	492	99	20	0	8	76	184	99	21	-1	6	767	758	99	22	-1	1	-124	74	99
19	-4	6	336	276	99	20	-5	3	227	140	99	20	0	10	475	463	99	21	-1	7	29	35	99	22	-1	2	1171	1252	99
19	-4	7	-145	134	99	20	-5	4	286	279	99	20	0	12	46	161	99	21	-1	8	217	216	99	22	-1	3	-96	18	99
19	-4	8	392	416	99	20	-5	5	136	70	99	21	-6	0	-69	14	99	21	-1	9	-125	37	99	22	-1	4	724	744	99
19	-4	9	142	50	99	20	-5	6	160	189	99	21	-6	1	159	26	99	21	-1	10	461	472	99	22	-1	5	248	219	99
19	-3	0	1008	1001	99	20	-5	7	225	154	99	21	-6	2	316	270	99	21	-1	11	117	34	99	22	-1	6	378	382	99
19	-3	1	-62	160	99	20	-4	0	867	867	99	21	-6	3	99	104	99	21	0	0	193	185	99	22	-1	7	177	69	99
19	-3	2	-81	111	99	20	-4	1	291	276	99	21	-6	4	184	167	99	21	0	2	1638	1684	99	22	-1	8	422	487	99
19	-3	3	136	107	99	20	-4	2	371	385	99	21	-5	0	496	514	99	21	0	4	797	798	99	22	-1	9	189	122	99
19	-3	4	681	700	99	20	-4	3	-129	74	99	21	-5	1	199	187	99	21	0	6	323	255	99	22	-1	10	171	47	99
19	-3	5	95	85	99	20	-4	4	495	469	99	21	-5	2	-78	178	99	21	0	8	401	398	99	22	-1	11	90	29	99
19	-3	6	569	548	99	20	-4	5	149	147	99	21	-5	3	20	100	99	21	0	10	-189	23	99	22	0	0	876	876	99
19	-3	7	78	9	99	20	-4	6	315	277	99	21	-5	4	308	284	99	22	-6	0	234	298	99	22	0	2	96	72	99
19	-3	8	139	112	99	20	-4	7	145	104	99	21	-5	5	-158	139	99	22	-6	1	166	173	99	22	0	4	767	814	99
19	-3	9	-142	153	99	20	-4	8	276	64	99	21	-5	6	-61	218	99	22	-6	2	81	170	99	22	0	6	656	665	99
19	-3	10	344	371	99	20	-4	9	-159	121	99	21	-5	7	-172	51	99	22	-6	3	-204	72	99	22	0	8	276	226	99
19	-2	0	-124	113	99	20	-3	0	57	85	99	21	-4	0	208	156	99	22	-5	0	-172	183	99	22	0	10	364	419	99
19	-2	1	-201	22	99	20	-3	1	397	407	99	21	-4	1	-128	129	99	22	-5	1	-107	86	99	23	-6	0	103	15	99
19	-2	2	1005	1002	99	20	-3	2	797	798	99	21	-4	2	596	591	99	22	-5	2	379	376	99	23	-6	1	152	19	99
19	-2	3	294	349	99	20	-3	3	214	227	99	21	-4	3	133	230	99	22	-5	3	-222	121	99	23	-6	2	150	200	99
19	-2	4	703	674	99	20	-3	4	532	529	99	21	-4	4	412	454	99	22	-5	4	261	232	99	23	-5	0	482	449	99
19	-2	5	276	231	99	20	-3	5	199	153	99	21	-4	5	156	29	99	22	-5	5	165	32	99	23	-5	1	159	182	99
19	-2	6	543	530	99	20	-3	6	367	412	99	21	-4	6	307	291	99	22	-5	6	-78	207	99	23	-5	2	-70	82	99
19	-2	7	131	76	99	20	-3	7	142	78	99	21	-4	7	155	106	99	22	-4	0	861	812	99	23	-5	3	-122	106	99
19	-2	8	527	547	99	20	-3	8	460	489	99	21	-4	8	357	354	99	22	-4	1	129	190	99	23	-5	4	317	374	99
19	-2	9	144	226	99	20	-3	9	-186	127	99	21	-4	9	102	82	99	22	-4	2	279	257	99	23	-5	5	-160	99	99
19	-2	10	-130	7	99	20	-3	10	99	21	99	21	-3	0	989	1010	99	22	-4	3	131	73	99	23	-5	6	255	215	99
19	-2	11	-203	12	99	20	-2	0	1353	1296	99	21	-3	1	218	203	99	22	-4	4	401	442	99	23	-4	0	252	148	99
19	-1	0	1247	1235	99	20	-2	1	157	109	99	21	-3	2	210	191	99	22	-4	5	296	203	99	23	-4	1	116	66	99
19	-1	1	-65	42	99	20	-2	2	-167	136	99	21	-3	3	158	11	99	22	-4	6	-8	298	99	23	-4	2	442	479	99
19	-1	2	316	298	99	20	-2	3	421	374	99	21	-3	4	559	570	99	22	-4	7	145	127	99	23	-4	3	129	211	99
19	-1	3	50	35	99	20	-2	4	712	722	99	21	-3	5	188	227	99	22	-4	8	-81	25	99	23	-4	4	401	415	99
19	-1	4	1028	982	99	20	-2	5	207	174	99	21	-3	6	412	459	99	22	-3	0	166	84	99	23	-4	5	-251	5	99
19	-1	5	215	91	99	20	-2	6	676	645	99	21	-3	7	31	34	99	22	-3	1	250	280	99	23	-4	6	-122	263	99
19	-1	6	877	894	99	20	-2	7	81	9	99	21	-3	8	210	106	99	22	-3	2	706	686	99	23	-4	7	-206	76	99
19	-1	7	-179	18	99	20	-2	8	198	177	99	21	-3	9	-151	70	99	22	-3	3	101	137	99	23	-4	8	249	285	99
19	-1	8	277	140	99	20	-2	9	102	126	99	21	-3	10	311	338	99	22	-3	4	400	399	99	23	-3	0	873	875	99
19	-1	9	197	92	99	20	-2	10	410	424	99	21	-2	0	-164	53	99	22	-3	5	-166	104	99	23	-3	1	60	49	99
19	-1	10	461	449	99	20	-2	11	-122	38	99	21	-2	1	165	35	99	22	-3	6	342	370	99	23	-3	2	179	264	99
19	-1	11	-102	14	99	20	-1	0	336	304	99	21	-2	2	922	893	99	22	-3	7	142	92	99	23	-3	3	162	55	99
19	-1	12	-95	159	99	20	-1	1	169	92	99	21	-2	3	162	101	99	22	-3	8	430	453	99	23	-3	4	513	486	99
19	0	0	271	144	99	20	-1	2	1320	1300	99	21	-2	4	548	517	99	22	-3	9	-49	94	99	23	-3	5	318	229	99
19	0	2	1634	1651	99	20	-1	3	-50	16	99	21	-2	5	200	169	99	22	-3	10	229	9	99	23	-3	6	337	377	99
19	0	4	722	698	99	20	-1	4	698	707	99	21	-2	6	304	424	99	22	-2	0	1273	1249	99	23	-3	7	168	89	99
19	0	6	412	347	99	20	-1	5	266	267	99	21	-2	7	-97	58	99	22	-2	1	173	219	99	23	-3	8	154	75	99
19	0	8	498	517	99	20	-1	6	391	425	99	21	-2	8	513	488	99	22	-2	2	111	186	99	23	-3	9	-199	51	99
19	0	10	-101	70	99	20	-1	7	-209	28	99	21	-2	9	129	219	99	22	-2	3	249	298	99	23	-2	6	-93	8	99
19	0	12	374	428	99	20	-1	8	574	543	99	21	-2	10	166	21	99	22	-2	4	548	537	99	23	-2	1	98	31	99
20	-6	0	329	316	99	20	-1	9	216	148	99	21	-2	11	-274	39	99	22	-2	5	274	187	99	23	-2	2	1048	1056	99
20	-6	1	165	159	99	20	-1	10	112	9	99	21	-1	0	1130	1092	99	22	-2	6	521	517	99	23	-2	3	161	24	99
20	-6	2	171	177	99	20	-1	11	-189	6	99	21	-1	1	122	43	99	22	-2	7	112	13	99	23	-2	4	328	396	99
20	-6	3	66	90	99	20	0	0	1277	1261	99	21	-1	2	256	231	99	22	-2	8	187	184	99	23	-2	5	185	120	99
20	-6	4	211	251	99	20	0	2	145	258	99	21	-1	3	-218	122	99	22	-2	9	-94	24	99	23	-2	6	388	366	99
20	-5	0	248	214	99	20	0	4	960	1011	99	21	-1	4	831	864	99	22	-2	10	206	377	99	23	-2	7	-79	73	99
20	-5	1	186	111	99	20	0	6	900	883	99	21	-1	5	80	99	99	22	-1	0	243	177	99	23	-2	8	437	439	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
23	-2	9	-147	121	99	24	-2	9	-204	11	99	25	-1	3	143	141	99	26	0	0	689	741	99	28	-4	3	96	60	99
23	-2	10	-186	31	99	24	-2	10	334	326	99	25	-1	4	377	403	99	26	0	2	-119	311	99	28	-4	4	322	337	99
23	-1	0	897	896	99	24	-1	0	145	30	99	25	-1	5	151	153	99	26	0	4	487	473	99	28	-4	5	122	127	99
23	-1	1	-112	56	99	24	-1	1	-62	102	99	25	-1	6	446	503	99	26	0	6	470	565	99	28	-3	0	-69	41	99
23	-1	2	275	358	99	24	-1	2	1001	1040	99	25	-1	7	181	44	99	26	0	8	163	214	99	28	-3	1	222	72	99
23	-1	3	230	83	99	24	-1	3	223	80	99	25	-1	8	-117	221	99	26	0	10	261	270	99	28	-3	2	396	459	99
23	-1	4	519	568	99	24	-1	4	601	566	99	25	-1	9	-120	23	99	27	-5	0	265	317	99	28	-3	3	293	109	99
23	-1	5	75	140	99	24	-1	5	174	112	99	25	-1	10	328	337	99	27	-5	1	161	112	99	28	-3	4	238	304	99
23	-1	6	626	634	99	24	-1	6	346	328	99	25	0	0	363	211	99	27	-5	2	-37	21	99	28	-3	5	106	19	99
23	-1	7	86	13	99	24	-1	7	-135	11	99	25	0	2	1164	1184	99	27	-5	3	181	52	99	28	-3	6	133	238	99
23	-1	8	300	249	99	24	-1	8	486	475	99	25	0	4	423	458	99	27	-4	0	-211	12	99	28	-3	7	822	748	99
23	-1	9	29	12	99	24	-1	9	-238	65	99	25	0	6	338	402	99	27	-4	1	-171	19	99	28	-2	0	822	748	99
23	-1	10	474	426	99	24	-1	10	-136	82	99	25	0	8	337	468	99	27	-4	2	357	390	99	28	-2	1	186	17	99
23	-1	11	-24	25	99	24	0	0	979	961	99	25	0	10	124	101	99	27	-4	3	-55	158	99	28	-2	2	-183	194	99
23	0	0	334	283	99	24	0	2	-212	127	99	26	-5	0	151	27	99	27	-4	4	291	283	99	28	-2	3	154	61	99
23	0	2	1333	1417	99	24	0	4	691	724	99	26	-5	1	55	82	99	27	-4	5	247	21	99	28	-2	4	340	424	99
23	0	4	565	641	99	24	0	6	511	586	99	26	-5	2	197	215	99	27	-4	6	187	210	99	28	-2	5	113	157	99
23	0	6	384	320	99	24	0	8	97	247	99	26	-5	3	-164	181	99	27	-3	0	773	744	99	28	-2	6	385	392	99
23	0	8	397	417	99	24	0	10	261	351	99	26	-5	4	181	194	99	27	-3	1	132	55	99	28	-2	7	-208	5	99
23	0	10	158	48	99	25	-5	0	281	375	99	26	-4	0	527	529	99	27	-3	2	120	187	99	28	-2	8	46	63	99
24	-6	0	155	270	99	25	-5	1	186	155	99	26	-4	1	-109	55	99	27	-3	3	173	103	99	28	-1	0	253	144	99
24	-6	1	105	166	99	25	-5	2	241	53	99	26	-4	2	234	53	99	27	-3	4	-171	353	99	28	-1	1	149	195	99
24	-5	0	207	103	99	25	-5	3	192	92	99	26	-4	3	106	107	99	27	-3	5	265	202	99	28	-1	2	651	741	99
24	-5	1	57	88	99	25	-5	4	236	325	99	26	-4	4	432	402	99	27	-3	6	-195	304	99	28	-1	3	-149	39	99
24	-5	2	274	291	99	25	-5	5	177	92	99	26	-4	5	77	150	99	27	-3	7	-137	21	99	28	-1	4	151	256	99
24	-5	3	133	145	99	25	-4	0	-191	54	99	26	-4	6	292	295	99	27	-2	0	211	120	99	28	-1	5	191	110	99
24	-5	4	335	215	99	25	-4	1	-167	25	99	26	-3	0	-110	57	99	27	-2	1	-92	128	99	28	-1	6	194	314	99
24	-5	5	190	15	99	25	-4	2	443	432	99	26	-3	1	122	34	99	27	-2	2	645	689	99	28	-1	7	-176	13	99
24	-4	0	641	711	99	25	-4	3	189	161	99	26	-3	2	529	503	99	27	-2	3	294	113	99	28	-1	8	371	394	99
24	-4	1	-111	92	99	25	-4	4	277	306	99	26	-3	3	188	121	99	27	-2	4	290	327	99	28	-1	9	131	10	99
24	-4	2	176	132	99	25	-4	5	-197	10	99	26	-3	4	303	333	99	27	-2	5	-247	69	99	28	0	0	807	819	99
24	-4	3	174	85	99	25	-4	6	177	234	99	26	-3	5	120	47	99	27	-2	6	275	279	99	28	0	2	-156	207	99
24	-4	4	437	400	99	25	-4	7	170	65	99	26	-3	6	304	298	99	27	-2	7	-129	29	99	28	0	4	405	407	99
24	-4	5	139	225	99	25	-3	0	820	799	99	26	-3	7	-213	32	99	27	-2	8	207	340	99	28	0	6	457	466	99
24	-4	6	283	308	99	25	-3	1	-151	32	99	26	-3	8	304	275	99	27	-1	0	800	848	99	28	0	8	-16	139	99
24	-4	7	180	112	99	25	-3	2	320	224	99	26	-2	0	919	922	99	27	-1	1	-215	29	99	29	-5	0	303	329	99
24	-3	0	79	106	99	25	-3	3	152	180	99	26	-2	1	123	66	99	27	-1	2	285	389	99	29	-5	1	150	78	99
24	-3	1	-29	158	99	25	-3	4	362	416	99	26	-2	2	278	341	99	27	-1	3	136	28	99	29	-4	0	-119	13	99
24	-3	2	551	548	99	25	-3	5	207	228	99	26	-2	3	-131	13	99	27	-1	4	375	461	99	29	-4	1	-163	23	99
24	-3	3	124	73	99	25	-3	6	-187	345	99	26	-2	4	448	424	99	27	-1	5	123	107	99	29	-4	2	263	304	99
24	-3	4	361	329	99	25	-3	7	-114	56	99	26	-2	5	-191	212	99	27	-1	6	447	452	99	29	-4	3	-169	168	99
24	-3	5	196	96	99	25	-3	8	190	40	99	26	-2	6	425	408	99	27	-1	7	-122	15	99	29	-4	4	236	256	99
24	-3	6	326	359	99	25	-2	0	-339	53	99	26	-2	7	104	48	99	27	-1	8	181	168	99	29	-4	5	-170	9	99
24	-3	7	-220	45	99	25	-2	1	178	71	99	26	-2	8	117	117	99	27	-1	9	-215	11	99	29	-3	0	556	576	99
24	-3	8	273	377	99	25	-2	2	918	916	99	26	-2	9	-257	14	99	27	0	0	66	62	99	29	-3	1	-208	41	99
24	-3	9	251	81	99	25	-2	3	144	39	99	26	-1	0	-158	21	99	27	0	2	734	802	99	29	-3	2	-206	129	99
24	-2	0	1126	1100	99	25	-2	4	415	424	99	26	-1	1	139	86	99	27	0	4	225	228	99	29	-3	3	-252	15	99
24	-2	1	140	135	99	25	-2	5	98	47	99	26	-1	2	935	959	99	27	0	6	316	346	99	29	-3	4	181	313	99
24	-2	2	322	331	99	25	-2	6	326	342	99	26	-1	3	-175	54	99	27	0	8	317	480	99	29	-3	5	172	92	99
24	-2	3	198	120	99	25	-2	7	-167	30	99	26	-1	4	201	288	99	28	-5	0	-212	9	99	29	-3	6	289	293	99
24	-2	4	539	487	99	25	-2	8	379	382	99	26	-1	5	-142	13	99	28	-5	1	61	72	99	29	-2	0	115	121	99
24	-2	5	256	265	99	25	-2	9	-151	46	99	26	-1	6	325	329	99	28	-5	2	205	205	99	29	-2	1	-169	135	99
24	-2	6	404	417	99	25	-1	0	857	893	99	26	-1	7	172	15	99	28	-4	0	470	412	99	29	-2	2	648	654	99
24	-2	7	-122	26	99	25	-1	1	199	91	99	26	-1	8	394	441	99	28	-4	1	-316	65	99	29	-2	3	242	174	99
24	-2	8	204	151	99	25	-1	2	201	292	99	26	-1	9	184	4	99	28	-4	2	-50	36	99	29	-2	4	-229	262	99
29	-2	5	104	72	99	31	-4	3	252	124	99	33	-3	2	58	67	99	36	-1	0	-76	56	99	-10	-4	2	306	331	99
29	-2	6	-34	231	99	31	-3	0	500	444	99	33	-3	3	94	60	99	36	-1	1	-117	4	99	-10	-4	1	97	51	99
29	-2	7	-263	11	99	31	-3	1	194	39	99	33	-3	4	224	212	99	36	-1	2	173	381	99	-10	-5	11	105	93	99
29	-2	8	-28	255	99	31	-3	2	-216	86	99	33	-2	0	123	64	99	36	-1	3	-279	31	99	-10	-5	10	-51	49	99
29	-1	0	617	658	99	31	-3	3	313	15	99	33	-2	1	166	102	99	36	0	0	178	331	99	-10	-5	9	-77	169	99
29	-1	1	278	72	99	31	-3	4	214	268	99	33	-2	2	407	401	99	36	0	2	-326	104	99	-10	-5	8	487	522	99
29	-1	2	355	369	99	31	-3	5	123	49	99	33	-2	3	296	50	99	36	0	4	8	291	99	-10	-5	7	275	254	99
29	-1	3	-290	54	99	31	-2	0	-281	66	99	33	-2	4	173	191	99	37	-2	0	-247	13	99	-10	-5	6	326	283	99
29	-1	4	424	411	99	31	-2	1	-18	132	99	33	-2	5	146	16	99	37	-2	1	191	15	99	-10	-5	5	167	47	99
29	-1	5	-99	32	99	31	-2	2	470	482	99	33	-1	0	440	479	99	37	-1	0	43	337	99	-10	-5	4	527	454	99
29	-1	6	210	443	99	31	-2	3	229	137	99	33	-1	1	128	30	99	37	-1	1	-242	12	99	-10	-5	3	390	378	99
29	-1	7	-187	6	99	31	-2	4	283	259	99	33	-1	2	177	189	99	37	-1	2	-58	115	99	-10	-5	2	1018	1009	99
29	-1	8	162	112	99	31	-2	5	-134	50	99	33	-1	3	144	11	99	37	0	0	138	125	99	-10	-5	1	81	164	99
29	0	0	137	65	99	31	-2	6	163	199	99	33	-1	4	355	402	99	37	0	2	-212	332	99	-10	-6	9	140	151	99
29	0	2	580	618	99	31	-1	0	589	596	99	33	-1	5	-176	38	99	38	-1	0	209	73	99	-10	-6	8	-50	85	99
29	0	4	178	70	99	31	-1	1	131	17	99	33	-1	6	179	296	99	38	-1	1	200	4	99	-10	-6	7	-71	17	99
29	0	6	296	301	99	31	-1	2	47	222	99	33	0	0	225	35	99	38	0	0	135	324	99	-10	-6	6	238	255	99
29	0	8	212	407	99	31	-1	3	137	21	99	33	0	2	385	426	99	-10	-1	1	431	440	99	-10	-6	5	110	162	99
30	-4	0	273	378	99	31	-1	4	450	429	99	33	0	4	-232	160	99	-10	-2	14	284	250	99	-10	-6	4	240	290	99
30	-4	1	73	80	99	31	-1	5	218	21	99	33	0	6	-245	106	99	-10	-2	13	72	52	99	-10	-6	3	-84	52	99
30	-4	2	-226	26	99	31	-1	6	369	361	99	34	-3	0	227	45	99	-10	-2	12	215	244	99	-10	-6	2	125	141	99
30	-4	3	-267	36	99	31	-1	7	64	25	99	34	-3	1	-203	87	99	-10	-2	11	106	149	99	-10	-6	1	204	202	99
30	-4	4	356	237	99	31	0	0	122	77	99	34	-3	2	278	328	99	-10	-2	10	916	933	99	-10	-7	5	-143	3	99
30	-3	0	-286	27	99	31	0	2	532	531	99	34	-3	3	-264	67	99	-10	-2	9	62	114	99	-10	-7	4	206	220	99
30	-3	1	153	127	99	31	0	4	-117	110	99	34	-2	0	368	345	99	-10	-2	8	388	372	99	-10	-7	3	58	219	99
30	-3	2	488	459	99	31	0	6	182	196	99	34	-2	1	61	65	99	-10	-2	7	198	159	99	-10	-7	2	310	290	99
30	-3	3	-224	98	99	32	-4	0	374	360	99	34	-2	2	158	32	99	-10	-2	6	1296	1302	99	-10	-7	1	103	132	99
30	-3	4	87	284	99	32	-4	1	-138	82	99	34	-2	3	-256	47	99	-10	-2	5	474	462	99	-11	0	14	397	418	99
30	-3	5	169	4	99	32	-4	2	151	44	99	34	-2	4	363	298	99	-10	-2	4	1198	1257	99	-11	0	12	657	607	99
30	-3	6	170	176	99	32	-3	0	160	52	99	34	-1	0	-194	8	99	-10	-2	3	73	15	99	-11	0	10	265	232	99
30	-2	0	535	542	99	32	-3	1	-248	137	99	34	-1	1	202	76	99	-10	-2	2	781	783	99	-11	0	8	1261	1288	99
30	-2	1	-182	26	99	32	-3	2	257	407	99	34	-1	2	401	412	99	-10	-2	1	833	810	99	-11	0	6	868	893	99
30	-2	2	232	133	99	32	-3	3	161	107	99	34	-1	3	284	48	99	-10	-3	13	-66	58	99	-11	0	4	1968	1979	99
30	-2	3	-255	34	99	32	-3	4	212	262	99	34	-1	4	212	242	99	-10	-3	12	496	471	99	-11	0	2	2076	2001	99
30	-2	4	444	434	99	32	-2	0	430	413	99	34	-1	5	210	15	99	-10	-3	11	-108	31	99	-11	-1	14	319	273	99
30	-2	5	150	113	99	32	-2	1	87	43	99	34	0	0	298	381	99	-10	-3	10	79	118	99	-11	-1	13	112	21	99
30	-2	6	136	356	99	32	-2	2	72	42	99	34	0	2	179	154	99	-10	-3	9	116	81	99	-11	-1	12	-79	171	99
30	-2	7	-112	12	99	32	-2	3	114	52	99	34	0	4	448	411	99	-10	-3	8	690	672	99	-11	-1	11	254	231	99
30	-1	0	172	128	99	32	-2	4	205	354	99	35	-3	0	234	322	99	-10	-3	7	456	481	99	-11	-1	10	750	704	99
30	-1	1	-14	189	99	32	-2	5	97	53	99	35	-3	1	76	58	99	-10	-3	6	647	631	99	-11	-1	9	334	319	99
30	-1	2	498	497	99	32	-2	6	261	314	99	35	-2	0	-235	6	99	-10	-3	5	289	254	99	-11	-1	8	252	214	99
30	-1	3	-115	113	99	32	-1	0	-141	93	99	35	-2	1	-132	74	99	-10	-3	4	916	926	99	-11	-1	7	240	245	99
30	-1	4	185	188	99	32	-1	1	-67	160	99	35	-2	2	358	354	99	-10	-3	3	602	574	99	-11	-1	6	1156	1199	99
30	-1	5	94	70	99	32	-1	2	394	465	99	35	-2	3	-307	14	99	-10	-3	2	1416	1433	99	-11	-1	5	314	326	99
30	-1	6	155	201	99	32	-1	3	212	102	99	35	-1	0	345	402	99	-10	-3	1	529	498	99	-11	-1	4	1552	1592	99
30	-1	7	-20	27	99	32	-1	4	230	189	99	35	-1	1	134	6	99	-10	-4	12	-106	135	99	-11	-1	3	-23	46	99
30	-1	8	229	331	99	32	-1	5	-239	18	99	35	-1	2	-173	129	99	-10	-4	11	131	115	99	-11	-1	2	519	518	99
30	0	0	710	745	99	32	-1	6	203	149	99	35	-1	3	163	18	99	-10	-4	10	455	417	99	-11	-1	1	677	628	99
30	0	2	353	265	99	32	0	0	472	490	99	35	-1	4	234	304	99	-10	-4	9	20	28	99	-11	-2	14	153	249	99
30	0	4	490	485	99	32	0	2	85	235	99	35	0	0	-318	84	99	-10	-4	8	205	202	99	-11	-2	13	109	31	99
30	0	6	270	411	99	32	0	4	384	444	99	35	0	2	395	376	99	-10	-4	7	109	84	99	-11	-2	12	523	528	99
30	0	8	147	158	99	32	0	6	244	327	99	35	0	4	185	243	99	-10	-4	6	789	827	99	-11	-2	11	63	144	99
31	-4	0	148	13	99	33	-4	0	28	16	99	36	-2	0	310	297	99	-10	-4	5	342	275	99	-11	-2	10	-132	95	99
31	-4	1	-123	26	99	33	-3	0	337	375	99	36	-2	1	269	113	99	-10	-4	4	780	812	99	-11	-2	9	-130	32	99
31	-4	2	-161	285	99	33	-3	1	274	165	99	36	-2	2	-161	80	99	-10	-4	3	213	164	99	-11	-2	8	1145	1140	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
-11	-2	7	415	416	99	-11	-7	2	224	202	99	-12	-4	7	51	44	99	-13	-2	12	442	451	99	-13	-6	1	-79	56	99
-11	-2	6	1230	1211	99	-11	-7	1	74	133	99	-12	-4	6	812	835	99	-13	-2	11	122	94	99	-13	-7	4	280	279	99
-11	-2	5	99	151	99	-12	0	14	352	375	99	-12	-4	5	168	180	99	-13	-2	10	213	202	99	-13	-7	3	44	12	99
-11	-2	4	1008	1050	99	-12	0	12	-74	103	99	-12	-4	4	652	681	99	-13	-2	9	133	61	99	-13	-7	2	203	168	99
-11	-2	3	-33	90	99	-12	0	10	856	907	99	-12	-4	3	147	247	99	-13	-2	8	1180	1181	99	-13	-7	1	-159	137	99
-11	-2	2	1315	1311	99	-12	0	8	-134	51	99	-12	-4	2	149	163	99	-13	-2	7	251	227	99	-14	0	14	434	439	99
-11	-2	1	322	294	99	-12	0	6	1662	1712	99	-12	-4	1	99	116	99	-13	-2	6	1098	1085	99	-14	0	12	-90	129	99
-11	-3	13	103	124	99	-12	0	4	1994	1987	99	-12	-5	11	126	101	99	-13	-2	5	336	314	99	-14	0	10	915	934	99
-11	-3	12	224	192	99	-12	0	2	344	321	99	-12	-5	10	144	17	99	-13	-2	4	837	845	99	-14	0	8	177	111	99
-11	-3	11	274	249	99	-12	-1	14	416	386	99	-12	-5	9	119	162	99	-13	-2	3	409	405	99	-14	0	6	1218	1238	99
-11	-3	10	653	623	99	-12	-1	13	46	30	99	-12	-5	8	459	441	99	-13	-2	2	1406	1416	99	-14	0	4	1318	1331	99
-11	-3	9	202	205	99	-12	-1	12	480	449	99	-12	-5	7	272	297	99	-13	-2	1	480	482	99	-14	0	2	1477	1441	99
-11	-3	8	409	349	99	-12	-1	11	77	19	99	-12	-5	6	103	191	99	-13	-3	13	159	78	99	-14	-1	14	295	332	99
-11	-3	7	90	126	99	-12	-1	10	144	20	99	-12	-5	5	72	8	99	-13	-3	12	119	170	99	-14	-1	13	109	13	99
-11	-3	6	919	866	99	-12	-1	9	22	94	99	-12	-5	4	524	548	99	-13	-3	11	265	236	99	-14	-1	12	313	369	99
-11	-3	5	402	409	99	-12	-1	8	1031	1065	99	-12	-5	3	394	370	99	-13	-3	10	685	675	99	-14	-1	11	-108	32	99
-11	-3	4	703	682	99	-12	-1	7	414	429	99	-12	-5	2	1027	1019	99	-13	-3	9	286	271	99	-14	-1	10	-66	30	99
-11	-3	3	262	277	99	-12	-1	6	897	894	99	-12	-5	1	-142	37	99	-13	-3	8	378	322	99	-14	-1	9	-108	10	99
-11	-3	2	656	652	99	-12	-1	5	260	271	99	-12	-6	9	91	133	99	-13	-3	7	113	69	99	-14	-1	8	897	953	99
-11	-3	1	507	504	99	-12	-1	4	709	723	99	-12	-6	8	-131	79	99	-13	-3	6	755	767	99	-14	-1	7	427	463	99
-11	-4	12	361	324	99	-12	-1	3	282	289	99	-12	-6	7	140	23	99	-13	-3	5	562	563	99	-14	-1	6	850	852	99
-11	-4	11	75	18	99	-12	-1	2	1543	1528	99	-12	-6	6	157	264	99	-13	-3	4	774	781	99	-14	-1	5	100	60	99
-11	-4	10	185	145	99	-12	-1	1	288	287	99	-12	-6	5	173	159	99	-13	-3	3	126	202	99	-14	-1	4	902	890	99
-11	-4	9	159	56	99	-12	-2	14	240	259	99	-12	-6	4	311	288	99	-13	-3	2	686	637	99	-14	-1	3	98	33	99
-11	-4	8	680	709	99	-12	-2	13	60	23	99	-12	-6	3	154	13	99	-13	-3	1	684	639	99	-14	-1	2	1355	1346	99
-11	-4	7	120	105	99	-12	-2	12	237	181	99	-12	-6	2	204	136	99	-13	-4	12	337	337	99	-14	-1	1	196	196	99
-11	-4	6	384	391	99	-12	-2	11	212	188	99	-12	-6	1	250	150	99	-13	-4	11	-234	41	99	-14	-2	14	304	259	99
-11	-4	5	76	56	99	-12	-2	10	889	884	99	-12	-7	5	-154	7	99	-13	-4	10	-132	98	99	-14	-2	13	-94	35	99
-11	-4	4	456	488	99	-12	-2	9	135	21	99	-12	-7	4	127	184	99	-13	-4	9	156	39	99	-14	-2	12	-116	138	99
-11	-4	3	460	455	99	-12	-2	8	318	324	99	-12	-7	3	-113	181	99	-13	-4	8	518	510	99	-14	-2	11	259	239	99
-11	-4	2	1322	1300	99	-12	-2	7	92	65	99	-12	-7	2	-120	249	99	-13	-4	7	-152	91	99	-14	-2	10	804	803	99
-11	-4	1	360	359	99	-12	-2	6	1242	1230	99	-12	-7	1	136	132	99	-13	-4	6	347	335	99	-14	-2	9	-186	53	99
-11	-5	11	171	121	99	-12	-2	5	274	316	99	-13	0	14	401	391	99	-13	-4	5	248	174	99	-14	-2	8	230	185	99
-11	-5	10	300	311	99	-12	-2	4	1399	1387	99	-13	0	12	455	489	99	-13	-4	4	585	591	99	-14	-2	7	115	72	99
-11	-5	9	169	227	99	-12	-2	3	595	575	99	-13	0	10	210	151	99	-13	-4	3	267	274	99	-14	-2	6	1076	1079	99
-11	-5	8	199	184	99	-12	-2	2	840	839	99	-13	0	8	1451	1485	99	-13	-4	2	1290	1289	99	-14	-2	5	149	129	99
-11	-5	7	130	91	99	-12	-2	1	511	471	99	-13	0	6	1066	1063	99	-13	-4	1	398	382	99	-14	-2	4	1440	1430	99
-11	-5	6	632	641	99	-12	-3	13	174	58	99	-13	0	4	1645	1646	99	-13	-5	11	233	99	99	-14	-2	3	406	453	99
-11	-5	5	345	336	99	-12	-3	12	468	418	99	-13	0	2	2509	2536	99	-13	-5	10	352	322	99	-14	-2	2	643	624	99
-11	-5	4	622	625	99	-12	-3	11	-125	131	99	-13	-1	14	347	319	99	-13	-5	9	105	202	99	-14	-2	1	159	163	99
-11	-5	3	87	17	99	-12	-3	10	138	178	99	-13	-1	13	125	12	99	-13	-5	8	191	213	99	-14	-3	13	-29	96	99
-11	-5	2	313	240	99	-12	-3	9	114	57	99	-13	-1	12	36	161	99	-13	-5	7	97	121	99	-14	-3	12	428	360	99
-11	-5	1	300	322	99	-12	-3	8	736	701	99	-13	-1	11	-76	230	99	-13	-5	6	592	610	99	-14	-3	11	144	199	99
-11	-6	9	89	115	99	-12	-3	7	334	337	99	-13	-1	10	640	642	99	-13	-5	5	355	399	99	-14	-3	10	107	162	99
-11	-6	8	277	300	99	-12	-3	6	613	613	99	-13	-1	9	179	259	99	-13	-5	4	457	475	99	-14	-3	9	-137	20	99
-11	-6	7	-31	112	99	-12	-3	5	521	521	99	-13	-1	8	79	104	99	-13	-5	3	38	111	99	-14	-3	8	785	777	99
-11	-6	6	-93	158	99	-12	-3	4	743	768	99	-13	-1	7	176	209	99	-13	-5	2	244	248	99	-14	-3	7	215	247	99
-11	-6	5	120	68	99	-12	-3	3	777	764	99	-13	-1	6	1111	1146	99	-13	-5	1	354	332	99	-14	-3	6	623	590	99
-11	-6	4	250	228	99	-12	-3	2	1358	1363	99	-13	-1	5	-118	95	99	-13	-6	8	291	276	99	-14	-3	5	451	425	99
-11	-6	3	114	188	99	-12	-3	1	191	354	99	-13	-1	4	1096	1087	99	-13	-6	7	102	139	99	-14	-3	4	541	552	99
-11	-6	2	418	448	99	-12	-4	12	-48	146	99	-13	-1	3	-52	49	99	-13	-6	6	222	137	99	-14	-3	3	779	798	99
-11	-6	1	95	99	99	-12	-4	11	-114	123	99	-13	-1	2	575	611	99	-13	-6	5	44	114	99	-14	-3	2	1192	1240	99
-11	-7	5	-135	176	99	-12	-4	10	426	402	99	-13	-1	1	695	657	99	-13	-6	4	97	156	99	-14	-3	1	368	343	99
-11	-7	4	234	247	99	-12	-4	9	-132	30	99	-13	-2	14	125	215	99	-13	-6	3	-73	130	99	-14	-4	12	132	155	99
-11	-7	3	-48	21	99	-12	-4	8	182	211	99	-13	-2	13	32	13	99	-13	-6	2	497	439	99	-14	-4	11	-114	110	99
-14	-4	10	435	410	99	-15	-2	12	362	379	99	-15	-7	3	197	11	99	-16	-4	8	254	192	99	-17	-2	8	974	986	99
-14	-4	9	99	39	99	-15	-2	11	-63	20	99	-15	-7	2	32	124	99	-16	-4	7	-124	65	99	-17	-2	7	-121	29	99
-14	-4	8	237	211	99	-15	-2	10	-92	152	99	-15	-7	1	-101	123	99	-16	-4	6	715	710	99	-17	-2	6	783	775	99
-14	-4	7	163	84	99	-15	-2	9	-38	123	99	-16	0	14	409	416	99	-16	-4	5	-123	81	99	-17	-2	5	282	261	99
-14	-4	6	825	841	99	-15	-2	8	1259	1260	99	-16	0	12	216	216	99	-16	-4	4	559	605	99	-17	-2	4	990	978	99
-14	-4	5	165	129	99	-15	-2	7	-112	49	99	-16	0	10	889	878	99	-16	-4	3	80	124	99	-17	-2	3	-115	109	99
-14	-4	4	610	609	99	-15	-2	6	895	932	99	-16	0	8	378	416	99	-16	-4	2	305	199	99	-17	-2	2	1650	1615	99
-14	-4	3	199	151	99	-15	-2	5	301	307	99	-16	0	6	868	890	99	-16	-4	1	341	334	99	-17	-2	1	272	235	99
-14	-4	2	246	168	99	-15	-2	4	982	987	99	-16	0	4	1207	1176	99	-16	-5	10	113	7	99	-17	-3	13	136	36	99
-14	-4	1	176	179	99	-15	-2	3	228	216	99	-16	0	2	1629	1631	99	-16	-5	9	174	132	99	-17	-3	12	-39	136	99
-14	-5	10	-89	7	99	-15	-2	2	1543	1547	99	-16	-1	14	236	252	99	-16	-5	8	325	330	99	-17	-3	11	151	192	99
-14	-5	9	156	142	99	-15	-2	1	131	118	99	-16	-1	13	120	32	99	-16	-5	7	180	215	99	-17	-3	10	515	514	99
-14	-5	8	359	368	99	-15	-3	13	141	35	99	-16	-1	12	338	310	99	-16	-5	6	227	238	99	-17	-3	9	-134	158	99
-14	-5	7	247	269	99	-15	-3	12	210	159	99	-16	-1	11	158	18	99	-16	-5	5	118	41	99	-17	-3	8	225	142	99
-14	-5	6	147	177	99	-15	-3	11	186	198	99	-16	-1	10	-173	88	99	-16	-5	4	396	451	99	-17	-3	7	113	186	99
-14	-5	5	74	65	99	-15	-3	10	623	625	99	-16	-1	9	-105	70	99	-16	-5	3	297	321	99	-17	-3	6	878	886	99
-14	-5	4	511	530	99	-15	-3	9	182	192	99	-16	-1	8	948	943	99	-16	-5	2	689	719	99	-17	-3	5	290	283	99
-14	-5	3	370	367	99	-15	-3	8	222	237	99	-16	-1	7	393	379	99	-16	-5	1	-160	128	99	-17	-3	4	706	710	99
-14	-5	2	899	917	99	-15	-3	7	93	16	99	-16	-1	6	619	614	99	-16	-6	8	-40	53	99	-17	-3	3	-193	22	99
-14	-5	1	-103	87	99	-15	-3	6	652	683	99	-16	-1	5	-59	113	99	-16	-6	7	-116	111	99	-17	-3	2	-114	96	99
-14	-6	8	-183	77	99	-15	-3	5	309	319	99	-16	-1	4	961	967	99	-16	-6	6	343	299	99	-17	-3	1	675	654	99
-14	-6	7	-154	77	99	-15	-3	4	822	842	99	-16	-1	3	429	436	99	-16	-6	5	-42	212	99	-17	-4	12	352	329	99
-14	-6	6	256	290	99	-15	-3	3	280	276	99	-16	-1	2	1244	1241	99	-16	-6	4	256	293	99	-17	-4	11	-51	46	99
-14	-6	5	192	173	99	-15	-3	2	400	381	99	-16	-1	1	119	101	99	-16	-6	3	-139	75	99	-17	-4	10	154	69	99
-14	-6	4	320	310	99	-15	-3	1	583	593	99	-16	-2	14	244	246	99	-16	-6	2	-34	65	99	-17	-4	9	-92	20	99
-14	-6	3	59	42	99	-15	-4	12	384	340	99	-16	-2	13	-145	7	99	-16	-6	1	-199	63	99	-17	-4	8	374	370	99
-14	-6	2	153	114	99	-15	-4	11	-118	70	99	-16	-2	12	173	145	99	-16	-7	3	-106	166	99	-17	-4	7	145	71	99
-14	-6	1	155	88	99	-15	-4	10	-230	76	99	-16	-2	11	177	176	99	-16	-7	2	278	252	99	-17	-4	6	224	270	99
-14	-7	4	224	158	99	-15	-4	9	72	24	99	-16	-2	10	746	730	99	-16	-7	1	79	94	99	-17	-4	5	-72	31	99
-14	-7	3	138	167	99	-15	-4	8	364	375	99	-16	-2	9	218	140	99	-17	0	14	210	206	99	-17	-4	4	551	565	99
-14	-7	2	249	242	99	-15	-4	7	101	46	99	-16	-2	8	-90	78	99	-17	0	12	445	400	99	-17	-4	3	124	142	99
-14	-7	1	-190	108	99	-15	-4	6	319	263	99	-16	-2	7	-190	13	99	-17	0	10	-141	42	99	-17	-4	2	938	952	99
-15	0	14	252	297	99	-15	-4	5	193	155	99	-16	-2	6	1110	1080	99	-17	0	8	1240	1279	99	-17	-4	1	171	146	99
-15	0	12	430	428	99	-15	-4	4	610	623	99	-16	-2	5	495	529	99	-17	0	6	872	872	99	-17	-5	10	288	315	99
-15	0	10	-127	46	99	-15	-4	3	271	277	99	-16	-2	4	1270	1246	99	-17	0	4	1587	1589	99	-17	-5	9	160	149	99
-15	0	8	1395	1436	99	-15	-4	2	1065	1112	99	-16	-2	3	300	369	99	-17	0	2	1703	1726	99	-17	-5	8	260	204	99
-15	0	6	993	1007	99	-15	-4	1	94	118	99	-16	-2	2	425	411	99	-17	-1	14	244	265	99	-17	-5	7	135	166	99
-15	0	4	1451	1457	99	-15	-5	10	262	332	99	-16	-2	1	-24	45	99	-17	-1	13	46	65	99	-17	-5	6	460	484	99
-15	0	2	1873	1876	99	-15	-5	9	30	166	99	-16	-3	13	124	134	99	-17	-1	12	214	253	99	-17	-5	5	326	346	99
-15	-1	14	346	323	99	-15	-5	8	257	226	99	-16	-3	12	356	329	99	-17	-1	11	85	85	99	-17	-5	4	403	344	99
-15	-1	13	-84	7	99	-15	-5	7	128	147	99	-16	-3	11	266	207	99	-17	-1	10	793	788	99	-17	-5	3	161	70	99
-15	-1	12	210	217	99	-15	-5	6	543	552	99	-16	-3	10	-135	116	99	-17	-1	9	103	118	99	-17	-5	2	288	309	99
-15	-1	11	163	152	99	-15	-5	5	391	381	99	-16	-3	9	106	20	99	-17	-1	8	264	237	99	-17	-5	1	260	190	99
-15	-1	10	660	668	99	-15	-5	4	377	409	99	-16	-3	8	756	730	99	-17	-1	7	174	111	99	-17	-6	7	147	139	99
-15	-1	9	39	109	99	-15	-5	3	-32	134	99	-16	-3	7	311	289	99	-17	-1	6	500	485	99	-17	-6	6	82	142	99
-15	-1	8	176	92	99	-15	-5	2	338	324	99	-16	-3	6	556	585	99	-17	-1	5	574	595	99	-17	-6	5	-110	67	99
-15	-1	7	54	75	99	-15	-5	1	268	241	99	-16	-3	5	213	185	99	-17	-1	4	983	993	99	-17	-6	4	162	151	99
-15	-1	6	808	825	99	-15	-6	8	192	236	99	-16	-3	4	566	560	99	-17	-1	3	344	342	99	-17	-6	3	-210	167	99
-15	-1	5	353	366	99	-15	-6	7	76	151	99	-16	-3	3	405	435	99	-17	-1	2	574	554	99	-17	-6	2	303	352	99
-15	-1	4	1093	1077	99	-15	-6	6	180	132	99	-16	-3	2	1164	1134	99	-17	-1	1	183	142	99	-17	-6	1	179	91	99
-15	-1	3	378	369	99	-15	-6	5	-83	110	99	-16	-3	1	138	180	99	-17	-2	13	47	45	99	-17	-7	1	147	103	99
-15	-1	2	622	603	99	-15	-6	4	204	140	99	-16	-4	12	90	141	99	-17	-2	12	341	344	99	-18	0	14	358	350	99
-15	-1	1	246	232	99	-15	-6	3	194	127	99	-16	-4	11	66	80	99	-17	-2	11	97	60	99	-18	0	12	370	356	99
-15	-2	14	223	182	99	-15	-6	2	360	377	99	-16	-4	10	456	435	99	-17	-2	10	-71	57	99	-18	0	10	868	877	99
-15	-2	13	-107	38	99	-15	-6	1	56	52	99	-16	-4	9	-77	83	99	-17	-2	9	111	102	99	-18	0	8	374	358	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
-18	0	6	738	721	99	-18	-5	8	313	329	99	-19	-3	6	959	920	99	-20	-2	10	613	590	99	-21	-1	12	318	322	99
-18	0	4	1019	1031	99	-18	-5	7	212	197	99	-19	-3	5	396	385	99	-20	-2	9	259	174	99	-21	-1	11	-179	15	99
-18	0	2	974	971	99	-18	-5	6	333	303	99	-19	-3	4	849	810	99	-20	-2	8	217	125	99	-21	-1	10	542	541	99
-18	-1	14	193	192	99	-18	-5	5	97	2	99	-19	-3	3	59	43	99	-20	-2	7	135	12	99	-21	-1	9	-97	113	99
-18	-1	13	-166	47	99	-18	-5	4	319	311	99	-19	-3	2	164	85	99	-20	-2	6	1068	1050	99	-21	-1	8	194	170	99
-18	-1	12	279	281	99	-18	-5	3	327	359	99	-19	-3	1	663	648	99	-20	-2	5	-117	31	99	-21	-1	7	232	223	99
-18	-1	11	-35	89	99	-18	-5	2	584	567	99	-19	-4	11	-190	25	99	-20	-2	4	1099	1082	99	-21	-1	6	469	498	99
-18	-1	10	-167	25	99	-18	-5	1	-162	94	99	-19	-4	10	-163	72	99	-20	-2	3	-38	69	99	-21	-1	5	426	401	99
-18	-1	9	-190	74	99	-18	-6	7	-143	99	99	-19	-4	9	118	32	99	-20	-2	2	398	333	99	-21	-1	4	1077	1081	99
-18	-1	8	912	903	99	-18	-6	6	258	291	99	-19	-4	8	412	400	99	-20	-2	1	252	261	99	-21	-1	3	-146	59	99
-18	-1	7	260	293	99	-18	-6	5	216	218	99	-19	-4	7	126	158	99	-20	-3	12	294	318	99	-21	-1	2	200	274	99
-18	-1	6	491	507	99	-18	-6	4	297	272	99	-19	-4	6	425	383	99	-20	-3	11	129	77	99	-21	-1	1	62	121	99
-18	-1	5	210	62	99	-18	-6	3	133	87	99	-19	-4	5	158	93	99	-20	-3	10	150	48	99	-21	-2	13	-56	10	99
-18	-1	4	1189	1136	99	-18	-6	2	-155	78	99	-19	-4	4	483	457	99	-20	-3	9	227	160	99	-21	-2	12	437	412	99
-18	-1	3	117	18	99	-18	-6	1	-96	46	99	-19	-4	3	120	60	99	-20	-3	8	534	510	99	-21	-2	11	-140	34	99
-18	-1	2	1238	1280	99	-19	0	14	121	150	99	-19	-4	2	781	787	99	-20	-3	7	475	443	99	-21	-2	10	162	77	99
-18	-1	1	121	152	99	-19	0	12	472	431	99	-19	-4	1	128	132	99	-20	-3	6	442	432	99	-21	-2	9	-107	53	99
-18	-2	13	112	35	99	-19	0	10	131	20	99	-19	-5	9	-53	179	99	-20	-3	5	-119	54	99	-21	-2	8	741	720	99
-18	-2	12	112	171	99	-19	0	8	1208	1189	99	-19	-5	8	-200	141	99	-20	-3	4	563	530	99	-21	-2	7	194	127	99
-18	-2	11	131	49	99	-19	0	6	610	612	99	-19	-5	7	249	177	99	-20	-3	3	90	56	99	-21	-2	6	270	254	99
-18	-2	10	630	667	99	-19	0	4	1156	1157	99	-19	-5	6	394	446	99	-20	-3	2	892	867	99	-21	-2	5	63	138	99
-18	-2	9	225	183	99	-19	0	2	1264	1275	99	-19	-5	5	233	241	99	-20	-3	1	-265	23	99	-21	-2	4	1183	1115	99
-18	-2	8	200	56	99	-19	-1	14	247	180	99	-19	-5	4	197	277	99	-20	-4	11	-56	46	99	-21	-2	3	-88	27	99
-18	-2	7	59	12	99	-19	-1	13	205	131	99	-19	-5	3	143	66	99	-20	-4	10	359	354	99	-21	-2	2	1153	1176	99
-18	-2	6	1210	1131	99	-19	-1	12	343	293	99	-19	-5	2	308	254	99	-20	-4	9	-51	56	99	-21	-2	1	293	291	99
-18	-2	5	361	346	99	-19	-1	11	35	51	99	-19	-5	1	212	246	99	-20	-4	8	165	140	99	-21	-3	12	-43	87	99
-18	-2	4	1252	1210	99	-19	-1	10	710	680	99	-19	-6	7	82	83	99	-20	-4	7	-67	24	99	-21	-3	11	181	154	99
-18	-2	3	371	404	99	-19	-1	9	245	278	99	-19	-6	6	217	154	99	-20	-4	6	531	511	99	-21	-3	10	396	382	99
-18	-2	2	390	381	99	-19	-1	8	415	340	99	-19	-6	5	-140	35	99	-20	-4	5	-73	40	99	-21	-3	9	190	130	99
-18	-2	1	139	70	99	-19	-1	7	135	215	99	-19	-6	4	-51	142	99	-20	-4	4	320	360	99	-21	-3	8	174	46	99
-18	-3	12	372	311	99	-19	-1	6	429	397	99	-19	-6	3	216	243	99	-20	-4	3	189	45	99	-21	-3	7	86	48	99
-18	-3	11	-189	159	99	-19	-1	5	553	562	99	-19	-6	2	336	369	99	-20	-4	2	120	257	99	-21	-3	6	754	717	99
-18	-3	10	41	73	99	-19	-1	4	1085	1083	99	-19	-6	1	90	119	99	-20	-4	1	157	240	99	-21	-3	5	314	306	99
-18	-3	9	33	74	99	-19	-1	3	150	174	99	-20	0	12	330	330	99	-20	-5	9	-112	101	99	-21	-3	4	736	746	99
-18	-3	8	635	632	99	-19	-1	2	528	569	99	-20	0	10	975	994	99	-20	-5	8	343	366	99	-21	-3	3	85	40	99
-18	-3	7	324	349	99	-19	-1	1	-24	24	99	-20	0	8	211	220	99	-20	-5	7	196	201	99	-21	-3	2	-133	76	99
-18	-3	6	569	549	99	-19	-2	13	87	32	99	-20	0	6	818	828	99	-20	-5	6	384	341	99	-21	-3	1	358	400	99
-18	-3	5	-92	31	99	-19	-2	12	401	382	99	-20	0	4	1195	1174	99	-20	-5	5	-155	34	99	-21	-4	11	45	46	99
-18	-3	4	480	492	99	-19	-2	11	-186	48	99	-20	0	2	833	875	99	-20	-5	4	-43	244	99	-21	-4	10	71	110	99
-18	-3	3	197	75	99	-19	-2	10	-93	12	99	-20	-1	13	68	26	99	-20	-5	3	371	358	99	-21	-4	9	38	68	99
-18	-3	2	1081	1046	99	-19	-2	9	-134	15	99	-20	-1	12	298	273	99	-20	-5	2	368	436	99	-21	-4	8	449	424	99
-18	-3	1	-68	62	99	-19	-2	8	832	800	99	-20	-1	11	124	124	99	-20	-5	1	136	127	99	-21	-4	7	248	220	99
-18	-4	11	-161	40	99	-19	-2	7	-159	109	99	-20	-1	10	132	20	99	-20	-6	6	-179	219	99	-21	-4	6	450	450	99
-18	-4	10	453	420	99	-19	-2	6	319	299	99	-20	-1	9	73	28	99	-20	-6	5	113	162	99	-21	-4	5	139	117	99
-18	-4	9	-125	89	99	-19	-2	5	-163	26	99	-20	-1	8	788	762	99	-20	-6	4	94	253	99	-21	-4	4	320	299	99
-18	-4	8	175	171	99	-19	-2	4	961	947	99	-20	-1	7	-74	133	99	-20	-6	3	-148	77	99	-21	-4	3	66	41	99
-18	-4	7	-90	20	99	-19	-2	3	-91	28	99	-20	-1	6	482	482	99	-20	-6	2	154	83	99	-21	-4	2	594	624	99
-18	-4	6	600	573	99	-19	-2	2	1465	1448	99	-20	-1	5	173	54	99	-20	-6	1	-262	57	99	-21	-4	1	-139	88	99
-18	-4	5	28	46	99	-19	-2	1	35	168	99	-20	-1	4	847	787	99	-21	0	12	463	440	99	-21	-5	9	183	177	99
-18	-4	4	455	455	99	-19	-3	12	197	110	99	-20	-1	3	165	189	99	-21	0	10	81	74	99	-21	-5	8	197	118	99
-18	-4	3	109	55	99	-19	-3	11	169	181	99	-20	-1	2	1311	1365	99	-21	0	8	1017	994	99	-21	-5	7	214	122	99
-18	-4	2	-48	205	99	-19	-3	10	453	426	99	-20	-1	1	-135	132	99	-21	0	6	461	458	99	-21	-5	6	469	420	99
-18	-4	1	332	324	99	-19	-3	9	222	156	99	-20	-2	13	77	54	99	-21	0	4	1121	1139	99	-21	-5	5	136	191	99
-18	-5	10	-131	38	99	-19	-3	8	-51	96	99	-20	-2	12	-94	167	99	-21	0	2	972	977	99	-21	-5	4	285	293	99
-18	-5	9	-97	135	99	-19	-3	7	140	145	99	-20	-2	11	143	13	99	-21	-1	13	107	117	99	-21	-5	3	-149	21	99
-21	-5	2	-154	227	99	-22	-4	6	407	459	99	-23	-3	6	682	608	99	-24	-2	3	-127	55	99	-25	-2	10	119	26	99
-21	-5	1	190	243	99	-22	-4	5	-82	41	99	-23	-3	5	240	201	99	-24	-2	2	488	551	99	-25	-2	9	65	34	99
-21	-6	6	178	133	99	-22	-4	4	285	332	99	-23	-3	4	464	520	99	-24	-2	1	-47	254	99	-25	-2	8	586	558	99
-21	-6	5	-34	3	99	-22	-4	3	101	77	99	-23	-3	3	83	19	99	-24	-3	11	-113	14	99	-25	-2	7	-189	86	99
-21	-6	4	108	125	99	-22	-4	2	296	230	99	-23	-3	2	-56	167	99	-24	-3	10	-74	42	99	-25	-2	6	354	345	99
-21	-6	3	161	260	99	-22	-4	1	-85	113	99	-23	-3	1	322	283	99	-24	-3	9	239	227	99	-25	-2	5	159	50	99
-21	-6	2	299	368	99	-22	-5	8	384	364	99	-23	-4	10	-100	120	99	-24	-3	8	429	408	99	-25	-2	4	527	572	99
-21	-6	1	133	139	99	-22	-5	7	181	179	99	-23	-4	9	-225	37	99	-24	-3	7	125	329	99	-25	-2	3	37	24	99
-22	0	12	223	251	99	-22	-5	6	379	348	99	-23	-4	8	388	419	99	-24	-3	6	383	356	99	-25	-2	2	683	740	99
-22	0	10	778	767	99	-22	-5	5	125	62	99	-23	-4	7	144	207	99	-24	-3	5	-62	78	99	-25	-2	1	168	233	99
-22	0	8	176	201	99	-22	-5	4	193	235	99	-23	-4	6	420	423	99	-24	-3	4	514	554	99	-25	-3	11	128	147	99
-22	0	6	906	912	99	-22	-5	3	284	322	99	-23	-4	5	-118	97	99	-24	-3	3	277	221	99	-25	-3	10	410	382	99
-22	0	4	1581	1562	99	-22	-5	2	424	409	99	-23	-4	4	251	263	99	-24	-3	2	708	748	99	-25	-3	9	-71	56	99
-22	0	2	804	829	99	-22	-5	1	-202	125	99	-23	-4	3	-120	71	99	-24	-3	1	255	204	99	-25	-3	8	-60	138	99
-22	-1	13	-53	16	99	-22	-6	5	-122	110	99	-23	-4	2	451	518	99	-24	-4	10	284	295	99	-25	-3	7	94	54	99
-22	-1	12	356	309	99	-22	-6	4	-41	172	99	-23	-4	1	25	109	99	-24	-4	9	-118	36	99	-25	-3	6	360	425	99
-22	-1	11	134	130	99	-22	-6	3	-115	46	99	-23	-5	8	151	87	99	-24	-4	8	-86	71	99	-25	-3	5	277	238	99
-22	-1	10	128	34	99	-22	-6	2	58	64	99	-23	-5	7	-60	79	99	-24	-4	7	-67	13	99	-25	-3	4	419	432	99
-22	-1	9	-185	62	99	-22	-6	1	-75	89	99	-23	-5	6	382	353	99	-24	-4	6	428	425	99	-25	-3	3	-107	19	99
-22	-1	8	726	732	99	-23	0	12	405	404	99	-23	-5	5	161	159	99	-24	-4	5	-170	114	99	-25	-3	2	291	317	99
-22	-1	7	95	29	99	-23	0	10	99	53	99	-23	-5	4	324	317	99	-24	-4	4	369	342	99	-25	-3	1	-176	140	99
-22	-1	6	383	344	99	-23	0	8	935	929	99	-23	-5	3	-42	16	99	-24	-4	3	64	128	99	-25	-4	9	130	16	99
-22	-1	5	100	146	99	-23	0	6	382	342	99	-23	-5	2	-93	130	99	-24	-4	2	288	132	99	-25	-4	8	371	339	99
-22	-1	4	410	382	99	-23	0	4	696	666	99	-23	-5	1	242	204	99	-24	-4	1	-133	64	99	-25	-4	7	190	122	99
-22	-1	3	117	225	99	-23	0	2	1072	1094	99	-23	-6	4	149	137	99	-24	-5	8	300	355	99	-25	-4	6	401	366	99
-22	-1	2	906	928	99	-23	-1	13	112	56	99	-23	-6	3	271	239	99	-24	-5	7	139	165	99	-25	-4	5	177	8	99
-22	-1	1	343	269	99	-23	-1	12	248	236	99	-23	-6	2	287	328	99	-24	-5	6	282	253	99	-25	-4	4	284	326	99
-22	-2	12	183	155	99	-23	-1	11	127	31	99	-23	-6	1	118	94	99	-24	-5	5	-100	64	99	-25	-4	3	236	117	99
-22	-2	11	81	28	99	-23	-1	10	501	469	99	-24	0	12	155	219	99	-24	-5	4	143	227	99	-25	-4	2	454	475	99
-22	-2	10	577	506	99	-23	-1	9	-121	58	99	-24	0	10	514	499	99	-24	-5	3	340	281	99	-25	-4	1	167	140	99
-22	-2	9	132	123	99	-23	-1	8	211	76	99	-24	0	8	-105	70	99	-24	-5	2	398	428	99	-25	-5	7	163	96	99
-22	-2	8	214	159	99	-23	-1	7	-112	21	99	-24	0	6	928	914	99	-24	-5	1	115	67	99	-25	-5	6	305	341	99
-22	-2	7	155	64	99	-23	-1	6	765	742	99	-24	0	4	1255	1269	99	-24	-6	3	40	39	99	-25	-5	5	202	125	99
-22	-2	6	901	832	99	-23	-1	5	99	74	99	-24	0	2	300	303	99	-24	-6	2	-142	82	99	-25	-5	4	118	257	99
-22	-2	5	-58	39	99	-23	-1	4	1015	990	99	-24	-1	12	349	297	99	-24	-6	1	167	124	99	-25	-5	3	160	34	99
-22	-2	4	837	839	99	-23	-1	3	-132	80	99	-24	-1	11	144	115	99	-25	0	12	366	393	99	-25	-5	2	-258	43	99
-22	-2	3	108	99	99	-23	-1	2	278	274	99	-24	-1	10	-10	41	99	-25	0	10	96	25	99	-25	-5	1	-122	177	99
-22	-2	2	311	373	99	-23	-1	1	411	375	99	-24	-1	9	-68	56	99	-25	0	8	999	983	99	-26	0	12	146	155	99
-22	-2	1	421	412	99	-23	-2	12	456	413	99	-24	-1	8	652	656	99	-25	0	6	254	245	99	-26	0	10	380	386	99
-22	-3	12	331	304	99	-23	-2	11	119	8	99	-24	-1	7	213	40	99	-25	0	4	334	395	99	-26	0	8	-114	25	99
-22	-3	11	-182	10	99	-23	-2	10	-145	47	99	-24	-1	6	387	399	99	-25	0	2	838	838	99	-26	0	6	952	931	99
-22	-3	10	137	38	99	-23	-2	9	101	36	99	-24	-1	5	311	262	99	-25	-1	12	136	126	99	-26	0	4	778	753	99
-22	-3	9	205	225	99	-23	-2	8	563	554	99	-24	-1	4	398	398	99	-25	-1	11	103	93	99	-26	0	2	413	433	99
-22	-3	8	467	434	99	-23	-2	7	101	159	99	-24	-1	3	309	299	99	-25	-1	10	330	321	99	-26	-1	12	198	228	99
-22	-3	7	386	441	99	-23	-2	6	347	383	99	-24	-1	2	676	745	99	-25	-1	9	-135	121	99	-26	-1	11	-105	52	99
-22	-3	6	417	386	99	-23	-2	5	133	7	99	-24	-1	1	142	212	99	-25	-1	8	-138	89	99	-26	-1	10	-85	25	99
-22	-3	5	74	13	99	-23	-2	4	913	887	99	-24	-2	12	-71	145	99	-25	-1	7	-124	138	99	-26	-1	9	-123	26	99
-22	-3	4	674	648	99	-23	-2	3	55	103	99	-24	-2	11	-49	67	99	-25	-1	6	795	745	99	-26	-1	8	600	575	99
-22	-3	3	78	158	99	-23	-2	2	981	1011	99	-24	-2	10	508	475	99	-25	-1	5	71	140	99	-26	-1	7	-78	88	99
-22	-3	2	803	808	99	-23	-2	1	312	337	99	-24	-2	9	-87	13	99	-25	-1	4	1048	1035	99	-26	-1	6	406	423	99
-22	-3	1	92	22	99	-23	-3	11	201	155	99	-24	-2	8	218	130	99	-25	-1	3	-49	129	99	-26	-1	5	282	239	99
-22	-4	10	369	321	99	-23	-3	10	385	364	99	-24	-2	7	-99	161	99	-25	-1	2	324	327	99	-26	-1	4	273	279	99
-22	-4	9	96	53	99	-23	-3	9	209	98	99	-24	-2	6	675	627	99	-25	-1	1	344	319	99	-26	-1	3	236	176	99
-22	-4	8	140	94	99	-23	-3	8	147	76	99	-24	-2	5	122	27	99	-25	-2	12	355	381	99	-26	-1	2	700	791	99
-22	-4	7	-142	13	99	-23	-3	7	176	38	99	-24	-2	4	592	603	99	-25	-2	11	163	8	99	-26	-1	1	213	251	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
-26	-2	11	102	83	99	-27	-2	11	-52	40	99	-28	-2	8	206	158	99	-29	-2	2	520	548	99	-30	-3	1	52	98	99
-26	-2	10	542	487	99	-27	-2	10	-123	54	99	-28	-2	7	-11	177	99	-29	-2	1	136	156	99	-30	-4	7	147	16	99
-26	-2	9	85	73	99	-27	-2	9	156	19	99	-28	-2	6	458	422	99	-29	-3	9	99	29	99	-30	-4	6	-77	285	99
-26	-2	8	205	131	99	-27	-2	8	680	593	99	-28	-2	5	150	129	99	-29	-3	8	182	107	99	-30	-4	5	70	96	99
-26	-2	7	187	196	99	-27	-2	7	79	16	99	-28	-2	4	465	426	99	-29	-3	7	201	124	99	-30	-4	4	176	305	99
-26	-2	6	538	505	99	-27	-2	6	373	372	99	-28	-2	3	157	116	99	-29	-3	6	296	285	99	-30	-4	3	128	142	99
-26	-2	5	-121	22	99	-27	-2	5	148	87	99	-28	-2	2	358	450	99	-29	-3	5	246	272	99	-30	-4	2	97	41	99
-26	-2	4	466	495	99	-27	-2	4	449	431	99	-28	-2	1	-204	41	99	-29	-3	4	323	330	99	-30	-4	1	84	126	99
-26	-2	3	-54	31	99	-27	-2	3	131	69	99	-28	-3	10	-25	72	99	-29	-3	3	140	74	99	-31	0	10	155	88	99
-26	-2	2	558	613	99	-27	-2	2	587	575	99	-28	-3	9	145	76	99	-29	-3	2	-125	191	99	-31	0	8	479	464	99
-26	-2	1	89	136	99	-27	-2	1	148	216	99	-28	-3	8	362	342	99	-29	-3	1	-77	121	99	-31	0	6	-226	187	99
-26	-3	10	191	52	99	-27	-3	10	451	380	99	-28	-3	7	130	68	99	-29	-4	7	-159	40	99	-31	0	4	526	511	99
-26	-3	9	169	137	99	-27	-3	9	140	17	99	-28	-3	6	368	307	99	-29	-4	6	103	143	99	-31	0	2	659	689	99
-26	-3	8	377	380	99	-27	-3	8	-56	137	99	-28	-3	5	158	206	99	-29	-4	5	106	19	99	-31	-1	10	296	261	99
-26	-3	7	237	212	99	-27	-3	7	206	92	99	-28	-3	4	313	389	99	-29	-4	4	317	342	99	-31	-1	9	166	12	99
-26	-3	6	314	312	99	-27	-3	6	325	289	99	-28	-3	3	52	214	99	-29	-4	3	42	149	99	-31	-1	8	210	142	99
-26	-3	5	168	177	99	-27	-3	5	314	267	99	-28	-3	2	487	545	99	-29	-4	2	389	435	99	-31	-1	7	-180	20	99
-26	-3	4	385	465	99	-27	-3	4	311	356	99	-28	-3	1	166	111	99	-29	-4	1	-243	117	99	-31	-1	6	301	353	99
-26	-3	3	261	224	99	-27	-3	3	-201	71	99	-28	-4	8	-135	45	99	-29	-5	4	153	233	99	-31	-1	5	251	215	99
-26	-3	2	649	658	99	-27	-3	2	318	288	99	-28	-4	7	-151	15	99	-29	-5	3	-114	64	99	-31	-1	4	384	392	99
-26	-3	1	198	172	99	-27	-3	1	189	102	99	-28	-4	6	276	323	99	-29	-5	2	196	43	99	-31	-1	3	175	4	99
-26	-4	9	164	23	99	-27	-4	9	125	14	99	-28	-4	5	-183	158	99	-29	-5	1	125	158	99	-31	-1	2	404	284	99
-26	-4	8	218	51	99	-27	-4	8	229	267	99	-28	-4	4	320	358	99	-30	0	10	405	372	99	-31	-1	1	-134	60	99
-26	-4	7	63	11	99	-27	-4	7	208	73	99	-28	-4	3	155	197	99	-30	0	8	281	143	99	-31	-2	9	70	10	99
-26	-4	6	427	371	99	-27	-4	6	298	237	99	-28	-4	2	-158	48	99	-30	0	6	600	593	99	-31	-2	8	474	491	99
-26	-4	5	179	164	99	-27	-4	5	-137	51	99	-28	-4	1	119	54	99	-30	0	4	476	441	99	-31	-2	7	120	28	99
-26	-4	4	285	377	99	-27	-4	4	267	340	99	-28	-5	5	-110	46	99	-30	0	2	392	392	99	-31	-2	6	320	278	99
-26	-4	3	173	208	99	-27	-4	3	200	159	99	-28	-5	4	208	287	99	-30	-1	10	-117	33	99	-31	-2	5	-153	17	99
-26	-4	2	113	62	99	-27	-4	2	460	455	99	-28	-5	3	208	138	99	-30	-1	9	144	82	99	-31	-2	4	298	289	99
-26	-4	1	92	41	99	-27	-4	1	-90	128	99	-28	-5	2	274	358	99	-30	-1	8	503	437	99	-31	-2	3	-192	62	99
-26	-5	7	195	138	99	-27	-5	6	314	354	99	-28	-5	1	-73	18	99	-30	-1	7	-143	91	99	-31	-2	2	459	492	99
-26	-5	6	134	183	99	-27	-5	5	148	121	99	-29	0	10	-190	75	99	-30	-1	6	234	265	99	-31	-2	1	-20	79	99
-26	-5	5	-153	32	99	-27	-5	4	123	244	99	-29	0	8	664	609	99	-30	-1	5	-21	5	99	-31	-3	8	-45	57	99
-26	-5	4	258	281	99	-27	-5	3	147	60	99	-29	0	6	372	338	99	-30	-1	4	344	365	99	-31	-3	7	85	49	99
-26	-5	3	87	225	99	-27	-5	2	162	48	99	-29	0	4	421	432	99	-30	-1	3	157	91	99	-31	-3	6	262	290	99
-26	-5	2	354	399	99	-27	-5	1	171	173	99	-29	0	2	751	780	99	-30	-1	2	726	787	99	-31	-3	5	307	245	99
-26	-5	1	-154	22	99	-28	0	10	382	327	99	-29	-1	11	102	148	99	-30	-1	1	-160	96	99	-31	-3	4	367	348	99
-27	0	12	362	381	99	-28	0	8	-192	52	99	-29	-1	10	310	236	99	-30	-2	10	403	409	99	-31	-3	3	-187	26	99
-27	0	10	-59	34	99	-28	0	6	863	845	99	-29	-1	9	-285	90	99	-30	-2	9	-246	30	99	-31	-3	2	-75	134	99
-27	0	8	856	808	99	-28	0	4	566	613	99	-29	-1	8	267	105	99	-30	-2	8	176	148	99	-31	-3	1	-113	147	99
-27	0	6	433	377	99	-28	0	2	588	588	99	-29	-1	7	47	98	99	-30	-2	7	73	77	99	-31	-4	6	226	143	99
-27	0	4	491	491	99	-28	-1	11	158	49	99	-29	-1	6	403	427	99	-30	-2	6	419	391	99	-31	-4	5	79	25	99
-27	0	2	840	840	99	-28	-1	10	160	55	99	-29	-1	5	147	84	99	-30	-2	5	-174	151	99	-31	-4	4	278	296	99
-27	-1	12	140	72	99	-28	-1	9	115	55	99	-29	-1	4	480	498	99	-30	-2	4	382	404	99	-31	-4	3	131	57	99
-27	-1	11	73	141	99	-28	-1	8	555	539	99	-29	-1	3	125	154	99	-30	-2	3	169	121	99	-31	-4	2	219	366	99
-27	-1	10	205	236	99	-28	-1	7	133	114	99	-29	-1	2	303	332	99	-30	-2	2	267	303	99	-31	-4	1	172	124	99
-27	-1	9	-135	150	99	-28	-1	6	379	322	99	-29	-1	1	-110	88	99	-30	-2	1	-169	52	99	-32	0	10	406	407	99
-27	-1	8	134	91	99	-28	-1	5	-237	95	99	-29	-2	10	210	90	99	-30	-3	9	157	50	99	-32	0	8	184	155	99
-27	-1	7	154	138	99	-28	-1	4	275	291	99	-29	-2	9	-104	16	99	-30	-3	8	366	341	99	-32	0	6	315	366	99
-27	-1	6	588	568	99	-28	-1	3	221	98	99	-29	-2	8	547	545	99	-30	-3	7	-204	27	99	-32	0	4	320	337	99
-27	-1	5	-217	116	99	-28	-1	2	704	748	99	-29	-2	7	-56	33	99	-30	-3	6	273	254	99	-32	0	2	382	379	99
-27	-1	4	752	766	99	-28	-1	1	-78	126	99	-29	-2	6	402	358	99	-30	-3	5	259	190	99	-32	-1	10	-173	20	99
-27	-1	3	-51	197	99	-28	-2	11	123	50	99	-29	-2	4	358	327	99	-30	-3	4	212	277	99	-32	-1	9	-288	127	99
-27	-1	2	-145	229	99	-28	-2	10	514	490	99	-29	-2	3	171	20	99	-30	-3	3	92	138	99	-32	-1	8	331	317	99
-27	-1	1	-55	198	99	-28	-2	9	171	32	99	-29	-2	4	248	279	99	-30	-3	2	314	418	99	-32	-1	7	-40	68	99
-32	-1	6	78	213	99	-33	-3	1	-102	145	99	-36	0	4	248	279	99												
-32	-1	5	249	112	99	-33	-4	3	-170	33	99	-36	0	2	143	151	99												
-32	-1	4	233	353	99	-33	-4	2	199	257	99	-36	-1	7	82	31	99												
-32	-1	3	276	63	99	-33	-4	1	-102	83	99	-36	-1	6	-155	136	99												
-32	-1	2	612	674	99	-34	0	8	141	123	99	-36	-1	5	165	7	99												
-32	-1	1	-111	86	99	-34	0	6	370	301	99	-36	-1	4	140	216	99												
-32	-2	9	-232	30	99	-34	0	4	354	340	99	-36	-1	3	-118	74	99												
-32	-2	8	-99	59	99	-34	0	2	275	263	99	-36	-1	2	142	383	99												
-32	-2	7	130	9	99	-34	-1	8	-133	235	99	-36	-1	1	59	25	99												
-32	-2	6	328	384	99	-34	-1	7	84	43	99	-36	-2	6	296	368	99												
-32	-2	5	90	199	99	-34	-1	6	112	155	99	-36	-2	5	193	65	99												
-32	-2	4	332	424	99	-34	-1	5	267	56	99	-36	-2	4	256	336	99												
-32	-2	3	88	35	99	-34	-1	4	253	310	99	-36	-2	3	64	13	99												
-32	-2	2	107	131	99	-34	-1	3	-271	63	99	-36	-2	2	182	89	99												
-32	-2	1	-56	13	99	-34	-1	2	487	525	99	-36	-2	1	-153	57	99												
-32	-3	8	305	307	99	-34	-1	1	151	32	99	-36	-3	2	230	226	99												
-32	-3	7	248	26	99	-34	-2	8	-120	15	99	-36	-3	1	-166	52	99												
-32	-3	6	157	210	99	-34	-2	7	-178	25	99	-37	0	6	178	123	99												
-32	-3	5	-241	94	99	-34	-2	6	422	403	99	-37	0	4	-132	209	99												
-32	-3	4	135	231	99	-34	-2	5	178	199	99	-37	0	2	250	350	99												
-32	-3	3	-200	68	99	-34	-2	4	93	362	99	-37	-1	6	187	226	99												
-32	-3	2	274	342	99	-34	-2	3	150	9	99	-37	-1	5	245	81	99												
-32	-3	1	173	61	99	-34	-2	2	-115	45	99	-37	-1	4	290	313	99												
-32	-4	5	-12	79	99	-34	-2	1	-107	58	99	-37	-1	3	-67	2	99												
-32	-4	4	177	231	99	-34	-3	6	164	186	99	-37	-1	2	-146	85	99												
-32	-4	3	-81	47	99	-34	-3	5	176	42	99	-37	-1	1	125	9	99												
-32	-4	2	163	63	99	-34	-3	4	-165	203	99	-37	-2	4	255	251	99												
-32	-4	1	-209	155	99	-34	-3	3	-294	28	99	-37	-2	3	-37	44	99												
-33	0	8	427	387	99	-34	-3	2	145	290	99	-37	-2	2	290	298	99												
-33	0	6	113	107	99	-34	-3	1	72	55	99	-37	-2	1	140	85	99												
-33	0	4	431	471	99	-35	0	8	375	370	99	-38	0	4	282	259	99												
-33	0	2	633	644	99	-35	0	6	203	103	99	-38	0	2	232	126	99												
-33	-1	9	90	36	99	-35	0	4	324	336	99	-38	-1	4	-297	132	99												
-33	-1	8	79	175	99	-35	0	2	431	474	99	-38	-1	3	-205	87	99												
-33	-1	7	-144	67	99	-35	-1	8	202	135	99	-38	-1	2	244	266	99												
-33	-1	6	342	291	99	-35	-1	7	54	107	99	-38	-1	1	-162	97	99												
-33	-1	5	171	180	99	-35	-1	6	-113	238	99	-39	0	2	167	231	99												
-33	-1	4	318	338	99	-35	-1	5	-178	139	99																		
-33	-1	3	145	53	99	-35	-1	4	291	350	99																		
-33	-1	2	193	204	99	-35	-1	3	174	25	99																		
-33	-1	1	121	51	99	-35	-1	2	-158	149	99																		
-33	-2	8	387	410	99	-35	-1	1	-116	30	99																		
-33	-2	7	111	34	99	-35	-2	7	-282	25	99																		
-33	-2	6	-7	213	99	-35	-2	6	165	160	99																		
-33	-2	5	-168	74	99	-35	-2	5	215	115	99																		
-33	-2	4	249	286	99	-35	-2	4	-194	282	99																		
-33	-2	3	-152	20	99	-35	-2	3	-261	12	99																		
-33	-2	2	315	436	99	-35	-2	2	303	360	99																		
-33	-2	1	-163	59	99	-35	-2	1	85	88	99																		
-33	-3	7	-115	29	99	-35	-3	5	141	50	99																		
-33	-3	6	165	308	99	-35	-3	4	163	282	99																		
-33	-3	5	148	99	99	-35	-3	3	-111	128	99																		
-33	-3	4	283	343	99	-35	-3	2	180	38	99																		
-33	-3	3	22	43	99	-35	-3	1	102	126	99																		
-33	-3	2	-295	69	99	-36	0	6	184	298	99																		

APPENDIX 7.IV

$[Hg(S_2COnPent)_2]$

Table 7.IV.1: Crystallographic Parameters for [Hg($S_2CO(CH_2CH_2CH_2CH_2CH_3)_2$]

Formula	$C_{12}H_{22}HgO_2S_4$
Formula weight	441.00
Crystal morphology / colour	needle / pale yellow
Crystal dimensions (mm)	0.08 x 0.15 x 0.42
Crystal system	monoclinic
Space group	*Cc* (# 9)
a (Å)	27.32(1)
b (Å)	5.854(7)
c (Å)	11.384(7)
α (°)	90
β (°)	95.35(5)
γ (°)	90
V (Å^3)	1813(2)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.931
F(000)	1016
Temperature (°K)	113
μ (cm^{-1})	89.25
θ limits, cell (°)	26.5 – 27.5
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 35, 0 – 7, -14 – 14
Range of transmission factors	0.933 – 1
Scan technique	ω:2θ
No. of data measured	2351
No. of unique data	2303
R_{amal}	0.185
No. of parameters	172
R (I≥0σ(I))	0.053
R_w (I≥0σ(I))	0.069
R (I≥3σ(I))	0.029
R_w (I≥3σ(I))	0.034
Maximum and minimum residual electron density (e Å^{-3})	1.48, -1.38

Table 7.IV.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Hg(S_2COCH_2CH_2CH_2CH_2CH_3)_2]$

Atom	*x*	*y*	*z*
Hg	0	0.05048(6)	0
S(1)	-0.0671(1)	0.2666(4)	0.0903(2)
S(2)	-0.0131(1)	0.6254(4)	-0.0295(2)
S(3)	0.02100(10)	0.1430(5)	-0.2089(2)
S(4)	0.0740(1)	-0.1780(5)	-0.3591(2)
O(1)	-0.0774(3)	0.709(1)	0.1164(6)
O(2)	0.0850(3)	-0.149(1)	-0.1287(6)
C(1)	-0.0540(4)	0.542(2)	0.0632(8)
C(2)	-0.1116(4)	0.651(2)	0.2049(9)
C(3)	-0.1255(4)	0.874(2)	0.2573(9)
C(4)	-0.1658(4)	0.852(2)	0.3403(9)
C(5)	-0.1752(4)	1.074(2)	0.402(1)
C(6)	-0.2180(5)	1.058(3)	0.481(1)
C(7)	0.0616(3)	-0.073(2)	-0.2272(8)
C(8)	0.1174(4)	-0.347(2)	-0.131(1)
C(9)	0.1393(4)	-0.387(2)	-0.005(1)
C(10)	0.1734(4)	-0.194(2)	0.043(1)
C(11)	0.1912(4)	-0.221(2)	0.172(1)
C(12)	0.2265(5)	-0.038(3)	0.219(1)

Table 7.IV.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Hg(S_2COCH_2CH_2CH_2CH_2CH_3)_2]$

Atom	$U11$	$U22$	$U33$	$U12$	$U13$	$U23$
Hg	0.0213(2)	0.0211(1)	0.0211(1)	0.0018(3)	0.0020(1)	0.0000(3)
S(1)	0.024(1)	0.016(1)	0.035(1)	-0.001(1)	0.009(1)	-0.002(1)
S(2)	0.029(2)	0.017(1)	0.027(1)	-0.0018(10)	0.0131(9)	-0.0012(10)
S(3)	0.024(1)	0.024(1)	0.0166(9)	0.004(1)	0.0000(10)	0.0015(10)
S(4)	0.021(1)	0.045(2)	0.020(1)	0.008(1)	0.0011(10)	-0.008(1)
O(1)	0.017(4)	0.021(4)	0.027(3)	0.003(3)	0.004(3)	0.000(3)
O(2)	0.012(4)	0.030(4)	0.024(3)	0.008(3)	-0.005(3)	0.001(3)
C(1)	0.014(4)	0.013(4)	0.027(4)	0.001(4)	-0.003(3)	-0.003(4)
C(2)	0.009(5)	0.033(5)	0.023(5)	0.000(4)	-0.001(4)	0.004(5)
C(3)	0.013(5)	0.029(5)	0.027(5)	-0.006(4)	0.003(4)	-0.002(4)
C(4)	0.008(5)	0.038(6)	0.032(5)	-0.007(4)	-0.002(4)	-0.005(5)
C(5)	0.020(6)	0.047(8)	0.041(6)	0.000(5)	0.004(5)	-0.013(6)
C(6)	0.030(7)	0.066(10)	0.041(6)	0.000(7)	0.017(5)	-0.022(7)
C(7)	0.006(4)	0.026(5)	0.024(4)	-0.001(4)	-0.003(3)	-0.004(4)
C(8)	0.017(6)	0.027(5)	0.041(6)	0.002(5)	-0.005(5)	-0.006(5)
C(9)	0.021(6)	0.033(6)	0.037(6)	0.001(5)	-0.003(5)	0.003(5)
C(10)	0.014(5)	0.032(6)	0.044(6)	0.004(5)	-0.004(5)	0.012(5)
C(11)	0.018(6)	0.042(7)	0.042(6)	0.005(5)	-0.007(5)	0.008(6)
C(12)	0.029(7)	0.063(9)	0.043(7)	0.002(7)	-0.014(6)	-0.011(7)

Table 7.IV.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Hg(S_2COCH_2CH_2CH_2CH_2CH_3)_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	-0.1400	0.5771	0.1683	2.0465
H(2b)	-0.0960	0.5547	0.2640	2.0465
H(3a)	-0.1365	0.9746	0.1951	2.1412
H(3b)	-0.0970	0.9361	0.3004	2.1412
H(4a)	-0.1953	0.8046	0.2959	2.4562
H(4b)	-0.1563	0.7389	0.3982	2.4562
H(5a)	-0.1829	1.1885	0.3439	3.3392
H(5b)	-0.1462	1.1165	0.4496	3.3392
H(6a)	-0.2475	1.0197	0.4344	4.2526
H(6b)	-0.2109	0.9429	0.5394	4.2526
H(6c)	-0.2220	1.2005	0.5190	4.2526
H(8a)	0.0991	-0.4776	-0.1591	2.7106
H(8b)	0.1428	-0.3185	-0.1805	2.7106
H(9a)	0.1131	-0.3999	0.0447	2.8042
H(9b)	0.1575	-0.5256	-0.0017	2.8042
H(10a)	0.1562	-0.0537	0.0329	2.8559
H(10b)	0.2012	-0.1915	-0.0014	2.8559
H(11a)	0.1634	-0.2183	0.2160	3.3125
H(11b)	0.2072	-0.3647	0.1820	3.3125
H(12a)	0.2110	0.1071	0.2096	4.4082
H(12b)	0.2549	-0.0408	0.1770	4.4082
H(12c)	0.2356	-0.0648	0.3004	4.4082

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 7.IV.5: Bond distances (Å) for $[Hg(S_2COCH_2CH_2CH_2CH_2CH_3)_2]$

Hg — S(1)	2.524(3)	O(2) — C(7)	1.31(1)
Hg — S(2)*	2.532(3)	O(2) — C(8)	1.46(1)
Hg — S(3)	2.555(2)	C(2) — C(3)	1.50(2)
Hg — S(4)**	2.572(3)	C(3) — C(4)	1.52(1)
S(1) — C(1)	1.69(1)	C(4) — C(5)	1.51(2)
S(2) — C(1)	1.68(1)	C(5) — C(6)	1.55(2)
S(3) — C(7)	1.71(1)	C(8) — C(9)	1.52(2)
S(4) — C(7)	1.69(1)	C(9) — C(10)	1.53(2)
O(1) — C(1)	1.34(1)	C(10) — C(11)	1.51(2)
O(1) — C(2)	1.48(1)	C(11) — C(12)	1.51(2)

* symmetry operation: x, -1 + y, z. ** symmetry operation: x, -y, 0.5 + z.

Table 7.IV.6: Bond angles (deg.) for [Hg($S_2COCH_2CH_2CH_2CH_2CH_3$)2]

S(1) — Hg — S(2)*	116.60(8)	S(1) — C(1) — O(1)	119.7(7)
S(1) — Hg — S(3)	120.50(9)	S(2) — C(1) — O(1)	116.4(7)
S(1) — Hg — S(4)**	99.15(9)	O(1) — C(2) — C(3)	105.9(8)
S(2) — Hg — S(3)	97.25(8)	C(2) — C(3) — C(4)	113.6(9)
S(2)* — Hg — S(4)**	117.45(9)	C(3) — C(4) — C(5)	112(1)
S(3) — Hg — S(4)**	106.69(8)	C(4) — C(5) — C(6)	113(1)
Hg — S(1) — C(1)	103.3(4)	S(3) — C(7) — S(4)	124.4(6)
Hg — S(2)* — C(1)*	107.2(3)	S(3) — C(7) — O(2)	114.6(7)
Hg — S(3) — C(7)	99.3(3)	S(4) — C(7) — O(2)	121.0(7)
Hg — S(4)** — C(7)**	103.8(3)	O(2) — C(8) — C(9)	106.9(9)
C(1) — O(1) — C(2)	120.0(8)	C(8) — C(9) — C(10)	113(1)
C(7) — O(2) — C(8)	120.0(8)	C(9) — C(10) — C(11)	113(1)
S(1) — C(1) — S(2)	124.0(6)	C(10) — C(11) — C(12)	114(1)

* symmetry operation: x, -1 + y, z. ** symmetry operation: x, -y, 0.5 + z.

Table 7.IV.7: Observed and calculated structure factors for $[Hg(S_2COCH_2CH_2CH_2CH_2CH_3)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	2	3154	2965	99	1	1	-4	2114	2200	99	1	5	-2	346	356	99	2	2	2	1825	1782	99	2	6	8	303	286	99
0	0	4	2621	2539	99	1	1	-3	974	952	99	1	5	-1	1420	1445	99	2	2	3	1602	1515	99	3	1	-14	896	936	99
0	0	6	2404	2306	99	1	1	-2	2329	2273	99	1	5	0	294	266	99	2	2	4	1815	1801	99	3	1	-13	-72	222	99
0	0	8	2051	2033	99	1	1	-1	1014	944	99	1	5	1	1903	1928	99	2	2	5	1882	1926	99	3	1	-12	824	875	99
0	0	10	1537	1527	99	1	1	0	2916	3061	99	1	5	2	141	3	99	2	2	6	1750	1788	99	3	1	-11	435	407	99
0	0	12	838	794	99	1	1	1	393	371	99	1	5	3	1764	1768	99	2	2	7	992	1044	99	3	1	-10	1300	1378	99
0	0	14	1047	1039	99	1	1	2	1108	1089	99	1	5	4	390	394	99	2	2	8	1463	1543	99	3	1	-9	1180	1204	99
0	2	0	1281	1278	99	1	1	3	1233	1267	99	1	5	5	1053	1001	99	2	2	9	731	741	99	3	1	-8	1679	1713	99
0	2	1	2323	2249	99	1	1	4	2192	2261	99	1	5	6	309	294	99	2	2	10	980	961	99	3	1	-7	313	302	99
0	2	2	2174	2085	99	1	1	5	943	939	99	1	5	7	1208	1164	99	2	2	11	661	669	99	3	1	-6	1719	1769	99
0	2	3	1331	1240	99	1	1	6	1744	1847	99	1	5	8	88	27	99	2	2	12	722	715	99	3	1	-5	374	370	99
0	2	4	2703	2592	99	1	1	7	436	446	99	1	5	9	977	965	99	2	2	13	373	392	99	3	1	-4	2351	2398	99
0	2	5	1895	1913	99	1	1	8	1784	1820	99	1	5	10	171	171	99	2	2	14	541	541	99	3	1	-3	784	739	99
0	2	6	1616	1652	99	1	1	9	579	583	99	1	5	11	945	914	99	2	4	-12	494	494	99	3	1	-2	2241	2212	99
0	2	7	1119	1158	99	1	1	10	1338	1340	99	1	7	-5	801	798	99	2	4	-11	1163	1137	99	3	1	-1	2169	2190	99
0	2	8	1176	1224	99	1	1	11	489	485	99	1	7	-4	822	792	99	2	4	-10	425	449	99	3	1	0	2494	2486	99
0	2	9	940	981	99	1	1	12	933	957	99	1	7	-3	898	889	99	2	4	-9	1112	1051	99	3	1	1	589	563	99
0	2	10	989	1010	99	1	1	13	649	637	99	1	7	-2	777	783	99	2	4	-8	466	424	99	3	1	2	1923	1912	99
0	2	11	407	454	99	1	1	14	967	959	99	1	7	-1	794	822	99	2	4	-7	1348	1294	99	3	1	3	335	302	99
0	2	12	855	847	99	1	3	-13	582	639	99	1	7	0	456	463	99	2	4	-6	129	286	99	3	1	4	2099	2161	99
0	2	13	456	466	99	1	3	-12	695	726	99	1	7	1	699	690	99	2	4	-5	1397	1443	99	3	1	5	1597	1593	99
0	2	14	610	599	99	1	3	-11	748	731	99	1	7	2	584	600	99	2	4	-4	299	266	99	3	1	6	2168	2266	99
0	4	0	-58	86	99	1	3	-10	758	773	99	1	7	3	635	654	99	2	4	-3	1766	1712	99	3	1	7	631	656	99
0	4	1	1608	1651	99	1	3	-9	1046	1024	99	1	7	4	573	599	99	2	4	-2	662	651	99	3	1	8	1549	1610	99
0	4	2	1059	1044	99	1	3	-8	1018	1006	99	1	7	5	840	854	99	2	4	-1	1627	1660	99	3	1	9	293	296	99
0	4	3	2105	2064	99	1	3	-7	1274	1256	99	2	0	-14	1146	1107	99	2	4	0	266	274	99	3	1	10	1560	1598	99
0	4	4	294	241	99	1	3	-6	1127	1023	99	2	0	-12	669	661	99	2	4	1	1711	1781	99	3	1	11	527	549	99
0	4	5	1562	1475	99	1	3	-5	1689	1670	99	2	0	-10	1604	1555	99	2	4	2	800	790	99	3	1	12	1039	998	99
0	4	6	413	380	99	1	3	-4	1495	1586	99	2	0	-8	2533	2469	99	2	4	3	2061	2078	99	3	1	13	550	549	99
0	4	7	1278	1202	99	1	3	-3	1480	1409	99	2	0	-6	2865	2808	99	2	4	4	638	646	99	3	1	14	1025	1059	99
0	4	8	262	244	99	1	3	-2	1527	1481	99	2	0	-4	2260	2225	99	2	4	5	1327	1310	99	3	3	-13	776	762	99
0	4	9	927	878	99	1	3	-1	1433	1417	99	2	0	-2	2680	2653	99	2	4	6	556	534	99	3	3	-12	808	815	99
0	4	10	473	438	99	1	3	0	989	1006	99	2	0	2	3275	3251	99	2	4	7	1191	1173	99	3	3	-11	982	915	99
0	4	11	1129	1073	99	1	3	1	1072	1046	99	2	0	4	2629	2634	99	2	4	8	396	358	99	3	3	-10	458	394	99
0	4	12	605	575	99	1	3	2	2136	2083	99	2	0	6	1852	1851	99	2	4	9	1141	1090	99	3	3	-9	1118	1065	99
0	6	0	271	293	99	1	3	3	1532	1456	99	2	0	8	1394	1360	99	2	4	10	237	218	99	3	3	-8	937	939	99
0	6	1	853	861	99	1	3	4	1297	1210	99	2	0	10	1509	1517	99	2	4	11	932	923	99	3	3	-7	1044	1019	99
0	6	2	585	602	99	1	3	5	1755	1655	99	2	0	12	961	915	99	2	4	12	591	558	99	3	3	-6	1360	1332	99
0	6	3	954	940	99	1	3	6	839	822	99	2	0	14	1040	1004	99	2	6	-9	430	542	99	3	3	-5	1704	1749	99
0	6	4	351	382	99	1	3	7	1341	1311	99	2	2	-14	572	616	99	2	6	-8	203	300	99	3	3	-4	1356	1466	99
0	6	5	778	744	99	1	3	8	1028	1017	99	2	2	-13	452	466	99	2	6	-7	871	946	99	3	3	-3	1770	1713	99
0	6	6	60	133	99	1	3	9	1240	1209	99	2	2	-12	990	1041	99	2	6	-6	67	258	99	3	3	-2	1384	1349	99
0	6	7	1101	1056	99	1	3	10	758	768	99	2	2	-11	606	608	99	2	6	-5	827	756	99	3	3	-1	1920	1905	99
0	6	8	268	267	99	1	3	11	958	965	99	2	2	-10	966	982	99	2	6	-4	391	331	99	3	3	0	1355	1368	99
0	6	9	723	696	99	1	3	12	655	663	99	2	2	-9	1211	1264	99	2	6	-3	969	937	99	3	3	1	1261	1261	99
1	1	-14	966	1001	99	1	3	13	608	596	99	2	2	-8	796	805	99	2	6	-2	390	395	99	3	3	2	1979	2021	99
1	1	-13	406	401	99	1	5	-11	988	905	99	2	2	-7	1034	1072	99	2	6	-1	908	934	99	3	3	3	1382	1354	99
1	1	-12	891	931	99	1	5	-10	-164	153	99	2	2	-6	1611	1599	99	2	6	0	344	349	99	3	3	4	1167	1128	99
1	1	-11	432	423	99	1	5	-9	1044	1029	99	2	2	-5	1666	1622	99	2	6	1	1032	1032	99	3	3	5	1213	1215	99
1	1	-10	1337	1388	99	1	5	-8	199	56	99	2	2	-4	2496	2381	99	2	6	2	586	592	99	3	3	6	739	746	99
1	1	-9	823	821	99	1	5	-7	1224	1382	99	2	2	-3	1404	1500	99	2	6	3	957	959	99	3	3	7	1394	1388	99
1	1	-8	1734	1774	99	1	5	-6	240	280	99	2	2	-2	2322	2238	99	2	6	4	564	551	99	3	3	8	896	933	99
1	1	-7	282	295	99	1	5	-5	1182	1134	99	2	2	-1	2548	2502	99	2	6	5	896	888	99	3	3	9	1446	1396	99
1	1	-6	1946	1999	99	1	5	-4	-25	242	99	2	2	0	1457	1467	99	2	6	6	327	275	99	3	3	10	513	506	99
1	1	-5	294	287	99	1	5	-3	1705	1662	99	2	2	1	2185	2204	99	2	6	7	1061	1063	99	3	3	11	924	951	99
3	3	12	615	636	99	4	2	-8	1129	1146	99	4	6	-2	-38	209	99	5	3	2	1423	1449	99	6	0	6	2508	2531	99
3	3	13	640	622	99	4	2	-7	859	861	99	4	6	-1	1106	1084	99	5	3	3	1217	1247	99	6	0	8	726	746	99
3	5	-11	911	868	99	4	2	-6	1446	1462	99	4	6	0	444	426	99	5	3	4	1118	1156	99	6	0	10	1306	1306	99
3	5	-10	-271	34	99	4	2	-5	1535	1478	99	4	6	1	819	855	99	5	3	5	1158	1367	99	6	0	12	929	912	99
3	5	-9	891	866	99	4	2	-4	1859	1834	99	4	6	2	546	572	99	5	3	6	598	616	99	6	0	14	738	698	99
3	5	-8	244	221	99	4	2	-3	1995	2109	99	4	6	3	1076	1077	99	5	3	7	1350	1364	99	6	2	-14	725	720	99
3	5	-7	1406	1575	99	4	2	-2	2446	2431	99	4	6	4	404	424	99	5	3	8	1091	1104	99	6	2	-13	526	523	99
3	5	-6	-81	87	99	4	2	-1	2043	2021	99	4	6	5	850	855	99	5	3	9	1199	1267	99	6	2	-12	1036	1032	99
3	5	-5	1410	1379	99	4	2	0	2478	2537	99	4	6	6	300	294	99	5	3	10	325	324	99	6	2	-11	774	781	99
3	5	-4	124	114	99	4	2	1	1440	1468	99	4	6	7	971	969	99	5	3	11	1010	985	99	6	2	-10	1134	1125	99
3	5	-3	1454	1423	99	4	2	2	1709	1725	99	4	6	8	286	278	99	5	3	12	517	520	99	6	2	-9	1359	1342	99
3	5	-2	442	449	99	4	2	3	1149	1159	99	5	1	-14	853	882	99	5	3	13	781	749	99	6	2	-8	1330	1330	99
3	5	-1	1479	1464	99	4	2	4	1431	1442	99	5	1	-13	164	206	99	5	5	-11	770	744	99	6	2	-7	969	941	99
3	5	0	210	234	99	4	2	5	1443	1487	99	5	1	-12	883	954	99	5	5	-10	124	101	99	6	2	-6	1345	1342	99
3	5	1	1701	1711	99	4	2	6	1513	1553	99	5	1	-11	422	401	99	5	5	-9	748	810	99	6	2	-5	1637	1584	99
3	5	2	269	255	99	4	2	7	781	814	99	5	1	-10	1405	1445	99	5	5	-8	97	214	99	6	2	-4	1207	1253	99
3	5	3	1807	1864	99	4	2	8	1507	1549	99	5	1	-9	984	1076	99	5	5	-7	1364	1532	99	6	2	-3	1800	1896	99
3	5	4	448	443	99	4	2	9	524	542	99	5	1	-8	1474	1518	99	5	5	-6	-219	100	99	6	2	-2	2242	2256	99
3	5	5	910	935	99	4	2	10	1144	1166	99	5	1	-7	470	470	99	5	5	-5	1399	1429	99	6	2	-1	1894	1840	99
3	5	6	-92	218	99	4	2	11	687	674	99	5	1	-6	1647	1656	99	5	5	-4	402	345	99	6	2	0	2293	2319	99
3	5	7	1066	1080	99	4	2	12	629	634	99	5	1	-5	399	409	99	5	5	-3	1581	1498	99	6	2	1	1915	1993	99
3	5	8	151	77	99	4	2	13	463	479	99	5	1	-4	2594	2575	99	5	5	-2	418	442	99	6	2	2	2168	2195	99
3	5	9	843	837	99	4	2	14	633	604	99	5	1	-3	467	420	99	5	5	-1	1467	1480	99	6	2	3	1312	1296	99
3	5	10	142	163	99	4	4	-12	-101	323	99	5	1	-2	2072	2147	99	5	5	0	160	211	99	6	2	4	934	952	99
3	7	-5	763	721	99	4	4	-11	1119	1021	99	5	1	-1	1397	1391	99	5	5	1	1225	1257	99	6	2	5	1843	1843	99
3	7	-4	702	663	99	4	4	-10	429	384	99	5	1	0	3588	3585	99	5	5	2	116	129	99	6	2	6	1342	1328	99
3	7	-3	999	957	99	4	4	-9	1007	964	99	5	1	1	631	612	99	5	5	3	1875	1906	99	6	2	7	812	819	99
3	7	-2	839	843	99	4	4	-8	543	540	99	5	1	2	2363	2372	99	5	5	4	370	332	99	6	2	8	1613	1643	99
3	7	-1	1017	991	99	4	4	-7	1328	1363	99	5	1	3	247	236	99	5	5	5	1058	1057	99	6	2	9	761	760	99
3	7	0	478	492	99	4	4	-6	518	504	99	5	1	4	2213	2210	99	5	5	6	67	103	99	6	2	10	1053	1074	99
3	7	1	668	667	99	4	4	-5	1399	1472	99	5	1	5	1527	1545	99	5	5	7	1105	1122	99	6	2	11	669	651	99
3	7	2	528	536	99	4	4	-4	493	493	99	5	1	6	2000	2068	99	5	5	8	125	207	99	6	2	12	681	725	99
3	7	3	576	546	99	4	4	-3	1351	1296	99	5	1	7	624	636	99	5	5	9	775	748	99	6	2	13	516	498	99
3	7	4	459	468	99	4	4	-2	199	168	99	5	1	8	1365	1381	99	5	5	10	115	121	99	6	4	-12	120	158	99
3	7	5	723	723	99	4	4	-1	1621	1656	99	5	1	9	405	408	99	5	7	-5	700	688	99	6	4	-11	819	758	99
4	0	-14	892	883	99	4	4	0	645	647	99	5	1	10	1599	1655	99	5	7	-4	515	478	99	6	4	-10	376	345	99
4	0	-12	794	758	99	4	4	1	1716	1749	99	5	1	11	470	477	99	5	7	-3	965	932	99	6	4	-9	1072	1002	99
4	0	-10	1659	1680	99	4	4	2	624	656	99	5	1	12	1019	1033	99	5	7	-2	1011	947	99	6	4	-8	383	377	99
4	0	-8	2172	2198	99	4	4	3	1805	1842	99	5	1	13	408	408	99	5	7	-1	1023	975	99	6	4	-7	1420	1558	99
4	0	-6	2470	2460	99	4	4	4	731	720	99	5	1	14	919	931	99	5	7	0	652	653	99	6	4	-6	578	627	99
4	0	-4	3230	3237	99	4	4	5	1160	1180	99	5	3	-13	841	824	99	5	7	1	719	732	99	6	4	-5	1477	1566	99
4	0	-2	1659	1621	99	4	4	6	793	785	99	5	3	-12	781	747	99	5	7	2	632	616	99	6	4	-4	292	288	99
4	0	2	4517	4591	99	4	4	7	1417	1444	99	5	3	-11	921	874	99	5	7	3	552	549	99	6	4	-3	1316	1279	99
4	0	4	3400	3445	99	4	4	8	516	504	99	5	3	-10	472	474	99	5	7	4	408	430	99	6	4	-2	452	413	99
4	0	6	2328	2403	99	4	4	9	1096	1107	99	5	3	-9	846	799	99	5	7	5	523	540	99	6	4	-1	1673	1680	99
4	0	8	945	926	99	4	4	10	270	175	99	5	3	-8	1103	1050	99	6	0	-14	765	807	99	6	4	0	-163	163	99
4	0	10	1476	1469	99	4	4	11	771	754	99	5	3	-7	882	842	99	6	0	-12	1093	1088	99	6	4	1	1638	1648	99
4	0	12	1013	990	99	4	4	12	506	478	99	5	3	-6	1580	1560	99	6	0	-10	1648	1688	99	6	4	2	571	572	99
4	0	14	1016	971	99	4	6	-9	495	580	99	5	3	-5	1442	1513	99	6	0	-8	1870	1904	99	6	4	3	1767	1732	99
4	2	-14	645	685	99	4	6	-8	338	406	99	5	3	-4	1226	1257	99	6	0	-6	2400	2413	99	6	4	4	593	641	99
4	2	-13	385	406	99	4	6	-7	783	855	99	5	3	-3	1584	1580	99	6	0	-4	3526	3515	99	6	4	5	1370	1422	99
4	2	-12	1067	1073	99	4	6	-6	439	477	99	5	3	-2	1761	1657	99	6	0	-2	3352	3347	99	6	4	6	800	795	99
4	2	-11	705	732	99	4	6	-5	784	765	99	5	3	-1	1722	1722	99	6	0	0	2344	2504	99	6	4	7	1402	1452	99
4	2	-10	933	987	99	4	6	-4	408	405	99	5	3	0	1367	1325	99	6	0	2	3815	3958	99	6	4	8	675	676	99
4	2	-9	1247	1229	99	4	6	-3	998	961	99	5	3	1	1844	1876	99	6	0	4	3732	3708	99	6	4	9	1081	1084	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF
6	4	10	-30	152	99	7	3	-8	908	882	99	8	0	-10	1644	1689	99	8	4	2	352	365	99	9	3	-13	821	772	99
6	4	11	675	683	99	7	3	-7	911	915	99	8	0	-8	1820	1828	99	8	4	3	1426	1474	99	9	3	-12	592	561	99
6	4	12	348	328	99	7	3	-6	1521	1552	99	8	0	-6	2016	2036	99	8	4	4	505	518	99	9	3	-11	822	812	99
6	6	-9	581	656	99	7	3	-5	1167	1166	99	8	0	-4	4556	4534	99	8	4	5	1328	1309	99	9	3	-10	685	664	99
6	6	-8	421	426	99	7	3	-4	808	820	99	8	0	-2	3199	3173	99	8	4	6	544	577	99	9	3	-9	1300	1204	99
6	6	-7	618	658	99	7	3	-3	1380	1372	99	8	0	0	2013	2029	99	8	4	7	1365	1396	99	9	3	-8	1066	1038	99
6	6	-6	518	542	99	7	3	-2	1676	1624	99	8	0	2	2214	2261	99	8	4	8	722	741	99	9	3	-7	833	820	99
6	6	-5	754	718	99	7	3	-1	1846	1814	99	8	0	4	2911	2867	99	8	4	9	1006	1016	99	9	3	-6	1327	1408	99
6	6	-4	163	377	99	7	3	0	1465	1422	99	8	0	6	2545	2527	99	8	4	10	151	210	99	9	3	-5	970	956	99
6	6	-3	981	926	99	7	3	1	1895	1901	99	8	0	8	1318	1286	99	8	4	11	689	685	99	9	3	-4	939	943	99
6	6	-2	294	262	99	7	3	2	1303	1342	99	8	0	10	1514	1514	99	8	6	-8	365	254	99	9	3	-3	1240	1263	99
6	6	-1	918	891	99	7	3	3	1350	1389	99	8	0	12	663	671	99	8	6	-7	651	667	99	9	3	-2	1815	1773	99
6	6	0	317	309	99	7	3	4	1067	1082	99	8	0	14	711	694	99	8	6	-6	508	512	99	9	3	-1	1477	1467	99
6	6	1	847	824	99	7	3	5	1394	1326	99	8	2	-14	632	607	99	8	6	-5	663	654	99	9	3	0	1648	1665	99
6	6	2	450	469	99	7	3	6	997	995	99	8	2	-13	688	671	99	8	6	-4	215	292	99	9	3	1	1835	1851	99
6	6	3	1139	1173	99	7	3	7	873	882	99	8	2	-12	874	853	99	8	6	-3	837	821	99	9	3	2	890	916	99
6	6	4	343	337	99	7	3	8	1120	1116	99	8	2	-11	769	755	99	8	6	-2	504	486	99	9	3	3	1440	1475	99
6	6	5	782	804	99	7	3	9	1131	1104	99	8	2	-10	1087	1013	99	8	6	-1	1013	946	99	9	3	4	1307	1263	99
6	6	6	383	398	99	7	3	10	154	215	99	8	2	-9	1504	1492	99	8	6	0	232	214	99	9	3	5	1329	1272	99
6	6	7	947	955	99	7	3	11	963	929	99	8	2	-8	1527	1482	99	8	6	1	840	834	99	9	3	6	981	973	99
6	6	8	414	409	99	7	3	12	457	428	99	8	2	-7	941	929	99	8	6	2	388	356	99	9	3	7	1031	1036	99
7	1	-14	797	807	99	7	5	-11	789	798	99	8	2	-6	1624	1579	99	8	6	3	1078	1142	99	9	3	8	831	818	99
7	1	-13	358	317	99	7	5	-10	126	185	99	8	2	-5	1822	1816	99	8	6	4	397	414	99	9	3	9	957	953	99
7	1	-12	1031	1061	99	7	5	-9	820	883	99	8	2	-4	1005	1044	99	8	6	5	849	849	99	9	3	10	187	302	99
7	1	-11	142	168	99	7	5	-8	263	217	99	8	2	-3	1582	1589	99	8	6	6	417	440	99	9	3	11	934	925	99
7	1	-10	1184	1156	99	7	5	-7	1275	1430	99	8	2	-2	1752	1799	99	8	6	7	870	895	99	9	3	12	431	421	99
7	1	-9	572	583	99	7	5	-6	-182	74	99	8	2	-1	1748	1717	99	8	6	8	444	464	99	9	5	-10	277	175	99
7	1	-8	1308	1365	99	7	5	-5	1477	1549	99	8	2	0	2609	2604	99	9	1	-14	838	851	99	9	5	-9	740	801	99
7	1	-7	450	436	99	7	5	-4	269	247	99	8	2	1	2304	2312	99	9	1	-13	558	552	99	9	5	-8	215	153	99
7	1	-6	1187	1223	99	7	5	-3	1546	1518	99	8	2	2	2367	2362	99	9	1	-12	973	994	99	9	5	-7	1241	1290	99
7	1	-5	820	819	99	7	5	-2	372	338	99	8	2	3	1461	1426	99	9	1	-11	226	159	99	9	5	-6	161	101	99
7	1	-4	2451	2349	99	7	5	-1	1720	1726	99	8	2	4	1379	1360	99	9	1	-10	1248	1263	99	9	5	-5	1298	1297	99
7	1	-3	508	459	99	7	5	0	109	205	99	8	2	5	1330	1365	99	9	1	-9	153	234	99	9	5	-4	137	151	99
7	1	-2	2052	2114	99	7	5	1	1214	1199	99	8	2	6	1495	1473	99	9	1	-8	1459	1435	99	9	5	-3	1524	1526	99
7	1	-1	1169	1149	99	7	5	2	241	229	99	8	2	7	537	561	99	9	1	-7	876	834	99	9	5	-2	56	102	99
7	1	0	2042	1973	99	7	5	3	1517	1594	99	8	2	8	1159	1209	99	9	1	-6	1546	1508	99	9	5	-1	1812	1789	99
7	1	1	1295	1261	99	7	5	4	-91	71	99	8	2	9	853	868	99	9	1	-5	1167	1124	99	9	5	0	391	410	99
7	1	2	2172	2193	99	7	5	5	1180	1179	99	8	2	10	995	999	99	9	1	-4	2472	2412	99	9	5	1	1102	1121	99
7	1	3	605	588	99	7	5	6	257	302	99	8	2	11	696	679	99	9	1	-3	823	845	99	9	5	2	339	344	99
7	1	4	2139	2028	99	7	5	7	1155	1205	99	8	2	12	869	877	99	9	1	-2	1934	1974	99	9	5	3	1119	1116	99
7	1	5	1031	1074	99	7	5	8	322	325	99	8	2	13	190	247	99	9	1	-1	849	826	99	9	5	4	-110	125	99
7	1	6	1885	1855	99	7	5	9	756	780	99	8	4	-12	316	213	99	9	1	0	2218	2198	99	9	5	5	1177	1213	99
7	1	7	534	516	99	7	5	10	-136	137	99	8	4	-11	865	799	99	9	1	1	713	696	99	9	5	6	295	292	99
7	1	8	1159	1170	99	7	7	-5	696	661	99	8	4	-10	406	404	99	9	1	2	2530	2538	99	9	5	7	1061	1162	99
7	1	9	643	660	99	7	7	-4	194	346	99	8	4	-9	1161	1159	99	9	1	3	910	901	99	9	5	8	190	196	99
7	1	10	1544	1535	99	7	7	-3	868	855	99	8	4	-8	185	128	99	9	1	4	2375	2302	99	9	5	9	772	785	99
7	1	11	577	556	99	7	7	-2	902	880	99	8	4	-7	1389	1560	99	9	1	5	710	709	99	9	5	10	73	110	99
7	1	12	1046	1048	99	7	7	-1	916	906	99	8	4	-6	577	585	99	9	1	6	1852	1812	99	9	7	-4	343	334	99
7	1	13	143	187	99	7	7	0	688	668	99	8	4	-5	1404	1451	99	9	1	7	411	373	99	9	7	-3	779	736	99
7	1	14	703	747	99	7	7	1	906	869	99	8	4	-4	173	160	99	9	1	8	1378	1355	99	9	7	-2	601	591	99
7	3	-13	882	842	99	7	7	2	740	681	99	8	4	-3	1431	1383	99	9	1	9	793	807	99	9	7	-1	754	732	99
7	3	-12	682	648	99	7	7	3	755	762	99	8	4	-2	651	653	99	9	1	10	1408	1398	99	9	7	0	674	639	99
7	3	-11	798	757	99	7	7	4	396	375	99	8	4	-1	1736	1731	99	9	1	11	578	581	99	9	7	1	938	918	99
7	3	-10	596	555	99	8	0	-14	854	859	99	8	4	0	320	325	99	9	1	12	1017	982	99	9	7	2	748	726	99
7	3	-9	1130	1102	99	8	0	-12	1057	1077	99	8	4	1	1359	1397	99	9	1	13	109	68	99	9	7	3	872	845	99
9	7	4	485	471	99	10	4	0	379	363	99	11	1	13	162	165	99	12	0	-14	1066	1060	99	12	4	3	1386	1392	99
10	0	-14	1011	991	99	10	4	1	1168	1191	99	11	3	-13	678	612	99	12	0	-12	1201	1209	99	12	4	4	636	594	99
10	0	-12	1133	1163	99	10	4	2	354	351	99	11	3	-12	607	565	99	12	0	-10	1154	1129	99	12	4	5	1415	1393	99
10	0	-10	1669	1696	99	10	4	3	1216	1245	99	11	3	-11	699	685	99	12	0	-8	1892	1856	99	12	4	6	266	244	99
10	0	-8	1580	1586	99	10	4	4	584	601	99	11	3	-10	867	856	99	12	0	-6	1996	2004	99	12	4	7	904	887	99
10	0	-6	2283	2303	99	10	4	5	1572	1588	99	11	3	-9	1149	1118	99	12	0	-4	2311	2303	99	12	4	8	682	663	99
10	0	-4	3361	3372	99	10	4	6	548	521	99	11	3	-8	977	951	99	12	0	-2	2789	2859	99	12	4	9	979	956	99
10	0	-2	2130	2168	99	10	4	7	1332	1312	99	11	3	-7	1031	1115	99	12	0	0	3271	3186	99	12	4	10	442	401	99
10	0	0	2774	2768	99	10	4	8	813	785	99	11	3	-6	864	894	99	12	0	2	2363	2373	99	12	4	11	706	730	99
10	0	2	2536	2553	99	10	4	9	930	964	99	11	3	-5	1247	1212	99	12	0	4	503	512	99	12	6	-8	169	147	99
10	0	4	1441	1454	99	10	4	10	282	280	99	11	3	-4	1210	1193	99	12	0	6	1904	1857	99	12	6	-7	772	802	99
10	0	6	2177	2147	99	10	4	11	802	772	99	11	3	-3	1185	1187	99	12	0	8	1561	1508	99	12	6	-6	119	191	99
10	0	8	1708	1691	99	10	6	-8	187	190	99	11	3	-2	1702	1690	99	12	0	10	1367	1363	99	12	6	-5	803	818	99
10	0	10	1432	1409	99	10	6	-7	763	815	99	11	3	-1	1426	1407	99	12	0	12	624	627	99	12	6	-4	293	312	99
10	0	12	615	585	99	10	6	-6	377	395	99	11	3	0	871	869	99	12	2	-13	868	804	99	12	6	-3	721	673	99
10	2	-14	555	560	99	10	6	-5	631	649	99	11	3	1	1813	1834	99	12	2	-12	652	614	99	12	6	-2	679	647	99
10	2	-13	799	766	99	10	6	-4	348	299	99	11	3	2	832	842	99	12	2	-11	594	559	99	12	6	-1	1022	936	99
10	2	-12	685	663	99	10	6	-3	920	866	99	11	3	3	1647	1559	99	12	2	-10	1211	1122	99	12	6	0	347	332	99
10	2	-11	588	568	99	10	6	-2	672	682	99	11	3	4	1367	1296	99	12	2	-9	953	993	99	12	6	1	907	873	99
10	2	-10	1236	1216	99	10	6	-1	1018	969	99	11	3	5	1867	1846	99	12	2	-8	1210	1210	99	12	6	2	189	193	99
10	2	-9	1155	1090	99	10	6	0	329	305	99	11	3	6	579	578	99	12	2	-7	1402	1399	99	12	6	3	1066	1052	99
10	2	-8	1677	1603	99	10	6	1	898	855	99	11	3	7	1177	1120	99	12	2	-6	1486	1494	99	12	6	4	375	411	99
10	2	-7	924	882	99	10	6	2	233	237	99	11	3	8	656	670	99	12	2	-5	1507	1559	99	12	6	5	817	836	99
10	2	-6	1726	1689	99	10	6	3	1101	1087	99	11	3	9	862	856	99	12	2	-4	1551	1578	99	12	6	6	103	173	99
10	2	-5	1935	1923	99	10	6	4	410	406	99	11	3	10	429	450	99	12	2	-3	1625	1577	99	12	6	7	836	909	99
10	2	-4	1086	1089	99	10	6	5	878	905	99	11	3	11	804	839	99	12	2	-2	1536	1518	99	13	1	-14	933	887	99
10	2	-3	1562	1531	99	10	6	6	281	306	99	11	3	12	595	562	99	12	2	-1	887	895	99	13	1	-13	593	570	99
10	2	-2	1772	1803	99	10	6	7	784	842	99	11	5	-10	131	100	99	12	2	0	1264	1218	99	13	1	-12	846	814	99
10	2	-1	849	823	99	11	1	-14	864	873	99	11	5	-9	791	899	99	12	2	1	1816	1819	99	13	1	-11	239	255	99
10	2	0	1701	1681	99	11	1	-13	677	647	99	11	5	-8	46	69	99	12	2	2	1650	1626	99	13	1	-10	912	910	99
10	2	1	2111	2096	99	11	1	-12	1023	970	99	11	5	-7	1041	1067	99	12	2	3	880	866	99	13	1	-9	340	307	99
10	2	2	1896	1872	99	11	1	-11	378	314	99	11	5	-6	108	220	99	12	2	4	1963	1890	99	13	1	-8	1460	1422	99
10	2	3	1099	1046	99	11	1	-10	1210	1181	99	11	5	-5	1258	1283	99	12	2	5	890	895	99	13	1	-7	432	438	99
10	2	4	1968	1911	99	11	1	-9	-104	57	99	11	5	-4	236	154	99	12	2	6	1372	1357	99	13	1	-6	1478	1464	99
10	2	5	848	829	99	11	1	-8	1382	1361	99	11	5	-3	1621	1596	99	12	2	7	1112	1077	99	13	1	-5	309	300	99
10	2	6	1083	1093	99	11	1	-7	522	538	99	11	5	-2	278	273	99	12	2	8	927	897	99	13	1	-4	1742	1767	99
10	2	7	723	665	99	11	1	-6	1613	1619	99	11	5	-1	1683	1665	99	12	2	9	586	599	99	13	1	-3	482	504	99
10	2	8	928	901	99	11	1	-5	1208	1161	99	11	5	0	478	453	99	12	2	10	829	834	99	13	1	-2	1734	1718	99
10	2	9	771	782	99	11	1	-4	1454	1473	99	11	5	1	1128	1115	99	12	2	11	558	588	99	13	1	-1	632	612	99
10	2	10	798	818	99	11	1	-3	841	854	99	11	5	2	260	279	99	12	2	12	871	861	99	13	1	0	2421	2451	99
10	2	11	619	624	99	11	1	-2	1943	1928	99	11	5	3	1138	1180	99	12	4	-12	290	271	99	13	1	1	1513	1468	99
10	2	12	943	941	99	11	1	-1	491	467	99	11	5	4	176	116	99	12	4	-11	912	878	99	13	1	2	2028	2033	99
10	2	13	161	105	99	11	1	0	2281	2312	99	11	5	5	1106	1142	99	12	4	-10	151	257	99	13	1	3	315	310	99
10	4	-12	365	318	99	11	1	1	1050	1034	99	11	5	6	198	188	99	12	4	-9	1005	1036	99	13	1	4	1810	1757	99
10	4	-11	749	776	99	11	1	2	2723	2648	99	11	5	7	909	930	99	12	4	-8	-215	113	99	13	1	5	757	713	99
10	4	-10	-122	276	99	11	1	3	671	657	99	11	5	8	203	125	99	12	4	-7	1082	1122	99	13	1	6	2062	1984	99
10	4	-9	951	979	99	11	1	4	1837	1803	99	11	5	9	877	879	99	12	4	-6	138	152	99	13	1	7	881	839	99
10	4	-8	-158	49	99	11	1	5	577	569	99	11	7	-4	396	423	99	12	4	-5	1339	1372	99	13	1	8	1459	1424	99
10	4	-7	1155	1246	99	11	1	6	1936	1925	99	11	7	-3	590	548	99	12	4	-4	191	309	99	13	1	9	574	574	99
10	4	-6	491	487	99	11	1	7	987	961	99	11	7	-2	535	501	99	12	4	-3	1729	1691	99	13	1	10	1237	1196	99
10	4	-5	1186	1208	99	11	1	8	1475	1457	99	11	7	-1	671	634	99	12	4	-2	765	758	99	13	1	11	539	505	99
10	4	-4	321	264	99	11	1	9	797	828	99	11	7	0	585	545	99	12	4	-1	1775	1779	99	13	1	12	704	766	99
10	4	-3	1593	1584	99	11	1	10	1235	1233	99	11	7	1	857	822	99	12	4	0	563	573	99	13	1	13	255	232	99
10	4	-2	818	773	99	11	1	11	533	495	99	11	7	2	645	618	99	12	4	1	1143	1136	99	13	3	-12	711	675	99
10	4	-1	1794	1765	99	11	1	12	920	897	99	11	7	3	749	731	99	12	4	2	660	678	99	13	3	-11	645	629	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
13	3	-10	1035	1011	99	14	0	4	1073	1135	99	14	6	-5	796	823	99	15	3	5	1393	1384	99	16	2	4	1288	1256	99
13	3	-9	1046	1041	99	14	0	6	1686	1625	99	14	6	-4	357	382	99	15	3	6	338	341	99	16	2	5	854	865	99
13	3	-8	584	632	99	14	0	8	1458	1431	99	14	6	-3	662	620	99	15	3	7	1230	1230	99	16	2	6	1125	1070	99
13	3	-7	1158	1226	99	14	0	10	1127	1069	99	14	6	-2	423	423	99	15	3	8	681	673	99	16	2	7	1012	959	99
13	3	-6	869	903	99	14	0	12	947	935	99	14	6	-1	978	935	99	15	3	9	921	906	99	16	2	8	1080	1051	99
13	3	-5	1087	1037	99	14	2	-13	731	702	99	14	6	0	469	453	99	15	3	10	426	440	99	16	2	9	291	282	99
13	3	-4	1326	1274	99	14	2	-12	660	649	99	14	6	1	884	880	99	15	3	11	721	727	99	16	2	10	763	780	99
13	3	-3	1288	1254	99	14	2	-11	588	539	99	14	6	2	395	362	99	15	5	-9	826	858	99	16	2	11	450	432	99
13	3	-2	1426	1423	99	14	2	-10	983	938	99	14	6	3	909	956	99	15	5	-8	-238	105	99	16	4	-11	913	949	99
13	3	-1	959	944	99	14	2	-9	1040	1041	99	14	6	4	413	404	99	15	5	-7	1070	1068	99	16	4	-10	224	290	99
13	3	0	1088	1062	99	14	2	-8	965	963	99	14	6	5	773	797	99	15	5	-6	244	221	99	16	4	-9	704	781	99
13	3	1	1457	1475	99	14	2	-7	1462	1469	99	14	6	6	54	88	99	15	5	-5	1163	1158	99	16	4	-8	-179	62	99
13	3	2	937	903	99	14	2	-6	1591	1653	99	15	1	-13	303	339	99	15	5	-4	-157	25	99	16	4	-7	954	948	99
13	3	3	1531	1456	99	14	2	-5	962	1009	99	15	1	-12	893	843	99	15	5	-3	1051	1038	99	16	4	-6	360	297	99
13	3	4	1449	1387	99	14	2	-4	1961	1914	99	15	1	-11	216	229	99	15	5	-2	252	165	99	16	4	-5	1350	1334	99
13	3	5	1642	1594	99	14	2	-3	1905	1789	99	15	1	-10	962	915	99	15	5	-1	1458	1489	99	16	4	-4	-99	143	99
13	3	6	479	465	99	14	2	-2	1685	1647	99	15	1	-9	577	553	99	15	5	0	158	138	99	16	4	-3	1265	1288	99
13	3	7	1002	1007	99	14	2	-1	1292	1317	99	15	1	-8	1524	1496	99	15	5	1	1147	1163	99	16	4	-2	382	355	99
13	3	8	642	641	99	14	2	0	1207	1247	99	15	1	-7	165	224	99	15	5	2	139	228	99	16	4	-1	1338	1362	99
13	3	9	870	854	99	14	2	1	1556	1539	99	15	1	-6	1315	1305	99	15	5	3	1234	1278	99	16	4	0	673	661	99
13	3	10	518	515	99	14	2	2	1277	1320	99	15	1	-5	513	533	99	15	5	4	175	196	99	16	4	1	1430	1416	99
13	3	11	770	763	99	14	2	3	636	646	99	15	1	-4	1601	1689	99	15	5	5	867	884	99	16	4	2	683	691	99
13	5	-10	-233	25	99	14	2	4	2030	2000	99	15	1	-3	920	953	99	15	5	6	175	219	99	16	4	3	1521	1469	99
13	5	-9	854	872	99	14	2	5	1075	1060	99	15	1	-2	1471	1405	99	15	5	7	714	679	99	16	4	4	607	572	99
13	5	-8	45	235	99	14	2	6	1374	1323	99	15	1	-1	869	824	99	15	5	8	190	96	99	16	4	5	1082	1063	99
13	5	-7	958	976	99	14	2	7	972	949	99	15	1	0	1861	1869	99	16	0	-12	1059	1043	99	16	4	6	179	231	99
13	5	-6	360	339	99	14	2	8	971	973	99	15	1	1	1320	1330	99	16	0	-10	1347	1287	99	16	4	7	887	858	99
13	5	-5	1280	1250	99	14	2	9	528	536	99	15	1	2	1940	1939	99	16	0	-8	2113	2101	99	16	4	8	248	294	99
13	5	-4	149	118	99	14	2	10	753	747	99	15	1	3	313	272	99	16	0	-6	1546	1533	99	16	4	9	924	937	99
13	5	-3	1401	1340	99	14	2	11	522	551	99	15	1	4	1670	1690	99	16	0	-4	1667	1708	99	16	4	10	477	444	99
13	5	-2	-228	96	99	14	2	12	661	652	99	15	1	5	711	679	99	16	0	-2	2056	2158	99	16	6	-6	27	306	99
13	5	-1	1508	1534	99	14	4	-11	950	1005	99	15	1	6	1753	1676	99	16	0	0	2627	2547	99	16	6	-5	864	858	99
13	5	0	266	291	99	14	4	-10	283	367	99	15	1	7	605	617	99	16	0	2	2199	2216	99	16	6	-4	91	187	99
13	5	1	1173	1141	99	14	4	-9	827	925	99	15	1	8	1376	1345	99	16	0	4	1400	1436	99	16	6	-3	833	821	99
13	5	2	182	210	99	14	4	-8	192	196	99	15	1	9	306	245	99	16	0	6	1372	1392	99	16	6	-2	231	238	99
13	5	3	1301	1317	99	14	4	-7	947	924	99	15	1	10	1006	972	99	16	0	8	881	874	99	16	6	-1	941	932	99
13	5	4	219	226	99	14	4	-6	178	147	99	15	1	11	487	444	99	16	0	10	939	893	99	16	6	0	500	493	99
13	5	5	841	837	99	14	4	-5	1423	1342	99	15	1	12	829	849	99	16	0	12	1084	1059	99	16	6	1	784	784	99
13	5	6	105	101	99	14	4	-4	166	171	99	15	3	-12	641	634	99	16	2	-13	715	647	99	16	6	2	425	423	99
13	5	7	806	807	99	14	4	-3	1537	1529	99	15	3	-11	534	536	99	16	2	-12	737	718	99	16	6	3	899	929	99
13	5	8	-227	70	99	14	4	-2	511	502	99	15	3	-10	983	980	99	16	2	-11	518	520	99	16	6	4	389	421	99
13	5	9	817	818	99	14	4	-1	1454	1400	99	15	3	-9	727	721	99	16	2	-10	785	802	99	16	6	5	803	816	99
13	7	-2	622	566	99	14	4	0	628	604	99	15	3	-8	540	563	99	16	2	-9	1112	1118	99	17	1	-13	-84	173	99
13	7	-1	639	637	99	14	4	1	1355	1374	99	15	3	-7	937	966	99	16	2	-8	866	851	99	17	1	-12	906	862	99
13	7	0	414	405	99	14	4	2	702	706	99	15	3	-6	1197	1198	99	16	2	-7	1175	1191	99	17	1	-11	494	488	99
13	7	1	714	687	99	14	4	3	1334	1323	99	15	3	-5	1233	1133	99	16	2	-6	1256	1324	99	17	1	-10	884	873	99
14	0	-14	1060	1078	99	14	4	4	515	447	99	15	3	-4	918	878	99	16	2	-5	976	1028	99	17	1	-9	799	760	99
14	0	-12	1144	1127	99	14	4	5	1070	1033	99	15	3	-3	1505	1450	99	16	2	-4	1805	1789	99	17	1	-8	1306	1343	99
14	0	-10	1381	1332	99	14	4	6	52	161	99	15	3	-2	1268	1275	99	16	2	-3	1738	1642	99	17	1	-7	580	619	99
14	0	-8	2284	2271	99	14	4	7	866	850	99	15	3	-1	793	810	99	16	2	-2	1815	1716	99	17	1	-6	1055	1062	99
14	0	-6	2046	1992	99	14	4	8	585	548	99	15	3	0	1201	1233	99	16	2	-1	1350	1366	99	17	1	-5	333	357	99
14	0	-4	2360	2337	99	14	4	9	1038	1015	99	15	3	1	1367	1333	99	16	2	0	1123	1148	99	17	1	-4	1663	1757	99
14	0	-2	2826	2961	99	14	4	10	389	395	99	15	3	2	910	923	99	16	2	1	1121	1098	99	17	1	-3	609	624	99
14	0	0	3209	3067	99	14	6	-7	736	752	99	15	3	3	1272	1196	99	16	2	2	1257	1224	99	17	1	-2	1706	1655	99
14	0	2	2244	2331	99	14	6	-6	284	222	99	15	3	4	1265	1216	99	16	2	3	780	759	99	17	1	-1	642	587	99
17	1	0	1829	1841	99	18	0	-8	1975	1935	99	18	6	-5	739	718	99	19	3	9	843	837	99	20	4	-8	123	134	99
17	1	1	850	863	99	18	0	-6	1383	1369	99	18	6	-4	210	222	99	19	3	10	335	456	99	20	4	-7	1086	1051	99
17	1	2	1740	1796	99	18	0	-4	2042	2072	99	18	6	-3	836	841	99	19	5	-8	-129	74	99	20	4	-6	520	523	99
17	1	3	545	536	99	18	0	-2	1961	2049	99	18	6	-2	-208	132	99	19	5	-7	1036	1064	99	20	4	-5	1217	1179	99
17	1	4	1657	1637	99	18	0	0	1900	1808	99	18	6	-1	910	937	99	19	5	-6	171	152	99	20	4	-4	198	187	99
17	1	5	578	555	99	18	0	2	1909	1975	99	18	6	0	472	420	99	19	5	-5	1255	1205	99	20	4	-3	770	771	99
17	1	6	1748	1736	99	18	0	4	1707	1735	99	18	6	1	734	741	99	19	5	-4	389	360	99	20	4	-2	382	423	99
17	1	7	789	795	99	18	0	6	1554	1540	99	18	6	2	382	351	99	19	5	-3	694	704	99	20	4	-1	1282	1332	99
17	1	8	1207	1201	99	18	0	8	543	511	99	18	6	3	856	891	99	19	5	-2	136	172	99	20	4	0	564	530	99
17	1	9	87	73	99	18	0	10	762	788	99	18	6	4	400	435	99	19	5	-1	946	972	99	20	4	1	1256	1268	99
17	1	10	1032	1042	99	18	0	12	927	928	99	19	1	-13	-73	101	99	19	5	0	-141	26	99	20	4	2	344	335	99
17	1	11	552	521	99	18	2	-12	849	818	99	19	1	-12	888	848	99	19	5	1	1019	1070	99	20	4	3	1057	1030	99
17	1	12	911	905	99	18	2	-11	536	559	99	19	1	-11	362	333	99	19	5	2	74	228	99	20	4	4	763	696	99
17	3	-12	576	535	99	18	2	-10	826	800	99	19	1	-10	921	935	99	19	5	3	957	947	99	20	4	5	957	941	99
17	3	-11	564	567	99	18	2	-9	981	1003	99	19	1	-9	514	524	99	19	5	4	358	209	99	20	4	6	296	319	99
17	3	-10	818	821	99	18	2	-8	675	717	99	19	1	-8	1207	1217	99	19	5	5	923	914	99	20	4	7	932	921	99
17	3	-9	565	569	99	18	2	-7	969	1011	99	19	1	-7	601	606	99	19	5	6	-171	245	99	20	4	8	474	463	99
17	3	-8	648	672	99	18	2	-6	1096	1148	99	19	1	-6	1087	1168	99	19	5	7	652	630	99	20	6	-4	256	222	99
17	3	-7	971	984	99	18	2	-5	960	950	99	19	1	-5	320	315	99	20	0	-12	1134	1112	99	20	6	-3	736	747	99
17	3	-6	1218	1198	99	18	2	-4	1480	1488	99	19	1	-4	1656	1709	99	20	0	-10	1254	1251	99	20	6	-2	-277	66	99
17	3	-5	1298	1281	99	18	2	-3	1212	1143	99	19	1	-3	440	463	99	20	0	-8	1709	1669	99	20	6	-1	1096	1093	99
17	3	-4	878	836	99	18	2	-2	1500	1459	99	19	1	-2	2067	2000	99	20	0	-6	1519	1510	99	20	6	0	410	377	99
17	3	-3	1500	1438	99	18	2	-1	907	928	99	19	1	-1	513	505	99	20	0	-4	2013	2104	99	20	6	1	704	739	99
17	3	-2	649	658	99	18	2	0	1566	1667	99	19	1	0	1462	1422	99	20	0	-2	1803	1799	99	20	6	2	297	252	99
17	3	-1	1120	1139	99	18	2	1	872	899	99	19	1	1	581	591	99	20	0	0	796	754	99	20	6	3	795	854	99
17	3	0	1313	1288	99	18	2	2	1107	1103	99	19	1	2	1532	1600	99	20	0	2	1954	1952	99	21	1	-12	753	729	99
17	3	1	1126	1113	99	18	2	3	976	943	99	19	1	3	920	946	99	20	0	4	1507	1543	99	21	1	-11	309	241	99
17	3	2	823	796	99	18	2	4	955	963	99	19	1	4	1628	1582	99	20	0	6	1478	1514	99	21	1	-10	772	754	99
17	3	3	1283	1248	99	18	2	5	598	643	99	19	1	5	953	918	99	20	0	8	519	443	99	21	1	-9	-162	211	99
17	3	4	862	818	99	18	2	6	1145	1089	99	19	1	6	1557	1577	99	20	0	10	759	758	99	21	1	-8	1031	1077	99
17	3	5	1238	1158	99	18	2	7	793	796	99	19	1	7	640	603	99	20	2	-12	771	742	99	21	1	-7	438	479	99
17	3	6	394	351	99	18	2	8	1209	1190	99	19	1	8	1120	1112	99	20	2	-11	694	698	99	21	1	-6	920	1007	99
17	3	7	1417	1286	99	18	2	9	-319	139	99	19	1	9	-270	117	99	20	2	-10	706	690	99	21	1	-5	504	522	99
17	3	8	697	657	99	18	2	10	800	810	99	19	1	10	987	951	99	20	2	-9	797	832	99	21	1	-4	1458	1464	99
17	3	9	801	780	99	18	2	11	649	639	99	19	1	11	567	544	99	20	2	-8	812	852	99	21	1	-3	903	923	99
17	3	10	612	569	99	18	4	-10	226	286	99	19	3	-11	604	634	99	20	2	-7	794	849	99	21	1	-2	1549	1507	99
17	5	-9	899	916	99	18	4	-9	801	796	99	19	3	-10	616	607	99	20	2	-6	985	1019	99	21	1	-1	174	196	99
17	5	-8	-131	82	99	18	4	-8	159	221	99	19	3	-9	543	582	99	20	2	-5	898	950	99	21	1	0	1312	1282	99
17	5	-7	1107	1121	99	18	4	-7	1078	1054	99	19	3	-8	687	716	99	20	2	-4	1014	1021	99	21	1	1	453	435	99
17	5	-6	167	100	99	18	4	-6	511	476	99	19	3	-7	764	750	99	20	2	-3	1511	1417	99	21	1	2	1595	1644	99
17	5	-5	1204	1187	99	18	4	-5	1255	1169	99	19	3	-6	1257	1203	99	20	2	-2	1513	1444	99	21	1	3	983	1037	99
17	5	-4	229	271	99	18	4	-4	145	148	99	19	3	-5	1071	987	99	20	2	-1	823	776	99	21	1	4	1222	1254	99
17	5	-3	797	806	99	18	4	-3	1054	1042	99	19	3	-4	884	810	99	20	2	0	1705	1715	99	21	1	5	643	647	99
17	5	-2	331	326	99	18	4	-2	136	264	99	19	3	-3	1424	1400	99	20	2	1	865	900	99	21	1	6	1357	1338	99
17	5	-1	1220	1231	99	18	4	-1	1200	1242	99	19	3	-2	358	371	99	20	2	2	1228	1233	99	21	1	7	348	326	99
17	5	0	-67	68	99	18	4	0	533	562	99	19	3	-1	1247	1249	99	20	2	3	1112	1151	99	21	1	8	944	948	99
17	5	1	1109	1112	99	18	4	1	1282	1326	99	19	3	0	1170	1187	99	20	2	4	897	867	99	21	1	9	363	371	99
17	5	2	150	257	99	18	4	2	586	598	99	19	3	1	1237	1280	99	20	2	5	556	543	99	21	1	10	988	995	99
17	5	3	1168	1201	99	18	4	3	1495	1447	99	19	3	2	795	748	99	20	2	6	957	917	99	21	3	-11	665	685	99
17	5	4	329	307	99	18	4	4	869	851	99	19	3	3	1081	1104	99	20	2	7	556	513	99	21	3	-10	501	562	99
17	5	5	869	854	99	18	4	5	882	850	99	19	3	4	732	717	99	20	2	8	991	946	99	21	3	-9	599	627	99
17	5	6	209	77	99	18	4	6	247	196	99	19	3	5	883	875	99	20	2	9	411	327	99	21	3	-8	775	789	99
17	5	7	622	570	99	18	4	7	785	788	99	19	3	6	434	429	99	20	2	10	678	754	99	21	3	-7	645	661	99
18	0	-12	970	975	99	18	4	8	436	394	99	19	3	7	1135	1127	99	20	4	-10	-115	173	99	21	3	-6	1044	1014	99
18	0	-10	1366	1294	99	18	4	9	845	776	99	19	3	8	786	772	99	20	4	-9	839	872	99	21	3	-5	793	795	99

h	k	l	Fo	Fc	sigF2
21	3	-4	973	944	99
21	3	-3	1140	1127	99
21	3	-2	639	628	99
21	3	-1	1261	1300	99
21	3	0	940	969	99
21	3	1	1231	1259	99
21	3	2	463	483	99
21	3	3	927	913	99
21	3	4	631	619	99
21	3	5	821	776	99
21	3	6	689	639	99
21	3	7	965	958	99
21	3	8	592	599	99
21	3	9	756	753	99
21	5	-7	1023	979	99
21	5	-6	-179	85	99
21	5	-5	1243	1202	99
21	5	-4	275	263	99
21	5	-3	823	819	99
21	5	-2	240	105	99
21	5	-1	1052	1072	99
21	5	0	247	288	99
21	5	1	729	806	99
21	5	2	-109	116	99
21	5	3	819	821	99
21	5	4	42	85	99
21	5	5	1012	923	99
21	5	6	233	206	99
22	0	-12	1225	1200	99
22	0	-10	1034	990	99
22	0	-8	1412	1386	99
22	0	-6	1482	1475	99
22	0	-4	1834	1913	99
22	0	-2	1709	1644	99
22	0	0	975	928	99
22	0	2	1819	1859	99
22	0	4	1347	1398	99
22	0	6	1391	1408	99
22	0	8	900	954	99
22	0	10	757	810	99
22	2	-11	864	871	99
22	2	-10	799	834	99
22	2	-9	604	641	99
22	2	-8	919	1005	99
22	2	-7	826	857	99
22	2	-6	893	890	99
22	2	-5	891	910	99
22	2	-4	873	852	99
22	2	-3	1381	1341	99
22	2	-2	1150	1084	99
22	2	-1	474	476	99
22	2	0	1611	1634	99
22	2	1	778	784	99
22	2	2	1190	1242	99
22	2	3	974	1009	99
22	2	4	862	878	99
22	2	5	127	333	99
22	2	6	829	797	99
22	2	7	582	550	99
22	2	8	643	699	99
22	2	9	432	392	99
22	2	10	628	690	99
22	4	-9	847	838	99
22	4	-8	84	72	99
22	4	-7	1053	984	99
22	4	-6	391	406	99
22	4	-5	1062	1033	99
22	4	-4	216	285	99
22	4	-3	803	785	99
22	4	-2	423	424	99
22	4	-1	1259	1280	99
22	4	0	403	416	99
22	4	1	983	1012	99
22	4	2	161	71	99
22	4	3	861	893	99
22	4	4	660	677	99
22	4	5	1084	1123	99
22	4	6	506	441	99
22	4	7	872	903	99
23	1	-11	-198	119	99
23	1	-10	659	659	99
23	1	-9	162	207	99
23	1	-8	992	1015	99
23	1	-7	455	469	99
23	1	-6	1118	1177	99
23	1	-5	797	849	99
23	1	-4	1464	1412	99
23	1	-3	825	816	99
23	1	-2	1511	1435	99
23	1	-1	257	263	99
23	1	0	1563	1527	99
23	1	1	509	524	99
23	1	2	1682	1664	99
23	1	3	624	666	99
23	1	4	1077	1083	99
23	1	5	189	296	99
23	1	6	1017	1060	99
23	1	7	494	458	99
23	1	8	1039	1068	99
23	1	9	401	388	99
23	1	10	861	804	99
23	3	-10	710	735	99
23	3	-9	726	704	99
23	3	-8	675	673	99
23	3	-7	780	764	99
23	3	-6	754	746	99
23	3	-5	670	624	99
23	3	-4	840	777	99
23	3	-3	1040	955	99
23	3	-2	965	913	99
23	3	-1	1152	1135	99
23	3	0	678	710	99
23	3	1	1152	1208	99
23	3	2	220	176	99
23	3	3	1029	1019	99
23	3	4	670	701	99
23	3	5	745	822	99
23	3	6	671	677	99
23	3	7	767	719	99
23	3	8	493	451	99
23	5	-6	-80	140	99
23	5	-5	1049	1031	99
23	5	-4	251	181	99
23	5	-3	870	900	99
23	5	-2	191	135	99
23	5	-1	979	1028	99
23	5	0	165	272	99
23	5	1	570	592	99
23	5	2	-180	98	99
23	5	3	610	642	99
23	5	4	92	143	99
24	0	-10	820	794	99
24	0	-8	1213	1204	99
24	0	-6	1547	1655	99
24	0	-4	1450	1419	99
24	0	-2	1685	1617	99
24	0	0	1157	1090	99
24	0	2	1427	1365	99
24	0	4	617	706	99
24	0	6	973	1006	99
24	0	8	1303	1284	99
24	2	-11	566	650	99
24	2	-10	809	868	99
24	2	-9	545	565	99
24	2	-8	928	934	99
24	2	-7	892	876	99
24	2	-6	905	891	99
24	2	-5	666	672	99
24	2	-4	741	738	99
24	2	-3	662	614	99
24	2	-2	1061	1028	99
24	2	-1	697	679	99
24	2	0	1098	1089	99
24	2	1	667	667	99
24	2	2	1084	1095	99
24	2	3	761	773	99
24	2	4	1019	1051	99
24	2	5	341	409	99
24	2	6	882	882	99
24	2	7	537	579	99
24	2	8	536	517	99
24	2	9	-139	400	99
24	4	-8	-180	45	99
24	4	-7	748	745	99
24	4	-6	232	229	99
24	4	-5	956	968	99
24	4	-4	563	543	99
24	4	-3	980	988	99
24	4	-2	433	449	99
24	4	-1	1060	1057	99
24	4	0	379	350	99
24	4	1	862	904	99
24	4	2	222	249	99
24	4	3	844	859	99
24	4	4	572	516	99
24	4	5	1002	1039	99
24	4	6	552	492	99
25	1	-11	-92	256	99
25	1	-10	471	518	99
25	1	-9	183	195	99
25	1	-8	874	937	99
25	1	-7	314	383	99
25	1	-6	1097	1178	99
25	1	-5	481	512	99
25	1	-4	1173	1168	99
25	1	-3	771	764	99
25	1	-2	1419	1373	99
25	1	-1	444	457	99
25	1	0	1206	1194	99
25	1	1	519	463	99
25	1	2	1619	1589	99
25	1	3	566	614	99
25	1	4	898	959	99
25	1	5	260	381	99
25	1	6	997	1057	99
25	1	7	570	573	99
25	1	8	852	922	99
25	1	9	125	300	99
25	3	-9	880	845	99
25	3	-8	464	464	99
25	3	-7	872	843	99
25	3	-6	390	419	99
25	3	-5	780	756	99
25	3	-4	828	806	99
25	3	-3	856	845	99
25	3	-2	806	787	99
25	3	-1	1092	1092	99
25	3	0	650	635	99
25	3	1	1135	1153	99
25	3	2	355	310	99
25	3	3	1078	1107	99
25	3	4	600	607	99
25	3	5	750	776	99
25	3	6	478	522	99
25	3	7	703	675	99
25	5	-5	973	974	99
25	5	-4	-224	19	99
25	5	-3	908	880	99
25	5	-2	-199	237	99
25	5	-1	945	1001	99
25	5	0	216	229	99
25	5	1	600	707	99
25	5	2	-182	102	99
25	5	3	513	522	99
26	0	-10	759	723	99
26	0	-8	1077	1067	99
26	0	-6	1502	1503	99
26	0	-4	898	879	99
26	0	-2	1268	1244	99
26	0	0	1172	1151	99
26	0	2	1306	1244	99
26	0	4	684	718	99
26	0	6	849	881	99
26	0	8	1067	1137	99
26	2	-10	754	768	99
26	2	-9	632	649	99
26	2	-8	865	859	99
26	2	-7	930	917	99
26	2	-6	826	800	99
26	2	-5	529	510	99
26	2	-4	940	925	99
26	2	-3	551	534	99
26	2	-2	878	865	99
26	2	-1	1038	960	99
26	2	0	692	705	99
26	2	1	571	538	99
26	2	2	1003	1036	99
26	2	3	543	567	99
26	2	4	1057	1158	99
26	2	5	112	258	99
26	2	6	856	874	99
26	2	7	581	580	99
26	2	8	499	425	99
26	4	-7	609	595	99
26	4	-6	-61	167	99
26	4	-5	906	894	99
26	4	-4	575	523	99
26	4	-3	1039	1035	99
26	4	-2	391	397	99
26	4	-1	870	917	99
26	4	0	565	543	99
26	4	1	755	760	99
26	4	2	302	178	99
26	4	3	742	738	99
26	4	4	372	330	99
26	4	5	848	871	99
27	1	-10	607	621	99
27	1	-9	182	91	99
27	1	-8	837	842	99
27	1	-7	156	232	99
27	1	-6	1137	1117	99
27	1	-5	137	149	99
27	1	-4	908	936	99
27	1	-3	790	762	99
27	1	-2	1440	1160	99

h	k	l	Fo	Fc	sigF2
27	1	-1	777	712	99
27	1	0	1180	1139	99
27	1	1	603	574	99
27	1	2	1501	1462	99
27	1	3	493	436	99
27	1	4	1079	1112	99
27	1	5	205	150	99
27	1	6	804	900	99
27	1	7	646	604	99
27	1	8	848	880	99
27	3	-8	406	449	99
27	3	-7	828	816	99
27	3	-6	508	484	99
27	3	-5	725	729	99
27	3	-4	915	866	99
27	3	-3	838	848	99
27	3	-2	485	476	99
27	3	-1	783	773	99
27	3	0	739	765	99
27	3	1	876	867	99
27	3	2	395	412	99
27	3	3	894	951	99
27	3	4	544	574	99
27	3	5	846	838	99
27	3	6	444	365	99
28	0	-10	940	919	99
28	0	-8	1005	1036	99
28	0	-6	1249	1234	99
28	0	-4	866	813	99
28	0	-2	1509	1464	99
28	0	0	1200	1148	99
28	0	2	1395	1338	99
28	0	4	873	822	99
28	0	6	645	710	99
28	0	8	937	966	99
28	2	-9	556	568	99
28	2	-8	761	743	99
28	2	-7	880	875	99
28	2	-6	928	923	99
28	2	-5	520	500	99
28	2	-4	1062	997	99
28	2	-3	576	593	99
28	2	-2	841	860	99
28	2	-1	601	607	99
28	2	0	684	650	99
28	2	1	651	635	99
28	2	2	824	825	99
28	2	3	317	386	99
28	2	4	850	900	99
28	2	5	355	361	99
28	2	6	687	726	99
28	2	7	647	647	99
28	4	-5	778	767	99
28	4	-4	223	277	99
28	4	-3	981	973	99
28	4	-2	401	343	99
28	4	-1	761	771	99
28	4	0	518	551	99
28	4	1	741	776	99
28	4	2	251	143	99
28	4	3	744	731	99
29	1	-9	169	300	99
29	1	-8	726	717	99
29	1	-7	462	468	99
29	1	-6	922	916	99
29	1	-5	153	135	99
29	1	-4	764	795	99
29	1	-3	280	290	99
29	1	-2	1327	1291	99
29	1	-1	818	797	99
29	1	0	1103	1043	99
29	1	1	637	632	99
29	1	2	1112	1076	99
29	1	3	-188	133	99
29	1	4	873	911	99
29	1	5	267	225	99
29	1	6	795	830	99
29	1	7	333	473	99
29	3	-7	766	763	99
29	3	-6	468	404	99
29	3	-5	747	740	99
29	3	-4	675	682	99
29	3	-3	867	892	99
29	3	-2	321	293	99
29	3	-1	580	609	99
29	3	0	591	584	99
29	3	1	766	795	99
29	3	2	604	544	99
29	3	3	857	898	99
29	3	4	514	493	99
29	3	5	752	803	99
30	0	-8	968	960	99
30	0	-6	826	854	99
30	0	-4	901	868	99
30	0	-2	1291	1226	99
30	0	0	926	901	99
30	0	2	999	966	99
30	0	4	848	790	99
30	0	6	640	732	99
30	2	-8	614	569	99
30	2	-7	832	824	99
30	2	-6	765	789	99
30	2	-5	320	386	99
30	2	-4	923	925	99
30	2	-3	599	591	99
30	2	-2	701	725	99
30	2	-1	530	529	99
30	2	0	659	648	99
30	2	1	424	411	99
30	2	2	585	594	99
30	2	3	474	468	99
30	2	4	710	707	99
30	2	5	477	436	99
30	4	-2	203	156	99
30	4	-1	691	700	99
30	4	0	514	520	99
31	1	-8	769	766	99
31	1	-7	521	537	99
31	1	-6	856	808	99
31	1	-5	297	146	99
31	1	-4	918	897	99
31	1	-3	-145	255	99
31	1	-2	1049	1069	99
31	1	-1	694	701	99
31	1	0	1063	1038	99
31	1	1	386	452	99
31	1	2	799	792	99
31	1	3	406	432	99
31	1	4	1018	1088	99
31	1	5	258	293	99
31	3	-5	725	758	99
31	3	-4	610	512	99
31	3	-3	850	874	99
31	3	-2	-310	223	99
31	3	-1	658	662	99
31	3	0	483	477	99
31	3	1	638	696	99
31	3	2	652	658	99
31	3	3	638	705	99
32	0	-6	751	741	99
32	0	-4	678	666	99
32	0	-2	1105	1083	99
32	0	0	654	654	99
32	0	2	573	537	99
32	0	4	1185	1151	99
32	2	-6	762	759	99
32	2	-5	424	404	99
32	2	-4	882	903	99
32	2	-3	584	608	99
32	2	-2	675	679	99
32	2	-1	520	524	99
32	2	0	828	806	99
32	2	1	-133	100	99
32	2	2	602	677	99
32	2	3	522	516	99
33	1	-6	731	740	99
33	1	-5	-185	295	99
33	1	-4	832	847	99
33	1	-3	208	361	99
33	1	-2	986	971	99
33	1	-1	295	284	99
33	1	0	883	839	99
33	1	1	256	315	99
33	1	2	952	888	99
33	1	3	728	639	99
34	0	-4	709	689	99
34	0	-2	855	854	99
34	0	0	668	632	99
34	0	2	792	748	99
34	2	-3	363	408	99
34	2	-2	634	644	99
34	2	-1	463	453	99
34	2	0	802	805	99
35	1	-3	363	354	99
35	1	-2	790	823	99
35	1	-1	-186	71	99
35	1	0	693	742	99

APPENDIX 7.V

$[Hg(S_2CNMe_2)_2]$

Table 7.V.1: Crystallographic Parameters for $[Hg(S_2CN(CH_3)_2)_2]$

Formula	$C_6H_{12}HgN_2S_4$
Formula weight	441.00
Crystal morphology / colour	plate / pale green
Crystal dimensions (mm)	0.08 x 0.10 x 0.40
Crystal system	monoclinic
Space group	*C*2/*c* (# 15)
a (Å)	17.308(1)
b (Å)	7.558(3)
c (Å)	9.978(2)
α (°)	90
β (°)	113.24(1)
γ (°)	90
V (Å^3)	1199.3(5)
Z	4
$\rho_{calc.}$ (g cm^{-3})	2.442
F(000)	824
Temperature (°K)	293
μ (cm^{-1})	134.61
θ limits, cell (°)	21.0 – 24.2
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 21, 0 – 8, -12 – 12
Range of transmission factors	0.817 – 1
Scan technique	ω:2θ
No. of data measured	1535
No. of unique data	1489
R_{amal}	0.035
No. of parameters	61
R (I≥0σ(I))	0.089
R_w (I≥0σ(I))	0.098
R (I≥3σ(I))	0.041
R_w (I≥3σ(I))	0.045
Maximum and minimum residual electron density (e Å^{-3})	1.76, -3.79

Table 7.V.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Hg(S_2CN(CH_3)_2)_2]$

Atom	*x*	*y*	*z*
Hg	0	0	0
S(1)	0.0458(2)	0.2878(3)	-0.0303(3)
S(2)	0.1251(1)	-0.0041(4)	-0.1378(3)
N(1)	0.1515(4)	0.340(1)	-0.1565(7)
C(1)	0.1115(5)	0.215(1)	-0.1126(9)
C(2)	0.2086(7)	0.292(1)	-0.231(1)
C(3)	0.1395(7)	0.533(1)	-0.142(1)

Table 7.V.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Hg(S_2CN(CH_3)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Hg	0.0539(3)	0.0585(3)	0.0858(5)	-0.0026(4)	0.0376(3)	0.0130(4)
S(1)	0.048(1)	0.047(1)	0.041(1)	0.001(1)	0.023(1)	-0.004(1)
S(2)	0.044(1)	0.045(1)	0.060(1)	0.002(2)	0.024(1)	-0.003(2)
N(1)	0.036(4)	0.056(6)	0.033(4)	-0.002(4)	0.006(3)	-0.004(4)
C(1)	0.031(4)	0.047(5)	0.039(5)	0.000(4)	0.011(4)	0.003(4)
C(2)	0.071(6)	0.076(8)	0.063(7)	-0.011(6)	0.051(6)	-0.010(6)
C(3)	0.070(7)	0.027(7)	0.063(7)	-0.004(4)	0.021(5)	0.002(4)

Table 7.V.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Hg(S_2CN(CH_3)2)2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(3a)	0.1721	0.5970	-0.1834	5.2135
H(3b)	0.1571	0.5624	-0.0422	5.2135
H(3c)	0.0818	0.5617	-0.1926	5.2135
H(4a)	0.1768	0.2300	-0.3214	5.9028
H(4b)	0.2536	0.2171	-0.1682	5.9028
H(4c)	0.2323	0.3995	-0.2533	5.9028

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 7.V.5: Bond distances (Å) for $[Hg(S_2CN(CH_3)2)2]$

Hg — S(1)	2.375(2)	N(1) — C(1)	1.34(1)
Hg — S(2)	2.988(2)	N(1) — C(2)	1.50(1)
S(1) — C(1)	1.735(8)	N(1) — C(3)	1.49(1)
S(2) — C(1)	1.702(9)		

Table 7.V.6: Bond angles (deg.) for [Hg($S_2CN(CH_3)_2$)2]

S(1) — Hg — S(1)*	180(-)	C(1) — N(1) — C(2)	121.4(8)
S(1) — Hg — S(2)	67.16(8)	C(1) — N(1) — C(3)	123.4(8)
S(1) — Hg — S(2)*	112.84(8)	C(2) — N(1) — C(3)	115.1(8)
S(2) — Hg — S(2)*	180(-)	S(1) — C(1) — S(2)	122.3(5)
Hg — S(1) — C(1)	94.7(3)	S(1) — C(1) — N(1)	116.7(7)
Hg — S(2) — C(1)	75.8(3)	S(2) — C(1) — N(1)	121.1(7)

* atom related by centre of symmetry

Table 7.V.7: Observed and calculated structure factors for $[Hg(S_2CN(CH_3)_2)_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	2	2806	2979	99	1	1	-2	2274	2201	99	1	5	9	-259	87	99	2	2	3	290	282	99	2	6	-1	-272	29	99
0	0	4	1424	1336	99	1	1	-1	1296	1320	99	1	5	10	162	158	99	2	2	4	895	888	99	2	6	0	467	440	99
0	0	6	1631	1583	99	1	1	1	-24	59	99	1	7	-8	182	184	99	2	2	5	28	86	99	2	6	1	-110	71	99
0	0	8	923	892	99	1	1	2	2487	2588	99	1	7	-7	-128	86	99	2	2	6	249	258	99	2	6	2	535	505	99
0	0	10	-274	46	99	1	1	3	741	646	99	1	7	-6	452	458	99	2	2	7	140	129	99	2	6	3	156	84	99
0	2	0	2378	2312	99	1	1	4	1357	1306	99	1	7	-5	-37	29	99	2	2	8	461	428	99	2	6	4	235	232	99
0	2	1	436	427	99	1	1	5	183	173	99	1	7	-4	613	600	99	2	2	9	-73	168	99	2	6	5	-304	69	99
0	2	2	1700	1671	99	1	1	6	804	773	99	1	7	-3	144	73	99	2	2	10	150	168	99	2	6	6	121	100	99
0	2	3	96	128	99	1	1	7	274	211	99	1	7	-2	735	725	99	2	2	11	269	92	99	3	1	-12	216	235	99
0	2	4	664	668	99	1	1	8	612	605	99	1	7	-1	-165	114	99	2	4	-11	139	11	99	3	1	-11	158	72	99
0	2	5	202	245	99	1	1	9	-174	212	99	1	7	0	1118	1080	99	2	4	-10	160	43	99	3	1	-10	287	291	99
0	2	6	1040	1090	99	1	1	10	270	248	99	1	7	1	-47	28	99	2	4	-9	73	64	99	3	1	-9	163	85	99
0	2	7	340	306	99	1	1	11	223	145	99	1	7	2	966	950	99	2	4	-8	290	307	99	3	1	-8	542	562	99
0	2	8	627	608	99	1	3	-11	-44	113	99	1	7	3	104	146	99	2	4	-7	185	186	99	3	1	-7	427	423	99
0	2	9	85	190	99	1	3	-10	-102	43	99	1	7	4	582	548	99	2	4	-6	1202	1162	99	3	1	-6	1600	1559	99
0	2	10	-82	159	99	1	3	-9	301	319	99	1	7	5	-103	69	99	2	4	-5	311	300	99	3	1	-5	476	448	99
0	2	11	84	18	99	1	3	-8	357	383	99	1	7	6	419	401	99	2	4	-4	1417	1394	99	3	1	-4	2468	2400	99
0	4	0	2767	2898	99	1	3	-7	305	307	99	1	7	7	-206	26	99	2	4	-3	-132	166	99	3	1	-3	881	738	99
0	4	1	340	279	99	1	3	-6	1222	1256	99	1	7	8	236	248	99	2	4	-2	1207	1225	99	3	1	-2	1935	1938	99
0	4	2	1771	1787	99	1	3	-5	342	363	99	1	9	-5	-287	66	99	2	4	-1	133	122	99	3	1	-1	494	490	99
0	4	3	100	37	99	1	3	-4	1607	1645	99	1	9	-4	133	116	99	2	4	0	1994	1981	99	3	1	0	2488	2431	99
0	4	4	906	930	99	1	3	-3	446	443	99	1	9	-3	-136	97	99	2	4	1	439	412	99	3	1	1	1423	1345	99
0	4	5	-32	91	99	1	3	-2	1685	1716	99	1	9	-2	-174	81	99	2	4	2	2265	2409	99	3	1	2	2400	2421	99
0	4	6	902	880	99	1	3	-1	868	727	99	1	9	-1	153	155	99	2	4	3	56	65	99	3	1	3	149	137	99
0	4	7	201	194	99	1	3	0	3041	3191	99	1	9	0	322	356	99	2	4	4	1214	1146	99	3	1	4	1493	1463	99
0	4	8	601	591	99	1	3	1	116	5	99	1	9	1	-92	18	99	2	4	5	171	91	99	3	1	5	312	218	99
0	4	9	188	133	99	1	3	2	2549	2663	99	1	9	2	280	300	99	2	4	6	520	509	99	3	1	6	492	537	99
0	4	10	143	110	99	1	3	3	517	497	99	1	9	3	148	150	99	2	4	7	-210	41	99	3	1	7	73	69	99
0	6	0	1357	1422	99	1	3	4	1187	1171	99	1	9	4	-168	48	99	2	4	8	438	427	99	3	1	8	322	292	99
0	6	1	101	54	99	1	3	5	349	307	99	2	0	-12	177	49	99	2	4	9	129	120	99	3	1	9	134	81	99
0	6	2	793	762	99	1	3	6	1018	962	99	2	0	-10	-135	55	99	2	4	10	141	245	99	3	1	10	174	197	99
0	6	3	-69	161	99	1	3	7	163	204	99	2	0	-8	155	209	99	2	6	-9	218	177	99	3	1	11	-322	111	99
0	6	4	332	347	99	1	3	8	624	631	99	2	0	-6	1819	1825	99	2	6	-8	125	133	99	3	3	-11	-270	57	99
0	6	5	400	433	99	1	3	9	-222	172	99	2	0	-4	2656	2633	99	2	6	-7	330	285	99	3	3	-10	232	228	99
0	6	6	583	566	99	1	3	10	178	103	99	2	0	-2	1709	1588	99	2	6	-6	730	670	99	3	3	-9	165	184	99
0	6	7	104	282	99	1	3	11	234	160	99	2	0	2	5259	5660	99	2	6	-5	458	415	99	3	3	-8	209	159	99
0	6	8	144	315	99	1	5	-10	201	178	99	2	0	4	1878	1787	99	2	6	-4	890	898	99	3	3	-7	564	522	99
0	6	9	-32	178	99	1	5	-9	159	16	99	2	0	6	707	749	99	2	6	-3	522	548	99	3	3	-6	935	907	99
0	8	0	621	589	99	1	5	-8	423	440	99	2	0	8	792	785	99	2	6	-2	510	499	99	3	3	-5	407	414	99
0	8	1	112	13	99	1	5	-7	-44	152	99	2	0	10	332	366	99	2	6	-1	35	162	99	3	3	-4	1900	1957	99
0	8	2	395	380	99	1	5	-6	805	815	99	2	2	-12	196	292	99	2	6	0	870	896	99	3	3	-3	478	470	99
0	8	3	-148	41	99	1	5	-5	-248	90	99	2	2	-11	68	62	99	2	6	1	93	38	99	3	3	-2	2039	2069	99
0	8	4	214	191	99	1	5	-4	538	537	99	2	2	-10	324	325	99	2	6	2	1183	1214	99	3	3	-1	444	465	99
0	8	5	129	59	99	1	5	-3	177	104	99	2	2	-9	59	53	99	2	6	3	-153	42	99	3	3	0	1771	1739	99
0	8	6	296	280	99	1	5	-2	683	681	99	2	2	-8	472	528	99	2	6	4	451	454	99	3	3	1	722	664	99
1	1	-12	138	94	99	1	5	-1	189	223	99	2	2	-7	321	319	99	2	6	5	219	110	99	3	3	2	2504	2568	99
1	1	-11	-237	84	99	1	5	0	1246	1257	99	2	2	-6	1487	1477	99	2	6	6	103	162	99	3	3	3	128	15	99
1	1	-10	-177	194	99	1	5	1	57	74	99	2	2	-5	532	487	99	2	6	7	346	258	99	3	3	4	1652	1587	99
1	1	-9	301	272	99	1	5	2	1070	1060	99	2	2	-4	2005	2029	99	2	6	8	79	278	99	3	3	5	248	253	99
1	1	-8	670	707	99	1	5	3	130	272	99	2	2	-3	374	342	99	2	8	-7	-93	32	99	3	3	6	600	579	99
1	1	-7	329	336	99	1	5	4	386	347	99	2	2	-2	975	1054	99	2	8	-6	403	361	99	3	3	7	170	160	99
1	1	-6	1400	1389	99	1	5	5	-174	39	99	2	2	-1	114	168	99	2	8	-5	-106	82	99	3	3	8	475	457	99
1	1	-5	451	411	99	1	5	6	260	255	99	2	2	0	2159	2045	99	2	8	-4	419	432	99	3	3	9	-89	81	99
1	1	-4	1579	1469	99	1	5	7	-256	38	99	2	2	1	393	374	99	2	8	-3	86	105	99	3	3	10	262	261	99
1	1	-3	350	339	99	1	5	8	336	350	99	2	2	2	1950	1891	99	2	8	-2	240	265	99	3	5	-10	190	248	99
3	5	-9	-136	45	99	4	0	10	214	338	99	4	6	0	503	489	99	5	3	-2	2242	2227	99	5	9	2	-117	97	99
3	5	-8	421	438	99	4	2	-12	121	318	99	4	6	1	118	123	99	5	3	-1	414	412	99	6	0	-12	-239	46	99
3	5	-7	159	58	99	4	2	-11	-150	72	99	4	6	2	763	753	99	5	3	0	1748	1747	99	6	0	-10	76	171	99
3	5	-6	945	920	99	4	2	-10	600	671	99	4	6	3	134	25	99	5	3	1	357	349	99	6	0	-8	696	702	99
3	5	-5	154	215	99	4	2	-9	129	87	99	4	6	4	762	769	99	5	3	2	1203	1227	99	6	0	-6	327	359	99
3	5	-4	1398	1367	99	4	2	-8	728	756	99	4	6	5	-275	17	99	5	3	3	424	431	99	6	0	-4	1102	1085	99
3	5	-3	103	181	99	4	2	-7	-136	87	99	4	6	6	149	185	99	5	3	4	1531	1508	99	6	0	-2	3296	3255	99
3	5	-2	715	740	99	4	2	-6	1189	1176	99	4	6	7	117	46	99	5	3	5	-131	35	99	6	0	0	2538	2467	99
3	5	-1	184	199	99	4	2	-5	451	423	99	4	6	8	125	50	99	5	3	6	760	725	99	6	0	2	741	772	99
3	5	0	826	825	99	4	2	-4	2518	2600	99	4	8	-7	-119	47	99	5	3	7	-128	101	99	6	0	4	1432	1408	99
3	5	1	116	93	99	4	2	-3	625	635	99	4	8	-6	298	268	99	5	3	8	77	215	99	6	0	6	1291	1329	99
3	5	2	1057	1048	99	4	2	-2	2625	2622	99	4	8	-5	-184	35	99	5	3	9	170	61	99	6	0	8	119	298	99
3	5	3	115	162	99	4	2	-1	378	290	99	4	8	-4	552	551	99	5	5	-11	61	93	99	6	0	10	127	94	99
3	5	4	636	622	99	4	2	0	1176	1227	99	4	8	-3	-92	125	99	5	5	-10	433	462	99	6	2	-12	-236	102	99
3	5	5	216	224	99	4	2	1	180	185	99	4	8	-2	507	494	99	5	5	-9	85	98	99	6	2	-11	-141	71	99
3	5	6	-265	95	99	4	2	2	1636	1620	99	4	8	-1	144	156	99	5	5	-8	496	508	99	6	2	-10	679	722	99
3	5	7	-197	19	99	4	2	3	231	209	99	4	8	0	270	264	99	5	5	-7	-71	36	99	6	2	-9	-205	118	99
3	5	8	-348	70	99	4	2	4	1113	1077	99	4	8	1	73	90	99	5	5	-6	794	809	99	6	2	-8	1252	1260	99
3	5	9	-59	15	99	4	2	5	83	135	99	4	8	2	381	368	99	5	5	-5	27	102	99	6	2	-7	29	84	99
3	7	-8	-12	47	99	4	2	6	263	281	99	4	8	3	-246	109	99	5	5	-4	1419	1432	99	6	2	-6	1345	1355	99
3	7	-7	165	155	99	4	2	7	156	34	99	4	8	4	352	320	99	5	5	-3	183	218	99	6	2	-5	25	85	99
3	7	-6	371	363	99	4	2	8	-294	60	99	4	8	5	115	103	99	5	5	-2	1563	1644	99	6	2	-4	1827	1838	99
3	7	-5	-167	128	99	4	2	9	-196	44	99	5	1	-12	-240	191	99	5	5	-1	247	264	99	6	2	-3	446	404	99
3	7	-4	676	652	99	4	2	10	-168	116	99	5	1	-11	146	158	99	5	5	0	729	699	99	6	2	-2	3008	3167	99
3	7	-3	-135	26	99	4	4	-11	154	15	99	5	1	-10	542	586	99	5	5	1	260	241	99	6	2	-1	599	562	99
3	7	-2	664	683	99	4	4	-10	289	219	99	5	1	-9	91	52	99	5	5	2	700	666	99	6	2	0	2130	2216	99
3	7	-1	-102	35	99	4	4	-9	92	89	99	5	1	-8	666	672	99	5	5	3	50	16	99	6	2	1	96	131	99
3	7	0	708	720	99	4	4	-8	-158	144	99	5	1	-7	-165	27	99	5	5	4	636	639	99	6	2	2	985	968	99
3	7	1	-193	43	99	4	4	-7	159	142	99	5	1	-6	1205	1181	99	5	5	5	-129	153	99	6	2	3	185	147	99
3	7	2	893	906	99	4	4	-6	693	667	99	5	1	-5	639	567	99	5	5	6	270	252	99	6	2	4	948	909	99
3	7	3	-57	62	99	4	4	-5	214	224	99	5	1	-4	2579	2561	99	5	5	7	121	140	99	6	2	5	158	112	99
3	7	4	609	621	99	4	4	-4	1767	1762	99	5	1	-3	461	498	99	5	5	8	184	59	99	6	2	6	440	435	99
3	7	5	-44	115	99	4	4	-3	468	434	99	5	1	-2	2897	2912	99	5	7	-9	174	64	99	6	2	7	116	51	99
3	7	6	337	322	99	4	4	-2	1556	1609	99	5	1	-1	942	779	99	5	7	-8	111	119	99	6	2	8	-195	46	99
3	7	7	163	42	99	4	4	-1	113	232	99	5	1	0	1814	1740	99	5	7	-7	127	131	99	6	2	9	-130	4	99
3	9	-5	124	137	99	4	4	0	1182	1127	99	5	1	1	442	455	99	5	7	-6	-245	101	99	6	4	-11	225	181	99
3	9	-4	426	403	99	4	4	1	282	267	99	5	1	2	1720	1724	99	5	7	-5	239	204	99	6	4	-10	298	269	99
3	9	-3	200	62	99	4	4	2	1508	1547	99	5	1	3	898	870	99	5	7	-4	545	534	99	6	4	-9	144	41	99
3	9	-2	152	158	99	4	4	3	340	374	99	5	1	4	1368	1354	99	5	7	-3	140	116	99	6	4	-8	531	511	99
3	9	-1	-138	75	99	4	4	4	1468	1460	99	5	1	5	216	150	99	5	7	-2	703	693	99	6	4	-7	245	228	99
3	9	0	77	108	99	4	4	5	79	56	99	5	1	6	611	609	99	5	7	-1	-99	71	99	6	4	-6	326	327	99
3	9	1	192	120	99	4	4	6	567	549	99	5	1	7	-38	63	99	5	7	0	535	569	99	6	4	-5	231	218	99
3	9	2	334	317	99	4	4	7	160	78	99	5	1	8	201	153	99	5	7	1	50	16	99	6	4	-4	1015	1038	99
3	9	3	72	38	99	4	4	8	161	214	99	5	1	9	159	9	99	5	7	2	530	533	99	6	4	-3	245	237	99
4	0	-12	124	39	99	4	4	9	-251	12	99	5	1	10	138	78	99	5	7	3	54	15	99	6	4	-2	1851	1943	99
4	0	-10	207	251	99	4	6	-10	105	262	99	5	3	-12	164	32	99	5	7	4	562	564	99	6	4	-1	502	496	99
4	0	-8	214	157	99	4	6	-9	-67	114	99	5	3	-11	-242	19	99	5	7	5	151	56	99	6	4	0	1391	1294	99
4	0	-6	628	611	99	4	6	-8	258	252	99	5	3	-10	126	256	99	5	7	6	-92	304	99	6	4	1	238	239	99
4	0	-4	2908	2938	99	4	6	-7	278	273	99	5	3	-9	160	75	99	5	9	-5	205	178	99	6	4	2	691	715	99
4	0	-2	2945	3181	99	4	6	-6	383	354	99	5	3	-8	505	519	99	5	9	-4	390	364	99	6	4	3	255	279	99
4	0	0	1341	1285	99	4	6	-5	367	338	99	5	3	-7	264	240	99	5	9	-3	123	127	99	6	4	4	940	888	99
4	0	2	2661	2567	99	4	6	-4	1027	1048	99	5	3	-6	419	428	99	5	9	-2	477	470	99	6	4	5	285	253	99
4	0	4	3012	2949	99	4	6	-3	435	466	99	5	3	-5	676	678	99	5	9	-1	-153	30	99	6	4	6	736	681	99
4	0	6	795	831	99	4	6	-2	1051	1066	99	5	3	-4	1466	1478	99	5	9	0	161	149	99	6	4	7	-205	66	99
4	0	8	278	306	99	4	6	-1	476	512	99	5	3	-3	406	404	99	5	9	1	125	40	99	6	4	8	-266	206	99

6	4	9	128	48	99	7	3	-10	76	201	99	7	9	-4	238	231	99	8	4	5	-263	195	99	9	3	-10	32	235	99
6	6	-10	243	237	99	7	3	-9	-80	38	99	7	9	-3	174	161	99	8	4	6	422	390	99	9	3	-9	-122	66	99
6	6	-9	135	69	99	7	3	-8	653	651	99	7	9	-2	447	415	99	8	4	7	-110	143	99	9	3	-8	542	534	99
6	6	-8	581	508	99	7	3	-7	155	57	99	7	9	-1	117	80	99	8	4	8	187	246	99	9	3	-7	137	67	99
6	6	-7	-137	136	99	7	3	-6	896	893	99	7	9	0	424	415	99	8	6	-10	101	153	99	9	3	-6	1192	1123	99
6	6	-6	471	432	99	7	3	-5	259	233	99	7	9	1	49	5	99	8	6	-9	76	27	99	9	3	-5	-112	43	99
6	6	-5	321	311	99	7	3	-4	753	708	99	8	0	-12	168	118	99	8	6	-8	481	470	99	9	3	-4	1093	1088	99
6	6	-4	614	588	99	7	3	-3	633	636	99	8	0	-10	238	259	99	8	6	-7	117	73	99	9	3	-3	81	149	99
6	6	-3	264	277	99	7	3	-2	1556	1643	99	8	0	-8	590	589	99	8	6	-6	763	756	99	9	3	-2	785	767	99
6	6	-2	1205	1197	99	7	3	-1	224	267	99	8	0	-6	1342	1296	99	8	6	-5	123	104	99	9	3	-1	381	392	99
6	6	-1	409	392	99	7	3	0	1719	1784	99	8	0	-4	536	505	99	8	6	-4	521	546	99	9	3	0	1194	1256	99
6	6	0	967	920	99	7	3	1	243	239	99	8	0	-2	1261	1272	99	8	6	-3	68	242	99	9	3	1	-129	114	99
6	6	1	378	359	99	7	3	2	972	1000	99	8	0	0	2367	2377	99	8	6	-2	676	665	99	9	3	2	1012	1028	99
6	6	2	265	330	99	7	3	3	218	220	99	8	0	2	1362	1304	99	8	6	-1	-72	141	99	9	3	3	160	101	99
6	6	3	168	79	99	7	3	4	627	625	99	8	0	4	223	268	99	8	6	0	1026	1001	99	9	3	4	461	396	99
6	6	4	483	468	99	7	3	5	273	254	99	8	0	6	608	607	99	8	6	1	243	250	99	9	3	5	164	126	99
6	6	5	162	21	99	7	3	6	716	692	99	8	0	8	411	516	99	8	6	2	590	581	99	9	3	6	157	232	99
6	6	6	349	375	99	7	3	7	-245	44	99	8	2	-12	200	160	99	8	6	3	233	204	99	9	3	7	-91	137	99
6	6	7	-66	33	99	7	3	8	290	258	99	8	2	-11	-185	46	99	8	6	4	202	155	99	9	3	8	161	254	99
6	8	-7	108	116	99	7	3	9	144	29	99	8	2	-10	141	255	99	8	6	5	-192	44	99	9	5	-11	174	106	99
6	8	-6	263	248	99	7	5	-11	108	86	99	8	2	-9	110	111	99	8	6	6	177	224	99	9	5	-10	137	175	99
6	8	-5	91	78	99	7	5	-10	357	383	99	8	2	-8	1319	1322	99	8	8	-7	179	99	99	9	5	-9	142	171	99
6	8	-4	393	381	99	7	5	-9	250	193	99	8	2	-7	178	164	99	8	8	-6	361	373	99	9	5	-8	689	670	99
6	8	-3	-28	40	99	7	5	-8	844	820	99	8	2	-6	1838	1868	99	8	8	-5	129	162	99	9	5	-7	301	294	99
6	8	-2	623	626	99	7	5	-7	139	172	99	8	2	-5	-137	32	99	8	8	-4	271	298	99	9	5	-6	1148	1130	99
6	8	-1	-77	159	99	7	5	-6	844	796	99	8	2	-4	1813	1764	99	8	8	-3	181	83	99	9	5	-5	259	210	99
6	8	0	438	415	99	7	5	-5	-103	34	99	8	2	-3	137	29	99	8	8	-2	369	405	99	9	5	-4	881	927	99
6	8	1	126	174	99	7	5	-4	1123	1100	99	8	2	-2	1972	2011	99	8	8	-1	109	45	99	9	5	-3	89	31	99
6	8	2	-127	190	99	7	5	-3	-131	101	99	8	2	-1	238	261	99	8	8	0	543	530	99	9	5	-2	1034	1083	99
6	8	3	-26	103	99	7	5	-2	1640	1633	99	8	2	0	2488	2583	99	8	8	1	131	155	99	9	5	-1	-22	57	99
6	8	4	137	228	99	7	5	-1	130	145	99	8	2	1	342	332	99	8	8	2	270	256	99	9	5	0	1404	1369	99
7	1	-12	136	83	99	7	5	0	1430	1413	99	8	2	2	1303	1330	99	8	8	3	183	144	99	9	5	1	-28	65	99
7	1	-11	213	241	99	7	5	1	255	268	99	8	2	3	-52	42	99	9	1	-12	-210	179	99	9	5	2	888	893	99
7	1	-10	489	493	99	7	5	2	442	460	99	8	2	4	538	523	99	9	1	-11	-184	147	99	9	5	3	106	197	99
7	1	-9	266	301	99	7	5	3	-99	202	99	8	2	5	83	97	99	9	1	-10	197	239	99	9	5	4	174	214	99
7	1	-8	1158	1161	99	7	5	4	369	385	99	8	2	6	374	395	99	9	1	-9	406	420	99	9	5	5	182	125	99
7	1	-7	-41	31	99	7	5	5	-171	37	99	8	2	7	-168	65	99	9	1	-8	1042	990	99	9	5	6	220	173	99
7	1	-6	1157	1150	99	7	5	6	255	299	99	8	2	8	157	117	99	9	1	-7	446	440	99	9	5	7	-82	21	99
7	1	-5	73	69	99	7	5	7	132	98	99	8	2	9	-182	17	99	9	1	-6	1807	1753	99	9	7	-8	214	197	99
7	1	-4	1733	1742	99	7	5	8	-199	67	99	8	4	-11	123	230	99	9	1	-5	114	159	99	9	7	-7	147	185	99
7	1	-3	644	550	99	7	7	-9	144	141	99	8	4	-10	-14	155	99	9	1	-4	1356	1408	99	9	7	-6	382	432	99
7	1	-2	2853	2901	99	7	7	-8	-148	262	99	8	4	-9	314	329	99	9	1	-3	185	130	99	9	7	-5	245	100	99
7	1	-1	426	428	99	7	7	-7	115	98	99	8	4	-8	631	616	99	9	1	-2	1780	1743	99	9	7	-4	283	256	99
7	1	0	2264	2331	99	7	7	-6	178	210	99	8	4	-7	-154	91	99	9	1	-1	323	324	99	9	7	-3	-53	113	99
7	1	1	487	490	99	7	7	-5	223	149	99	8	4	-6	842	851	99	9	1	0	2227	2238	99	9	7	-2	188	185	99
7	1	2	1088	1079	99	7	7	-4	213	168	99	8	4	-5	333	356	99	9	1	1	274	289	99	9	7	-1	138	128	99
7	1	3	395	347	99	7	7	-3	189	193	99	8	4	-4	487	470	99	9	1	2	1361	1337	99	9	7	0	471	439	99
7	1	4	874	884	99	7	7	-2	588	570	99	8	4	-3	124	234	99	9	1	3	232	246	99	9	7	1	115	13	99
7	1	5	531	512	99	7	7	-1	158	51	99	8	4	-2	1129	1131	99	9	1	4	481	465	99	9	7	2	173	291	99
7	1	6	573	585	99	7	7	0	552	535	99	8	4	-1	153	211	99	9	1	5	213	219	99	9	7	3	142	85	99
7	1	7	-256	111	99	7	7	1	147	100	99	8	4	0	1488	1523	99	9	1	6	312	359	99	9	7	4	195	141	99
7	1	8	203	183	99	7	7	2	337	338	99	8	4	1	392	420	99	9	1	7	-70	278	99	9	9	-3	105	40	99
7	1	9	-87	20	99	7	7	3	-235	39	99	8	4	2	702	717	99	9	1	8	137	196	99	9	9	-2	223	232	99
7	3	-12	-201	67	99	7	7	4	152	298	99	8	4	3	148	185	99	9	3	-12	-192	199	99	10	0	-12	182	337	99
7	3	-11	-56	40	99	7	7	5	143	27	99	8	4	4	336	307	99	9	3	-11	145	53	99	10	0	-10	364	350	99
10	0	-8	628	662	99	10	6	-4	814	839	99	11	1	4	419	437	99	12	2	1	166	92	99	13	1	-2	1525	1524	99
10	0	-6	1163	1125	99	10	6	-3	15	30	99	11	1	5	-250	28	99	12	2	2	917	906	99	13	1	-1	277	243	99
10	0	-4	1664	1597	99	10	6	-2	513	497	99	11	1	6	-125	103	99	12	2	3	-145	53	99	13	1	0	779	709	99
10	0	-2	518	509	99	10	6	-1	95	107	99	11	1	7	156	63	99	12	2	4	704	718	99	13	1	1	127	110	99
10	0	0	1009	977	99	10	6	0	510	530	99	11	5	-10	218	199	99	12	2	5	154	70	99	13	1	2	644	631	99
10	0	2	1257	1278	99	10	6	1	-133	24	99	11	5	-9	-238	171	99	12	2	6	-107	224	99	13	1	3	-170	37	99
10	0	4	481	477	99	10	6	2	672	626	99	11	5	-8	282	278	99	12	2	7	189	8	99	13	1	4	577	588	99
10	0	6	-221	68	99	10	6	3	196	129	99	11	5	-7	285	234	99	12	4	-11	129	114	99	13	1	5	140	63	99
10	0	8	148	206	99	10	6	4	-262	276	99	11	5	-6	936	911	99	12	4	-10	504	474	99	13	1	6	138	180	99
10	2	-12	130	237	99	10	6	5	142	100	99	11	5	-5	268	327	99	12	4	-9	256	286	99	13	3	-12	-213	250	99
10	2	-11	148	38	99	10	8	-6	386	391	99	11	5	-4	1094	1176	99	12	4	-8	368	375	99	13	3	-11	151	25	99
10	2	-10	321	309	99	10	8	-5	-214	118	99	11	5	-3	154	179	99	12	4	-7	448	452	99	13	3	-10	626	638	99
10	2	-9	127	48	99	10	8	-4	434	403	99	11	5	-2	809	780	99	12	4	-6	660	646	99	13	3	-9	160	81	99
10	2	-8	512	503	99	10	8	-3	-123	159	99	11	5	-1	-218	43	99	12	4	-5	442	445	99	13	3	-8	660	646	99
10	2	-7	-153	145	99	10	8	-2	295	265	99	11	5	0	777	783	99	12	4	-4	1096	1150	99	13	3	-7	-126	24	99
10	2	-6	1823	1864	99	10	8	-1	-158	62	99	11	5	1	-198	16	99	12	4	-3	-152	98	99	13	3	-6	782	731	99
10	2	-5	177	163	99	10	8	0	364	323	99	11	5	2	840	873	99	12	4	-2	838	822	99	13	3	-5	-138	111	99
10	2	-4	2060	2072	99	10	8	1	-85	39	99	11	5	3	-289	29	99	12	4	-1	296	276	99	13	3	-4	976	1009	99
10	2	-3	-72	57	99	10	8	2	142	338	99	11	5	4	365	429	99	12	4	0	147	274	99	13	3	-3	79	151	99
10	2	-2	1673	1598	99	11	1	-12	148	272	99	11	5	5	139	110	99	12	4	1	91	138	99	13	3	-2	1149	1141	99
10	2	-1	104	53	99	11	1	-11	158	215	99	11	7	-8	-63	137	99	12	4	2	472	496	99	13	3	-1	203	186	99
10	2	0	1563	1563	99	11	1	-10	316	387	99	11	7	-7	96	193	99	12	4	3	-151	98	99	13	3	0	543	556	99
10	2	1	152	125	99	11	1	-9	148	187	99	11	7	-6	302	340	99	12	4	4	394	377	99	13	3	1	-234	21	99
10	2	2	1559	1544	99	11	1	-8	471	482	99	11	7	-5	127	175	99	12	4	5	-279	144	99	13	3	2	356	264	99
10	2	3	115	160	99	11	1	-7	571	578	99	11	7	-4	500	511	99	12	4	6	69	52	99	13	3	3	-273	41	99
10	2	4	599	613	99	11	1	-6	1452	1473	99	11	7	-3	145	62	99	12	6	-9	116	70	99	13	3	4	289	267	99
10	2	5	152	7	99	11	1	-5	503	492	99	11	7	-2	205	215	99	12	6	-8	309	293	99	13	3	5	-108	14	99
10	2	6	179	227	99	11	1	-4	1897	1928	99	11	7	-1	155	52	99	12	6	-7	-142	35	99	13	3	6	-94	142	99
10	2	7	196	56	99	11	1	-3	303	253	99	11	7	0	197	139	99	12	6	-6	351	406	99	13	5	-10	-145	205	99
10	2	8	-218	141	99	11	1	-2	1173	1202	99	11	7	1	114	60	99	12	6	-5	184	56	99	13	5	-9	132	198	99
10	4	-11	-161	211	99	11	1	-1	-177	134	99	11	7	2	253	244	99	12	6	-4	707	746	99	13	5	-8	152	304	99
10	4	-10	93	192	99	11	1	0	1197	1215	99	11	7	3	146	37	99	12	6	-3	-71	45	99	13	5	-7	274	203	99
10	4	-9	396	362	99	11	1	1	153	131	99	12	0	-12	366	373	99	12	6	-2	716	687	99	13	5	-6	167	344	99
10	4	-8	413	399	99	11	1	2	1353	1290	99	12	0	-10	667	681	99	12	6	-1	145	54	99	13	5	-5	198	226	99
10	4	-7	443	447	99	11	1	3	43	155	99	12	0	-8	718	688	99	12	6	0	332	328	99	13	5	-4	869	931	99
10	4	-6	1041	996	99	11	1	4	550	573	99	12	0	-6	1111	1059	99	12	6	1	164	2	99	13	5	-3	212	266	99
10	4	-5	89	115	99	11	1	5	168	90	99	12	0	-4	1402	1414	99	12	6	2	323	305	99	13	5	-2	955	910	99
10	4	-4	965	999	99	11	1	6	171	144	99	12	0	-2	1322	1321	99	12	6	3	-107	27	99	13	5	-1	121	111	99
10	4	-3	333	370	99	11	1	7	116	108	99	12	0	0	359	331	99	12	6	4	300	300	99	13	5	0	478	466	99
10	4	-2	459	444	99	11	3	-12	359	341	99	12	0	2	518	505	99	12	8	-5	158	181	99	13	5	1	-146	50	99
10	4	-1	219	192	99	11	3	-11	-30	87	99	12	0	4	507	535	99	12	8	-4	407	414	99	13	5	2	411	432	99
10	4	0	836	871	99	11	3	-10	439	411	99	12	0	6	-125	107	99	12	8	-3	175	99	99	13	5	3	-129	4	99
10	4	1	47	158	99	11	3	-9	147	40	99	12	2	-12	188	144	99	12	8	-2	368	326	99	13	5	4	434	439	99
10	4	2	914	875	99	11	3	-8	535	507	99	12	2	-11	154	12	99	12	8	-1	-152	116	99	13	7	-7	132	98	99
10	4	3	323	277	99	11	3	-7	-122	92	99	12	2	-10	450	460	99	12	8	0	-138	172	99	13	7	-6	143	218	99
10	4	4	270	263	99	11	3	-6	916	887	99	12	2	-9	-145	21	99	13	1	-12	-180	171	99	13	7	-5	-61	185	99
10	4	5	-166	102	99	11	3	-5	162	110	99	12	2	-8	452	471	99	13	1	-11	-136	135	99	13	7	-4	404	400	99
10	4	6	-77	86	99	11	3	-4	1377	1349	99	12	2	-7	-56	54	99	13	1	-10	532	542	99	13	7	-3	-221	115	99
10	4	7	158	100	99	11	3	-3	-224	141	99	12	2	-6	751	729	99	13	1	-9	248	261	99	13	7	-2	425	440	99
10	6	-10	67	192	99	11	3	-2	947	923	99	12	2	-5	187	154	99	13	1	-8	621	621	99	13	7	-1	-242	14	99
10	6	-9	-152	24	99	11	3	-1	-91	42	99	12	2	-4	1892	1935	99	13	1	-7	113	178	99	13	7	0	77	126	99
10	6	-8	246	292	99	11	3	0	525	549	99	12	2	-3	-61	96	99	13	1	-6	673	680	99	13	7	1	58	11	99
10	6	-7	-127	41	99	11	3	1	-149	161	99	12	2	-2	1663	1663	99	13	1	-5	607	603	99	14	0	-12	293	338	99
10	6	-6	654	689	99	11	3	2	735	684	99	12	2	-1	-98	100	99	13	1	-4	1669	1573	99	14	0	-10	698	707	99
10	6	-5	124	39	99	11	3	3	-175	21	99	12	2	0	1051	1027	99	13	1	-3	439	423	99	14	0	-8	1021	1007	99

14	0	-6	976	937	99	15	1	-10	364	373	99	16	0	-4	896	897	99	17	1	1	166	173	99	18	4	-1	237	187	99
14	0	-4	1147	1153	99	15	1	-9	106	127	99	16	0	-2	867	902	99	17	1	2	-119	382	99	18	4	0	300	347	99
14	0	-2	1279	1228	99	15	1	-8	827	813	99	16	0	0	749	770	99	17	1	3	-231	92	99	18	4	1	-153	72	99
14	0	0	762	765	99	15	1	-7	150	230	99	16	0	2	237	324	99	17	3	-10	259	293	99	19	1	-10	336	316	99
14	0	2	133	130	99	15	1	-6	687	717	99	16	0	4	-127	44	99	17	3	-9	-154	91	99	19	1	-9	114	168	99
14	0	4	85	183	99	15	1	-5	-90	127	99	16	2	-11	-240	104	99	17	3	-8	706	611	99	19	1	-8	277	275	99
14	0	6	159	179	99	15	1	-4	691	667	99	16	2	-10	-216	97	99	17	3	-7	56	97	99	19	1	-7	-151	10	99
14	2	-12	168	63	99	15	1	-3	490	471	99	16	2	-9	86	96	99	17	3	-6	944	942	99	19	1	-6	614	606	99
14	2	-11	-192	49	99	15	1	-2	1231	1217	99	16	2	-8	522	519	99	17	3	-5	-128	26	99	19	1	-5	171	64	99
14	2	-10	322	326	99	15	1	-1	299	295	99	16	2	-7	-184	33	99	17	3	-4	663	650	99	19	1	-4	751	726	99
14	2	-9	141	21	99	15	1	0	958	884	99	16	2	-6	827	779	99	17	3	-3	-249	19	99	19	1	-3	119	34	99
14	2	-8	687	696	99	15	1	1	197	170	99	16	2	-5	164	46	99	17	3	-2	550	525	99	19	1	-2	295	335	99
14	2	-7	161	28	99	15	1	2	16	285	99	16	2	-4	348	422	99	17	3	-1	-144	84	99	19	1	-1	189	11	99
14	2	-6	510	511	99	15	1	3	-9	77	99	16	2	-3	-108	81	99	17	3	0	497	487	99	19	1	0	151	231	99
14	2	-5	137	70	99	15	1	4	237	259	99	16	2	-2	507	545	99	17	3	1	-54	121	99	19	1	1	170	144	99
14	2	-4	746	752	99	15	1	5	-41	5	99	16	2	-1	-15	97	99	17	3	2	290	324	99	19	3	-9	-213	184	99
14	2	-3	166	133	99	15	3	-11	163	39	99	16	2	0	854	831	99	17	3	3	241	97	99	19	3	-8	328	335	99
14	2	-2	1442	1467	99	15	3	-10	456	446	99	16	2	1	-117	0	99	17	5	-8	209	266	99	19	3	-7	76	117	99
14	2	-1	-222	26	99	15	3	-9	-290	73	99	16	2	2	402	432	99	17	5	-7	-224	132	99	19	3	-6	571	629	99
14	2	0	1035	981	99	15	3	-8	893	898	99	16	2	3	-80	69	99	17	5	-6	254	379	99	19	3	-5	94	82	99
14	2	1	-81	97	99	15	3	-7	-199	53	99	16	2	4	125	176	99	17	5	-5	122	159	99	19	3	-4	767	738	99
14	2	2	520	488	99	15	3	-6	815	755	99	16	4	-10	134	276	99	17	5	-4	271	253	99	19	3	-3	-108	11	99
14	2	3	113	88	99	15	3	-5	-275	25	99	16	4	-9	180	86	99	17	5	-3	200	97	99	19	3	-2	407	414	99
14	2	4	438	409	99	15	3	-4	673	731	99	16	4	-8	672	653	99	17	5	-2	129	209	99	19	3	-1	91	12	99
14	2	5	-229	26	99	15	3	-3	-51	110	99	16	4	-7	-211	134	99	17	5	-1	159	67	99	19	3	0	289	282	99
14	4	-11	110	90	99	15	3	-2	822	819	99	16	4	-6	779	760	99	17	5	0	417	410	99	19	5	-6	340	296	99
14	4	-10	499	461	99	15	3	-1	230	156	99	16	4	-5	-272	216	99	17	5	1	-305	84	99	19	5	-5	152	84	99
14	4	-9	5	144	99	15	3	0	731	702	99	16	4	-4	477	461	99	18	0	-10	444	457	99	19	5	-4	360	312	99
14	4	-8	697	696	99	15	3	1	175	158	99	16	4	-3	348	323	99	18	0	-8	640	632	99	19	5	-3	-242	89	99
14	4	-7	309	290	99	15	3	2	-96	250	99	16	4	-2	574	574	99	18	0	-6	1089	1042	99	20	0	-10	259	316	99
14	4	-6	462	498	99	15	3	3	-212	30	99	16	4	-1	127	175	99	18	0	-4	874	880	99	20	0	-8	435	480	99
14	4	-5	427	436	99	15	3	4	-140	84	99	16	4	0	567	603	99	18	0	-2	613	622	99	20	0	-6	630	604	99
14	4	-4	673	717	99	15	5	-9	-102	142	99	16	4	1	-174	15	99	18	0	0	453	536	99	20	0	-4	790	803	99
14	4	-3	305	324	99	15	5	-8	372	331	99	16	4	2	133	191	99	18	0	2	374	362	99	20	0	-2	491	518	99
14	4	-2	1005	962	99	15	5	-7	133	207	99	16	4	3	269	86	99	18	2	-10	-89	110	99	20	0	0	346	327	99
14	4	-1	-55	55	99	15	5	-6	251	333	99	16	6	-7	-15	57	99	18	2	-9	-194	132	99	20	2	-9	91	127	99
14	4	0	454	476	99	15	5	-5	-221	170	99	16	6	-6	352	409	99	18	2	-8	128	213	99	20	2	-8	150	178	99
14	4	1	-236	165	99	15	5	-4	330	315	99	16	6	-5	-207	30	99	18	2	-7	-99	115	99	20	2	-7	198	131	99
14	4	2	-110	110	99	15	5	-3	-164	152	99	16	6	-4	317	293	99	18	2	-6	630	592	99	20	2	-6	330	260	99
14	4	3	163	95	99	15	5	-2	739	710	99	16	6	-3	-250	20	99	18	2	-5	122	33	99	20	2	-5	-305	92	99
14	4	4	144	223	99	15	5	-1	199	164	99	16	6	-2	287	304	99	18	2	-4	620	634	99	20	2	-4	515	492	99
14	6	-9	-37	41	99	15	5	0	525	523	99	16	6	-1	-163	65	99	18	2	-3	132	40	99	20	2	-3	192	25	99
14	6	-8	322	387	99	15	5	1	-117	57	99	16	6	0	307	352	99	18	2	-2	272	227	99	20	2	-2	396	377	99
14	6	-7	165	47	99	15	5	2	-105	192	99	17	1	-11	-272	154	99	18	2	-1	-177	72	99	20	2	-1	-180	26	99
14	6	-6	290	341	99	15	5	3	161	41	99	17	1	-10	125	184	99	18	2	0	319	278	99	20	2	0	200	79	99
14	6	-5	-176	28	99	15	7	-6	325	335	99	17	1	-9	-11	51	99	18	2	1	-302	57	99	20	4	-7	-367	55	99
14	6	-4	383	410	99	15	7	-5	-102	81	99	17	1	-8	575	563	99	18	2	2	330	357	99	20	4	-6	-133	351	99
14	6	-3	-145	69	99	15	7	-4	282	229	99	17	1	-7	-124	100	99	18	4	-9	-246	70	99	20	4	-5	151	21	99
14	6	-2	619	595	99	15	7	-3	170	129	99	17	1	-6	881	896	99	18	4	-8	354	360	99	20	4	-4	562	542	99
14	6	-1	-113	82	99	15	7	-2	157	342	99	17	1	-5	205	133	99	18	4	-7	84	57	99	20	4	-3	-236	21	99
14	6	0	383	417	99	15	7	-1	150	49	99	17	1	-4	560	585	99	18	4	-6	629	689	99	20	4	-2	373	366	99
14	6	1	36	75	99	16	0	-12	215	335	99	17	1	-3	-40	62	99	18	4	-5	142	80	99	21	1	-8	364	356	99
14	6	2	-104	159	99	16	0	-10	490	514	99	17	1	-2	462	462	99	18	4	-4	630	613	99	21	1	-7	89	153	99
15	1	-12	-118	78	99	16	0	-8	1017	999	99	17	1	-1	265	288	99	18	4	-3	-181	114	99	21	1	-6	216	278	99
15	1	-11	158	78	99	16	0	-6	1159	1098	99	17	1	0	686	708	99	18	4	-2	249	304	99	21	1	-5	-291	23	99

21	1	-4	512	476	99
21	1	-3	106	34	99
21	1	-2	475	436	99
21	1	-1	-257	21	99
21	3	-7	-233	169	99
21	3	-6	245	290	99
21	3	-5	174	100	99
21	3	-4	531	484	99
21	3	-3	147	46	99
22	0	-6	341	380	99
22	0	-4	361	445	99
22	2	-5	197	101	99

APPENDIX 7.VI

$[Hg(S_2CNiBu_2)_2]$

Table 7.VI.1: Crystallographic Parameters for [Hg($S_2CN(CH_2CH(CH_3)2)2)2$]

Formula	$C_{18}H_{36}HgN_2S_4$
Formula weight	609.33
Crystal morphology / colour	block / pale yellow
Crystal dimensions (mm)	0.16 x 0.24 x 0.29
Crystal system	monoclinic
Space group	*C*2/*c* (# 15)
a (Å)	26.27(2)
b (Å)	13.654(8)
c (Å)	13.863(5)
α (°)	90
β (°)	96.64(4)
γ (°)	90
V (Å^3)	4938(4)
Z	8
$\rho_{calc.}$ (g cm^{-3})	1.639
F(000)	2416
Temperature (°K)	110
μ (cm^{-1})	65.92
θ limits, cell (°)	25.9 – 27.5
θ limits, data (°)	3.0 – 25.0
hkl range	0 – 31, 0 – 15, -16 – 16
Range of transmission factors	0.923 – 1
Scan technique	ω:2θ
No. of data measured	6072
No. of unique data	5946
R_{amal}	0.198
No. of parameters	210
R (I≥0σ(I))	0.078
R_w (I≥0σ(I))	0.086
R (I≥3σ(I))	0.037
R_w (I≥3σ(I))	0.037
Maximum and minimum residual electron density (e Å^{-3})	2.57, -2.22

To refine the structure $[Hg(S_2CNiBu_2)_2]$ the general procedure outlined in chapter 2 was followed but disorder was noted in the C(7)-C(9) isobutyl group. The C(8) atom was refined isotropically over two positions, each of equal weight. The C(15) atom was refined isotropically as attempts to refine this atom with anisotropic displacement parameters resulted in a non-positive definite values.

Difficulties with this refinement may be traced to the relatively poor quality of the crystal, crystal instability (30% decay during the data collection; correction applied) and/or the inadequacy of the empirical absorption correction.

Table 7.VI.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Hg(S_2CN(CH_2CH(CH_3)2)2)2]$

Atom	*x*	*y*	*z*
Hg	0.17488(1)	0.22378(3)	0.08766(2)
S(1)	0.20701(8)	0.1915(1)	0.2551(1)
S(2)	0.12661(8)	0.0645(2)	0.1510(1)
S(3)	0.18380(7)	0.2699(2)	-0.0794(1)
S(4)	0.09972(8)	0.3516(2)	0.0229(1)
N(1)	0.1567(2)	0.0543(4)	0.3413(4)
N(2)	0.1129(2)	0.3928(5)	-0.1619(4)
C(1)	0.1621(3)	0.0975(5)	0.2576(5)
C(2)	0.1881(3)	0.0789(6)	0.4339(5)
C(3)	0.2305(3)	0.0060(6)	0.4655(5)
C(4)	0.2650(3)	-0.0159(6)	0.3863(6)
C(5)	0.2597(3)	0.0406(7)	0.5595(6)
C(6)	0.1197(3)	-0.0255(6)	0.3492(5)
C(7)	0.0668(5)	0.005(1)	0.3665(9)
C(8a)	0.045(1)	0.097(2)	0.348(2)
C(8b)	0.0603(8)	0.090(2)	0.429(2)
C(9)	0.0333(4)	-0.0808(7)	0.3830(7)
C(10)	0.1290(3)	0.3447(5)	-0.0820(5)
C(11)	0.1361(3)	0.3783(6)	-0.2521(5)
C(12)	0.1180(3)	0.2878(6)	-0.3082(5)
C(13)	0.1476(3)	0.2737(7)	-0.3953(6)
C(14)	0.0612(3)	0.2870(7)	-0.3389(6)
C(15)	0.0681(3)	0.4584(5)	-0.1639(5)
C(16)	0.0809(3)	0.5588(6)	-0.1200(6)

Table 7.VI.2: Cont.

Atom	*x*	*y*	*z*
C(17)	0.1118(3)	0.6203(6)	-0.1836(6)
C(18)	0.0311(3)	0.6098(6)	-0.1031(6)

Table 7.VI.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Hg(S_2CN(CH_2CH(CH_3)2)2)2]$

Atom	$U11$	$U22$	$U33$	$U12$	$U13$	$U23$
Hg	0.0310(2)	0.0305(2)	0.0303(2)	0.0045(2)	0.0039(1)	0.0063(2)
S(1)	0.012(1)	0.030(1)	0.033(1)	-0.0037(9)	0.0007(9)	0.0059(9)
S(2)	0.022(1)	0.032(1)	0.030(1)	-0.005(1)	0.002(1)	-0.001(1)
S(3)	0.011(1)	0.030(1)	0.033(1)	0.008(1)	0.0046(8)	0.004(1)
S(4)	0.013(1)	0.039(1)	0.032(1)	0.007(1)	0.0094(9)	0.004(1)
N(1)	0.007(4)	0.022(4)	0.031(4)	-0.001(3)	0.003(3)	0.000(3)
N(2)	0.006(4)	0.032(4)	0.020(3)	-0.001(3)	-0.003(3)	0.001(3)
C(1)	0.013(5)	0.020(5)	0.030(4)	0.003(4)	0.005(4)	0.002(4)
C(2)	0.012(5)	0.030(5)	0.030(4)	0.000(4)	0.003(4)	0.000(4)
C(3)	0.012(5)	0.026(5)	0.033(4)	-0.001(4)	0.000(4)	0.009(4)
C(4)	0.014(5)	0.039(6)	0.049(5)	0.007(4)	0.006(4)	0.010(5)
C(5)	0.024(6)	0.043(6)	0.047(6)	0.008(5)	-0.008(5)	0.007(5)
C(6)	0.014(5)	0.032(5)	0.029(4)	-0.007(4)	-0.002(4)	0.001(4)
C(10)	0.007(4)	0.025(5)	0.033(4)	-0.002(4)	0.008(4)	-0.006(4)
C(11)	0.011(5)	0.030(5)	0.021(4)	0.000(4)	-0.001(3)	-0.002(4)
C(12)	0.025(5)	0.031(6)	0.037(5)	-0.004(5)	0.008(4)	-0.001(4)
C(13)	0.026(5)	0.049(6)	0.039(5)	-0.003(5)	0.009(4)	-0.018(5)
C(14)	0.030(6)	0.051(7)	0.042(5)	-0.016(5)	0.007(4)	-0.013(5)
C(16)	0.009(5)	0.025(5)	0.043(5)	0.009(4)	-0.005(4)	0.002(4)
C(17)	0.027(6)	0.030(5)	0.037(5)	-0.002(4)	-0.002(4)	-0.003(4)
C(18)	0.025(6)	0.032(6)	0.047(5)	0.010(5)	0.013(5)	0.003(4)

Table 7.VI.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in [Hg($S_2CN(CH_2CH(CH_3)_2)_2)_2$]*

Atom	x	y	z	B_{eq}
H(2a)	0.2042	0.1424	0.4264	0.0287
H(2b)	0.1658	0.0831	0.4843	0.0287
H(3a)	0.2138	-0.0558	0.4794	0.0283
H(4a)	0.2814	0.0439	0.3690	0.0403
H(4b)	0.2905	-0.0641	0.4091	0.0403
H(4c)	0.2439	-0.0416	0.3289	0.0403
H(5a)	0.2362	0.0468	0.6089	0.0469
H(5b)	0.2862	-0.0065	0.5819	0.0469
H(5c)	0.2752	0.1035	0.5497	0.0469
H(6a)	0.1324	-0.0681	0.4031	0.0305
H(6b)	0.1151	-0.0624	0.2899	0.0305
H(9a)	0.0483	-0.1144	0.4425	0.0622
H(9b)	-0.0011	-0.0621	0.3897	0.0622
H(9c)	0.0350	-0.1237	0.3285	0.0622
H(11a)	0.1283	0.4349	-0.2937	0.0249
H(11b)	0.1732	0.3740	-0.2357	0.0249
H(12a)	0.1259	0.2320	-0.2653	0.0367
H(13a)	0.1843	0.2689	-0.3740	0.0453
H(13b)	0.1364	0.2144	-0.4300	0.0453
H(13c)	0.1419	0.3295	-0.4391	0.0453
H(14a)	0.0509	0.2266	-0.3715	0.0492
H(14b)	0.0427	0.2948	-0.2822	0.0492
H(14c)	0.0520	0.3419	-0.3830	0.0492
H(15a)	0.0431	0.4273	-0.1277	0.0222

Table 7.VI.4: Cont.

Atom	x	y	z	B_{eq}
H(15b)	0.0537	0.4664	-0.2311	0.0222
H(16a)	0.1014	0.5496	-0.0583	0.0317
H(17a)	0.1196	0.6827	-0.1523	0.0386
H(17b)	0.1430	0.5865	-0.1937	0.0386
H(17c)	0.0914	0.6313	-0.2461	0.0386
H(18a)	0.0129	0.5704	-0.0603	0.0406
H(18b)	0.0389	0.6734	-0.0738	0.0406
H(18c)	0.0099	0.6186	-0.1648	0.0406

* H atoms were included in their calculated positions, C-H 0.97 Å.

Table 7.VI.5: Bond distances (Å) for $[Hg(S_2CN(CH_2CH(CH_3)2)2)2]$

Hg — S(1)	2.417(2)	C(2) — C(3)	1.52(1)
Hg — S(2)	2.714(2)	C(3) — C(4)	1.53(1)
Hg — S(3)	2.437(2)	C(3) — C(5)	1.51(1)
Hg — S(4)	2.709(2)	C(6) — C(7)	1.50(1)
S(1) — C(1)	1.746(8)	C(7) — C(8a)	1.39(3)
S(2) — C(1)	1.714(8)	C(7) — C(8b)	1.47(2)
S(3) — C(10)	1.763(7)	C(7) — C(9)	1.50(1)
S(4) — C(10)	1.724(7)	C(8a) — C(8b)	1.16(3)
N(1) — C(1)	1.325(8)	C(11) — C(12)	1.51(1)
N(1) — C(2)	1.481(9)	C(12) — C(13)	1.52(1)
N(1) — C(6)	1.473(9)	C(12) — C(14)	1.50(1)
N(2) — C(10)	1.315(9)	C(15) — C(16)	1.52(1)
N(2) — C(11)	1.465(8)	C(16) — C(17)	1.52(1)
N(2) — C(15)	1.477(9)	C(16) — C(18)	1.52(1)

Table 7.VI.6: Bond angles (deg.) for [Hg($S_2CN(CH_2CH(CH_3)2)2)2$]

S(1) — Hg — S(2)	70.58(7)	C(4) — C(3) — C(5)	113.4(7)
S(1) — Hg — S(3)	153.95(7)	N(1) — C(6) — C(7)	115.9(8)
S(1) — Hg — S(4)	126.57(6)	C(6) — C(7) — C(8a)	127(2)
S(2) — Hg — S(3)	127.90(7)	C(6) — C(7) — C(8b)	119(1)
S(2) — Hg — S(4)	105.88(7)	C(6) — C(7) — C(9)	112(1)
S(3) — Hg — S(4)	70.44(6)	C(8a) — C(7) — C(8b)	48(1)
Hg — S(1) — C(1)	89.5(2)	C(8a) — C(7) — C(9)	119(2)
Hg — S(2) — C(1)	80.8(2)	C(8b) — C(7) — C(9)	114(1)
Hg — S(3) — C(10)	90.1(2)	C(7) — C(8a) — C(8b)	69(2)
Hg — S(4) — C(10)	82.3(3)	C(7) — C(8b) — C(8a)	63(2)
C(1) — N(1) — C(2)	123.5(6)	S(3) — C(10) — S(4)	117.2(4)
C(1) — N(1) — C(6)	122.3(6)	S(3) — C(10) — N(2)	119.3(5)
C(2) — N(1) — C(6)	114.2(6)	S(4) — C(10) — N(2)	123.5(6)
C(10) — N(2) — C(11)	121.8(6)	N(2) — C(11) — C(12)	114.4(6)
C(10) — N(2) — C(15)	119.7(6)	C(11) — C(12) — C(13)	110.7(6)
C(11) — N(2) — C(15)	118.3(6)	C(11) — C(12) — C(14)	113.3(7)
S(1) — C(1) — S(2)	118.5(4)	C(13) — C(12) — C(14)	110.9(7)
S(1) — C(1) — N(1)	119.1(6)	N(2) — C(15) — C(16)	113.5(6)
S(2) — C(1) — N(1)	122.3(6)	C(15) — C(16) — C(17)	112.0(6)
N(1) — C(2) — C(3)	114.6(6)	C(15) — C(16) — C(18)	108.6(7)
C(2) — C(3) — C(4)	113.3(6)	C(17) — C(16) — C(18)	111.2(7)
C(2) — C(3) — C(5)	109.0(7)		

Table 7.VI.7: Observed and calculated structure factors for $[Hg(S_2CN(CH_2CH(CH_3)_2)_2)_2]$

h	k	l	Fo	Fc	sigF2
0	0	4	5101	5105	99
0	0	6	5082	5186	99
0	0	8	533	451	99
0	0	10	1061	1108	99
0	0	12	3744	3575	99
0	0	14	118	58	99
0	0	16	1453	1398	99
0	2	-6	5928	5890	99
0	2	1	3564	3659	99
0	2	2	2249	2223	99
0	2	3	564	577	99
0	2	4	1059	1013	99
0	2	5	583	572	99
0	2	7	1562	1617	99
0	2	8	1255	1321	99
0	2	9	878	830	99
0	2	10	2753	2729	99
0	2	11	2034	1993	99
0	2	12	2653	2764	99
0	2	13	514	587	99
0	2	14	-278	106	99
0	2	15	593	574	99
0	2	16	815	925	99
0	4	0	3992	4113	99
0	4	1	2372	2388	99
0	4	2	1982	2006	99
0	4	3	3112	3163	99
0	4	4	3517	3559	99
0	4	5	2533	2481	99
0	4	6	3461	3574	99
0	4	7	2943	2977	99
0	4	8	1157	1158	99
0	4	9	2589	2589	99
0	4	10	1731	1757	99
0	4	11	356	390	99
0	4	12	1754	1679	99
0	4	13	995	999	99
0	4	14	-383	464	99
0	4	15	-108	387	99
0	6	0	3642	3584	99
0	6	1	3513	3506	99
0	6	2	609	658	99
0	6	3	3746	3669	99
0	6	4	3038	3061	99
0	6	5	1295	1255	99
0	6	6	2009	2110	99
0	6	7	1322	1302	99
0	6	8	849	814	99
0	6	9	2253	2201	99
0	6	10	1059	1131	99
0	6	11	797	834	99
0	6	12	1277	1336	99
0	6	13	1517	1647	99
0	6	14	472	369	99
0	6	15	1404	1472	99
1	1	0	551	474	99
1	1	1	2911	2865	99
1	1	2	1266	1285	99
1	1	3	4037	4000	99
1	1	4	379	423	99
1	1	5	1879	1891	99
1	1	6	1018	973	99
1	1	7	1708	1643	99
1	1	8	101	396	99
1	1	9	2143	2138	99
1	1	10	1346	1333	99
1	1	11	657	658	99
1	1	12	-560	158	99
1	1	13	1291	1418	99
1	1	14	-424	366	99
1	1	0	69	35	99
1	1	1	1389	1405	99
1	1	2	40	758	99
1	1	3	3303	3275	99
1	1	4	503	523	99
1	1	5	1308	1261	99
1	1	6	967	930	99
1	1	7	1849	1799	99
1	1	8	286	54	99
1	1	9	2589	2577	99
1	1	10	-315	200	99
1	1	11	-512	175	99
1	1	12	354	237	99
1	1	0	1080	1236	99
1	1	1	1316	1374	99
1	1	2	-315	140	99
1	1	3	3077	3130	99
1	1	4	298	398	99
1	1	5	-463	178	99
1	1	6	729	649	99
1	1	7	1191	1158	99
1	1	8	650	513	99
1	1	9	2190	2227	99
1	1	10	-446	118	99
1	1	11	467	512	99
1	1	0	1590	1676	99
1	1	1	-401	480	99
1	1	2	1031	1096	99
1	1	3	1967	1981	99
1	1	4	792	761	99
1	1	5	764	637	99
1	1	6	833	867	99
1	1	7	906	909	99
1	1	8	546	549	99
1	1	0	1093	1165	99
1	1	1	433	498	99
1	1	2	1007	1018	99
1	1	-16	236	96	99
1	1	-15	1197	1221	99
1	1	-14	617	624	99
1	1	-13	645	646	99
1	1	-12	252	78	99
1	1	-11	2716	2690	99
1	1	-10	1274	1267	99
1	1	-9	1209	1236	99
1	1	-8	428	288	99
1	1	-7	1739	1690	99
1	1	-6	739	710	99
1	1	-5	5858	5805	99
1	1	-4	988	1013	99
1	1	-3	1889	1878	99
1	1	-2	498	377	99
1	1	2	789	708	99
1	1	3	2662	2735	99
1	1	4	1148	1243	99
1	1	5	3200	3216	99
1	1	6	203	148	99
1	1	7	3530	3655	99
1	1	8	533	670	99
1	1	9	131	327	99
1	1	10	514	607	99
1	1	11	2800	2766	99
1	1	12	-387	360	99
1	1	13	2499	2461	99
1	1	14	-392	154	99
1	1	15	-434	206	99
1	1	16	399	333	99
1	3	-16	464	485	99
1	3	-15	674	677	99
1	3	-14	745	692	99
1	3	-13	480	458	99
1	3	-12	582	638	99
1	3	-11	2569	2631	99
1	3	-10	965	961	99
1	3	-9	1804	1797	99
1	3	-8	1852	1903	99
1	3	-7	2315	2343	99
1	3	-6	2307	2294	99
1	3	-5	5008	5026	99
1	3	-4	1655	1631	99
1	3	-3	356	313	99
1	3	-2	2646	2682	99
1	3	-1	4640	4571	99
1	3	0	1576	1525	99
1	3	1	3856	3954	99
1	3	2	2676	2660	99
1	3	3	1467	1444	99
1	3	4	2127	2119	99
1	3	5	3234	3282	99
1	3	6	1015	978	99
1	3	7	4589	4741	99
1	3	8	1420	1346	99
1	3	9	646	623	99
1	3	10	1796	1781	99
1	3	11	2214	2169	99
1	3	12	242	148	99
1	3	13	1766	1715	99
1	3	14	625	582	99
1	3	15	213	115	99
1	3	16	453	481	99
1	5	-15	787	769	99
1	5	-14	863	953	99
1	5	-13	949	990	99
1	5	-12	1016	962	99
1	5	-11	2127	2157	99
1	5	-10	1130	1218	99
1	5	-9	1194	1215	99
1	5	-8	2644	2651	99
1	5	-7	524	533	99
1	5	-6	1379	1354	99
1	5	-5	2799	2721	99
1	5	-4	3050	2979	99
1	5	-3	2188	2420	99
1	5	-2	2526	2497	99
1	5	-1	1603	1604	99
1	5	0	1335	1348	99
1	5	1	2839	2870	99
1	5	2	1618	1770	99
1	5	3	249	208	99
1	5	4	3844	3927	99
1	5	5	2868	2894	99
1	5	6	1215	1192	99
1	5	7	2717	2691	99
1	5	8	2320	2391	99
1	5	9	361	467	99
1	5	10	2267	2261	99
1	5	11	984	1013	99
1	5	12	305	420	99
1	5	13	1218	1199	99
1	5	14	1062	1135	99
1	5	15	-77	65	99
1	7	-14	1573	1528	99
1	7	-13	-123	187	99
1	7	-12	1393	1376	99
1	7	-11	780	770	99
1	7	-10	924	897	99
1	7	-9	950	1028	99
1	7	-8	1821	1766	99
1	7	-7	667	786	99
1	7	-6	1592	1654	99
1	7	-5	1483	1564	99
1	7	-4	2589	2620	99
1	7	-3	763	737	99
1	7	-2	4458	4560	99
1	7	-1	1221	1179	99
1	7	0	2576	2551	99
1	7	1	1734	1647	99
1	7	2	2560	2517	99
1	7	3	686	631	99
1	7	4	3632	3552	99
1	7	5	1331	1378	99
1	7	6	696	671	99
1	7	7	1470	1481	99
1	7	8	1748	1689	99
1	7	9	255	459	99
1	7	10	1620	1690	99
1	7	11	904	933	99
1	7	12	478	470	99
1	7	13	-200	697	99
1	7	14	1211	1344	99
1	9	-13	-244	65	99
1	9	-12	1100	1025	99
1	9	-11	441	401	99
1	9	-10	892	838	99
1	9	-9	412	460	99
1	9	-8	2443	2418	99
1	9	-7	691	601	99
1	9	-6	1562	1556	99
1	9	-5	323	299	99
1	9	-4	2124	2206	99
1	9	-3	-473	204	99
1	9	-2	3569	3757	99
1	9	-1	1073	1037	99
1	9	0	1063	1008	99
1	9	1	356	432	99
1	9	2	1327	1383	99
1	9	3	-122	262	99
1	9	4	2971	2914	99
1	9	5	363	275	99
1	9	6	1283	1258	99
1	9	7	278	83	99
1	9	8	2202	2127	99
1	9	9	479	414	99
1	9	10	2499	2480	99
1	9	11	902	900	99
1	9	12	-545	134	99
1	9	13	300	243	99
1	11	-12	720	700	99
1	11	-11	465	283	99
1	11	-10	768	718	99
1	11	-9	423	504	99
1	11	-8	2365	2369	99
1	11	-7	141	178	99
1	11	-6	1033	1037	99
1	11	-5	1143	1199	99
1	11	-4	1391	1397	99
1	11	-3	285	181	99
1	11	-2	2923	2962	99
1	11	-1	98	331	99
1	11	0	184	430	99
1	11	1	-615	122	99
1	11	2	2126	2119	99
1	11	3	370	285	99
1	11	4	3001	3087	99
1	11	5	222	96	99
2	2	-15	122	291	99
2	2	-14	1175	1188	99
2	2	-13	841	856	99
2	2	-12	750	718	99
2	2	-11	292	317	99
2	2	-10	2484	2527	99
2	2	-9	194	189	99
2	2	-8	1988	2030	99
2	2	-7	1681	1689	99
2	2	-6	2885	2864	99
2	2	-5	310	161	99
2	2	-4	4321	4354	99
2	2	-3	954	923	99
2	2	-2	4908	4893	99
2	2	-1	2247	2187	99
2	2	0	3880	3866	99
2	2	1	1531	1563	99
2	2	2	5391	5716	99
2	2	3	2725	2758	99
2	2	4	633	604	99
2	2	5	2825	2687	99
2	2	6	3724	3918	99
2	2	7	460	483	99
2	2	8	2419	2484	99
2	2	9	406	371	99
2	2	10	166	69	99
2	2	11	795	821	99
2	2	12	2664	2746	99
2	2	13	464	382	99
2	2	14	1580	1416	99
2	2	15	-518	125	99
2	2	16	456	148	99
2	4	-15	426	212	99
2	4	-14	848	900	99
2	4	-13	1254	1296	99
2	4	-12	494	458	99
2	4	-11	875	880	99
2	4	-10	2719	2877	99
2	4	-9	792	811	99
2	4	-8	2041	2138	99
2	4	-7	2934	3016	99
2	4	-6	1551	1636	99
2	4	-5	183	208	99
2	4	-4	3417	3376	99
2	4	-3	969	1042	99
2	4	-2	1060	1028	99
2	4	-1	3022	2986	99
2	4	0	4327	4358	99
2	4	1	449	431	99
2	4	2	5293	5469	99
2	4	3	1616	1752	99
2	4	4	449	284	99
2	4	5	3379	3370	99
2	4	6	3105	3151	99
2	4	7	681	620	99
2	4	8	3057	3046	99
2	4	9	1035	1013	99
2	4	10	220	305	99
2	4	11	2141	2123	99
2	4	12	1567	1582	99
2	4	13	323	386	99
2	4	14	876	850	99
2	4	15	672	757	99
2	6	-15	313	282	99
2	6	-14	-545	321	99
2	6	-13	1549	1566	99
2	6	-12	766	747	99
2	6	-11	605	712	99
2	6	-10	1530	1575	99
2	6	-9	971	946	99
2	6	-8	569	548	99
2	6	-7	2608	2645	99
2	6	-6	-209	137	99
2	6	-5	997	943	99
2	6	-4	1573	1496	99
2	6	-3	1376	1388	99
2	6	-2	620	621	99
2	6	-1	4632	4645	99
2	6	0	1140	1190	99
2	6	1	2066	2095	99
2	6	2	2780	2678	99
2	6	3	2256	2303	99
2	6	4	146	248	99
2	6	5	3185	3324	99
2	6	6	1957	1961	99
2	6	7	591	559	99
2	6	8	1846	1881	99
2	6	9	1625	1661	99
2	6	10	296	35	99
2	6	11	2006	1889	99
2	6	12	759	814	99
2	6	13	376	90	99
2	6	14	960	987	99
2	6	15	1015	1035	99
2	8	-14	69	176	99
2	8	-13	1238	1242	99
2	8	-12	516	552	99
2	8	-11	1243	1191	99
2	8	-10	457	433	99
2	8	-9	1072	1044	99
2	8	-8	559	510	99
2	8	-7	3014	2908	99
2	8	-6	257	257	99
2	8	-5	830	902	99
2	8	-4	1805	1811	99
2	8	-3	2397	2377	99
2	8	-2	611	706	99
2	8	-1	4579	4613	99
2	8	0	275	331	99
2	8	1	1277	1270	99
2	8	2	894	911	99
2	8	3	2617	2591	99
2	8	4	246	34	99
2	8	5	2956	2893	99
2	8	6	-126	301	99
2	8	7	-301	230	99
2	8	8	1049	1008	99
2	8	9	2268	2220	99
2	8	10	942	897	99
2	8	11	2221	2232	99
2	8	12	609	508	99
2	8	13	-549	136	99
2	8	14	293	201	99
2	10	-12	277	341	99
2	10	-11	1415	1368	99
2	10	-10	450	419	99
2	10	-9	1027	992	99
2	10	-8	746	778	99
2	10	-7	2475	2498	99
2	10	-6	-334	199	99
2	10	-5	1138	1140	99
2	10	-4	478	465	99
2	10	-3	1843	1949	99
2	10	-2	139	232	99
2	10	-1	2573	2489	99
2	10	0	150	432	99
2	10	1	1125	1092	99
2	10	2	207	98	99
2	10	3	2104	2124	99
2	10	4	941	962	99
2	10	5	2420	2430	99
2	10	6	-365	333	99
2	10	7	733	749	99
2	10	8	415	347	99
2	10	9	2081	2051	99
2	10	10	965	1026	99
2	10	11	1635	1604	99
2	10	12	355	22	99
2	12	-11	970	809	99
2	12	-10	727	682	99
2	12	-9	846	785	99
2	12	-8	572	679	99
2	12	-7	1260	1263	99
2	12	-6	622	687	99
2	12	-5	1294	1298	99
2	12	-4	1122	1098	99
2	12	-3	1113	1127	99
2	12	-2	430	426	99
2	12	-1	1858	1814	99
2	12	0	297	463	99
2	12	1	533	607	99
2	12	2	851	833	99
2	12	3	2396	2833	99
2	12	4	734	798	99
2	12	5	1791	1686	99
2	12	6	642	491	99
2	12	7	-160	183	99
2	12	8	990	879	99
2	12	9	1617	1554	99
2	12	10	513	397	99
2	14	-8	356	212	99
2	14	-7	814	797	99
2	14	-6	258	605	99
2	14	-5	607	574	99
2	14	-4	1108	1043	99
2	14	-3	999	1021	99
2	14	-2	661	820	99
2	14	-1	745	814	99
2	14	0	697	695	99
2	14	1	-495	209	99
2	14	2	1855	1837	99
2	14	3	1407	1441	99
2	14	4	-297	110	99
2	14	5	1006	1115	99
2	14	6	686	612	99
2	14	7	-661	192	99
2	14	8	810	738	99
2	16	-2	357	255	99
2	16	-1	637	686	99
2	16	0	717	557	99
2	16	1	-462	182	99
2	16	2	1215	1247	99
3	1	-16	-128	130	99
3	1	-15	1177	1217	99
3	1	-14	319	223	99
3	1	-13	1779	1731	99
3	1	-12	900	924	99
3	1	-11	1450	1483	99
3	1	-10	402	217	99
3	1	-9	2252	2203	99
3	1	-8	179	309	99
3	1	-7	1318	1319	99
3	1	-6	350	291	99
3	1	-5	2891	2927	99
3	1	-4	153	331	99
3	1	-3	4961	4728	99
3	1	-2	1128	1072	99
3	1	-1	2824	2725	99
3	1	1	3662	3666	99
3	1	2	693	573	99
3	1	3	2342	2297	99
3	1	4	1661	1576	99
3	1	5	411	333	99
3	1	6	865	737	99
3	1	7	3283	3264	99
3	1	8	463	271	99
3	1	9	1873	1837	99
3	1	10	513	640	99
3	1	11	-380	64	99
3	1	12	281	424	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	1	13	1772	1702	99	3	5	4	634	665	99	3	9	1	1100	1038	99	3	13	9	775	757	99	4	2	9	310	350	99
3	1	14	203	284	99	3	5	5	-312	278	99	3	9	2	743	796	99	3	15	-6	759	790	99	4	2	10	3077	3107	99
3	1	15	1339	1342	99	3	5	6	2249	2232	99	3	9	3	104	170	99	3	15	-5	810	809	99	4	2	11	144	123	99
3	1	16	668	551	99	3	5	7	1881	1843	99	3	9	4	1316	1369	99	3	15	-4	470	243	99	4	2	12	461	553	99
3	3	-16	-262	95	99	3	5	8	266	322	99	3	9	5	798	836	99	3	15	-3	1628	1607	99	4	2	13	-216	303	99
3	3	-15	1018	1127	99	3	5	9	911	840	99	3	9	6	2244	2288	99	3	15	-2	702	708	99	4	2	14	1448	1490	99
3	3	-14	-169	313	99	3	5	10	1575	1627	99	3	9	7	373	161	99	3	15	-1	329	484	99	4	2	15	190	41	99
3	3	-13	983	948	99	3	5	11	90	100	99	3	9	8	385	136	99	3	15	0	401	527	99	4	4	-15	257	323	99
3	3	-12	1533	1538	99	3	5	12	1639	1588	99	3	9	9	-536	189	99	3	15	1	574	414	99	4	4	-14	1634	1605	99
3	3	-11	81	459	99	3	5	13	665	769	99	3	9	10	2219	2147	99	3	15	2	-269	73	99	4	4	-13	437	397	99
3	3	-10	1210	1235	99	3	5	14	278	287	99	3	9	11	742	741	99	3	15	3	935	1014	99	4	4	-12	1217	1211	99
3	3	-9	1789	1840	99	3	5	15	649	770	99	3	9	12	1389	1432	99	3	15	4	710	626	99	4	4	-11	994	1027	99
3	3	-8	398	440	99	3	7	-14	-200	203	99	3	9	13	-91	216	99	3	15	5	159	355	99	4	4	-10	105	159	99
3	3	-7	2587	2602	99	3	7	-13	303	136	99	3	11	-12	1282	1209	99	4	0	-16	265	340	99	4	4	-9	2299	2301	99
3	3	-6	2355	2384	99	3	7	-12	2096	2183	99	3	11	-11	286	410	99	4	0	-14	1466	1671	99	4	4	-8	2411	2408	99
3	3	-5	2018	1994	99	3	7	-11	-481	144	99	3	11	-10	1194	1150	99	4	0	-12	2359	2380	99	4	4	-7	676	694	99
3	3	-4	199	136	99	3	7	-10	-58	231	99	3	11	-9	644	661	99	4	0	-10	1689	1538	99	4	4	-6	1677	1736	99
3	3	-3	3671	3675	99	3	7	-9	1157	1153	99	3	11	-8	837	801	99	4	0	-8	4025	4028	99	4	4	-5	3048	3055	99
3	3	-2	1241	1265	99	3	7	-8	1453	1537	99	3	11	-7	684	622	99	4	0	-6	2045	2055	99	4	4	-4	709	691	99
3	3	-1	918	938	99	3	7	-7	445	278	99	3	11	-6	964	984	99	4	0	-4	1522	1492	99	4	4	-3	712	692	99
3	3	0	1278	1290	99	3	7	-6	2600	2559	99	3	11	-5	897	878	99	4	0	-2	5071	4988	99	4	4	-2	3013	3027	99
3	3	1	3214	3253	99	3	7	-5	349	365	99	3	11	-4	1246	1195	99	4	0	0	5346	5353	99	4	4	-1	3599	3678	99
3	3	2	396	399	99	3	7	-4	1089	1082	99	3	11	-3	516	394	99	4	0	2	5607	5743	99	4	4	0	291	287	99
3	3	3	2145	2190	99	3	7	-3	1350	1400	99	3	11	-2	1478	1567	99	4	0	4	4327	4289	99	4	4	1	1861	1840	99
3	3	4	1206	1301	99	3	7	-2	1404	1414	99	3	11	-1	527	452	99	4	0	6	2679	2769	99	4	4	2	2318	2433	99
3	3	5	1284	1323	99	3	7	-1	830	828	99	3	11	0	1991	1867	99	4	0	8	2973	2967	99	4	4	3	1183	1204	99
3	3	6	2956	2983	99	3	7	0	4558	4585	99	3	11	1	604	618	99	4	0	10	2152	1922	99	4	4	4	4045	4064	99
3	3	7	2471	2547	99	3	7	1	698	738	99	3	11	2	644	543	99	4	0	12	-71	173	99	4	4	5	1794	1820	99
3	3	8	512	521	99	3	7	2	682	711	99	3	11	3	363	291	99	4	0	14	1147	935	99	4	4	6	638	565	99
3	3	9	2990	3013	99	3	7	3	1310	1327	99	3	11	4	2502	2610	99	4	0	16	1288	1198	99	4	4	7	1972	1922	99
3	3	10	519	535	99	3	7	4	2009	2107	99	3	11	5	1034	954	99	4	2	-16	271	406	99	4	4	8	1669	1627	99
3	3	11	63	208	99	3	7	5	-190	158	99	3	11	6	1717	1652	99	4	2	-15	514	494	99	4	4	9	1066	1041	99
3	3	12	532	480	99	3	7	6	2564	2544	99	3	11	7	407	366	99	4	2	-14	1234	1248	99	4	4	10	1513	1573	99
3	3	13	2085	2131	99	3	7	7	831	868	99	3	11	8	557	308	99	4	2	-13	402	300	99	4	4	11	1611	1676	99
3	3	14	-280	350	99	3	7	8	527	654	99	3	11	9	699	710	99	4	2	-12	1136	1128	99	4	4	12	374	368	99
3	3	15	654	758	99	3	7	9	1211	1143	99	3	11	10	1169	1302	99	4	2	-11	1739	1734	99	4	4	13	494	520	99
3	5	-15	1093	1070	99	3	7	10	1587	1560	99	3	11	11	-152	102	99	4	2	-10	380	318	99	4	4	14	964	927	99
3	5	-14	362	169	99	3	7	11	599	588	99	3	13	-9	646	674	99	4	2	-9	589	649	99	4	4	15	-273	63	99
3	5	-13	1065	1119	99	3	7	12	1651	1682	99	3	13	-8	701	617	99	4	2	-8	3607	3625	99	4	6	-15	1027	981	99
3	5	-12	1606	1551	99	3	7	13	709	600	99	3	13	-7	348	75	99	4	2	-7	376	312	99	4	6	-14	814	844	99
3	5	-11	1101	1123	99	3	7	14	-156	270	99	3	13	-6	870	911	99	4	2	-6	2464	2385	99	4	6	-13	457	520	99
3	5	-10	414	282	99	3	9	-13	22	59	99	3	13	-5	288	167	99	4	2	-5	104	213	99	4	6	-12	1248	1365	99
3	5	-9	2149	2205	99	3	9	-12	1033	1014	99	3	13	-4	755	916	99	4	2	-4	3036	3002	99	4	6	-11	1695	1710	99
3	5	-8	412	392	99	3	9	-11	766	795	99	3	13	-3	1424	1429	99	4	2	-3	581	521	99	4	6	-10	183	385	99
3	5	-7	1001	1016	99	3	9	-10	1151	1228	99	3	13	-2	1121	1108	99	4	2	-2	4945	4959	99	4	6	-9	1343	1347	99
3	5	-6	2820	2917	99	3	9	-9	562	546	99	3	13	-1	820	684	99	4	2	-1	766	787	99	4	6	-8	1159	1260	99
3	5	-5	430	451	99	3	9	-8	949	1022	99	3	13	0	1248	1215	99	4	2	0	2181	2188	99	4	6	-7	2161	2249	99
3	5	-4	1344	1301	99	3	9	-7	548	521	99	3	13	1	840	786	99	4	2	1	3018	2986	99	4	6	-6	993	996	99
3	5	-3	1894	1941	99	3	9	-6	3402	3360	99	3	13	2	416	302	99	4	2	2	544	482	99	4	6	-5	2604	2632	99
3	5	-2	2007	2054	99	3	9	-5	-221	53	99	3	13	3	1213	1268	99	4	2	3	1937	1918	99	4	6	-4	799	803	99
3	5	-1	1012	1013	99	3	9	-4	1066	1076	99	3	13	4	1106	1181	99	4	2	4	4079	4137	99	4	6	-3	2202	2218	99
3	5	0	3348	3318	99	3	9	-3	878	876	99	3	13	5	-357	89	99	4	2	5	1239	1334	99	4	6	-2	1212	1225	99
3	5	1	3402	3243	99	3	9	-2	2675	2662	99	3	13	6	1042	1032	99	4	2	6	1722	1669	99	4	6	-1	1490	1513	99
3	5	2	852	761	99	3	9	-1	270	404	99	3	13	7	360	419	99	4	2	7	945	994	99	4	6	0	1545	1557	99
3	5	3	3895	3861	99	3	9	0	2310	2247	99	3	13	8	-90	209	99	4	2	8	2094	2030	99	4	6	1	3019	2934	99
4	6	2	2645	2596	99	4	10	2	694	578	99	5	1	-14	757	651	99	5	3	9	1492	1460	99	5	7	3	1691	1620	99
4	6	3	1663	1540	99	4	10	3	390	409	99	5	1	-13	2617	2655	99	5	3	10	1005	1010	99	5	7	4	-246	278	99
4	6	4	2061	2179	99	4	10	4	280	618	99	5	1	-12	369	295	99	5	3	11	1590	1598	99	5	7	5	713	773	99
4	6	5	2752	2755	99	4	10	5	1409	1396	99	5	1	-11	1023	937	99	5	3	12	1031	991	99	5	7	6	2731	2868	99
4	6	6	-393	56	99	4	10	6	240	366	99	5	1	-10	392	326	99	5	3	13	-187	135	99	5	7	7	361	231	99
4	6	7	1588	1565	99	4	10	7	2256	2324	99	5	1	-9	1714	1727	99	5	3	14	561	588	99	5	7	8	1831	1822	99
4	6	8	1274	1286	99	4	10	8	483	451	99	5	1	-8	177	109	99	5	3	15	1213	1121	99	5	7	9	805	801	99
4	6	9	-90	398	99	4	10	9	-485	224	99	5	1	-7	4917	4935	99	5	5	-15	-227	441	99	5	7	10	357	250	99
4	6	10	-334	200	99	4	10	10	559	464	99	5	1	-6	256	68	99	5	5	-14	1024	1066	99	5	7	11	492	527	99
4	6	11	1815	1872	99	4	10	11	1295	1333	99	5	1	-5	2284	2224	99	5	5	-13	1686	1755	99	5	7	12	1078	1036	99
4	6	12	181	373	99	4	10	12	-241	72	99	5	1	-4	766	687	99	5	5	-12	824	881	99	5	7	13	-381	94	99
4	6	13	927	982	99	4	12	-11	1638	1580	99	5	1	-3	1287	1357	99	5	5	-11	1453	1485	99	5	7	14	1117	1127	99
4	6	14	909	888	99	4	12	-10	529	554	99	5	1	-2	1027	934	99	5	5	-10	1628	1589	99	5	9	-13	299	315	99
4	8	-14	-346	67	99	4	12	-9	1329	1149	99	5	1	-1	7369	7414	99	5	5	-9	844	843	99	5	9	-12	630	659	99
4	8	-13	312	134	99	4	12	-8	819	737	99	5	1	0	2352	2297	99	5	5	-8	1841	1843	99	5	9	-11	368	369	99
4	8	-12	198	452	99	4	12	-7	616	546	99	5	1	1	1257	1202	99	5	5	-7	1317	1294	99	5	9	-10	1964	1963	99
4	8	-11	1596	1644	99	4	12	-6	-117	53	99	5	1	2	1610	1683	99	5	5	-6	1928	1983	99	5	9	-9	-364	135	99
4	8	-10	-222	48	99	4	12	-5	1219	1229	99	5	1	3	2224	2273	99	5	5	-5	872	914	99	5	9	-8	1042	910	99
4	8	-9	960	953	99	4	12	-4	580	693	99	5	1	4	1464	1460	99	5	5	-4	2596	2711	99	5	9	-7	490	494	99
4	8	-8	571	512	99	4	12	-3	539	589	99	5	1	5	5072	5036	99	5	5	-3	1598	1593	99	5	9	-6	1137	1143	99
4	8	-7	1433	1456	99	4	12	-2	659	817	99	5	1	6	955	1033	99	5	5	-2	1985	1880	99	5	9	-5	1438	1449	99
4	8	-6	1185	1160	99	4	12	-1	770	835	99	5	1	7	229	358	99	5	5	-1	2880	2855	99	5	9	-4	3189	3203	99
4	8	-5	3147	3150	99	4	12	0	554	493	99	5	1	8	-176	271	99	5	5	0	2096	2208	99	5	9	-3	753	766	99
4	8	-4	940	899	99	4	12	1	2373	2400	99	5	1	9	2204	2234	99	5	5	1	1356	1349	99	5	9	-2	2215	2051	99
4	8	-3	1543	1495	99	4	12	2	779	830	99	5	1	10	312	152	99	5	5	2	2488	2536	99	5	9	-1	198	86	99
4	8	-2	619	622	99	4	12	3	439	584	99	5	1	11	2849	2804	99	5	5	3	1767	1843	99	5	9	0	2016	1930	99
4	8	-1	1054	1049	99	4	12	4	989	1061	99	5	1	12	289	470	99	5	5	4	2037	1946	99	5	9	1	609	638	99
4	8	0	-77	190	99	4	12	5	1467	1492	99	5	1	13	339	115	99	5	5	5	2678	2754	99	5	9	2	2521	2618	99
4	8	1	3047	3022	99	4	12	6	368	269	99	5	1	14	321	168	99	5	5	6	2010	2073	99	5	9	3	459	278	99
4	8	2	915	893	99	4	12	7	1341	1399	99	5	1	15	880	925	99	5	5	7	935	988	99	5	9	4	630	669	99
4	8	3	670	757	99	4	12	8	-87	329	99	5	3	-16	804	713	99	5	5	8	1926	1808	99	5	9	5	724	762	99
4	8	4	587	633	99	4	12	9	270	281	99	5	3	-15	-324	283	99	5	5	9	1140	1183	99	5	9	6	1226	1314	99
4	8	5	2365	2450	99	4	12	10	371	765	99	5	3	-14	938	964	99	5	5	10	350	252	99	5	9	7	353	219	99
4	8	6	430	491	99	4	14	-8	1142	1099	99	5	3	-13	2043	2090	99	5	5	11	530	482	99	5	9	8	2193	2068	99
4	8	7	2050	1962	99	4	14	-7	411	177	99	5	3	-12	1211	1149	99	5	5	12	1373	1346	99	5	9	9	498	540	99
4	8	8	802	763	99	4	14	-6	557	530	99	5	3	-11	1845	1937	99	5	5	13	390	199	99	5	9	10	448	515	99
4	8	9	-625	274	99	4	14	-5	1283	1228	99	5	3	-10	1364	1413	99	5	5	14	796	831	99	5	9	11	224	27	99
4	8	10	131	402	99	4	14	-4	639	652	99	5	3	-9	538	662	99	5	5	15	863	809	99	5	9	12	1213	1326	99
4	8	11	1731	1716	99	4	14	-3	526	600	99	5	3	-8	1378	1401	99	5	7	-14	1170	1202	99	5	9	13	-174	109	99
4	8	12	384	108	99	4	14	-2	1117	1100	99	5	3	-7	3634	3688	99	5	7	-13	628	594	99	5	11	-12	238	321	99
4	8	13	1298	1293	99	4	14	-1	754	725	99	5	3	-6	1081	1166	99	5	7	-12	1150	1076	99	5	11	-11	343	74	99
4	10	-12	248	124	99	4	14	0	913	854	99	5	3	-5	1760	1723	99	5	7	-11	1278	1324	99	5	11	-10	2247	2163	99
4	10	-11	1299	1373	99	4	14	1	1200	1180	99	5	3	-4	1101	1139	99	5	7	-10	2317	2341	99	5	11	-9	235	290	99
4	10	-10	189	167	99	4	14	2	466	491	99	5	3	-3	1987	1927	99	5	7	-9	416	356	99	5	11	-8	1151	1176	99
4	10	-9	1414	1372	99	4	14	3	-668	100	99	5	3	-2	1817	1861	99	5	7	-8	1172	1221	99	5	11	-7	385	506	99
4	10	-8	596	481	99	4	14	4	1121	1100	99	5	3	-1	4272	4470	99	5	7	-7	826	888	99	5	11	-6	741	634	99
4	10	-7	584	492	99	4	14	5	429	548	99	5	3	0	4463	4435	99	5	7	-6	1983	2036	99	5	11	-5	260	110	99
4	10	-6	283	86	99	4	14	6	-444	97	99	5	3	1	427	490	99	5	7	-5	1396	1285	99	5	11	-4	2649	2613	99
4	10	-5	3071	3034	99	4	14	7	924	1029	99	5	3	2	1976	1954	99	5	7	-4	3444	3229	99	5	11	-3	556	615	99
4	10	-4	544	586	99	4	16	-2	1177	1259	99	5	3	3	2074	2128	99	5	7	-3	1031	1586	99	5	11	-2	360	364	99
4	10	-3	969	1009	99	4	16	-1	296	207	99	5	3	4	1258	1198	99	5	7	-2	2249	2174	99	5	11	-1	1379	1319	99
4	10	-2	196	63	99	4	16	0	476	492	99	5	3	5	2732	2692	99	5	7	-1	1128	1069	99	5	11	0	1555	1443	99
4	10	-1	1803	1804	99	4	16	1	693	651	99	5	3	6	1096	1084	99	5	7	0	1957	1937	99	5	11	1	610	629	99
4	10	0	835	862	99	5	1	-16	180	226	99	5	3	7	728	694	99	5	7	1	907	883	99	5	11	2	2361	2440	99
4	10	1	2718	2711	99	5	1	-15	-389	121	99	5	3	8	730	752	99	5	7	2	2242	2271	99	5	11	3	320	160	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sig
5	11	4	359	403	99	6	2	-16	896	873	99	6	4	8	210	478	99	6	8	3	2563	2473	99	6	12	9	931	992	99
5	11	5	308	437	99	6	2	-15	848	785	99	6	4	9	2134	2168	99	6	8	4	-313	215	99	6	12	10	551	434	99
5	11	6	950	1003	99	6	2	-14	667	738	99	6	4	10	1745	1700	99	6	8	5	637	574	99	6	14	-8	1269	1210	99
5	11	7	427	249	99	6	2	-13	906	897	99	6	4	11	152	28	99	6	8	6	832	805	99	6	14	-7	670	726	99
5	11	8	1832	1834	99	6	2	-12	2184	2180	99	6	4	12	1430	1390	99	6	8	7	2188	2125	99	6	14	-6	1267	1185	99
5	11	9	554	412	99	6	2	-11	619	619	99	6	4	13	1531	1558	99	6	8	8	-478	68	99	6	14	-5	840	739	99
5	11	10	518	207	99	6	2	-10	1515	1631	99	6	4	14	-338	145	99	6	8	9	2349	2415	99	6	14	-4	497	450	99
5	11	11	-242	492	99	6	2	-9	892	864	99	6	4	15	994	1002	99	6	8	10	805	833	99	6	14	-3	1633	1694	99
5	13	-9	818	804	99	6	2	-8	1359	1377	99	6	6	-15	1152	1073	99	6	8	11	396	467	99	6	14	-2	477	387	99
5	13	-8	707	606	99	6	2	-7	609	534	99	6	6	-14	-409	257	99	6	8	12	667	697	99	6	14	-1	611	415	99
5	13	-7	848	886	99	6	2	-6	5435	5401	99	6	6	-13	881	906	99	6	8	13	1178	1239	99	6	14	0	1147	1073	99
5	13	-6	401	439	99	6	2	-5	2366	2277	99	6	6	-12	1729	1646	99	6	10	-12	-314	68	99	6	14	1	979	1081	99
5	13	-5	379	335	99	6	2	-4	2800	2763	99	6	6	-11	1330	1357	99	6	10	-11	703	619	99	6	14	2	671	572	99
5	13	-4	1856	1751	99	6	2	-3	767	787	99	6	6	-10	1234	1177	99	6	10	-10	-364	132	99	6	14	3	1363	1280	99
5	13	-3	512	433	99	6	2	-2	4592	4627	99	6	6	-9	2713	2819	99	6	10	-9	2160	2114	99	6	14	4	1132	1156	99
5	13	-2	356	341	99	6	2	-1	1098	1100	99	6	6	-8	407	438	99	6	10	-8	604	651	99	6	14	5	251	463	99
5	13	-1	761	875	99	6	2	0	6826	6701	99	6	6	-7	1368	1347	99	6	10	-7	1579	1542	99	6	14	6	838	973	99
5	13	0	867	871	99	6	2	1	2484	2445	99	6	6	-6	1513	1511	99	6	10	-6	-373	279	99	6	14	7	1018	1000	99
5	13	1	672	673	99	6	2	2	1440	1295	99	6	6	-5	1635	1718	99	6	10	-5	1881	1817	99	7	1	-16	321	69	99
5	13	2	2773	2791	99	6	2	3	3000	2805	99	6	6	-4	848	875	99	6	10	-4	430	304	99	7	1	-15	935	882	99
5	13	3	299	610	99	6	2	4	4299	4266	99	6	6	-3	3704	3697	99	6	10	-3	3272	3166	99	7	1	-14	582	648	99
5	13	4	-200	403	99	6	2	5	1132	1125	99	6	6	-2	1178	1188	99	6	10	-2	492	524	99	7	1	-13	1529	1472	99
5	13	5	1119	1147	99	6	2	6	4153	3938	99	6	6	-1	2469	2366	99	6	10	-1	978	972	99	7	1	-12	843	835	99
5	13	6	905	953	99	6	2	7	860	732	99	6	6	0	4241	3972	99	6	10	0	528	457	99	7	1	-11	3082	3182	99
5	13	7	434	111	99	6	2	8	979	828	99	6	6	1	1649	1657	99	6	10	1	2248	2211	99	7	1	-10	22	96	99
5	13	8	1096	1112	99	6	2	9	332	259	99	6	6	2	2182	2044	99	6	10	2	271	167	99	7	1	-9	1529	1549	99
5	13	9	474	900	99	6	2	10	2473	2457	99	6	6	3	4511	4653	99	6	10	3	2820	2817	99	7	1	-8	572	601	99
5	15	-6	245	104	99	6	2	11	-615	257	99	6	6	4	1446	1452	99	6	10	4	646	682	99	7	1	-7	4474	4524	99
5	15	-5	598	582	99	6	2	12	2109	1914	99	6	6	5	180	249	99	6	10	5	124	658	99	7	1	-6	1374	1327	99
5	15	-4	1321	1329	99	6	2	13	520	486	99	6	6	6	2493	2501	99	6	10	6	-291	221	99	7	1	-5	3480	3523	99
5	15	-3	795	899	99	6	2	14	300	177	99	6	6	7	2652	2713	99	6	10	7	1861	1823	99	7	1	-4	221	190	99
5	15	-2	-423	242	99	6	2	15	-448	337	99	6	6	8	-352	37	99	6	10	8	-267	619	99	7	1	-3	1879	1864	99
5	15	-1	1170	1113	99	6	4	-15	1222	1198	99	6	6	9	2324	2310	99	6	10	9	1994	2025	99	7	1	-2	652	574	99
5	15	0	375	411	99	6	4	-14	726	705	99	6	6	10	915	899	99	6	10	10	-687	20	99	7	1	-1	4271	4411	99
5	15	1	482	469	99	6	4	-13	706	614	99	6	6	11	-129	120	99	6	10	11	-706	123	99	7	1	0	1040	996	99
5	15	2	149	700	99	6	4	-12	2094	2156	99	6	6	12	327	588	99	6	10	12	-316	219	99	7	1	1	3353	3330	99
5	15	3	1005	1015	99	6	4	-11	390	481	99	6	6	13	831	706	99	6	12	-10	322	185	99	7	1	2	409	318	99
5	15	4	-339	2	99	6	4	-10	1890	2062	99	6	6	14	286	313	99	6	12	-9	1992	1827	99	7	1	3	687	598	99
5	15	5	407	673	99	6	4	-9	1531	1555	99	6	8	-14	128	169	99	6	12	-8	-625	131	99	7	1	4	2597	2458	99
6	0	-16	983	941	99	6	4	-8	1353	1428	99	6	8	-13	863	856	99	6	12	-7	609	590	99	7	1	5	5687	5611	99
6	0	-14	816	842	99	6	4	-7	1538	1550	99	6	8	-12	89	194	99	6	12	-6	798	840	99	7	1	6	703	628	99
6	0	-12	3264	3248	99	6	4	-6	3373	3403	99	6	8	-11	1246	1286	99	6	12	-5	1089	1023	99	7	1	7	3348	3281	99
6	0	-10	1160	1046	99	6	4	-5	1979	1958	99	6	8	-10	557	494	99	6	12	-4	-434	105	99	7	1	8	822	736	99
6	0	-8	2382	2425	99	6	4	-4	870	841	99	6	8	-9	2591	2706	99	6	12	-3	2292	2255	99	7	1	9	-618	212	99
6	0	-6	6640	6646	99	6	4	-3	3592	3543	99	6	8	-8	-58	111	99	6	12	-2	917	843	99	7	1	10	425	405	99
6	0	-4	3135	3145	99	6	4	-2	3254	3293	99	6	8	-7	2164	2138	99	6	12	-1	880	911	99	7	1	11	2710	2627	99
6	0	-2	894	1012	99	6	4	-1	441	423	99	6	8	-6	1558	1521	99	6	12	0	794	760	99	7	1	12	721	537	99
6	0	0	4348	4440	99	6	4	0	3686	3739	99	6	8	-5	2186	2226	99	6	12	1	1834	1768	99	7	1	13	1185	1111	99
6	0	2	2299	2167	99	6	4	1	2617	2590	99	6	8	-4	1238	1288	99	6	12	2	-408	246	99	7	1	14	180	65	99
6	0	4	2789	2749	99	6	4	2	1597	1626	99	6	8	-3	3745	3717	99	6	12	3	3003	2931	99	7	1	15	-326	307	99
6	0	6	4869	4902	99	6	4	3	2396	2377	99	6	8	-2	967	1000	99	6	12	4	416	436	99	7	3	-16	429	486	99
6	0	8	-168	300	99	6	4	4	2949	2933	99	6	8	-1	1591	1460	99	6	12	5	441	473	99	7	3	-15	827	808	99
6	0	10	2994	2973	99	6	4	5	868	773	99	6	8	0	617	686	99	6	12	6	667	652	99	7	3	-14	1287	1226	99
6	0	12	2183	2272	99	6	4	6	2295	2248	99	6	8	1	2083	2152	99	6	12	7	1441	1377	99	7	3	-13	1786	1721	99
6	0	14	311	315	99	6	4	7	1012	963	99	6	8	2	740	600	99	6	12	8	120	324	99	7	3	-12	140	178	99
7	3	-11	2156	2188	99	7	5	13	1060	1053	99	7	9	12	347	79	99	8	0	-10	3463	3554	99	8	4	-5	470	479	99
7	3	-10	-286	204	99	7	5	14	922	923	99	7	11	-11	-173	74	99	8	0	-8	1310	1377	99	8	4	-4	4147	4242	99
7	3	-9	1121	1127	99	7	7	-14	1442	1422	99	7	11	-10	1396	1403	99	8	0	-6	4709	4712	99	8	4	-3	1875	1950	99
7	3	-8	1800	1795	99	7	7	-13	368	307	99	7	11	-9	-455	161	99	8	0	-4	3824	3827	99	8	4	-2	1303	1238	99
7	3	-7	2063	2094	99	7	7	-12	887	902	99	7	11	-8	2067	1982	99	8	0	-2	391	146	99	8	4	-1	3876	3946	99
7	3	-6	628	613	99	7	7	-11	1002	1015	99	7	11	-7	501	415	99	8	0	0	3620	3615	99	8	4	0	4149	4155	99
7	3	-5	4524	4616	99	7	7	-10	2417	2485	99	7	11	-6	401	397	99	8	0	2	4387	4379	99	8	4	1	262	318	99
7	3	-4	2680	2596	99	7	7	-9	243	380	99	7	11	-5	-418	226	99	8	0	4	299	220	99	8	4	2	3475	3448	99
7	3	-3	2495	2338	99	7	7	-8	3615	3626	99	7	11	-4	1971	2054	99	8	0	6	5150	5157	99	8	4	3	1735	1642	99
7	3	-2	3743	3692	99	7	7	-7	99	237	99	7	11	-3	167	249	99	8	0	8	2886	2754	99	8	4	4	-191	411	99
7	3	-1	5796	5843	99	7	7	-6	-138	391	99	7	11	-2	2723	2528	99	8	0	10	577	450	99	8	4	5	1358	1375	99
7	3	0	1288	1334	99	7	7	-5	2260	2207	99	7	11	-1	1241	1214	99	8	0	12	2070	1944	99	8	4	6	2195	2415	99
7	3	1	5054	4980	99	7	7	-4	1503	1445	99	7	11	0	1301	1183	99	8	0	14	1113	1021	99	8	4	7	457	360	99
7	3	2	564	585	99	7	7	-3	279	288	99	7	11	1	397	416	99	8	2	-16	1367	1350	99	8	4	8	1932	1857	99
7	3	3	565	560	99	7	7	-2	2732	2724	99	7	11	2	2496	2432	99	8	2	-15	-251	149	99	8	4	9	992	979	99
7	3	4	2434	2453	99	7	7	-1	1165	1269	99	7	11	3	785	784	99	8	2	-14	718	624	99	8	4	10	1048	966	99
7	3	5	2843	2929	99	7	7	0	1421	1342	99	7	11	4	2487	2343	99	8	2	-13	706	756	99	8	4	11	1324	1334	99
7	3	6	-154	107	99	7	7	1	2076	2011	99	7	11	5	-107	236	99	8	2	-12	1879	1921	99	8	4	12	2457	2380	99
7	3	7	2727	2800	99	7	7	2	2213	2212	99	7	11	6	-537	75	99	8	2	-11	383	408	99	8	4	13	-582	209	99
7	3	8	701	726	99	7	7	3	155	426	99	7	11	7	252	354	99	8	2	-10	2049	2098	99	8	4	14	1066	1057	99
7	3	9	481	568	99	7	7	4	3533	3709	99	7	11	8	1868	1846	99	8	2	-9	477	525	99	8	6	-15	662	680	99
7	3	10	1402	1404	99	7	7	5	542	527	99	7	11	9	769	848	99	8	2	-8	1674	1573	99	8	6	-14	267	503	99
7	3	11	2397	2502	99	7	7	6	394	259	99	7	11	10	1030	894	99	8	2	-7	890	904	99	8	6	-13	1868	1801	99
7	3	12	712	775	99	7	7	7	1368	1375	99	7	11	11	-97	526	99	8	2	-6	2397	2482	99	8	6	-12	255	297	99
7	3	13	1742	1681	99	7	7	8	2882	2863	99	7	13	-9	291	117	99	8	2	-5	704	767	99	8	6	-11	-145	169	99
7	3	14	614	678	99	7	7	9	-539	467	99	7	13	-8	862	940	99	8	2	-4	4310	4279	99	8	6	-10	1648	1618	99
7	3	15	555	477	99	7	7	10	2149	2019	99	7	13	-7	1068	1112	99	8	2	-3	2115	1993	99	8	6	-9	1435	1425	99
7	5	-15	1050	1022	99	7	7	11	962	969	99	7	13	-6	-376	355	99	8	2	-2	1037	961	99	8	6	-8	223	209	99
7	5	-14	1660	1595	99	7	7	12	317	63	99	7	13	-5	723	699	99	8	2	-1	2899	2849	99	8	6	-7	3393	3417	99
7	5	-13	157	167	99	7	7	13	571	651	99	7	13	-4	1868	1802	99	8	2	0	5786	5689	99	8	6	-6	2235	2186	99
7	5	-12	262	475	99	7	9	-13	-60	125	99	7	13	-3	203	534	99	8	2	1	917	922	99	8	6	-5	-184	222	99
7	5	-11	2585	2682	99	7	9	-12	535	593	99	7	13	-2	1423	1443	99	8	2	2	4386	4355	99	8	6	-4	2173	2128	99
7	5	-10	1253	1235	99	7	9	-11	498	420	99	7	13	-1	601	531	99	8	2	3	810	886	99	8	6	-3	2522	2555	99
7	5	-9	777	777	99	7	9	-10	1306	1316	99	7	13	0	219	558	99	8	2	4	839	838	99	8	6	-2	1133	1025	99
7	5	-8	2621	2751	99	7	9	-9	200	42	99	7	13	1	1321	1211	99	8	2	5	1988	1970	99	8	6	-1	3319	3235	99
7	5	-7	2412	2506	99	7	9	-8	2866	2888	99	7	13	2	2109	1931	99	8	2	6	4234	4091	99	8	6	0	2300	2248	99
7	5	-6	329	399	99	7	9	-7	-383	168	99	7	13	3	-413	299	99	8	2	7	-259	294	99	8	6	1	1016	1040	99
7	5	-5	2736	2781	99	7	9	-6	1771	1752	99	7	13	4	1263	1267	99	8	2	8	2880	2894	99	8	6	2	2904	2889	99
7	5	-4	1446	1512	99	7	9	-5	960	896	99	7	13	5	1193	1206	99	8	2	9	1333	1275	99	8	6	3	3077	3094	99
7	5	-3	904	870	99	7	9	-4	3177	3057	99	7	13	6	390	495	99	8	2	10	-502	104	99	8	6	4	298	112	99
7	5	-2	5134	5095	99	7	9	-3	-362	158	99	7	13	7	921	827	99	8	2	11	680	556	99	8	6	5	3218	3201	99
7	5	-1	2598	2539	99	7	9	-2	4007	3897	99	7	13	8	1518	1516	99	8	2	12	2305	2321	99	8	6	6	2351	2266	99
7	5	0	306	123	99	7	9	-1	-261	42	99	7	15	-5	1547	1465	99	8	2	13	-160	224	99	8	6	7	-238	207	99
7	5	1	4938	4774	99	7	9	0	185	331	99	7	15	-4	1236	1093	99	8	2	14	1416	1365	99	8	6	8	1305	1251	99
7	5	2	3425	3266	99	7	9	1	216	321	99	7	15	-3	-320	150	99	8	2	15	575	539	99	8	6	9	2162	2137	99
7	5	3	1177	1194	99	7	9	2	3149	3153	99	7	15	-2	1148	1136	99	8	4	-15	672	634	99	8	6	10	1026	985	99
7	5	4	3201	3195	99	7	9	3	972	932	99	7	15	-1	612	703	99	8	4	-14	879	889	99	8	6	11	1927	1995	99
7	5	5	2644	2600	99	7	9	4	2683	2630	99	7	15	0	12	215	99	8	4	-13	1529	1523	99	8	6	12	1319	1300	99
7	5	6	323	184	99	7	9	5	-38	188	99	7	15	1	1028	1018	99	8	4	-12	1301	1253	99	8	6	13	-325	336	99
7	5	7	2075	2077	99	7	9	6	298	403	99	7	15	2	1323	1340	99	8	4	-11	-476	145	99	8	6	14	686	551	99
7	5	8	1170	1126	99	7	9	7	829	763	99	7	15	3	428	348	99	8	4	-10	1503	1483	99	8	8	-14	-535	294	99
7	5	9	1138	1065	99	7	9	8	2252	2089	99	7	15	4	324	369	99	8	4	-9	475	451	99	8	8	-13	1692	1639	99
7	5	10	2232	2235	99	7	9	9	251	71	99	8	0	-16	880	899	99	8	4	-8	268	436	99	8	8	-12	424	143	99
7	5	11	1261	1144	99	7	9	10	2083	2066	99	8	0	-14	558	616	99	8	4	-7	2182	2197	99	8	8	-11	346	425	99
7	5	12	-80	44	99	7	9	11	-580	68	99	8	0	-12	2203	2267	99	8	4	-6	2584	2531	99	8	8	-10	331	867	99

h	k	l	Fo	Fc	sigF2
8	8	-9	1962	2059	99
8	8	-8	108	224	99
8	8	-7	3201	3167	99
8	8	-6	218	146	99
8	8	-5	442	494	99
8	8	-4	1294	1245	99
8	8	-3	2202	2190	99
8	8	-2	293	207	99
8	8	-1	2883	2763	99
8	8	0	682	660	99
8	8	1	133	102	99
8	8	2	982	965	99
8	8	3	3457	3596	99
8	8	4	1219	1230	99
8	8	5	3535	3567	99
8	8	6	-134	554	99
8	8	7	428	414	99
8	8	8	-136	378	99
8	8	9	2377	2355	99
8	8	10	211	206	99
8	8	11	1717	1605	99
8	8	12	246	474	99
8	8	13	286	211	99
8	10	-12	-541	238	99
8	10	-11	516	407	99
8	10	-10	193	399	99
8	10	-9	1300	1282	99
8	10	-8	-82	238	99
8	10	-7	2009	1923	99
8	10	-6	840	795	99
8	10	-5	1219	1212	99
8	10	-4	-329	81	99
8	10	-3	2909	2832	99
8	10	-2	250	284	99
8	10	-1	3381	3225	99
8	10	0	376	506	99
8	10	1	301	173	99
8	10	2	426	299	99
8	10	3	3072	3007	99
8	10	4	-466	511	99
8	10	5	1775	1712	99
8	10	6	279	264	99
8	10	7	-328	121	99
8	10	8	416	391	99
8	10	9	1973	1920	99
8	10	10	573	442	99
8	10	11	1349	1376	99
8	12	-10	509	451	99
8	12	-9	1332	1353	99
8	12	-8	-605	341	99
8	12	-7	1448	1392	99
8	12	-6	380	503	99
8	12	-5	276	276	99
8	12	-4	974	861	99
8	12	-3	2312	2267	99
8	12	-2	338	319	99
8	12	-1	1625	1549	99
8	12	0	342	608	99
8	12	1	642	594	99
8	12	2	1089	973	99
8	12	3	1676	1673	99
8	12	4	-247	181	99
8	12	5	1796	1676	99
8	12	6	627	419	99
8	12	7	368	174	99
8	12	8	602	676	99
8	12	9	1731	1832	99
8	14	-7	912	903	99
8	14	-6	914	788	99
8	14	-5	-118	394	99
8	14	-4	1124	1146	99
8	14	-3	1495	1384	99
8	14	-2	-91	72	99
8	14	-1	1690	1588	99
8	14	0	791	698	99
8	14	1	-712	78	99
8	14	2	1230	1164	99
8	14	3	1597	1522	99
8	14	4	-544	143	99
8	14	5	774	783	99
8	14	6	1048	1085	99
9	1	-16	-252	144	99
9	1	-15	1537	1494	99
9	1	-14	246	203	99
9	1	-13	541	516	99
9	1	-12	590	549	99
9	1	-11	2062	2032	99
9	1	-10	558	573	99
9	1	-9	3623	3697	99
9	1	-8	845	881	99
9	1	-7	486	458	99
9	1	-6	1067	1117	99
9	1	-5	2637	2835	99
9	1	-4	591	461	99
9	1	-3	3367	3375	99
9	1	-2	881	878	99
9	1	-1	1423	1389	99
9	1	0	1851	1733	99
9	1	1	4211	4253	99
9	1	2	641	709	99
9	1	3	4014	4075	99
9	1	4	91	129	99
9	1	5	1009	1045	99
9	1	6	337	354	99
9	1	7	3398	3559	99
9	1	8	-339	162	99
9	1	9	2626	2507	99
9	1	10	760	649	99
9	1	11	985	1110	99
9	1	12	-376	51	99
9	1	13	1440	1426	99
9	1	14	232	46	99
9	1	15	819	781	99
9	3	-15	1163	1144	99
9	3	-14	-203	280	99
9	3	-13	-160	299	99
9	3	-12	532	628	99
9	3	-11	933	1018	99
9	3	-10	199	65	99
9	3	-9	2292	2382	99
9	3	-8	1785	1709	99
9	3	-7	194	138	99
9	3	-6	734	734	99
9	3	-5	3415	3423	99
9	3	-4	89	102	99
9	3	-3	4294	4253	99
9	3	-2	2088	2086	99
9	3	-1	1601	1529	99
9	3	0	2789	2648	99
9	3	1	3912	3932	99
9	3	2	1155	1132	99
9	3	3	2569	2484	99
9	3	4	1432	1391	99
9	3	5	1586	1598	99
9	3	6	-345	278	99
9	3	7	2224	2129	99
9	3	8	195	74	99
9	3	9	1885	1832	99
9	3	10	1613	1573	99
9	3	11	1119	1031	99
9	3	12	861	868	99
9	3	13	1644	1609	99
9	3	14	341	73	99
9	5	-15	882	888	99
9	5	-14	1054	1095	99
9	5	-13	678	641	99
9	5	-12	1128	1091	99
9	5	-11	890	877	99
9	5	-10	761	669	99
9	5	-9	1232	1229	99
9	5	-8	1712	1734	99
9	5	-7	827	855	99
9	5	-6	2056	2126	99
9	5	-5	2649	2693	99
9	5	-4	666	607	99
9	5	-3	1857	1824	99
9	5	-2	3508	3630	99
9	5	-1	461	340	99
9	5	0	1212	1294	99
9	5	1	2294	2225	99
9	5	2	173	227	99
9	5	3	1911	1820	99
9	5	4	3257	3334	99
9	5	5	396	371	99
9	5	6	1772	1661	99
9	5	7	2741	2588	99
9	5	8	329	67	99
9	5	9	1050	978	99
9	5	10	2574	2442	99
9	5	11	1354	1341	99
9	5	12	144	561	99
9	5	13	1478	1471	99
9	5	14	320	78	99
9	7	-14	1000	892	99
9	7	-13	-159	498	99
9	7	-12	1882	1936	99
9	7	-11	651	694	99
9	7	-10	741	729	99
9	7	-9	640	706	99
9	7	-8	2401	2453	99
9	7	-7	470	371	99
9	7	-6	2774	2702	99
9	7	-5	1816	1863	99
9	7	-4	145	243	99
9	7	-3	1168	1142	99
9	7	-2	3020	2825	99
9	7	-1	-163	192	99
9	7	0	2042	1893	99
9	7	1	2144	2042	99
9	7	2	464	386	99
9	7	3	-276	248	99
9	7	4	2974	3119	99
9	7	5	319	468	99
9	7	6	2444	2367	99
9	7	7	1408	1450	99
9	7	8	313	327	99
9	7	9	-419	333	99
9	7	10	1940	1936	99
9	7	11	441	224	99
9	7	12	144	470	99
9	7	13	1004	999	99
9	9	-13	193	114	99
9	9	-12	1453	1528	99
9	9	-11	474	280	99
9	9	-10	-468	235	99
9	9	-9	206	58	99
9	9	-8	1436	1453	99
9	9	-7	579	606	99
9	9	-6	1912	1955	99
9	9	-5	-276	231	99
9	9	-4	260	151	99
9	9	-3	42	308	99
9	9	-2	2219	2126	99
9	9	-1	162	529	99
9	9	0	3080	2822	99
9	9	1	1104	1017	99
9	9	2	1307	1292	99
9	9	3	269	272	99
9	9	4	3044	3097	99
9	9	5	165	513	99
9	9	6	2016	1937	99
9	9	7	676	704	99
9	9	8	483	493	99
9	9	9	266	225	99
9	9	10	1634	1706	99
9	9	11	334	201	99
9	9	12	1396	1228	99
9	11	-11	-436	321	99
9	11	-10	199	174	99
9	11	-9	-264	74	99
9	11	-8	1547	1481	99
9	11	-7	304	216	99
9	11	-6	2004	1935	99
9	11	-5	-566	488	99
9	11	-4	295	295	99
9	11	-3	1197	1104	99
9	11	-2	2377	2292	99
9	11	-1	-157	60	99
9	11	0	2157	2169	99
9	11	1	671	722	99
9	11	2	-322	337	99
9	11	3	614	482	99
9	11	4	1524	1526	99
9	11	5	200	350	99
9	11	6	1226	1350	99
9	11	7	320	100	99
9	11	8	847	794	99
9	11	9	496	479	99
9	11	10	1603	1607	99
9	13	-9	835	908	99
9	13	-8	1026	986	99
9	13	-7	357	106	99
9	13	-6	1534	1511	99
9	13	-5	812	808	99
9	13	-4	470	399	99
9	13	-3	692	749	99
9	13	-2	1374	1349	99
9	13	-1	221	75	99
9	13	0	1618	1493	99
9	13	1	452	632	99
9	13	2	375	219	99
9	13	3	1099	1066	99
9	13	4	1149	1265	99
9	13	5	-687	244	99
9	13	6	1077	1094	99
9	13	7	918	954	99
9	13	8	972	1078	99
9	15	-4	-364	57	99
9	15	-3	835	688	99
9	15	-2	893	834	99
9	15	-1	-526	256	99
9	15	0	969	916	99
9	15	1	1079	1141	99
9	15	2	693	610	99
9	15	3	863	955	99
10	0	-16	482	461	99
10	0	-14	1791	1800	99
10	0	-12	953	904	99
10	0	-10	1576	1691	99
10	0	-8	3199	3250	99
10	0	-6	294	158	99
10	0	-4	2052	2186	99
10	0	-2	2702	2910	99
10	0	0	321	393	99
10	0	2	3552	3536	99
10	0	4	5033	5045	99
10	0	6	130	270	99
10	0	8	2831	2869	99
10	0	10	1605	1644	99
10	0	12	1252	1292	99
10	0	14	1237	1420	99
10	2	-15	524	453	99
10	2	-14	2071	1935	99
10	2	-13	150	124	99
10	2	-12	-44	168	99
10	2	-11	369	315	99
10	2	-10	1211	1196	99
10	2	-9	-142	49	99
10	2	-8	2760	2754	99
10	2	-7	1728	1746	99
10	2	-6	1081	1082	99
10	2	-5	1275	1291	99
10	2	-4	1792	1748	99
10	2	-3	403	417	99
10	2	-2	4802	4595	99
10	2	-1	280	179	99
10	2	0	1736	1644	99
10	2	1	628	585	99
10	2	2	3850	3842	99
10	2	3	880	920	99
10	2	4	2717	2739	99
10	2	5	1403	1269	99
10	2	6	1687	1721	99
10	2	7	264	405	99
10	2	8	2051	2026	99
10	2	9	740	775	99
10	2	10	1757	1649	99
10	2	11	1198	1205	99
10	2	12	775	717	99
10	2	13	462	484	99
10	2	14	1475	1431	99
10	4	-15	714	723	99
10	4	-14	1094	1076	99
10	4	-13	1518	1490	99
10	4	-12	174	186	99
10	4	-11	470	453	99
10	4	-10	928	924	99
10	4	-9	190	153	99
10	4	-8	1851	1843	99
10	4	-7	1661	1717	99
10	4	-6	897	893	99
10	4	-5	2007	1884	99
10	4	-4	2550	2445	99
10	4	-3	2180	2133	99
10	4	-2	2305	2421	99
10	4	-1	4129	3965	99
10	4	0	635	708	99
10	4	1	2026	2087	99
10	4	2	1234	1322	99
10	4	3	229	13	99
10	4	4	2216	2145	99
10	4	5	2089	2057	99
10	4	6	1191	1189	99
10	4	7	362	439	99
10	4	8	1752	1685	99
10	4	9	580	451	99
10	4	10	854	799	99
10	4	11	1540	1486	99
10	4	12	-291	592	99
10	4	13	1066	1056	99
10	4	14	1181	1232	99
10	6	-14	286	283	99
10	6	-13	766	807	99
10	6	-12	1039	976	99
10	6	-11	1627	1686	99
10	6	-10	777	748	99
10	6	-9	1421	1448	99
10	6	-8	886	944	99
10	6	-7	2316	2372	99
10	6	-6	611	396	99
10	6	-5	1256	1284	99
10	6	-4	1967	1986	99
10	6	-3	-124	71	99
10	6	-2	849	812	99
10	6	-1	2370	2433	99
10	6	0	619	544	99
10	6	1	1687	1644	99
10	6	2	1474	1349	99
10	6	3	789	762	99
10	6	4	593	436	99
10	6	5	3739	3726	99
10	6	6	855	772	99
10	6	7	1796	1695	99
10	6	8	2206	2204	99
10	6	9	617	747	99
10	6	10	428	307	99
10	6	11	1562	1512	99
10	6	12	543	744	99
10	6	13	-282	278	99
10	8	-13	1188	1240	99
10	8	-12	214	211	99
10	8	-11	1612	1614	99
10	8	-10	395	479	99
10	8	-9	451	448	99
10	8	-8	773	756	99
10	8	-7	917	906	99
10	8	-6	1232	1242	99
10	8	-5	1748	1852	99
10	8	-4	530	553	99
10	8	-3	283	108	99
10	8	-2	710	807	99
10	8	-1	2560	2505	99
10	8	0	229	76	99
10	8	1	1997	1864	99
10	8	2	1883	1906	99
10	8	3	579	722	99
10	8	4	266	676	99
10	8	5	2228	2187	99
10	8	6	-651	240	99
10	8	7	1627	1607	99
10	8	8	-409	424	99
10	8	9	-419	79	99
10	8	10	230	26	99
10	8	11	1351	1358	99
10	8	12	355	205	99
10	10	-12	504	511	99
10	10	-11	1352	1359	99
10	10	-10	-86	171	99
10	10	-9	-438	139	99
10	10	-8	-288	355	99
10	10	-7	1056	1058	99
10	10	-6	-269	19	99
10	10	-5	2257	2214	99
10	10	-4	-293	85	99
10	10	-3	256	121	99
10	10	-2	1610	1579	99
10	10	-1	2001	1979	99
10	10	0	-249	113	99
10	10	1	2421	2372	99
10	10	2	-241	141	99
10	10	3	611	729	99
10	10	4	287	97	99
10	10	5	1806	1822	99
10	10	6	-251	147	99
10	10	7	1110	1134	99
10	10	8	-331	214	99
10	10	9	716	644	99
10	10	10	704	633	99
10	10	11	1187	1133	99
10	12	-10	595	614	99
10	12	-9	-645	145	99
10	12	-8	728	741	99
10	12	-7	1247	1289	99
10	12	-6	247	16	99
10	12	-5	1824	1785	99
10	12	-4	421	587	99
10	12	-3	364	202	99
10	12	-2	1110	964	99
10	12	-1	1080	944	99
10	12	0	314	152	99
10	12	1	1732	1660	99
10	12	2	629	517	99
10	12	3	223	142	99
10	12	4	860	852	99
10	12	5	1448	1496	99
10	12	6	-241	54	99
10	12	7	1139	1109	99
10	12	8	565	518	99
10	12	9	1146	1165	99
10	14	-7	124	165	99
10	14	-6	288	35	99
10	14	-5	1149	1206	99
10	14	-4	918	854	99
10	14	-3	425	64	99
10	14	-2	418	397	99
10	14	-1	932	1006	99
10	14	0	179	94	99
10	14	1	1106	991	99
10	14	2	884	917	99
10	14	3	642	730	99
10	14	4	1126	1208	99
10	14	5	582	593	99
11	1	-15	1042	941	99
11	1	-14	-120	19	99
11	1	-13	2075	2046	99
11	1	-12	143	189	99
11	1	-11	1304	1262	99
11	1	-10	372	456	99
11	1	-9	1491	1501	99
11	1	-8	278	47	99
11	1	-7	1644	1614	99
11	1	-6	2019	2102	99
11	1	-5	-183	88	99
11	1	-4	1007	1026	99
11	1	-3	3304	3195	99
11	1	-2	538	434	99
11	1	-1	3128	3111	99
11	1	0	419	236	99
11	1	1	1364	1355	99
11	1	2	406	397	99
11	1	3	3455	3538	99
11	1	4	738	687	99
11	1	5	2903	2749	99
11	1	6	1143	1007	99
11	1	7	30	171	99
11	1	8	825	827	99
11	1	9	2193	2285	99
11	1	10	670	580	99
11	1	11	986	914	99
11	1	12	-519	497	99
11	1	13	959	977	99
11	1	14	235	48	99
11	3	-15	826	747	99
11	3	-14	203	272	99
11	3	-13	1979	1838	99
11	3	-12	692	655	99
11	3	-11	289	252	99
11	3	-10	529	419	99
11	3	-9	1693	1662	99
11	3	-8	-195	44	99
11	3	-7	1933	1921	99
11	3	-6	1658	1682	99
11	3	-5	1225	1125	99
11	3	-4	2420	2396	99
11	3	-3	2091	2101	99
11	3	-2	248	351	99
11	3	-1	3900	3757	99
11	3	0	1765	1734	99
11	3	1	599	490	99
11	3	2	940	863	99
11	3	3	3494	3468	99
11	3	4	338	623	99
11	3	5	970	1015	99
11	3	6	1131	1137	99
11	3	7	711	823	99
11	3	8	1025	969	99
11	3	9	1807	1820	99
11	3	10	-355	529	99
11	3	11	817	720	99
11	3	12	1047	978	99
11	3	13	0	241	99
11	3	14	744	556	99
11	5	-15	173	126	99
11	5	-14	567	591	99
11	5	-13	639	743	99
11	5	-12	1134	1052	99
11	5	-11	838	866	99
11	5	-10	1830	1925	99
11	5	-9	1270	1365	99
11	5	-8	235	333	99
11	5	-7	2726	2684	99
11	5	-6	1574	1604	99
11	5	-5	176	249	99
11	5	-4	2279	2279	99
11	5	-3	2484	2411	99
11	5	-2	697	618	99
11	5	-1	1359	1398	99
11	5	0	2302	2295	99
11	5	1	166	54	99
11	5	2	2428	2422	99
11	5	3	825	765	99
11	5	4	1660	1563	99
11	5	5	882	899	99
11	5	6	1393	1336	99
11	5	7	774	711	99
11	5	8	1163	1162	99
11	5	9	2071	1944	99
11	5	10	379	421	99
11	5	11	-370	656	99
11	5	12	818	858	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF
11	5	13	212	444	99	11	11	-9	270	210	99	12	2	-15	393	329	99	12	4	10	1961	1885	99	12	8	10	-368	345	99
11	7	-14	530	335	99	11	11	-8	313	322	99	12	2	-14	1357	1308	99	12	4	11	287	294	99	12	8	11	554	552	99
11	7	-13	444	542	99	11	11	-7	72	305	99	12	2	-13	-328	107	99	12	4	12	1007	1020	99	12	8	12	-818	261	99
11	7	-12	817	739	99	11	11	-6	1689	1650	99	12	2	-12	2237	2159	99	12	4	13	541	402	99	12	10	-12	-177	189	99
11	7	-11	416	272	99	11	11	-5	359	315	99	12	2	-11	371	361	99	12	6	-14	349	127	99	12	10	-11	1349	1335	99
11	7	-10	2148	2098	99	11	11	-4	1920	1807	99	12	2	-10	1063	1049	99	12	6	-13	609	492	99	12	10	-10	351	168	99
11	7	-9	-406	356	99	11	11	-3	-574	138	99	12	2	-9	1590	1607	99	12	6	-12	1097	1158	99	12	10	-9	1506	1502	99
11	7	-8	1076	1048	99	11	11	-2	301	402	99	12	2	-8	2453	2449	99	12	6	-11	1088	1010	99	12	10	-8	833	741	99
11	7	-7	1018	1005	99	11	11	-1	1100	1060	99	12	2	-7	279	113	99	12	6	-10	-152	247	99	12	10	-7	607	566	99
11	7	-6	1686	1699	99	11	11	0	1685	1550	99	12	2	-6	2533	2535	99	12	6	-9	2265	2205	99	12	10	-6	129	79	99
11	7	-5	476	357	99	11	11	1	-340	275	99	12	2	-5	1271	1198	99	12	6	-8	1208	1226	99	12	10	-5	1454	1493	99
11	7	-4	1617	1670	99	11	11	2	1504	1458	99	12	2	-4	1331	1352	99	12	6	-7	501	484	99	12	10	-4	244	268	99
11	7	-3	646	653	99	11	11	3	533	342	99	12	2	-3	2269	2180	99	12	6	-6	2806	2880	99	12	10	-3	2361	2372	99
11	7	-2	509	567	99	11	11	4	372	109	99	12	2	-2	3313	3320	99	12	6	-5	1393	1374	99	12	10	-2	282	29	99
11	7	-1	1515	1503	99	11	11	5	382	105	99	12	2	-1	386	233	99	12	6	-4	-228	279	99	12	10	-1	318	547	99
11	7	0	2263	2337	99	11	11	6	1590	1590	99	12	2	0	2975	2929	99	12	6	-3	2847	2873	99	12	10	0	-389	349	99
11	7	1	-329	115	99	11	11	7	-255	82	99	12	2	1	388	487	99	12	6	-2	592	624	99	12	10	1	2542	2540	99
11	7	2	2736	2734	99	11	11	8	812	786	99	12	2	2	1010	924	99	12	6	-1	829	828	99	12	10	2	480	669	99
11	7	3	766	652	99	11	11	9	420	428	99	12	2	3	-31	340	99	12	6	0	1484	1567	99	12	10	3	1736	1771	99
11	7	4	744	620	99	11	13	-8	-441	176	99	12	2	4	3755	3747	99	12	6	1	1919	1935	99	12	10	4	314	419	99
11	7	5	846	816	99	11	13	-7	1065	1048	99	12	2	5	633	655	99	12	6	2	225	81	99	12	10	5	-270	411	99
11	7	6	1722	1760	99	11	13	-6	1233	1180	99	12	2	6	1528	1499	99	12	6	3	2757	2679	99	12	10	6	-378	63	99
11	7	7	594	547	99	11	13	-5	400	316	99	12	2	7	901	931	99	12	6	4	550	531	99	12	10	7	1696	1691	99
11	7	8	2310	2263	99	11	13	-4	1462	1452	99	12	2	8	508	489	99	12	6	5	-375	76	99	12	10	8	-336	64	99
11	7	9	171	430	99	11	13	-3	444	846	99	12	2	9	1062	1045	99	12	6	6	1540	1421	99	12	10	9	879	813	99
11	7	10	482	591	99	11	13	-2	367	189	99	12	2	10	1759	1835	99	12	6	7	1080	1126	99	12	10	10	148	174	99
11	7	11	-113	433	99	11	13	-1	953	688	99	12	2	11	402	671	99	12	6	8	900	782	99	12	12	-9	1225	1236	99
11	7	12	1112	1192	99	11	13	0	859	866	99	12	2	12	825	814	99	12	6	9	1531	1562	99	12	12	-8	-336	722	99
11	9	-13	-273	383	99	11	13	1	-218	159	99	12	2	13	352	235	99	12	6	10	998	1010	99	12	12	-7	581	587	99
11	9	-12	1306	1267	99	11	13	2	740	755	99	12	2	14	-427	143	99	12	6	11	411	382	99	12	12	-6	611	589	99
11	9	-11	361	350	99	11	13	3	876	830	99	12	4	-15	1033	906	99	12	6	12	690	763	99	12	12	-5	1689	1745	99
11	9	-10	1740	1705	99	11	13	4	299	362	99	12	4	-14	639	530	99	12	6	13	980	1068	99	12	12	-4	325	329	99
11	9	-9	238	322	99	11	13	5	829	862	99	12	4	-13	247	207	99	12	8	-13	851	871	99	12	12	-3	1415	1417	99
11	9	-8	912	918	99	11	13	6	1211	1223	99	12	4	-12	1657	1577	99	12	8	-12	828	697	99	12	12	-2	855	923	99
11	9	-7	-384	198	99	11	13	7	-767	116	99	12	4	-11	905	852	99	12	8	-11	1039	994	99	12	12	-1	586	558	99
11	9	-6	1262	1342	99	11	15	-3	1056	966	99	12	4	-10	496	395	99	12	8	-10	-304	166	99	12	12	0	444	568	99
11	9	-5	-237	245	99	11	15	-2	230	128	99	12	4	-9	1635	1620	99	12	8	-9	2379	2426	99	12	12	1	1109	1009	99
11	9	-4	2248	2207	99	11	15	-1	801	934	99	12	4	-8	1840	1873	99	12	8	-8	341	322	99	12	12	2	222	223	99
11	9	-3	540	518	99	11	15	0	830	918	99	12	4	-7	556	546	99	12	8	-7	700	834	99	12	12	3	689	684	99
11	9	-2	-335	167	99	11	15	1	375	252	99	12	4	-6	2871	2851	99	12	8	-6	685	597	99	12	12	4	1081	941	99
11	9	-1	293	96	99	12	0	-14	1270	1319	99	12	4	-5	708	793	99	12	8	-5	2172	2215	99	12	12	5	-826	216	99
11	9	0	2822	2773	99	12	0	-12	2142	2111	99	12	4	-4	1900	1763	99	12	8	-4	528	497	99	12	12	6	549	504	99
11	9	1	-209	488	99	12	0	-10	2015	2119	99	12	4	-3	2987	2967	99	12	8	-3	2182	2310	99	12	12	7	1625	1572	99
11	9	2	1524	1538	99	12	0	-8	1882	1868	99	12	4	-2	2960	2779	99	12	8	-2	-272	175	99	12	12	8	223	122	99
11	9	3	-217	407	99	12	0	-6	2479	2455	99	12	4	-1	395	181	99	12	8	-1	-402	55	99	12	14	-6	932	833	99
11	9	4	790	637	99	12	0	-4	0	14	99	12	4	0	3353	3144	99	12	8	0	1372	1314	99	12	14	-5	1046	1037	99
11	9	5	435	121	99	12	0	-2	4283	4374	99	12	4	1	947	944	99	12	8	1	2314	2358	99	12	14	-4	265	219	99
11	9	6	1670	1669	99	12	0	0	1840	1868	99	12	4	2	-350	76	99	12	8	2	323	369	99	12	14	-3	868	785	99
11	9	7	428	335	99	12	0	2	1826	1868	99	12	4	3	2829	2870	99	12	8	3	3097	3174	99	12	14	-2	1053	944	99
11	9	8	697	737	99	12	0	4	3384	3368	99	12	4	4	2532	2506	99	12	8	4	722	704	99	12	14	-1	625	595	99
11	9	9	406	347	99	12	0	6	3151	3049	99	12	4	5	1384	1332	99	12	8	5	605	555	99	12	14	0	959	839	99
11	9	10	450	332	99	12	0	8	550	464	99	12	4	6	1833	1882	99	12	8	6	728	725	99	12	14	1	1183	1279	99
11	9	11	484	68	99	12	0	10	2247	2193	99	12	4	7	1554	1457	99	12	8	7	2115	2076	99	12	14	2	-554	5	99
11	11	-11	316	473	99	12	0	12	268	318	99	12	4	8	472	304	99	12	8	8	417	496	99	12	14	3	580	522	99
11	11	-10	1252	1285	99	12	0	14	782	635	99	12	4	9	1324	1357	99	12	8	9	1185	1055	99	12	14	4	583	694	99
13	1	-15	831	753	99	13	3	10	1120	1135	99	13	7	10	1162	1172	99	13	13	1	612	611	99	14	4	-8	398	272	99
13	1	-14	359	327	99	13	3	11	1519	1585	99	13	7	11	326	455	99	13	13	2	1100	1127	99	14	4	-7	1086	1033	99
13	1	-13	1697	1693	99	13	3	12	-349	183	99	13	7	12	-246	710	99	13	13	3	429	251	99	14	4	-6	2533	2549	99
13	1	-12	-199	118	99	13	3	13	979	1108	99	13	9	-12	344	363	99	13	13	4	634	599	99	14	4	-5	762	762	99
13	1	-11	2421	2510	99	13	5	-14	1735	1626	99	13	9	-11	559	589	99	13	13	5	610	573	99	14	4	-4	2163	2221	99
13	1	-10	367	253	99	13	5	-13	777	704	99	13	9	-10	1714	1757	99	13	13	6	147	366	99	14	4	-3	1985	1753	99
13	1	-9	1092	1102	99	13	5	-12	246	355	99	13	9	-9	308	132	99	14	0	-14	201	194	99	14	4	-2	464	386	99
13	1	-8	1355	1408	99	13	5	-11	1651	1620	99	13	9	-8	1831	1859	99	14	0	-12	1246	1204	99	14	4	-1	1702	1721	99
13	1	-7	3017	3027	99	13	5	-10	1339	1293	99	13	9	-7	299	289	99	14	0	-10	2989	3024	99	14	4	0	2137	2260	99
13	1	-6	-289	124	99	13	5	-9	508	487	99	13	9	-6	-381	117	99	14	0	-8	228	141	99	14	4	1	335	93	99
13	1	-5	2935	2996	99	13	5	-8	2198	2221	99	13	9	-5	-406	246	99	14	0	-6	2962	3145	99	14	4	2	1842	1900	99
13	1	-4	1508	1476	99	13	5	-7	2568	2531	99	13	9	-4	1981	2057	99	14	0	-4	4040	4504	99	14	4	3	3180	3238	99
13	1	-3	317	280	99	13	5	-6	100	31	99	13	9	-3	-296	157	99	14	0	-2	1914	2161	99	14	4	4	927	1004	99
13	1	-2	528	363	99	13	5	-5	3270	3126	99	13	9	-2	3094	3022	99	14	0	0	4421	4547	99	14	4	5	737	843	99
13	1	-1	4500	4521	99	13	5	-4	2063	2018	99	13	9	-1	631	453	99	14	0	2	4022	4115	99	14	4	6	3613	3589	99
13	1	0	-39	278	99	13	5	-3	191	319	99	13	9	0	540	547	99	14	0	4	518	456	99	14	4	7	533	458	99
13	1	1	4295	4225	99	13	5	-2	3371	3339	99	13	9	1	433	720	99	14	0	6	2558	2567	99	14	4	8	1736	1854	99
13	1	2	-326	270	99	13	5	-1	1369	1316	99	13	9	2	3179	3243	99	14	0	8	2872	2983	99	14	4	9	1761	1710	99
13	1	3	286	130	99	13	5	0	263	364	99	13	9	3	244	290	99	14	0	10	1410	1478	99	14	4	10	728	775	99
13	1	4	-286	93	99	13	5	1	1720	1641	99	13	9	4	1913	1937	99	14	0	12	1739	1926	99	14	4	11	651	525	99
13	1	5	3119	3141	99	13	5	2	2140	2187	99	13	9	5	-130	131	99	14	2	-15	624	582	99	14	4	12	1106	1261	99
13	1	6	60	277	99	13	5	3	307	401	99	13	9	6	-212	623	99	14	2	-14	-146	328	99	14	4	13	-302	365	99
13	1	7	2156	2106	99	13	5	4	1876	1838	99	13	9	7	216	83	99	14	2	-13	111	140	99	14	6	-14	288	153	99
13	1	8	681	823	99	13	5	5	2425	2369	99	13	9	8	1394	1392	99	14	2	-12	1925	1877	99	14	6	-13	1173	1143	99
13	1	9	609	687	99	13	5	6	328	340	99	13	9	9	422	386	99	14	2	-11	351	88	99	14	6	-12	1092	1056	99
13	1	10	816	595	99	13	5	7	2022	1955	99	13	9	10	1104	965	99	14	2	-10	2383	2439	99	14	6	-11	622	637	99
13	1	11	1926	1941	99	13	5	8	1275	1284	99	13	9	11	-435	107	99	14	2	-9	1346	1330	99	14	6	-10	1290	1308	99
13	1	12	327	58	99	13	5	9	722	821	99	13	11	-10	1341	1310	99	14	2	-8	619	642	99	14	6	-9	1751	1724	99
13	1	13	904	810	99	13	5	10	1147	1085	99	13	11	-9	266	434	99	14	2	-7	1665	1704	99	14	6	-8	335	287	99
13	1	14	158	201	99	13	5	11	1783	1770	99	13	11	-8	2093	2125	99	14	2	-6	2852	2812	99	14	6	-7	2474	2442	99
13	3	-15	737	733	99	13	5	12	560	341	99	13	11	-7	648	684	99	14	2	-5	1416	1335	99	14	6	-6	2466	2522	99
13	3	-14	1011	904	99	13	5	13	400	418	99	13	11	-6	318	367	99	14	2	-4	4022	3844	99	14	6	-5	573	557	99
13	3	-13	1883	1862	99	13	7	-13	491	439	99	13	11	-5	399	339	99	14	2	-3	1559	1582	99	14	6	-4	2106	2030	99
13	3	-12	272	240	99	13	7	-12	795	826	99	13	11	-4	2034	2055	99	14	2	-2	773	647	99	14	6	-3	4051	3936	99
13	3	-11	2178	2132	99	13	7	-11	1254	1273	99	13	11	-3	650	669	99	14	2	-1	-140	149	99	14	6	-2	693	648	99
13	3	-10	1216	1252	99	13	7	-10	1060	1133	99	13	11	-2	1877	1934	99	14	2	0	3986	3866	99	14	6	-1	1866	1811	99
13	3	-9	-302	499	99	13	7	-9	-438	256	99	13	11	-1	67	304	99	14	2	1	495	391	99	14	6	0	2441	2300	99
13	3	-8	1945	1920	99	13	7	-8	2498	2570	99	13	11	0	335	110	99	14	2	2	3761	3651	99	14	6	1	-181	249	99
13	3	-7	3004	2886	99	13	7	-7	809	860	99	13	11	1	244	601	99	14	2	3	994	996	99	14	6	2	363	322	99
13	3	-6	319	207	99	13	7	-6	251	299	99	13	11	2	1916	1926	99	14	2	4	991	1017	99	14	6	3	2102	2140	99
13	3	-5	3429	3476	99	13	7	-5	1657	1617	99	13	11	3	372	301	99	14	2	5	938	993	99	14	6	4	526	447	99
13	3	-4	249	323	99	13	7	-4	3265	3185	99	13	11	4	1405	1543	99	14	2	6	2509	2474	99	14	6	5	2065	2075	99
13	3	-3	1117	1148	99	13	7	-3	84	141	99	13	11	5	693	708	99	14	2	7	330	606	99	14	6	6	1961	1932	99
13	3	-2	2025	1954	99	13	7	-2	2377	2387	99	13	11	6	326	370	99	14	2	8	1762	1642	99	14	6	7	-547	125	99
13	3	-1	4510	4347	99	13	7	-1	1449	1423	99	13	11	7	-394	126	99	14	2	9	1389	1445	99	14	6	8	1107	1036	99
13	3	0	738	706	99	13	7	0	924	890	99	13	11	8	1684	1701	99	14	2	10	1244	1261	99	14	6	9	2429	2388	99
13	3	1	3513	3475	99	13	7	1	1257	1374	99	13	11	9	298	71	99	14	2	11	675	651	99	14	6	10	314	292	99
13	3	2	1806	1762	99	13	7	2	2837	2921	99	13	13	-7	853	856	99	14	2	12	1458	1494	99	14	6	11	522	433	99
13	3	3	1173	1126	99	13	7	3	919	1005	99	13	13	-6	386	486	99	14	2	13	-394	189	99	14	6	12	1313	1254	99
13	3	4	1296	1247	99	13	7	4	2598	2588	99	13	13	-5	740	676	99	14	4	-14	133	123	99	14	8	-13	1530	1456	99
13	3	5	3060	3010	99	13	7	5	1219	1196	99	13	13	-4	1537	1535	99	14	4	-13	1312	1269	99	14	8	-12	671	743	99
13	3	6	944	916	99	13	7	6	-505	171	99	13	13	-3	221	279	99	14	4	-12	1786	1720	99	14	8	-11	26	60	99
13	3	7	1416	1446	99	13	7	7	312	609	99	13	13	-2	1276	1237	99	14	4	-11	-364	173	99	14	8	-10	156	419	99
13	3	8	1375	1251	99	13	7	8	2009	1917	99	13	13	-1	1004	960	99	14	4	-10	1838	1783	99	14	8	-9	1603	1622	99
13	3	9	-563	158	99	13	7	9	317	244	99	13	13	0	421	117	99	14	4	-9	2269	2172	99	14	8	-8	-312	240	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
14	8	-7	1254	1310	99	14	12	6	333	479	99	15	3	2	938	953	99	15	7	3	297	129	99	15	13	-2	1417	1388	99
14	8	-6	462	211	99	14	12	7	637	717	99	15	3	3	3439	3310	99	15	7	4	2354	2434	99	15	13	-1	341	263	99
14	8	-5	-119	355	99	14	14	-4	882	888	99	15	3	4	2743	2736	99	15	7	5	313	451	99	15	13	0	872	974	99
14	8	-4	244	122	99	14	14	-3	724	722	99	15	3	5	2507	2574	99	15	7	6	755	759	99	15	13	1	856	837	99
14	8	-3	3228	3269	99	14	14	-2	487	315	99	15	3	6	1054	1044	99	15	7	7	1698	1742	99	15	13	2	1016	979	99
14	8	-2	884	860	99	14	14	-1	1293	1278	99	15	3	7	3025	3090	99	15	7	8	741	766	99	15	13	3	746	717	99
14	8	-1	3100	3033	99	14	14	0	1068	1074	99	15	3	8	-468	382	99	15	7	9	252	43	99	15	13	4	1428	1480	99
14	8	0	1673	1735	99	14	14	1	659	629	99	15	3	9	1097	986	99	15	7	10	1983	2078	99	15	13	5	-374	66	99
14	8	1	423	449	99	14	14	2	-416	661	99	15	3	10	1108	1115	99	15	7	11	586	516	99	16	0	-14	743	679	99
14	8	2	921	953	99	14	14	3	1122	1176	99	15	3	11	1130	1169	99	15	9	-12	1441	1407	99	16	0	-12	266	243	99
14	8	3	2755	2807	99	15	1	-15	1835	1743	99	15	3	12	515	441	99	15	9	-11	-356	276	99	16	0	-10	1114	1151	99
14	8	4	636	693	99	15	1	-14	489	402	99	15	3	13	935	952	99	15	9	-10	516	518	99	16	0	-8	1371	1328	99
14	8	5	1818	1906	99	15	1	-13	262	52	99	15	5	-14	1255	1163	99	15	9	-9	462	470	99	16	0	-6	298	411	99
14	8	6	1166	1130	99	15	1	-12	-245	200	99	15	5	-13	441	298	99	15	9	-8	1940	1967	99	16	0	-4	4614	4822	99
14	8	7	568	409	99	15	1	-11	1560	1526	99	15	5	-12	1090	1020	99	15	9	-7	201	215	99	16	0	-2	2413	2593	99
14	8	8	-310	464	99	15	1	-10	246	79	99	15	5	-11	1552	1557	99	15	9	-6	1500	1607	99	16	0	0	2109	2043	99
14	8	9	1903	1852	99	15	1	-9	2359	2386	99	15	5	-10	191	204	99	15	9	-5	877	791	99	16	0	2	2931	2917	99
14	8	10	369	140	99	15	1	-8	289	319	99	15	5	-9	1780	1784	99	15	9	-4	1218	1237	99	16	0	4	357	566	99
14	8	11	978	1003	99	15	1	-7	1098	1092	99	15	5	-8	3014	3046	99	15	9	-3	193	134	99	16	0	6	1258	1255	99
14	10	-11	-247	71	99	15	1	-6	562	661	99	15	5	-7	443	376	99	15	9	-2	2496	2617	99	16	0	8	3452	3399	99
14	10	-10	227	278	99	15	1	-5	4151	4231	99	15	5	-6	882	831	99	15	9	-1	-256	299	99	16	0	10	807	778	99
14	10	-9	1845	1763	99	15	1	-4	245	14	99	15	5	-5	2187	2102	99	15	9	0	2221	2230	99	16	0	12	1663	1617	99
14	10	-8	408	356	99	15	1	-3	3789	3716	99	15	5	-4	737	700	99	15	9	1	1252	1213	99	16	2	-14	1499	1410	99
14	10	-7	1746	1820	99	15	1	-2	407	546	99	15	5	-3	1870	1849	99	15	9	2	843	821	99	16	2	-13	683	703	99
14	10	-6	707	610	99	15	1	-1	1755	1677	99	15	5	-2	3258	3047	99	15	9	3	278	77	99	16	2	-12	265	263	99
14	10	-5	335	304	99	15	1	0	-159	356	99	15	5	-1	1487	1415	99	15	9	4	2079	2181	99	16	2	-11	931	807	99
14	10	-4	-309	494	99	15	1	1	4408	4364	99	15	5	0	1553	1642	99	15	9	5	-162	226	99	16	2	-10	2356	2250	99
14	10	-3	2009	1983	99	15	1	2	806	848	99	15	5	1	2646	2713	99	15	9	6	1155	1134	99	16	2	-9	-502	40	99
14	10	-2	581	489	99	15	1	3	2805	2754	99	15	5	2	-248	197	99	15	9	7	-469	317	99	16	2	-8	1257	1222	99
14	10	-1	2029	2019	99	15	1	4	-208	96	99	15	5	3	351	335	99	15	9	8	1240	1295	99	16	2	-7	952	892	99
14	10	0	220	150	99	15	1	5	1688	1655	99	15	5	4	3769	3730	99	15	9	9	583	615	99	16	2	-6	1586	1594	99
14	10	1	562	446	99	15	1	6	704	610	99	15	5	5	1317	1316	99	15	9	10	1234	1270	99	16	2	-5	981	956	99
14	10	2	-238	278	99	15	1	7	2418	2462	99	15	5	6	740	733	99	15	11	-10	448	368	99	16	2	-4	2927	2896	99
14	10	3	2239	2285	99	15	1	8	121	373	99	15	5	7	1631	1620	99	15	11	-9	-132	409	99	16	2	-3	1340	1172	99
14	10	4	837	827	99	15	1	9	1203	1264	99	15	5	8	587	540	99	15	11	-8	1507	1586	99	16	2	-2	2106	1985	99
14	10	5	1616	1637	99	15	1	10	655	612	99	15	5	9	1006	989	99	15	11	-7	-205	53	99	16	2	-1	1381	1309	99
14	10	6	309	93	99	15	1	11	1381	1402	99	15	5	10	1534	1533	99	15	11	-6	1659	1711	99	16	2	0	1000	975	99
14	10	7	1056	997	99	15	1	12	431	355	99	15	5	11	396	539	99	15	11	-5	288	142	99	16	2	1	124	266	99
14	10	8	-138	467	99	15	1	13	2018	2073	99	15	5	12	295	482	99	15	11	-4	568	518	99	16	2	2	3414	3428	99
14	10	9	1450	1537	99	15	3	-14	1274	1198	99	15	7	-13	272	234	99	15	11	-3	320	338	99	16	2	3	1608	1525	99
14	12	-9	1133	1123	99	15	3	-13	365	336	99	15	7	-12	892	848	99	15	11	-2	1871	1789	99	16	2	4	1483	1385	99
14	12	-8	244	284	99	15	3	-12	852	734	99	15	7	-11	1016	1009	99	15	11	-1	400	390	99	16	2	5	988	900	99
14	12	-7	2194	2293	99	15	3	-11	2126	2099	99	15	7	-10	354	315	99	15	11	0	1386	1442	99	16	2	6	1207	1258	99
14	12	-6	643	525	99	15	3	-10	91	21	99	15	7	-9	556	483	99	15	11	1	328	502	99	16	2	7	1324	1253	99
14	12	-5	-436	22	99	15	3	-9	2380	2393	99	15	7	-8	1775	1794	99	15	11	2	1548	1496	99	16	2	8	2232	2322	99
14	12	-4	545	527	99	15	3	-8	1795	1820	99	15	7	-7	297	316	99	15	11	3	940	939	99	16	2	9	-153	123	99
14	12	-3	1861	1776	99	15	3	-7	1529	1563	99	15	7	-6	1780	1773	99	15	11	4	2271	2333	99	16	2	10	-428	244	99
14	12	-2	-141	203	99	15	3	-6	1558	1564	99	15	7	-5	1547	1641	99	15	11	5	372	304	99	16	2	11	154	584	99
14	12	-1	1604	1590	99	15	3	-5	2416	2409	99	15	7	-4	445	566	99	15	11	6	1251	1143	99	16	2	12	763	832	99
14	12	0	591	446	99	15	3	-4	781	795	99	15	7	-3	356	198	99	15	11	7	299	470	99	16	4	-14	898	914	99
14	12	1	879	834	99	15	3	-3	2151	1973	99	15	7	-2	3427	3508	99	15	11	8	940	963	99	16	4	-13	1280	1126	99
14	12	2	179	619	99	15	3	-2	1767	1753	99	15	7	-1	-351	263	99	15	13	-6	1631	1623	99	16	4	-12	350	233	99
14	12	3	1447	1435	99	15	3	-1	1256	1167	99	15	7	0	2260	2071	99	15	13	-5	1083	997	99	16	4	-11	1211	1140	99
14	12	4	424	87	99	15	3	0	608	695	99	15	7	1	1744	1759	99	15	13	-4	399	519	99	16	4	-10	1778	1774	99
14	12	5	1626	1640	99	15	3	1	3209	3077	99	15	7	2	645	622	99	15	13	-3	675	735	99	16	4	-9	-291	276	99
16	4	-8	1870	1871	99	16	8	-3	1272	1204	99	17	1	-7	1458	1478	99	17	5	-5	206	205	99	17	9	4	996	1099	99
16	4	-7	1252	1204	99	16	8	-2	455	345	99	17	1	-6	-235	240	99	17	5	-4	1564	1481	99	17	9	5	-610	94	99
16	4	-6	300	79	99	16	8	-1	2639	2730	99	17	1	-5	619	666	99	17	5	-3	0	2094	99	17	9	6	2153	2275	99
16	4	-5	1051	986	99	16	8	0	-475	244	99	17	1	-4	763	579	99	17	5	-2	1168	1294	99	17	9	7	859	871	99
16	4	-4	1708	1597	99	16	8	1	1243	1329	99	17	1	-3	4012	4045	99	17	5	-1	604	499	99	17	9	8	-94	153	99
16	4	-3	-395	158	99	16	8	2	276	223	99	17	1	-2	1487	1409	99	17	5	0	1373	1370	99	17	9	9	-753	36	99
16	4	-2	1652	1452	99	16	8	3	1020	1015	99	17	1	-1	1220	1224	99	17	5	1	1699	1639	99	17	11	-9	658	786	99
16	4	-1	1719	1685	99	16	8	4	516	506	99	17	1	0	634	578	99	17	5	2	1766	1725	99	17	11	-8	423	556	99
16	4	0	1949	1903	99	16	8	5	1587	1600	99	17	1	1	366	381	99	17	5	3	1847	1821	99	17	11	-7	-421	168	99
16	4	1	1756	1653	99	16	8	6	1111	1061	99	17	1	2	-333	55	99	17	5	4	1416	1411	99	17	11	-6	1544	1602	99
16	4	2	3002	2894	99	16	8	7	693	856	99	17	1	3	2797	2743	99	17	5	5	1352	1299	99	17	11	-5	-537	112	99
16	4	3	1278	1294	99	16	8	8	357	307	99	17	1	4	-153	296	99	17	5	6	1320	1276	99	17	11	-4	542	722	99
16	4	4	586	585	99	16	8	9	1311	1379	99	17	1	5	369	378	99	17	5	7	542	426	99	17	11	-3	595	268	99
16	4	5	2125	2102	99	16	8	10	-376	218	99	17	1	6	221	192	99	17	5	8	918	915	99	17	11	-2	809	708	99
16	4	6	1358	1358	99	16	10	-10	465	432	99	17	1	7	1431	1398	99	17	5	9	1026	1078	99	17	11	-1	-316	83	99
16	4	7	1078	1116	99	16	10	-9	211	504	99	17	1	8	673	571	99	17	5	10	1093	1111	99	17	11	0	1704	1745	99
16	4	8	1866	1882	99	16	10	-8	-499	429	99	17	1	9	2434	2304	99	17	5	11	344	194	99	17	11	1	391	338	99
16	4	9	1004	1055	99	16	10	-7	1733	1763	99	17	1	10	-304	84	99	17	7	-12	632	603	99	17	11	2	-193	214	99
16	4	10	557	587	99	16	10	-6	594	588	99	17	1	11	-210	145	99	17	7	-11	291	206	99	17	11	3	970	1081	99
16	4	11	714	661	99	16	10	-5	980	932	99	17	1	12	362	115	99	17	7	-10	1142	1145	99	17	11	4	839	816	99
16	4	12	835	832	99	16	10	-4	27	200	99	17	3	-14	62	266	99	17	7	-9	522	519	99	17	11	5	809	817	99
16	6	-13	1081	1036	99	16	10	-3	330	227	99	17	3	-13	1494	1450	99	17	7	-8	596	408	99	17	11	6	1667	1642	99
16	6	-12	-309	222	99	16	10	-2	472	196	99	17	3	-12	731	774	99	17	7	-7	671	585	99	17	11	7	-143	25	99
16	6	-11	931	782	99	16	10	-1	2177	2042	99	17	3	-11	264	184	99	17	7	-6	2594	2460	99	17	13	-5	-901	170	99
16	6	-10	709	729	99	16	10	0	181	315	99	17	3	-10	1625	1635	99	17	7	-5	627	532	99	17	13	-4	422	289	99
16	6	-9	749	667	99	16	10	1	1162	1171	99	17	3	-9	2094	2111	99	17	7	-4	2773	2751	99	17	13	-3	1131	1113	99
16	6	-8	852	809	99	16	10	2	356	374	99	17	3	-8	255	380	99	17	7	-3	253	223	99	17	13	-2	-468	456	99
16	6	-7	1686	1780	99	16	10	3	898	838	99	17	3	-7	1019	1099	99	17	7	-2	1161	1198	99	17	13	-1	258	599	99
16	6	-6	-258	68	99	16	10	4	105	428	99	17	3	-6	686	699	99	17	7	-1	893	988	99	17	13	0	1721	1665	99
16	6	-5	1691	1679	99	16	10	5	2033	2100	99	17	3	-5	561	511	99	17	7	0	1855	1827	99	17	13	1	372	228	99
16	6	-4	1166	1121	99	16	10	6	509	552	99	17	3	-4	109	552	99	17	7	1	1029	961	99	17	13	2	356	141	99
16	6	-3	759	767	99	16	10	7	600	575	99	17	3	-3	1984	1954	99	17	7	2	779	1027	99	17	13	3	363	443	99
16	6	-2	239	319	99	16	10	8	222	460	99	17	3	-2	1301	1193	99	17	7	3	730	729	99	18	0	-14	1054	971	99
16	6	-1	2635	2634	99	16	12	-8	275	492	99	17	3	-1	956	961	99	17	7	4	1042	988	99	18	0	-12	923	984	99
16	6	0	1369	1465	99	16	12	-7	1187	1232	99	17	3	0	719	695	99	17	7	5	-377	344	99	18	0	-10	-176	292	99
16	6	1	1637	1649	99	16	12	-6	-344	46	99	17	3	1	891	870	99	17	7	6	1143	1229	99	18	0	-8	2479	2527	99
16	6	2	1409	1499	99	16	12	-5	769	879	99	17	3	2	1719	1691	99	17	7	7	1028	1095	99	18	0	-6	1622	1733	99
16	6	3	729	870	99	16	12	-4	556	470	99	17	3	3	3369	3374	99	17	7	8	755	740	99	18	0	-4	483	452	99
16	6	4	867	835	99	16	12	-3	704	640	99	17	3	4	1327	1327	99	17	7	9	-327	149	99	18	0	-2	2516	2592	99
16	6	5	1238	1266	99	16	12	-2	686	688	99	17	3	5	485	451	99	17	7	10	1146	1176	99	18	0	0	1979	2066	99
16	6	6	645	614	99	16	12	-1	1943	1892	99	17	3	6	1405	1364	99	17	9	-11	383	159	99	18	0	2	1316	1358	99
16	6	7	1147	1183	99	16	12	0	402	208	99	17	3	7	1594	1603	99	17	9	-10	1155	1116	99	18	0	4	1182	1249	99
16	6	8	1116	1158	99	16	12	1	294	250	99	17	3	8	393	533	99	17	9	-9	447	261	99	18	0	6	770	592	99
16	6	9	920	936	99	16	12	2	516	569	99	17	3	9	1346	1528	99	17	9	-8	599	653	99	18	0	8	997	1055	99
16	6	10	-213	452	99	16	12	3	917	1008	99	17	3	10	699	684	99	17	9	-7	320	167	99	18	0	10	1345	1420	99
16	6	11	1306	1380	99	16	12	4	689	694	99	17	3	11	140	106	99	17	9	-6	1915	1982	99	18	0	12	847	764	99
16	8	-12	-245	26	99	16	12	5	1505	1673	99	17	3	12	437	230	99	17	9	-5	811	829	99	18	2	-14	967	952	99
16	8	-11	886	851	99	16	12	6	-534	203	99	17	5	-13	165	670	99	17	9	-4	827	843	99	18	2	-13	351	182	99
16	8	-10	363	432	99	17	1	-14	572	575	99	17	5	-12	827	766	99	17	9	-3	425	190	99	18	2	-12	1238	1156	99
16	8	-9	-318	360	99	17	1	-13	647	669	99	17	5	-11	-192	198	99	17	9	-2	389	227	99	18	2	-11	312	207	99
16	8	-8	302	366	99	17	1	-12	105	63	99	17	5	-10	1160	1116	99	17	9	-1	426	406	99	18	2	-10	-262	64	99
16	8	-7	1855	1893	99	17	1	-11	-88	124	99	17	5	-9	681	633	99	17	9	0	1855	1865	99	18	2	-9	495	537	99
16	8	-6	355	520	99	17	1	-10	599	531	99	17	5	-8	850	778	99	17	9	1	502	400	99	18	2	-8	2064	2084	99
16	8	-5	1749	1739	99	17	1	-9	2142	2155	99	17	5	-7	2010	2031	99	17	9	2	1601	1733	99	18	2	-7	767	725	99
16	8	-4	668	562	99	17	1	-8	871	814	99	17	5	-6	866	832	99	17	9	3	657	658	99	18	2	-6	1378	1312	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF
18	2	-5	512	461	99	18	6	-1	515	519	99	18	12	-1	852	911	99	19	3	10	-635	305	99	19	9	-3	631	770	99
18	2	-4	307	304	99	18	6	0	425	503	99	18	12	0	-102	513	99	19	3	11	474	891	99	19	9	-2	1139	1163	99
18	2	-3	831	753	99	18	6	1	2030	2022	99	18	12	1	1407	1517	99	19	5	-13	1242	1151	99	19	9	-1	-402	178	99
18	2	-2	2433	2274	99	18	6	2	1423	1365	99	18	12	2	-650	135	99	19	5	-12	-317	248	99	19	9	0	624	522	99
18	2	-1	575	679	99	18	6	3	-386	383	99	18	12	3	348	347	99	19	5	-11	1151	1140	99	19	9	1	273	196	99
18	2	0	1637	1527	99	18	6	4	781	783	99	18	12	4	841	841	99	19	5	-10	1386	1400	99	19	9	2	1497	1526	99
18	2	1	1649	1617	99	18	6	5	748	715	99	19	1	-14	278	257	99	19	5	-9	407	395	99	19	9	3	360	164	99
18	2	2	829	721	99	18	6	6	-554	359	99	19	1	-13	1212	1118	99	19	5	-8	1651	1670	99	19	9	4	848	967	99
18	2	3	632	573	99	18	6	7	1288	1201	99	19	1	-12	-213	132	99	19	5	-7	969	925	99	19	9	5	285	540	99
18	2	4	2301	2311	99	18	6	8	-191	174	99	19	1	-11	1777	1735	99	19	5	-6	-466	175	99	19	9	6	812	752	99
18	2	5	-266	159	99	18	6	9	361	754	99	19	1	-10	148	348	99	19	5	-5	811	775	99	19	9	7	584	591	99
18	2	6	1270	1209	99	18	6	10	-163	411	99	19	1	-9	633	600	99	19	5	-4	2305	2095	99	19	9	8	1625	1733	99
18	2	7	206	272	99	18	8	-11	1251	1175	99	19	1	-8	-373	329	99	19	5	-3	629	625	99	19	11	-7	319	84	99
18	2	8	955	1014	99	18	8	-10	-452	171	99	19	1	-7	2243	2231	99	19	5	-2	572	595	99	19	11	-6	402	325	99
18	2	9	533	332	99	18	8	-9	1079	1143	99	19	1	-6	816	778	99	19	5	-1	2695	2815	99	19	11	-5	381	172	99
18	2	10	1548	1517	99	18	8	-8	734	812	99	19	1	-5	3532	3774	99	19	5	0	477	136	99	19	11	-4	1107	1162	99
18	2	11	413	59	99	18	8	-7	461	477	99	19	1	-4	346	343	99	19	5	1	1098	1077	99	19	11	-3	702	741	99
18	2	12	447	273	99	18	8	-6	-325	202	99	19	1	-3	830	827	99	19	5	2	1536	1572	99	19	11	-2	1368	1470	99
18	4	-13	353	138	99	18	8	-5	1720	1750	99	19	1	-2	-57	175	99	19	5	3	1053	1037	99	19	11	-1	285	187	99
18	4	-12	1450	1380	99	18	8	-4	-493	291	99	19	1	-1	2151	2210	99	19	5	4	1273	1215	99	19	11	0	816	704	99
18	4	-11	1145	1126	99	18	8	-3	1977	1868	99	19	1	0	281	171	99	19	5	5	1470	1515	99	19	11	1	455	634	99
18	4	-10	-226	248	99	18	8	-2	223	104	99	19	1	1	2393	2337	99	19	5	6	481	496	99	19	11	2	1292	1337	99
18	4	-9	1632	1601	99	18	8	-1	310	145	99	19	1	2	1276	1226	99	19	5	7	-597	246	99	19	11	3	503	229	99
18	4	-8	1304	1246	99	18	8	0	652	573	99	19	1	3	1818	1779	99	19	5	8	1750	1717	99	19	11	4	1112	1179	99
18	4	-7	808	760	99	18	8	1	1744	1804	99	19	1	4	443	111	99	19	5	9	-202	167	99	19	11	5	491	307	99
18	4	-6	1293	1336	99	18	8	2	538	335	99	19	1	5	1745	1741	99	19	5	10	-225	123	99	20	0	-12	1701	1584	99
18	4	-5	1037	924	99	18	8	3	187	592	99	19	1	6	544	695	99	19	7	-12	363	449	99	20	0	-10	1811	1806	99
18	4	-4	507	387	99	18	8	4	715	683	99	19	1	7	1255	1355	99	19	7	-11	680	560	99	20	0	-8	389	536	99
18	4	-3	411	386	99	18	8	5	1116	1062	99	19	1	8	415	264	99	19	7	-10	1410	1432	99	20	0	-6	2735	2769	99
18	4	-2	1870	1952	99	18	8	6	-516	178	99	19	1	9	1211	1249	99	19	7	-9	445	309	99	20	0	-4	4033	4339	99
18	4	-1	855	670	99	18	8	7	1514	1531	99	19	1	10	210	352	99	19	7	-8	1247	1260	99	20	0	-2	1025	960	99
18	4	0	1232	1212	99	18	8	8	773	723	99	19	1	11	1153	1113	99	19	7	-7	808	826	99	20	0	0	3199	3206	99
18	4	1	1121	1231	99	18	8	9	387	400	99	19	3	-13	1235	1164	99	19	7	-6	312	114	99	20	0	2	1320	1298	99
18	4	2	758	846	99	18	10	-9	1167	1210	99	19	3	-12	484	523	99	19	7	-5	506	628	99	20	0	4	1683	1588	99
18	4	3	1290	1377	99	18	10	-8	299	416	99	19	3	-11	1838	1833	99	19	7	-4	2758	2728	99	20	0	6	1884	1843	99
18	4	4	1935	1902	99	18	10	-7	588	566	99	19	3	-10	976	925	99	19	7	-3	-261	240	99	20	0	8	1405	1442	99
18	4	5	-461	372	99	18	10	-6	458	322	99	19	3	-9	432	396	99	19	7	-2	2061	1928	99	20	0	10	896	756	99
18	4	6	1088	1084	99	18	10	-5	1408	1433	99	19	3	-8	401	469	99	19	7	-1	1034	1084	99	20	2	-13	399	443	99
18	4	7	1200	1165	99	18	10	-4	233	206	99	19	3	-7	2215	2149	99	19	7	0	-85	398	99	20	2	-12	1760	1653	99
18	4	8	904	850	99	18	10	-3	898	979	99	19	3	-6	604	473	99	19	7	1	362	380	99	20	2	-11	-480	303	99
18	4	9	354	233	99	18	10	-2	218	190	99	19	3	-5	1962	1851	99	19	7	2	2011	2027	99	20	2	-10	2262	2335	99
18	4	10	884	936	99	18	10	-1	565	477	99	19	3	-4	2005	1901	99	19	7	3	-288	123	99	20	2	-9	569	506	99
18	4	11	418	514	99	18	10	0	294	446	99	19	3	-3	997	860	99	19	7	4	-333	353	99	20	2	-8	1330	1332	99
18	6	-13	304	280	99	18	10	1	1355	1415	99	19	3	-2	633	522	99	19	7	5	866	893	99	20	2	-7	248	99	99
18	6	-12	1061	1012	99	18	10	2	-310	180	99	19	3	-1	2043	1941	99	19	7	6	1050	1022	99	20	2	-6	2497	2553	99
18	6	-11	861	836	99	18	10	3	1050	1177	99	19	3	0	-410	226	99	19	7	7	-696	82	99	20	2	-5	272	297	99
18	6	-10	254	266	99	18	10	4	306	652	99	19	3	1	1592	1662	99	19	7	8	1373	1503	99	20	2	-4	1375	1437	99
18	6	-9	947	990	99	18	10	5	840	692	99	19	3	2	2236	2196	99	19	7	9	227	434	99	20	2	-3	1718	1702	99
18	6	-8	-520	289	99	18	10	6	396	466	99	19	3	3	188	225	99	19	9	-10	1401	1435	99	20	2	-2	639	667	99
18	6	-7	319	460	99	18	10	7	1274	1376	99	19	3	4	695	721	99	19	9	-9	237	156	99	20	2	-1	524	574	99
18	6	-6	918	807	99	18	12	-6	234	94	99	19	3	5	2198	2177	99	19	9	-8	1373	1442	99	20	2	0	1955	1951	99
18	6	-5	1984	1864	99	18	12	-5	804	778	99	19	3	6	588	586	99	19	9	-7	834	804	99	20	2	1	644	540	99
18	6	-4	-547	320	99	18	12	-4	272	101	99	19	3	7	1276	1197	99	19	9	-6	380	188	99	20	2	2	2275	2149	99
18	6	-3	2141	2139	99	18	12	-3	669	824	99	19	3	8	1028	946	99	19	9	-5	364	92	99	20	2	3	1059	947	99
18	6	-2	1526	1381	99	18	12	-2	621	665	99	19	3	9	1216	1299	99	19	9	-4	1876	1913	99	20	2	4	1579	1557	99
20	2	5	-196	400	99	20	8	-8	-430	137	99	21	1	3	321	419	99	21	7	-10	795	798	99	22	0	8	1729	1798	99
20	2	6	2554	2627	99	20	8	-7	1543	1618	99	21	1	4	81	149	99	21	7	-9	631	687	99	22	0	10	-121	324	99
20	2	7	403	552	99	20	8	-6	1186	1258	99	21	1	5	1661	1572	99	21	7	-8	1710	1643	99	22	2	-12	169	573	99
20	2	8	1058	1090	99	20	8	-5	389	214	99	21	1	6	438	73	99	21	7	-7	676	591	99	22	2	-11	-100	316	99
20	2	9	132	310	99	20	8	-4	343	53	99	21	1	7	3005	2988	99	21	7	-6	1675	1739	99	22	2	-10	1905	1906	99
20	2	10	1040	1034	99	20	8	-3	1745	1874	99	21	1	8	401	481	99	21	7	-5	1012	1026	99	22	2	-9	777	771	99
20	2	11	262	278	99	20	8	-2	-203	159	99	21	1	9	516	548	99	21	7	-4	398	244	99	22	2	-8	1267	1206	99
20	4	-13	886	884	99	20	8	-1	1256	1327	99	21	1	10	188	132	99	21	7	-3	-59	570	99	22	2	-7	471	218	99
20	4	-12	1219	1183	99	20	8	0	269	582	99	21	3	-13	300	170	99	21	7	-2	2273	2319	99	22	2	-6	874	801	99
20	4	-11	111	532	99	20	8	1	742	691	99	21	3	-12	939	907	99	21	7	-1	552	495	99	22	2	-5	226	300	99
20	4	-10	1463	1450	99	20	8	2	-443	87	99	21	3	-11	1855	1813	99	21	7	0	912	1082	99	22	2	-4	3021	3020	99
20	4	-9	1779	1807	99	20	8	3	1654	1742	99	21	3	-10	385	195	99	21	7	1	1078	1005	99	22	2	-3	871	847	99
20	4	-8	499	517	99	20	8	4	255	88	99	21	3	-9	1553	1614	99	21	7	2	1781	1840	99	22	2	-2	214	383	99
20	4	-7	660	573	99	20	8	5	370	507	99	21	3	-8	896	823	99	21	7	3	427	765	99	22	2	-1	1373	1275	99
20	4	-6	2036	1960	99	20	8	6	724	878	99	21	3	-7	1216	1255	99	21	7	4	1602	1737	99	22	2	0	1777	1654	99
20	4	-5	712	652	99	20	8	7	749	723	99	21	3	-6	463	540	99	21	7	5	805	679	99	22	2	1	1513	1493	99
20	4	-4	1199	996	99	20	8	8	260	108	99	21	3	-5	2790	2924	99	21	7	6	291	716	99	22	2	2	2551	2498	99
20	4	-3	1721	1686	99	20	10	-8	-203	381	99	21	3	-4	2261	2052	99	21	7	7	510	726	99	22	2	3	821	905	99
20	4	-2	1475	1299	99	20	10	-7	1202	1193	99	21	3	-3	1466	1443	99	21	7	8	910	748	99	22	2	4	-334	148	99
20	4	-1	1122	1094	99	20	10	-6	209	299	99	21	3	-2	1721	1762	99	21	9	-9	704	604	99	22	2	5	699	529	99
20	4	0	2866	2717	99	20	10	-5	858	883	99	21	3	-1	1453	1452	99	21	9	-8	2089	2094	99	22	2	6	1504	1436	99
20	4	1	322	256	99	20	10	-4	409	323	99	21	3	0	1042	1127	99	21	9	-7	329	339	99	22	2	7	-509	313	99
20	4	2	1658	1624	99	20	10	-3	1506	1459	99	21	3	1	2668	2699	99	21	9	-6	1499	1550	99	22	2	8	2299	2297	99
20	4	3	2398	2397	99	20	10	-2	379	508	99	21	3	2	670	624	99	21	9	-5	-672	442	99	22	2	9	853	748	99
20	4	4	853	810	99	20	10	-1	1157	1235	99	21	3	3	1676	1716	99	21	9	-4	1142	946	99	22	2	10	-324	45	99
20	4	5	956	928	99	20	10	0	247	31	99	21	3	4	960	871	99	21	9	-3	-164	106	99	22	4	-12	359	188	99
20	4	6	991	1001	99	20	10	1	824	664	99	21	3	5	1200	1095	99	21	9	-2	1620	1646	99	22	4	-11	819	773	99
20	4	7	454	612	99	20	10	2	676	724	99	21	3	6	1035	1064	99	21	9	-1	428	544	99	22	4	-10	1280	1299	99
20	4	8	665	412	99	20	10	3	1696	1805	99	21	3	7	2050	2069	99	21	9	0	-427	744	99	22	4	-9	791	758	99
20	4	9	1038	1078	99	20	10	4	369	256	99	21	3	8	984	940	99	21	9	1	-153	283	99	22	4	-8	-436	484	99
20	4	10	454	605	99	20	10	5	1105	1139	99	21	3	9	253	325	99	21	9	2	835	783	99	22	4	-7	1487	1473	99
20	6	-12	989	917	99	20	10	6	-293	166	99	21	3	10	340	475	99	21	9	3	-520	71	99	22	4	-6	1714	1582	99
20	6	-11	386	326	99	20	12	-4	515	427	99	21	5	-12	884	860	99	21	9	4	1963	2121	99	22	4	-5	738	839	99
20	6	-10	562	639	99	20	12	-3	1510	1586	99	21	5	-11	825	763	99	21	9	5	703	706	99	22	4	-4	2572	2587	99
20	6	-9	1957	1945	99	20	12	-2	-184	257	99	21	5	-10	639	635	99	21	9	6	1014	1104	99	22	4	-3	2251	2154	99
20	6	-8	332	351	99	20	12	-1	1321	1320	99	21	5	-9	566	502	99	21	11	-6	761	860	99	22	4	-2	775	732	99
20	6	-7	1282	1228	99	20	12	0	451	407	99	21	5	-8	1665	1686	99	21	11	-5	732	717	99	22	4	-1	993	963	99
20	6	-6	860	935	99	20	12	1	1027	1024	99	21	5	-7	580	400	99	21	11	-4	909	855	99	22	4	0	1378	1412	99
20	6	-5	509	125	99	20	12	2	351	268	99	21	5	-6	1461	1373	99	21	11	-3	-533	98	99	22	4	1	506	643	99
20	6	-4	775	960	99	21	1	-13	755	726	99	21	5	-5	1798	1664	99	21	11	-2	2418	2574	99	22	4	2	2176	2123	99
20	6	-3	2332	2324	99	21	1	-12	411	106	99	21	5	-4	-175	456	99	21	11	-1	148	61	99	22	4	3	-402	489	99
20	6	-2	-394	380	99	21	1	-11	2452	2414	99	21	5	-3	1456	1497	99	21	11	0	806	898	99	22	4	4	127	580	99
20	6	-1	1224	1229	99	21	1	-10	327	272	99	21	5	-2	2252	2077	99	21	11	1	-270	132	99	22	4	5	-374	520	99
20	6	0	2058	2111	99	21	1	-9	1286	1389	99	21	5	-1	1675	1621	99	21	11	2	883	787	99	22	4	6	1092	931	99
20	6	1	714	573	99	21	1	-8	442	425	99	21	5	0	1561	1436	99	21	11	3	381	468	99	22	4	7	1006	922	99
20	6	2	1098	860	99	21	1	-7	383	407	99	21	5	1	2263	2302	99	22	0	-12	1081	921	99	22	4	8	1364	1370	99
20	6	3	2006	2048	99	21	1	-6	573	497	99	21	5	2	1057	995	99	22	0	-10	3009	3081	99	22	4	9	1081	1107	99
20	6	4	550	300	99	21	1	-5	3179	3262	99	21	5	3	787	759	99	22	0	-8	681	782	99	22	6	-11	889	874	99
20	6	5	-321	552	99	21	1	-4	-465	285	99	21	5	4	1546	1696	99	22	0	-6	1666	1610	99	22	6	-10	790	790	99
20	6	6	1045	999	99	21	1	-3	1862	1881	99	21	5	5	788	965	99	22	0	-4	2159	2311	99	22	6	-9	952	959	99
20	6	7	323	565	99	21	1	-2	967	922	99	21	5	6	961	1023	99	22	0	-2	439	342	99	22	6	-8	325	177	99
20	6	8	-472	248	99	21	1	-1	1360	1349	99	21	5	7	869	791	99	22	0	0	1229	1348	99	22	6	-7	1252	1299	99
20	6	9	1541	1593	99	21	1	0	971	957	99	21	5	8	881	985	99	22	0	2	3801	3862	99	22	6	-6	1231	1277	99
20	8	-10	-252	343	99	21	1	1	3627	3511	99	21	5	9	-285	228	99	22	0	4	-366	211	99	22	6	-5	1124	1179	99
20	8	-9	2161	2203	99	21	1	2	795	752	99	21	7	-11	590	636	99	22	0	6	2853	1837	99	22	6	-4	1464	1372	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
22	6	-3	1083	981	99	23	1	2	346	471	99	23	7	-4	668	647	99	24	4	-10	674	618	99	24	10	0	475	376	99
22	6	-2	1140	1111	99	23	1	3	2476	2409	99	23	7	-3	886	992	99	24	4	-9	252	439	99	24	10	1	686	777	99
22	6	-1	1394	1419	99	23	1	4	289	243	99	23	7	-2	1164	1104	99	24	4	-8	1121	1118	99	25	1	-11	1534	1606	99
22	6	0	973	965	99	23	1	5	-481	142	99	23	7	-1	486	60	99	24	4	-7	358	547	99	25	1	-10	407	564	99
22	6	1	1066	1205	99	23	1	6	-237	246	99	23	7	0	2089	2023	99	24	4	-6	423	299	99	25	1	-9	780	620	99
22	6	2	1446	1436	99	23	1	7	1709	1641	99	23	7	1	289	624	99	24	4	-5	2221	2152	99	25	1	-8	66	386	99
22	6	3	2323	2227	99	23	1	8	-136	202	99	23	7	2	-785	245	99	24	4	-4	1306	1256	99	25	1	-7	564	968	99
22	6	4	129	159	99	23	1	9	985	1025	99	23	7	3	674	760	99	24	4	-3	-562	106	99	25	1	-6	402	344	99
22	6	5	1625	1620	99	23	1	-12	-87	253	99	23	7	4	1684	1686	99	24	4	-2	1420	1264	99	25	1	-5	829	936	99
22	6	6	1076	1196	99	23	1	-11	270	379	99	23	7	5	523	287	99	24	4	-1	188	254	99	25	1	-4	958	791	99
22	6	7	422	537	99	23	1	-10	-407	285	99	23	7	6	1660	1780	99	24	4	0	767	215	99	25	1	-3	1108	1212	99
22	6	8	535	462	99	23	1	-9	1353	1376	99	23	7	7	503	658	99	24	4	1	1129	1069	99	25	1	-2	-411	372	99
22	8	-9	994	938	99	23	1	-8	911	892	99	23	9	-7	357	154	99	24	4	2	967	848	99	25	1	-1	1477	1583	99
22	8	-8	807	789	99	23	1	-7	600	675	99	23	9	-6	1415	1426	99	24	4	3	-166	129	99	25	1	0	-382	451	99
22	8	-7	2091	2037	99	23	1	-6	658	824	99	23	9	-5	458	160	99	24	4	4	822	868	99	25	1	1	991	1091	99
22	8	-6	746	824	99	23	1	-5	1955	1747	99	23	9	-4	549	674	99	24	4	5	561	297	99	25	1	2	882	812	99
22	8	-5	1207	1204	99	23	1	-4	464	406	99	23	9	-3	395	317	99	24	4	6	194	411	99	25	1	3	1491	1485	99
22	8	-4	-301	109	99	23	1	-3	2414	2343	99	23	9	-2	1193	1270	99	24	4	7	1241	1283	99	25	1	4	171	12	99
22	8	-3	1329	1261	99	23	1	-2	448	608	99	23	9	-1	902	806	99	24	4	8	940	981	99	25	1	5	1517	1461	99
22	8	-2	-342	55	99	23	1	-1	226	324	99	23	9	0	1635	1649	99	24	6	-10	445	481	99	25	1	6	443	577	99
22	8	-1	1755	1681	99	23	1	0	1097	1101	99	23	9	1	625	421	99	24	6	-9	415	436	99	25	1	7	-184	496	99
22	8	0	1079	1010	99	23	1	1	1802	1671	99	23	9	2	267	324	99	24	6	-8	746	652	99	25	1	8	-572	288	99
22	8	1	705	747	99	23	1	2	621	432	99	23	9	3	-391	115	99	24	6	-7	42	174	99	25	3	-10	863	880	99
22	8	2	265	210	99	23	1	3	1535	1537	99	23	9	4	1275	1374	99	24	6	-6	-642	146	99	25	3	-9	-329	260	99
22	8	3	1578	1651	99	23	1	4	633	498	99	24	0	-10	874	1009	99	24	6	-5	1260	1269	99	25	3	-8	-446	166	99
22	8	4	401	395	99	23	1	5	627	570	99	24	0	-8	491	471	99	24	6	-4	397	341	99	25	3	-7	1334	1413	99
22	8	5	1795	1994	99	23	1	6	757	642	99	24	0	-6	1054	1070	99	24	6	-3	394	131	99	25	3	-6	316	155	99
22	8	6	907	876	99	23	1	7	1623	1547	99	24	0	-4	1162	914	99	24	6	-2	1269	1263	99	25	3	-5	1037	928	99
22	8	7	736	796	99	23	1	8	493	199	99	24	0	-2	1433	1425	99	24	6	-1	1068	997	99	25	3	-4	1573	1581	99
22	10	-7	1782	1882	99	23	1	9	1696	1564	99	24	0	0	684	655	99	24	6	0	413	243	99	25	3	-3	811	835	99
22	10	-6	-421	38	99	23	5	-11	601	564	99	24	0	2	3626	3302	99	24	6	1	1711	1751	99	25	3	-2	145	416	99
22	10	-5	546	405	99	23	5	-10	358	486	99	24	0	4	1426	1414	99	24	6	2	368	691	99	25	3	-1	1486	1475	99
22	10	-4	481	712	99	23	5	-9	842	898	99	24	0	6	283	434	99	24	6	3	451	330	99	25	3	0	-401	123	99
22	10	-3	1215	1075	99	23	5	-8	871	643	99	24	0	8	1228	1150	99	24	6	4	791	595	99	25	3	1	-125	101	99
22	10	-2	388	125	99	23	5	-7	309	139	99	24	2	-11	346	294	99	24	6	5	860	922	99	25	3	2	572	279	99
22	10	-1	1764	1900	99	23	5	-6	1840	1711	99	24	2	-10	233	397	99	24	6	6	1000	946	99	25	3	3	727	797	99
22	10	0	616	648	99	23	5	-5	953	1024	99	24	2	-9	759	664	99	24	6	7	1150	1129	99	25	3	4	664	283	99
22	10	1	-491	286	99	23	5	-4	561	689	99	24	2	-8	1600	1632	99	24	8	-8	764	701	99	25	3	5	646	876	99
22	10	2	445	340	99	23	5	-3	1780	1790	99	24	2	-7	88	226	99	24	8	-7	671	523	99	25	3	6	442	285	99
22	10	3	659	802	99	23	5	-2	1434	1271	99	24	2	-6	921	1077	99	24	8	-6	468	118	99	25	3	7	-528	67	99
22	10	4	-274	306	99	23	5	-1	1064	1081	99	24	2	-5	981	1029	99	24	8	-5	925	979	99	25	5	-9	899	829	99
23	1	-12	-712	70	99	23	5	0	1489	1519	99	24	2	-4	1961	1990	99	24	8	-4	436	155	99	25	5	-8	486	584	99
23	1	-11	886	834	99	23	5	1	1007	1014	99	24	2	-3	411	413	99	24	8	-3	210	359	99	25	5	-7	1040	1077	99
23	1	-10	-241	225	99	23	5	2	484	143	99	24	2	-2	1042	1088	99	24	8	-2	519	344	99	25	5	-6	-338	504	99
23	1	-9	1833	1943	99	23	5	3	1162	1154	99	24	2	-1	330	448	99	24	8	-1	1181	1152	99	25	5	-5	-507	434	99
23	1	-8	651	574	99	23	5	4	1009	771	99	24	2	0	-348	331	99	24	8	0	1267	1075	99	25	5	-4	1179	1180	99
23	1	-7	-190	672	99	23	5	5	307	561	99	24	2	1	769	866	99	24	8	1	1542	1614	99	25	5	-3	402	215	99
23	1	-6	178	67	99	23	5	6	1540	1558	99	24	2	2	1235	1202	99	24	8	2	222	85	99	25	5	-2	599	612	99
23	1	-5	-89	555	99	23	5	7	1318	1285	99	24	2	3	253	546	99	24	8	3	280	93	99	25	5	-1	829	836	99
23	1	-4	802	781	99	23	5	8	-203	85	99	24	2	4	1135	1095	99	24	8	4	-561	291	99	25	5	0	823	722	99
23	1	-3	1820	1866	99	23	7	-9	509	536	99	24	2	5	289	105	99	24	8	5	1044	1040	99	25	5	1	589	567	99
23	1	-2	369	232	99	23	7	-8	732	696	99	24	2	6	545	490	99	24	10	-4	497	744	99	25	5	2	1289	1267	99
23	1	-1	215	369	99	23	7	-7	561	119	99	24	2	7	-409	348	99	24	10	-3	496	362	99	25	5	3	-248	521	99
23	1	0	885	865	99	23	7	-6	961	986	99	24	2	8	1346	1395	99	24	10	-2	305	61	99	25	5	4	373	294	99
23	1	1	2308	2225	99	23	7	-5	513	641	99	24	4	-11	572	612	99	24	10	-1	1292	1262	99	25	5	5	870	720	99
25	5	6	864	733	99	26	4	-4	1104	1236	99	27	3	-3	318	811	99	28	4	-4	1569	1528	99	30	2	-1	353	352	99
25	7	-8	627	426	99	26	4	-3	1067	1182	99	27	3	-2	533	229	99	28	4	-3	0	587	99	30	2	0	165	412	99
25	7	-7	-273	616	99	26	4	-2	536	461	99	27	3	-1	1081	1054	99	28	4	-2	-411	301	99	30	2	1	642	546	99
25	7	-6	497	266	99	26	4	-1	351	453	99	27	3	0	462	557	99	28	4	-1	1110	1069	99	30	2	2	1440	1435	99
25	7	-5	-390	451	99	26	4	0	928	911	99	27	3	1	1342	1422	99	28	4	0	1037	995	99	30	4	-3	-794	55	99
25	7	-4	246	656	99	26	4	1	1103	1130	99	27	3	2	832	610	99	28	4	1	-654	490	99	30	4	-2	683	714	99
25	7	-3	-477	352	99	26	4	2	-589	62	99	27	3	3	-370	147	99	28	4	2	1059	1189	99	30	4	-1	1059	983	99
25	7	-2	-400	258	99	26	4	3	-360	244	99	27	3	4	533	429	99	28	4	3	711	780	99	30	4	0	780	627	99
25	7	-1	-192	511	99	26	4	4	926	917	99	27	3	5	425	640	99	28	4	4	-411	27	99	31	1	-3	-297	772	99
25	7	0	1020	862	99	26	4	5	-676	408	99	27	3	6	-583	298	99	28	6	-5	411	71	99	31	1	-2	392	190	99
25	7	1	121	144	99	26	4	6	365	755	99	27	5	-8	770	772	99	28	6	-4	752	975	99	31	1	-1	951	1155	99
25	7	2	1795	1873	99	26	6	-8	678	677	99	27	5	-7	782	836	99	28	6	-3	1378	1395	99						
25	7	3	271	486	99	26	6	-7	615	697	99	27	5	-6	890	1135	99	28	6	-2	366	63	99						
25	7	4	-201	358	99	26	6	-6	996	865	99	27	5	-5	1318	1223	99	28	6	-1	1580	1637	99						
25	7	5	379	285	99	26	6	-5	718	546	99	27	5	-4	1188	1101	99	28	6	0	840	772	99						
25	9	-5	137	165	99	26	6	-4	691	797	99	27	5	-3	1167	1124	99	28	6	1	-445	495	99						
25	9	-4	1373	1467	99	26	6	-3	857	988	99	27	5	-2	1318	1371	99	28	6	2	1090	1255	99						
25	9	-3	-100	35	99	26	6	-2	-272	163	99	27	5	-1	88	337	99	29	1	-7	543	169	99						
25	9	-2	-531	148	99	26	6	-1	964	879	99	27	5	0	52	487	99	29	1	-6	206	431	99						
25	9	-1	331	184	99	26	6	0	394	329	99	27	5	1	1326	1254	99	29	1	-5	2132	2044	99						
25	9	0	1003	1002	99	26	6	1	904	830	99	27	5	2	1162	1161	99	29	1	-4	-517	166	99						
25	9	1	140	392	99	26	6	2	649	564	99	27	5	3	-204	232	99	29	1	-3	1388	1593	99						
25	9	2	617	915	99	26	6	3	1546	1447	99	27	5	4	480	655	99	29	1	-2	-876	39	99						
26	0	-10	1084	1137	99	26	6	4	730	713	99	27	7	-5	685	599	99	29	1	-1	345	581	99						
26	0	-8	356	324	99	26	6	5	393	438	99	27	7	-4	1036	965	99	29	1	0	376	389	99						
26	0	-6	1599	1728	99	26	8	-5	646	674	99	27	7	-3	-208	437	99	29	1	1	1712	1669	99						
26	0	-4	315	393	99	26	8	-4	-536	340	99	27	7	-2	1271	1271	99	29	1	2	137	210	99						
26	0	-2	704	752	99	26	8	-3	1264	1279	99	27	7	-1	750	656	99	29	1	3	1031	1121	99						
26	0	0	1949	1978	99	26	8	-2	659	568	99	27	7	0	1052	1196	99	29	1	4	-797	165	99						
26	0	2	1013	831	99	26	8	-1	-532	330	99	27	7	1	-407	320	99	29	3	-6	-393	813	99						
26	0	4	627	621	99	26	8	0	-182	111	99	27	7	2	1013	945	99	29	3	-5	1290	1280	99						
26	0	6	1870	1970	99	26	8	1	949	838	99	28	0	-8	443	266	99	29	3	-4	212	420	99						
26	2	-10	97	688	99	26	8	2	-716	125	99	28	0	-6	1638	1692	99	29	3	-3	1492	1324	99						
26	2	-9	747	877	99	27	1	-9	259	488	99	28	0	-4	1735	1713	99	29	3	-2	-503	170	99						
26	2	-8	612	246	99	27	1	-8	435	217	99	28	0	-2	882	828	99	29	3	-1	397	254	99						
26	2	-7	656	576	99	27	1	-7	658	728	99	28	0	0	1563	1323	99	29	3	0	1129	1137	99						
26	2	-6	1961	1896	99	27	1	-6	427	84	99	28	0	2	2218	2259	99	29	3	1	2402	2148	99						
26	2	-5	450	570	99	27	1	-5	1792	1941	99	28	0	4	-130	469	99	29	3	2	-605	502	99						
26	2	-4	887	866	99	27	1	-4	210	102	99	28	2	-8	352	612	99	29	3	3	840	915	99						
26	2	-3	225	282	99	27	1	-3	-386	260	99	28	2	-7	-432	769	99	29	5	-5	937	795	99						
26	2	-2	1428	1286	99	27	1	-2	296	147	99	28	2	-6	1370	1393	99	29	5	-4	-277	450	99						
26	2	-1	907	876	99	27	1	-1	1089	1091	99	28	2	-5	384	412	99	29	5	-3	-140	421	99						
26	2	0	2528	2412	99	27	1	0	-645	409	99	28	2	-4	2050	2174	99	29	5	-2	991	654	99						
26	2	1	-206	290	99	27	1	1	2650	2692	99	28	2	-3	-426	214	99	29	5	-1	778	557	99						
26	2	2	-488	204	99	27	1	2	672	791	99	28	2	-2	264	177	99	29	5	0	1778	1637	99						
26	2	3	-395	208	99	27	1	3	654	555	99	28	2	-1	-578	151	99	29	5	1	1003	976	99						
26	2	4	715	724	99	27	1	4	-513	368	99	28	2	0	1954	2047	99	30	0	-6	-869	168	99						
26	2	5	264	45	99	27	1	5	951	785	99	28	2	1	-577	141	99	30	0	-4	2347	2316	99						
26	2	6	954	1103	99	27	1	6	560	236	99	28	2	2	1493	1426	99	30	0	-2	1250	1335	99						
26	2	7	1127	1198	99	27	3	-9	942	1053	99	28	2	3	529	547	99	30	0	0	-462	307	99						
26	4	-9	120	604	99	27	3	-8	983	1178	99	28	2	4	444	251	99	30	0	2	981	1045	99						
26	4	-8	984	779	99	27	3	-7	712	558	99	28	2	5	619	858	99	30	2	-5	513	393	99						
26	4	-7	889	941	99	27	3	-6	1115	1110	99	28	4	-7	1136	1073	99	30	2	-4	1567	1511	99						
26	4	-6	1491	1562	99	27	3	-5	2376	2386	99	28	4	-6	1025	946	99	30	2	-3	-292	660	99						
26	4	-5	567	841	99	27	3	-4	695	558	99	28	4	-5	327	674	99	30	2	-2	1173	1159	99						

APPENDIX 7.VII

$[Hg(S_2CN(iPr)Cy)_2]$

Table 7.VII.1: Crystallographic Parameters for $[Hg(S_2CN(CH(CH_3)_2)(CH(CH_2)_5))_2]$

Formula	$C_{20}H_{26}HgN_2S_4$
Formula weight	633.35
Crystal morphology / colour	block / pale yellow
Crystal dimensions (mm)	0.07 x 0.21 x 0.26
Crystal system	triclinic
Space group	$P\bar{1}$ (#2)
a (Å)	11.534(6)
b (Å)	12.291(9)
c (Å)	9.559(4)
α (°)	91.06(5)
β (°)	110.18(4)
γ (°)	72.00(5)
V (Å^3)	1203(1)
Z	2
$\rho_{calc.}$ (g cm^{-3})	1.747
$F(000)$	628
Temperature (°K)	200
μ (cm^{-1})	67.33
θ limits, cell (°)	20.3 – 23.1
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 15, -15 – 15, -12 – 12
Range of transmission factors	0.972 – 1
Scan technique	ω:2θ
No. of data measured	5834
No. of unique data	5557
R_{amal}	0.076
No. of parameters	239
R ($I \geq 0\sigma(I)$)	0.087
R_w ($I \geq 0\sigma(I)$)	0.103
R ($I \geq 3\sigma(I)$)	0.043
R_w ($I \geq 3\sigma(I)$)	0.046
Maximum and minimum residual electron density (e Å^{-3})	3.19, -4.43

Table 7.VII.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Hg(S_2CN(CH(CH_3)_2)(CH(CH_2)_5))_2]$

Atom	*x*	*y*	*z*
Hg	0.15027(3)	0.01335(3)	0.14234(3)
S(1)	0.2102(2)	0.1382(2)	0.0081(2)
S(2)	0.3826(2)	0.0370(2)	0.3161(2)
S(3)	0.0413(2)	-0.0488(1)	0.2916(2)
S(4)	0.1722(2)	-0.2083(1)	0.1180(2)
N(1)	0.4410(5)	0.1681(4)	0.1477(5)
N(2)	0.0962(5)	-0.2756(4)	0.3283(5)
C(1)	0.3562(6)	0.1193(5)	0.1594(7)
C(2)	0.5686(6)	0.1577(6)	0.2694(7)
C(3)	0.5512(7)	0.2127(6)	0.4091(8)
C(4)	0.6643(7)	0.0376(7)	0.3059(8)
C(5)	0.4134(6)	0.2380(5)	0.0089(6)
C(6)	0.5135(7)	0.1914(6)	-0.0643(7)
C(7)	0.4699(7)	0.2631(7)	-0.2152(8)
C(8)	0.4506(8)	0.3879(7)	-0.1931(9)
C(9)	0.3535(8)	0.4352(7)	-0.1153(9)
C(10)	0.3932(7)	0.3641(6)	0.0337(8)
C(11)	0.1037(6)	-0.1900(5)	0.2528(6)
C(12)	0.1467(7)	-0.3987(6)	0.3047(7)
C(13)	0.2948(8)	-0.4420(6)	0.3502(9)
C(14)	0.0760(8)	-0.4268(6)	0.1476(8)
C(15)	0.0411(6)	-0.2537(5)	0.4506(7)
C(16)	0.1451(7)	-0.3077(7)	0.6022(7)
C(17)	0.0875(8)	-0.2769(6)	0.7249(8)

Table 7.VII.2: Cont.

Atom	*x*	*y*	*z*
C(18)	-0.0320(9)	-0.3138(7)	0.6943(9)
C(19)	-0.1331(8)	-0.2618(9)	0.5437(10)
C(20)	-0.0782(7)	-0.2911(8)	0.4178(8)

Table 7.VII.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms i [$Hg(S_2CN(CH(CH_3)_2)(CH(CH_2)_5))_2$]

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
S(1)	0.0199(8)	0.035(1)	0.0238(8)	-0.0039(8)	0.0002(7)	0.0033(7)
S(2)	0.0320(9)	0.034(1)	0.0205(8)	-0.0067(8)	0.0042(7)	-0.0008(7)
S(3)	0.0290(9)	0.0174(9)	0.0335(9)	0.0023(7)	0.0178(7)	-0.0070(7)
S(4)	0.0378(10)	0.0272(9)	0.0278(9)	-0.0046(8)	0.0218(8)	-0.0134(7)
N(1)	0.017(3)	0.020(3)	0.018(3)	0.004(2)	0.005(2)	-0.004(2)
N(2)	0.025(3)	0.015(3)	0.020(3)	0.004(2)	0.011(2)	-0.007(2)
C(1)	0.023(3)	0.014(3)	0.024(3)	0.002(3)	0.009(3)	-0.013(2)
C(2)	0.018(3)	0.034(4)	0.028(3)	-0.003(3)	0.007(3)	-0.010(3)
C(3)	0.041(4)	0.034(4)	0.025(4)	-0.010(4)	0.006(3)	-0.017(3)
C(4)	0.019(4)	0.046(5)	0.034(4)	0.008(3)	0.002(3)	-0.009(3)
C(5)	0.020(3)	0.025(4)	0.017(3)	-0.002(3)	0.004(2)	-0.005(2)
C(6)	0.031(4)	0.024(4)	0.029(4)	0.004(3)	0.016(3)	-0.008(3)
C(7)	0.037(4)	0.056(5)	0.030(4)	-0.011(4)	0.018(3)	-0.007(3)
C(8)	0.050(5)	0.046(5)	0.041(4)	-0.008(4)	0.020(4)	0.007(4)
C(9)	0.049(5)	0.030(4)	0.047(5)	-0.002(4)	0.017(4)	0.004(3)
C(10)	0.040(4)	0.023(4)	0.036(4)	0.004(3)	0.019(3)	-0.006(3)
C(11)	0.018(3)	0.021(3)	0.016(3)	0.003(3)	0.007(2)	-0.009(2)
C(12)	0.036(4)	0.018(4)	0.030(4)	-0.002(3)	0.015(3)	-0.010(3)
C(13)	0.043(5)	0.025(4)	0.045(5)	0.013(4)	0.019(4)	-0.005(3)
C(14)	0.051(5)	0.028(4)	0.031(4)	-0.009(4)	0.016(3)	-0.016(3)
C(15)	0.030(4)	0.016(3)	0.024(3)	0.010(3)	0.015(3)	-0.005(3)
C(16)	0.031(4)	0.043(5)	0.020(3)	-0.003(3)	0.009(3)	-0.011(3)
C(17)	0.058(5)	0.024(4)	0.028(4)	0.004(4)	0.020(4)	-0.013(3)
C(18)	0.074(6)	0.040(5)	0.039(4)	-0.003(4)	0.043(4)	-0.003(4)

Table 7.VII.3: Cont.

Atom	$U11$	$U22$	$U33$	$U12$	$U13$	$U23$
C(19)	0.042(5)	0.088(8)	0.046(5)	-0.006(5)	0.026(4)	0.006(5)
C(20)	0.029(4)	0.065(6)	0.029(4)	-0.004(4)	0.008(3)	-0.002(4)

Table 7.VII.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Hg(S_2CN(CH(CH_3)_2)(CH(CH_2)_5))_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.6080	0.2030	0.2300	2.6846
H(3a)	0.6359	0.2083	0.4819	3.3232
H(3b)	0.4971	0.2926	0.3816	3.3232
H(3c)	0.5097	0.1720	0.4522	3.3232
H(4a)	0.6302	-0.0120	0.3466	3.7424
H(4b)	0.6776	0.0090	0.2155	3.7424
H(4c)	0.7468	0.0385	0.3790	3.7424
H(5a)	0.3311	0.2342	-0.0614	2.1223
H(6a)	0.5214	0.1119	-0.0816	2.8000
H(6b)	0.5972	0.1961	0.0008	2.8000
H(7a)	0.5363	0.2351	-0.2597	3.8134
H(7b)	0.3884	0.2550	-0.2818	3.8134
H(8a)	0.4184	0.4313	-0.2901	4.3819
H(8b)	0.5337	0.3963	-0.1326	4.3819
H(9a)	0.2683	0.4337	-0.1801	4.1490
H(9b)	0.3493	0.5138	-0.0961	4.1490
H(10a)	0.4738	0.3721	0.1029	3.2987
H(10b)	0.3249	0.3918	0.0754	3.2987
H(12a)	0.1272	-0.4414	0.3731	2.7074
H(13a)	0.3238	-0.5238	0.3406	3.9924
H(13b)	0.3203	-0.4017	0.2856	3.9924
H(13c)	0.3344	-0.4282	0.4534	3.9924
H(14a)	-0.0170	-0.4033	0.1281	3.5332
H(14b)	0.0919	-0.3860	0.0739	3.5332

Table 7.VII.4: Cont.

Atom	*x*	*y*	*z*	B_{eq}
H(14c)	0.1083	-0.5089	0.1414	3.5332
H(15a)	0.0133	-0.1712	0.4556	2.4379
H(16a)	0.1753	-0.3906	0.6017	3.1668
H(16b)	0.2180	-0.2788	0.6213	3.1668
H(17a)	0.1527	-0.3152	0.8202	3.7730
H(17b)	0.0630	-0.1943	0.7294	3.7730
H(18a)	-0.0064	-0.3969	0.6967	4.5796
H(18b)	-0.0690	-0.2892	0.7711	4.5796
H(19a)	-0.1635	-0.1789	0.5442	5.5549
H(19b)	-0.2057	-0.2910	0.5251	5.5549
H(20a)	-0.1440	-0.2514	0.3236	4.1544
H(20b)	-0.0542	-0.3734	0.4111	4.1544

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 7.VII.5: Bond distances (Å) for $[Hg(S_2CN(CH(CH_3)_2)(CH(CH_2)_5))_2]$

Hg — S(1)	2.412(2)	C(2) — C(4)	1.50(1)
Hg — S(2)	2.723(2)	C(5) — C(6)	1.512(9)
Hg — S(3)	2.464(2)	C(5) — C(10)	1.521(9)
Hg — S(4)	2.670(2)	C(6) — C(7)	1.544(9)
S(1) — C(1)	1.753(6)	C(7) — C(8)	1.50(1)
S(2) — C(1)	1.705(6)	C(8) — C(9)	1.52(1)
S(3) — C(11)	1.748(6)	C(9) — C(10)	1.53(1)
S(4) — C(11)	1.707(6)	C(12) — C(13)	1.52(1)
N(1) — C(1)	1.330(8)	C(12) — C(14)	1.53(1)
N(1) — C(2)	1.498(8)	C(15) — C(16)	1.525(9)
N(1) — C(5)	1.477(7)	C(15) — C(20)	1.51(1)
N(2) — C(11)	1.329(7)	C(16) — C(17)	1.53(1)
N(2) — C(12)	1.488(8)	C(17) — C(18)	1.51(1)
N(2) — C(15)	1.495(8)	C(18) — C(19)	1.50(1)
C(2) — C(3)	1.53(1)	C(19) — C(20)	1.53(1)

Table 7.VII.6: Bond angles (deg.) for [Hg($S_2CN(CH(CH_3)_2)(CH(CH_2)_5)$)2]

S(1) — Hg — S(2)	69.97(5)	N(1) — C(5) — C(6)	113.2(5)
S(1) — Hg — S(3)	160.02(6)	N(1) — C(5) — C(10)	111.7(5)
S(1) — Hg — S(4)	129.07(6)	C(6) — C(5) — C(10)	111.9(5)
S(2) — Hg — S(3)	112.32(6)	C(5) — C(6) — C(7)	109.5(5)
S(2) — Hg — S(4)	110.77(6)	C(6) — C(7) — C(8)	110.8(6)
S(3) — Hg — S(4)	69.80(5)	C(7) — C(8) — C(9)	111.7(6)
Hg — S(1) — C(1)	90.7(2)	C(8) — C(9) — C(10)	111.5(6)
Hg — S(2) — C(1)	81.8(2)	C(5) — C(10) — C(9)	110.1(6)
Hg — S(3) — C(11)	88.9(2)	S(3) — C(11) — S(4)	116.7(3)
Hg — S(4) — C(11)	83.2(2)	S(3) — C(11) — N(2)	119.2(5)
C(1) — N(1) — C(2)	124.1(5)	S(4) — C(11) — N(2)	124.0(5)
C(1) — N(1) — C(5)	120.8(5)	N(2) — C(12) — C(13)	112.4(6)
C(2) — N(1) — C(5)	115.1(5)	N(2) — C(12) — C(14)	113.3(5)
C(11) — N(2) — C(12)	123.6(5)	C(13) — C(12) — C(14)	113.1(6)
C(11) — N(2) — C(15)	121.1(5)	N(2) — C(15) — C(16)	111.2(5)
C(12) — N(2) — C(15)	115.2(5)	N(2) — C(15) — C(20)	112.2(6)
S(1) — C(1) — S(2)	117.4(3)	C(16) — C(15) — C(20)	111.9(6)
S(1) — C(1) — N(1)	119.5(5)	C(15) — C(16) — C(17)	109.6(6)
S(2) — C(1) — N(1)	123.1(5)	C(16) — C(17) — C(18)	111.2(6)
N(1) — C(2) — C(3)	112.5(5)	C(17) — C(18) — C(19)	111.1(6)
N(1) — C(2) — C(4)	114.0(6)	C(18) — C(19) — C(20)	111.8(7)
C(3) — C(2) — C(4)	112.5(6)	C(15) — C(20) — C(19)	109.7(7)

Table 7.VII.7: Observed and calculated structure factors for $[Hg(S_2CN(CH(CH_3)_2)(CH(CH_2)_5))_2]$

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
0	0	2	810	760	99	0	3	-10	64	56	99	0	5	1	1026	934	99	0	8	-7	278	275	99	0	11	-7	80	64	99
0	0	3	580	541	99	0	3	-9	-66	22	99	0	5	2	551	553	99	0	8	-6	25	26	99	0	11	-6	246	198	99
0	0	4	1044	982	99	0	3	-8	101	79	99	0	5	3	1034	1071	99	0	8	-5	246	221	99	0	11	-5	314	288	99
0	0	5	562	531	99	0	3	-7	545	574	99	0	5	4	750	759	99	0	8	-4	325	313	99	0	11	-4	405	407	99
0	0	6	771	733	99	0	3	-6	323	336	99	0	5	5	105	114	99	0	8	-3	263	240	99	0	11	-3	296	287	99
0	0	7	1236	1175	99	0	3	-5	623	629	99	0	5	6	465	476	99	0	8	-2	623	664	99	0	11	-2	245	213	99
0	0	8	380	347	99	0	3	-4	851	884	99	0	5	7	571	578	99	0	8	-1	981	949	99	0	11	-1	508	497	99
0	0	9	94	54	99	0	3	-3	381	392	99	0	5	8	292	307	99	0	8	0	473	460	99	0	11	0	73	111	99
0	0	10	82	155	99	0	3	-2	267	272	99	0	5	9	41	77	99	0	8	1	-49	51	99	0	11	1	185	177	99
0	0	11	346	312	99	0	3	-1	290	308	99	0	5	10	273	339	99	0	8	2	462	454	99	0	11	2	-112	255	99
0	1	-11	229	259	99	0	3	0	1258	1267	99	0	5	11	154	201	99	0	8	3	763	786	99	0	11	3	551	579	99
0	1	-10	183	235	99	0	3	1	99	117	99	0	6	-10	44	60	99	0	8	4	157	193	99	0	11	4	-140	121	99
0	1	-9	90	31	99	0	3	2	1174	1225	99	0	6	-9	-99	23	99	0	8	5	642	621	99	0	11	5	397	359	99
0	1	-8	546	540	99	0	3	3	832	881	99	0	6	-8	307	324	99	0	8	6	765	780	99	0	11	6	220	233	99
0	1	-7	974	1007	99	0	3	4	817	840	99	0	6	-7	513	556	99	0	8	7	370	402	99	0	11	7	106	114	99
0	1	-6	688	699	99	0	3	5	151	154	99	0	6	-6	184	189	99	0	8	8	80	61	99	0	11	8	105	74	99
0	1	-5	457	440	99	0	3	6	619	629	99	0	6	-5	507	494	99	0	8	9	208	241	99	0	12	-6	156	181	99
0	1	-4	770	797	99	0	3	7	540	524	99	0	6	-4	719	713	99	0	8	10	248	330	99	0	12	-5	195	198	99
0	1	-3	707	714	99	0	3	8	90	49	99	0	6	-3	359	362	99	0	9	-8	420	422	99	0	12	-4	262	253	99
0	1	-2	736	732	99	0	3	9	265	298	99	0	6	-2	54	50	99	0	9	-7	270	235	99	0	12	-3	223	260	99
0	1	-1	806	836	99	0	3	10	409	404	99	0	6	-1	868	881	99	0	9	-6	90	103	99	0	12	-2	343	336	99
0	1	2	326	316	99	0	3	11	253	287	99	0	6	0	762	774	99	0	9	-5	325	302	99	0	12	-1	363	384	99
0	1	3	723	703	99	0	4	-10	108	136	99	0	6	1	509	495	99	0	9	-4	510	504	99	0	12	0	77	69	99
0	1	4	645	621	99	0	4	-9	-85	112	99	0	6	2	239	266	99	0	9	-3	305	298	99	0	12	1	239	174	99
0	1	5	464	437	99	0	4	-8	179	177	99	0	6	3	903	926	99	0	9	-2	680	694	99	0	12	2	311	297	99
0	1	6	602	570	99	0	4	-7	470	483	99	0	6	4	438	434	99	0	9	-1	1014	986	99	0	12	3	370	410	99
0	1	7	862	802	99	0	4	-6	-18	40	99	0	6	5	350	350	99	0	9	0	305	304	99	0	12	4	109	41	99
0	1	8	-112	76	99	0	4	-5	833	855	99	0	6	6	367	400	99	0	9	1	54	59	99	0	12	5	432	392	99
0	1	9	131	129	99	0	4	-4	842	865	99	0	6	7	288	323	99	0	9	2	486	461	99	0	12	6	159	385	99
0	1	10	220	182	99	0	4	-3	499	502	99	0	6	8	283	282	99	0	9	3	930	915	99	0	12	7	-44	33	99
0	1	11	255	279	99	0	4	-2	88	69	99	0	6	9	245	215	99	0	9	4	609	619	99	0	12	8	-179	108	99
0	2	-11	292	328	99	0	4	-1	875	915	99	0	6	10	424	426	99	0	9	5	510	484	99	0	13	-5	202	192	99
0	2	-10	82	158	99	0	4	0	1506	1491	99	0	6	11	113	74	99	0	9	6	513	525	99	0	13	-4	-90	148	99
0	2	-9	50	79	99	0	4	1	596	560	99	0	7	-9	-54	65	99	0	9	7	101	208	99	0	13	-3	119	43	99
0	2	-8	244	251	99	0	4	2	1013	1040	99	0	7	-8	306	325	99	0	9	8	106	138	99	0	13	-2	423	406	99
0	2	-7	745	766	99	0	4	3	1149	1211	99	0	7	-7	527	527	99	0	9	9	151	238	99	0	13	-1	513	478	99
0	2	-6	559	586	99	0	4	4	1016	1014	99	0	7	-6	172	147	99	0	9	10	304	361	99	0	13	0	55	39	99
0	2	-5	828	830	99	0	4	5	28	19	99	0	7	-5	369	393	99	0	10	-8	241	258	99	0	13	1	283	244	99
0	2	-4	1200	1217	99	0	4	6	582	599	99	0	7	-4	601	593	99	0	10	-7	197	192	99	0	13	2	262	265	99
0	2	-3	692	697	99	0	4	7	634	618	99	0	7	-3	329	337	99	0	10	-6	164	149	99	0	13	3	330	328	99
0	2	-2	560	567	99	0	4	8	210	199	99	0	7	-2	147	177	99	0	10	-5	329	317	99	0	13	4	-247	71	99
0	2	-1	1291	1380	99	0	4	9	68	149	99	0	7	-1	925	938	99	0	10	-4	563	541	99	0	13	5	399	518	99
0	2	0	753	737	99	0	4	10	391	388	99	0	7	0	953	908	99	0	10	-3	457	415	99	0	13	6	287	379	99
0	2	1	249	245	99	0	4	11	277	292	99	0	7	1	152	138	99	0	10	-2	178	189	99	0	13	7	100	132	99
0	2	2	1013	1054	99	0	5	-10	132	171	99	0	7	2	481	464	99	0	10	-1	650	662	99	0	14	-3	-173	36	99
0	2	3	815	848	99	0	5	-9	69	18	99	0	7	3	676	685	99	0	10	0	281	249	99	0	14	-2	322	325	99
0	2	4	790	794	99	0	5	-8	282	304	99	0	7	4	308	306	99	0	10	1	46	112	99	0	14	-1	565	502	99
0	2	5	140	133	99	0	5	-7	498	515	99	0	7	5	557	539	99	0	10	2	320	297	99	0	14	0	183	107	99
0	2	6	874	827	99	0	5	-6	150	169	99	0	7	6	765	775	99	0	10	3	689	708	99	0	14	1	142	158	99
0	2	7	459	456	99	0	5	-5	643	660	99	0	7	7	304	334	99	0	10	4	416	430	99	0	14	2	109	176	99
0	2	8	-77	53	99	0	5	-4	950	977	99	0	7	8	21	125	99	0	10	5	304	272	99	0	14	3	-62	238	99
0	2	9	260	262	99	0	5	-3	756	772	99	0	7	9	171	151	99	0	10	6	173	180	99	0	14	4	159	159	99
0	2	10	368	364	99	0	5	-2	105	70	99	0	7	10	335	428	99	0	10	7	143	53	99	0	14	5	226	222	99
0	2	11	233	238	99	0	5	-1	861	887	99	0	8	-9	222	230	99	0	10	8	100	51	99	0	15	0	125	84	99
0	3	-11	313	377	99	0	5	0	1496	1482	99	0	8	-8	287	315	99	0	10	9	193	137	99	0	15	1	138	150	99
0	15	2	168	140	99	1	-10	-3	394	335	99	1	-7	-5	332	341	99	1	-5	8	147	33	99	1	-2	-3	689	668	99
0	15	3	51	113	99	1	-10	-2	41	83	99	1	-7	-4	659	677	99	1	-5	9	-63	112	99	1	-2	-2	378	367	99
1	-14	-5	98	87	99	1	-10	-1	610	542	99	1	-7	-3	649	673	99	1	-5	10	370	383	99	1	-2	-1	2489	2560	99
1	-14	-4	328	324	99	1	-10	0	733	652	99	1	-7	-2	130	45	99	1	-4	-11	230	263	99	1	-2	0	943	972	99
1	-14	-3	171	178	99	1	-10	1	165	313	99	1	-7	-1	867	795	99	1	-4	-10	285	261	99	1	-2	1	356	350	99
1	-14	-2	-99	40	99	1	-10	2	378	331	99	1	-7	0	776	757	99	1	-4	-9	-167	37	99	1	-2	2	426	441	99
1	-14	-1	194	90	99	1	-10	3	353	303	99	1	-7	1	117	60	99	1	-4	-8	373	388	99	1	-2	3	460	465	99
1	-14	0	384	353	99	1	-10	4	358	315	99	1	-7	2	152	154	99	1	-4	-7	752	749	99	1	-2	4	197	195	99
1	-14	1	391	390	99	1	-10	5	-121	12	99	1	-7	3	365	340	99	1	-4	-6	194	210	99	1	-2	5	828	834	99
1	-14	2	-145	142	99	1	-10	6	403	366	99	1	-7	4	518	505	99	1	-4	-5	996	980	99	1	-2	6	991	1018	99
1	-13	-6	297	246	99	1	-10	7	189	350	99	1	-7	5	182	124	99	1	-4	-4	822	842	99	1	-2	7	480	479	99
1	-13	-5	134	39	99	1	-9	-10	-150	219	99	1	-7	6	486	484	99	1	-4	-3	878	885	99	1	-2	8	73	66	99
1	-13	-4	529	504	99	1	-9	-9	-152	142	99	1	-7	7	234	220	99	1	-4	-2	129	61	99	1	-2	9	276	265	99
1	-13	-3	468	367	99	1	-9	-8	412	457	99	1	-7	8	98	55	99	1	-4	-1	1103	1101	99	1	-2	10	213	196	99
1	-13	-2	-133	113	99	1	-9	-7	452	486	99	1	-7	9	95	78	99	1	-4	0	1377	1383	99	1	-1	-11	-66	117	99
1	-13	-1	146	35	99	1	-9	-6	280	289	99	1	-6	-11	-48	142	99	1	-4	1	90	76	99	1	-1	-10	180	123	99
1	-13	0	329	306	99	1	-9	-5	-104	144	99	1	-6	-10	-55	103	99	1	-4	2	643	642	99	1	-1	-9	323	332	99
1	-13	1	394	338	99	1	-9	-4	513	556	99	1	-6	-9	59	26	99	1	-4	3	1087	1127	99	1	-1	-8	795	757	99
1	-13	2	-115	73	99	1	-9	-3	574	514	99	1	-6	-8	436	451	99	1	-4	4	843	865	99	1	-1	-7	536	512	99
1	-13	3	297	283	99	1	-9	-2	71	102	99	1	-6	-7	186	215	99	1	-4	5	114	105	99	1	-1	-6	413	366	99
1	-13	4	371	308	99	1	-9	-1	993	874	99	1	-6	-6	85	71	99	1	-4	6	615	652	99	1	-1	-5	712	695	99
1	-12	-7	218	250	99	1	-9	0	902	830	99	1	-6	-5	189	211	99	1	-4	7	300	315	99	1	-1	-4	537	543	99
1	-12	-6	287	313	99	1	-9	1	489	458	99	1	-6	-4	485	506	99	1	-4	8	81	124	99	1	-1	-3	80	53	99
1	-12	-5	-45	40	99	1	-9	2	91	98	99	1	-6	-3	545	553	99	1	-4	9	174	109	99	1	-1	-2	1493	1482	99
1	-12	-4	591	559	99	1	-9	3	594	556	99	1	-6	-2	103	101	99	1	-4	10	373	390	99	1	-1	-1	2371	2395	99
1	-12	-3	537	446	99	1	-9	4	527	487	99	1	-6	-1	1134	1039	99	1	-3	-11	265	290	99	1	-1	0	655	682	99
1	-12	-2	217	143	99	1	-9	5	120	71	99	1	-6	0	469	474	99	1	-3	-10	211	207	99	1	-1	1	255	257	99
1	-12	-1	-126	47	99	1	-9	6	429	410	99	1	-6	1	276	284	99	1	-3	-9	76	63	99	1	-1	2	757	787	99
1	-12	0	320	308	99	1	-9	7	261	283	99	1	-6	2	581	576	99	1	-3	-8	689	674	99	1	-1	3	1202	1235	99
1	-12	1	299	272	99	1	-9	8	173	182	99	1	-6	3	606	601	99	1	-3	-7	956	948	99	1	-1	4	165	142	99
1	-12	2	86	14	99	1	-8	-10	238	227	99	1	-6	4	708	705	99	1	-3	-6	236	237	99	1	-1	5	916	913	99
1	-12	3	400	362	99	1	-8	-9	151	131	99	1	-6	5	187	184	99	1	-3	-5	737	724	99	1	-1	6	1150	1106	99
1	-12	4	308	252	99	1	-8	-8	370	469	99	1	-6	6	589	604	99	1	-3	-4	711	720	99	1	-1	7	471	444	99
1	-12	5	127	106	99	1	-8	-7	620	609	99	1	-6	7	192	200	99	1	-3	-3	1077	1055	99	1	-1	8	100	129	99
1	-11	-8	58	40	99	1	-8	-6	99	164	99	1	-6	8	54	63	99	1	-3	-2	302	301	99	1	-1	9	346	353	99
1	-11	-7	140	163	99	1	-8	-5	218	282	99	1	-6	9	125	163	99	1	-3	-1	1612	1634	99	1	-1	10	387	372	99
1	-11	-6	369	361	99	1	-8	-4	647	668	99	1	-5	-11	197	164	99	1	-3	0	1617	1611	99	1	-1	11	102	51	99
1	-11	-5	115	50	99	1	-8	-3	704	667	99	1	-5	-10	191	120	99	1	-3	1	94	48	99	1	0	-11	188	147	99
1	-11	-4	443	400	99	1	-8	-2	108	162	99	1	-5	-9	-47	31	99	1	-3	2	696	695	99	1	0	-10	85	120	99
1	-11	-3	412	329	99	1	-8	-1	900	793	99	1	-5	-8	573	553	99	1	-3	3	570	587	99	1	0	-9	403	414	99
1	-11	-2	-148	153	99	1	-8	0	760	719	99	1	-5	-7	425	426	99	1	-3	4	863	864	99	1	0	-8	653	638	99
1	-11	-1	120	118	99	1	-8	1	259	248	99	1	-5	-6	384	371	99	1	-3	5	244	251	99	1	0	-7	839	808	99
1	-11	0	357	333	99	1	-8	2	83	103	99	1	-5	-5	822	825	99	1	-3	6	750	759	99	1	0	-6	641	578	99
1	-11	1	182	168	99	1	-8	3	619	600	99	1	-5	-4	641	658	99	1	-3	7	387	388	99	1	0	-5	1362	1304	99
1	-11	2	-8	112	99	1	-8	4	681	625	99	1	-5	-3	787	816	99	1	-3	8	-122	7	99	1	0	-4	656	642	99
1	-11	3	429	384	99	1	-8	5	-52	37	99	1	-5	-2	112	105	99	1	-3	9	185	175	99	1	0	-3	99	37	99
1	-11	4	315	284	99	1	-8	6	476	455	99	1	-5	-1	1430	1365	99	1	-3	10	197	206	99	1	0	-2	1055	1004	99
1	-11	5	47	18	99	1	-8	7	219	205	99	1	-5	0	361	388	99	1	-2	-11	209	222	99	1	0	1	1385	1434	99
1	-11	6	237	177	99	1	-8	8	138	78	99	1	-5	1	326	300	99	1	-2	-10	-31	128	99	1	0	2	1475	1478	99
1	-10	-9	139	52	99	1	-7	-11	324	353	99	1	-5	2	590	603	99	1	-2	-9	88	53	99	1	0	3	1123	1112	99
1	-10	-8	214	271	99	1	-7	-10	234	220	99	1	-5	3	1155	1182	99	1	-2	-8	780	784	99	1	0	4	448	426	99
1	-10	-7	284	273	99	1	-7	-9	-119	36	99	1	-5	4	804	819	99	1	-2	-7	672	658	99	1	0	5	526	530	99
1	-10	-6	231	188	99	1	-7	-8	295	280	99	1	-5	5	125	96	99	1	-2	-6	-75	21	99	1	0	6	882	844	99
1	-10	-5	217	212	99	1	-7	-7	615	621	99	1	-5	6	626	619	99	1	-2	-5	544	530	99	1	0	7	412	388	99
1	-10	-4	401	451	99	1	-7	-6	291	248	99	1	-5	7	257	262	99	1	-2	-4	775	755	99	1	0	8	86	58	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
1	0	9	485	463	99	1	3	-3	303	306	99	1	5	7	482	484	99	1	8	-1	189	198	99	1	11	-1	229	223	99
1	0	10	412	409	99	1	3	-2	767	787	99	1	5	8	-152	70	99	1	8	0	344	326	99	1	11	0	206	160	99
1	0	11	-132	33	99	1	3	-1	373	296	99	1	5	9	468	488	99	1	8	1	586	578	99	1	11	1	425	403	99
1	1	-11	163	138	99	1	3	0	586	574	99	1	5	10	204	228	99	1	8	2	930	881	99	1	11	2	406	393	99
1	1	-10	-76	22	99	1	3	1	724	713	99	1	5	11	130	142	99	1	8	3	460	456	99	1	11	3	72	127	99
1	1	-9	207	225	99	1	3	2	1249	1252	99	1	6	-10	193	180	99	1	8	4	611	602	99	1	11	4	339	334	99
1	1	-8	636	647	99	1	3	3	929	932	99	1	6	-9	482	494	99	1	8	5	513	496	99	1	11	5	356	350	99
1	1	-7	337	334	99	1	3	4	224	221	99	1	6	-8	505	521	99	1	8	6	176	169	99	1	11	6	-145	90	99
1	1	-6	510	500	99	1	3	5	669	673	99	1	6	-7	108	108	99	1	8	7	64	45	99	1	11	7	101	95	99
1	1	-5	1128	1114	99	1	3	6	524	507	99	1	6	-6	259	243	99	1	8	8	433	460	99	1	11	8	140	173	99
1	1	-4	1058	1051	99	1	3	7	250	261	99	1	6	-5	555	566	99	1	8	9	454	448	99	1	12	-6	232	177	99
1	1	-3	431	425	99	1	3	8	212	227	99	1	6	-4	612	603	99	1	8	10	138	195	99	1	12	-5	116	91	99
1	1	-2	976	962	99	1	3	9	621	616	99	1	6	-3	307	303	99	1	9	-9	261	287	99	1	12	-4	-74	29	99
1	1	1	456	441	99	1	3	10	294	333	99	1	6	-2	1372	1367	99	1	9	-8	147	142	99	1	12	-3	333	307	99
1	1	2	1966	1910	99	1	3	11	110	102	99	1	6	-1	805	803	99	1	9	-7	376	367	99	1	12	-2	495	483	99
1	1	3	999	971	99	1	4	-11	123	107	99	1	6	0	242	235	99	1	9	-6	402	379	99	1	12	-1	86	129	99
1	1	4	258	236	99	1	4	-10	76	23	99	1	6	1	186	128	99	1	9	-5	531	504	99	1	12	0	225	192	99
1	1	5	375	362	99	1	4	-9	334	340	99	1	6	2	1162	1104	99	1	9	-4	513	498	99	1	12	1	350	343	99
1	1	6	368	367	99	1	4	-8	349	363	99	1	6	3	721	721	99	1	9	-3	181	167	99	1	12	2	192	194	99
1	1	7	300	271	99	1	4	-7	-32	39	99	1	6	4	594	595	99	1	9	-2	817	817	99	1	12	3	-97	54	99
1	1	8	-59	34	99	1	4	-6	570	564	99	1	6	5	899	870	99	1	9	-1	378	350	99	1	12	4	337	352	99
1	1	9	426	389	99	1	4	-5	878	875	99	1	6	6	267	270	99	1	9	0	525	512	99	1	12	5	335	371	99
1	1	10	280	259	99	1	4	-4	889	884	99	1	6	7	226	181	99	1	9	1	566	564	99	1	12	6	212	196	99
1	1	11	102	52	99	1	4	-3	82	99	99	1	6	8	101	58	99	1	9	2	978	942	99	1	12	7	-59	137	99
1	2	-11	213	270	99	1	4	-2	1201	1265	99	1	6	9	270	340	99	1	9	3	568	572	99	1	12	8	300	297	99
1	2	-10	-152	43	99	1	4	-1	1120	1157	99	1	6	10	111	38	99	1	9	4	467	450	99	1	13	-5	143	104	99
1	2	-9	168	127	99	1	4	0	401	361	99	1	7	-10	138	96	99	1	9	5	610	625	99	1	13	-4	84	82	99
1	2	-8	577	594	99	1	4	1	702	681	99	1	7	-9	349	366	99	1	9	6	195	245	99	1	13	-3	345	327	99
1	2	-7	278	289	99	1	4	2	1329	1334	99	1	7	-8	321	332	99	1	9	7	-60	10	99	1	13	-2	500	471	99
1	2	-6	364	374	99	1	4	3	986	1001	99	1	7	-7	126	129	99	1	9	8	259	315	99	1	13	-1	194	170	99
1	2	-5	868	884	99	1	4	4	511	514	99	1	7	-6	217	212	99	1	9	9	345	439	99	1	13	0	236	250	99
1	2	-4	707	708	99	1	4	5	878	882	99	1	7	-5	391	379	99	1	10	-8	171	174	99	1	13	1	348	324	99
1	2	-3	254	266	99	1	4	6	717	727	99	1	7	-4	356	349	99	1	10	-7	278	237	99	1	13	2	181	178	99
1	2	-2	603	620	99	1	4	7	509	481	99	1	7	-3	580	567	99	1	10	-6	480	443	99	1	13	3	67	68	99
1	2	-1	1186	1219	99	1	4	8	196	196	99	1	7	-2	1019	1017	99	1	10	-5	461	428	99	1	13	4	259	294	99
1	2	0	146	138	99	1	4	9	649	652	99	1	7	-1	473	437	99	1	10	-4	296	283	99	1	13	5	316	396	99
1	2	1	371	357	99	1	4	10	315	308	99	1	7	0	247	216	99	1	10	-3	248	250	99	1	13	6	126	165	99
1	2	2	1078	1053	99	1	4	11	-106	144	99	1	7	1	263	269	99	1	10	-2	713	675	99	1	13	7	-89	144	99
1	2	3	1467	1389	99	1	5	-10	129	55	99	1	7	2	543	547	99	1	10	-1	378	346	99	1	14	-4	108	28	99
1	2	4	57	39	99	1	5	-9	483	505	99	1	7	3	495	506	99	1	10	0	181	171	99	1	14	-3	233	242	99
1	2	5	600	618	99	1	5	-8	565	583	99	1	7	4	522	500	99	1	10	1	507	495	99	1	14	-2	302	302	99
1	2	6	202	215	99	1	5	-7	84	57	99	1	7	5	892	920	99	1	10	2	703	700	99	1	14	-1	210	217	99
1	2	7	26	115	99	1	5	-6	331	325	99	1	7	6	228	217	99	1	10	3	298	303	99	1	14	0	178	170	99
1	2	8	179	189	99	1	5	-5	692	705	99	1	7	7	102	102	99	1	10	4	130	151	99	1	14	1	147	143	99
1	2	9	509	516	99	1	5	-4	662	672	99	1	7	8	232	230	99	1	10	5	427	467	99	1	14	2	202	228	99
1	2	10	256	275	99	1	5	-3	296	320	99	1	7	9	384	422	99	1	10	6	201	277	99	1	14	3	189	18	99
1	2	11	96	57	99	1	5	-2	1398	1438	99	1	7	10	128	104	99	1	10	7	137	16	99	1	14	4	156	147	99
1	3	-11	204	218	99	1	5	-1	1291	1301	99	1	8	-9	308	316	99	1	10	8	-206	120	99	1	14	5	313	364	99
1	3	-10	36	14	99	1	5	0	177	162	99	1	8	-8	182	205	99	1	10	9	164	248	99	1	15	-2	28	189	99
1	3	-9	128	130	99	1	5	1	414	399	99	1	8	-7	167	184	99	1	11	-7	81	111	99	1	15	-1	123	167	99
1	3	-8	265	257	99	1	5	2	1429	1417	99	1	8	-6	291	263	99	1	11	-6	283	270	99	1	15	0	114	45	99
1	3	-7	237	258	99	1	5	3	832	847	99	1	8	-5	437	433	99	1	11	-5	286	277	99	1	15	1	309	289	99
1	3	-6	465	463	99	1	5	4	369	367	99	1	8	-4	476	464	99	1	11	-4	230	211	99	1	15	2	229	201	99
1	3	-5	932	923	99	1	5	5	736	730	99	1	8	-3	526	525	99	1	11	-3	302	272	99	1	15	3	126	97	99
1	3	-4	812	818	99	1	5	6	647	673	99	1	8	-2	1007	999	99	1	11	-2	568	549	99	2	-14	-4	440	338	99
2	-14	-3	-207	30	99	2	-10	5	472	462	99	2	-7	5	353	346	99	2	-4	-2	1344	1362	99	2	-2	7	109	24	99
2	-14	-2	-162	79	99	2	-10	6	374	316	99	2	-7	6	246	267	99	2	-4	-1	1585	1561	99	2	-2	8	466	474	99
2	-14	-1	133	124	99	2	-9	-10	185	126	99	2	-7	7	-81	64	99	2	-4	0	217	210	99	2	-2	9	330	351	99
2	-14	0	131	175	99	2	-9	-9	-132	293	99	2	-7	8	171	203	99	2	-4	1	916	875	99	2	-2	10	-46	96	99
2	-14	1	-147	48	99	2	-9	-8	483	495	99	2	-6	-11	203	191	99	2	-4	2	814	804	99	2	-1	-12	121	139	99
2	-13	-6	-198	22	99	2	-9	-7	-228	35	99	2	-6	-10	300	248	99	2	-4	3	681	684	99	2	-1	-11	59	17	99
2	-13	-5	293	331	99	2	-9	-6	400	457	99	2	-6	-9	226	134	99	2	-4	4	491	470	99	2	-1	-10	180	167	99
2	-13	-4	521	426	99	2	-9	-5	371	423	99	2	-6	-8	406	430	99	2	-4	5	832	838	99	2	-1	-9	407	397	99
2	-13	-3	155	128	99	2	-9	-4	521	512	99	2	-6	-7	105	104	99	2	-4	6	603	608	99	2	-1	-8	256	241	99
2	-13	-2	-51	168	99	2	-9	-3	109	20	99	2	-6	-6	473	521	99	2	-4	7	210	218	99	2	-1	-7	303	292	99
2	-13	-1	310	334	99	2	-9	-2	802	749	99	2	-6	-5	474	487	99	2	-4	8	-103	160	99	2	-1	-6	735	711	99
2	-13	0	174	190	99	2	-9	-1	751	741	99	2	-6	-4	459	459	99	2	-4	9	221	238	99	2	-1	-5	462	472	99
2	-13	1	-154	41	99	2	-9	0	112	45	99	2	-6	-3	387	358	99	2	-4	10	136	102	99	2	-1	-4	118	133	99
2	-13	2	250	262	99	2	-9	1	257	241	99	2	-6	-2	639	644	99	2	-3	-12	241	258	99	2	-1	-3	979	968	99
2	-13	3	350	346	99	2	-9	2	476	445	99	2	-6	-1	668	668	99	2	-3	-11	91	60	99	2	-1	-2	1206	1215	99
2	-12	-7	263	259	99	2	-9	3	617	578	99	2	-6	0	295	268	99	2	-3	-10	208	213	99	2	-1	-1	127	111	99
2	-12	-6	-179	39	99	2	-9	4	-110	7	99	2	-6	1	719	694	99	2	-3	-9	679	656	99	2	-1	0	965	958	99
2	-12	-5	122	215	99	2	-9	5	445	426	99	2	-6	2	737	721	99	2	-3	-8	837	817	99	2	-1	1	1651	1671	99
2	-12	-4	542	440	99	2	-9	6	334	327	99	2	-6	3	375	385	99	2	-3	-7	181	129	99	2	-1	2	819	841	99
2	-12	-3	379	160	99	2	-9	7	120	124	99	2	-6	4	143	148	99	2	-3	-6	706	707	99	2	-1	3	151	132	99
2	-12	-2	320	295	99	2	-8	-10	139	57	99	2	-6	5	452	441	99	2	-3	-5	987	995	99	2	-1	4	818	812	99
2	-12	-1	381	390	99	2	-8	-9	269	349	99	2	-6	6	309	300	99	2	-3	-4	138	170	99	2	-1	5	452	460	99
2	-12	0	196	190	99	2	-8	-8	540	533	99	2	-6	7	60	33	99	2	-3	-3	620	634	99	2	-1	6	151	136	99
2	-12	1	123	27	99	2	-8	-7	-110	88	99	2	-6	8	211	231	99	2	-3	-2	1408	1464	99	2	-1	7	149	153	99
2	-12	2	183	158	99	2	-8	-6	323	365	99	2	-6	9	377	373	99	2	-3	-1	1164	1179	99	2	-1	8	584	559	99
2	-12	3	348	339	99	2	-8	-5	420	426	99	2	-5	-11	-60	72	99	2	-3	0	52	72	99	2	-1	9	500	480	99
2	-12	4	180	89	99	2	-8	-4	614	600	99	2	-5	-10	-111	78	99	2	-3	1	684	688	99	2	-1	10	-147	29	99
2	-11	-8	99	207	99	2	-8	-3	215	150	99	2	-5	-9	186	185	99	2	-3	2	1018	1037	99	2	0	-12	117	168	99
2	-11	-7	222	175	99	2	-8	-2	696	674	99	2	-5	-8	591	574	99	2	-3	3	111	65	99	2	0	-11	67	13	99
2	-11	-6	33	55	99	2	-8	-1	817	817	99	2	-5	-7	246	287	99	2	-3	4	512	531	99	2	0	-10	281	271	99
2	-11	-5	154	218	99	2	-8	0	-125	42	99	2	-5	-6	913	929	99	2	-3	5	893	902	99	2	0	-9	400	386	99
2	-11	-4	333	335	99	2	-8	1	274	280	99	2	-5	-5	374	399	99	2	-3	6	579	603	99	2	0	-8	130	60	99
2	-11	-3	259	145	99	2	-8	2	249	262	99	2	-5	-4	560	559	99	2	-3	7	53	5	99	2	0	-7	335	323	99
2	-11	-2	466	469	99	2	-8	3	713	720	99	2	-5	-3	107	74	99	2	-3	8	213	232	99	2	0	-6	1348	1254	99
2	-11	-1	551	505	99	2	-8	4	-33	23	99	2	-5	-2	1238	1275	99	2	-3	9	142	165	99	2	0	-5	946	926	99
2	-11	0	172	178	99	2	-8	5	493	471	99	2	-5	-1	1444	1375	99	2	-3	10	100	58	99	2	0	-4	114	43	99
2	-11	1	-182	28	99	2	-8	6	247	209	99	2	-5	0	236	198	99	2	-2	-12	59	244	99	2	0	-3	763	745	99
2	-11	2	205	140	99	2	-8	7	127	45	99	2	-5	1	1051	1055	99	2	-2	-11	-61	24	99	2	0	-2	1113	1096	99
2	-11	3	347	326	99	2	-8	8	106	28	99	2	-5	2	714	715	99	2	-2	-10	213	193	99	2	0	-1	1006	947	99
2	-11	4	109	15	99	2	-7	-11	114	152	99	2	-5	3	585	595	99	2	-2	-9	452	427	99	2	0	0	212	219	99
2	-11	5	365	363	99	2	-7	-10	119	85	99	2	-5	4	296	296	99	2	-2	-8	779	749	99	2	0	1	1889	1949	99
2	-10	-9	-37	259	99	2	-7	-9	257	299	99	2	-5	5	782	808	99	2	-2	-7	67	19	99	2	0	2	1721	1735	99
2	-10	-8	270	314	99	2	-7	-8	454	460	99	2	-5	6	582	576	99	2	-2	-6	585	572	99	2	0	3	173	170	99
2	-10	-7	-268	41	99	2	-7	-7	268	222	99	2	-5	7	44	88	99	2	-2	-5	695	702	99	2	0	4	727	738	99
2	-10	-6	110	190	99	2	-7	-6	274	307	99	2	-5	8	294	298	99	2	-2	-4	128	86	99	2	0	5	606	604	99
2	-10	-5	287	300	99	2	-7	-5	533	548	99	2	-5	9	350	363	99	2	-2	-3	662	674	99	2	0	6	477	444	99
2	-10	-4	182	217	99	2	-7	-4	371	352	99	2	-4	-11	-45	27	99	2	-2	-2	1396	1413	99	2	0	7	82	33	99
2	-10	-3	130	99	99	2	-7	-3	305	279	99	2	-4	-10	107	207	99	2	-2	-1	1113	1113	99	2	0	8	576	569	99
2	-10	-2	678	607	99	2	-7	-2	538	554	99	2	-4	-9	603	621	99	2	-2	0	386	364	99	2	0	9	547	522	99
2	-10	-1	609	577	99	2	-7	-1	606	647	99	2	-4	-8	630	619	99	2	-2	1	667	673	99	2	0	10	61	95	99
2	-10	0	200	154	99	2	-7	0	-93	40	99	2	-4	-7	86	39	99	2	-2	2	836	861	99	2	1	-12	132	177	99
2	-10	1	-125	163	99	2	-7	1	357	346	99	2	-4	-6	851	851	99	2	-2	3	48	74	99	2	1	-11	64	9	99
2	-10	2	401	383	99	2	-7	2	654	645	99	2	-4	-5	845	858	99	2	-2	4	442	452	99	2	1	-10	271	256	99
2	-10	3	180	239	99	2	-7	3	606	587	99	2	-4	-4	465	473	99	2	-2	5	624	655	99	2	1	-9	508	515	99
2	-10	4	-131	13	99	2	-7	4	156	191	99	2	-4	-3	486	507	99	2	-2	6	396	394	99	2	1	-8	352	340	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF
2	1	-7	558	506	99	2	3	3	398	400	99	2	6	-7	452	444	99	2	8	6	100	125	99	2	11	5	246	266	99
2	1	-6	980	938	99	2	3	4	1049	1021	99	2	6	-6	494	475	99	2	8	7	542	555	99	2	11	6	-219	50	99
2	1	-5	1237	1182	99	2	3	5	779	728	99	2	6	-5	571	587	99	2	8	8	451	429	99	2	11	7	303	309	99
2	1	-4	188	189	99	2	3	6	315	279	99	2	6	-4	202	196	99	2	8	9	-114	59	99	2	11	8	143	84	99
2	1	-3	1076	1045	99	2	3	7	284	288	99	2	6	-3	1205	1201	99	2	8	10	-119	159	99	2	12	-7	176	141	99
2	1	-2	627	603	99	2	3	8	465	465	99	2	6	-2	853	862	99	2	9	-9	176	179	99	2	12	-6	193	161	99
2	1	-1	672	657	99	2	3	9	262	259	99	2	6	-1	70	70	99	2	9	-8	235	213	99	2	12	-5	-37	27	99
2	1	0	269	262	99	2	3	10	256	217	99	2	6	0	465	471	99	2	9	-7	507	523	99	2	12	-4	304	299	99
2	1	1	1124	1118	99	2	4	-11	88	28	99	2	6	1	697	687	99	2	9	-6	350	350	99	2	12	-3	351	319	99
2	1	2	1539	1506	99	2	4	-10	411	410	99	2	6	2	721	690	99	2	9	-5	172	127	99	2	12	-2	215	179	99
2	1	3	73	18	99	2	4	-9	485	498	99	2	6	3	373	366	99	2	9	-4	383	365	99	2	12	-1	106	50	99
2	1	4	490	479	99	2	4	-8	58	104	99	2	6	4	873	875	99	2	9	-3	895	894	99	2	12	0	371	334	99
2	1	5	442	411	99	2	4	-7	292	279	99	2	6	5	302	301	99	2	9	-2	734	695	99	2	12	1	254	249	99
2	1	6	402	358	99	2	4	-6	460	467	99	2	6	6	114	29	99	2	9	-1	370	375	99	2	12	2	115	155	99
2	1	7	143	86	99	2	4	-5	317	333	99	2	6	7	241	203	99	2	9	0	975	933	99	2	12	3	288	306	99
2	1	8	573	565	99	2	4	-4	496	511	99	2	6	8	429	414	99	2	9	1	691	690	99	2	12	4	260	345	99
2	1	9	470	461	99	2	4	-3	1888	1917	99	2	6	9	221	212	99	2	9	2	236	222	99	2	12	5	121	189	99
2	1	10	25	7	99	2	4	-2	1430	1474	99	2	6	10	108	40	99	2	9	3	345	347	99	2	12	6	146	93	99
2	2	-11	92	43	99	2	4	-1	302	295	99	2	7	-10	300	294	99	2	9	4	722	700	99	2	12	7	313	323	99
2	2	-10	238	230	99	2	4	0	489	488	99	2	7	-9	321	336	99	2	9	5	506	514	99	2	13	-6	110	155	99
2	2	-9	444	463	99	2	4	1	1309	1287	99	2	7	-8	171	123	99	2	9	6	101	41	99	2	13	-5	186	125	99
2	2	-8	392	391	99	2	4	2	1036	1001	99	2	7	-7	268	260	99	2	9	7	361	342	99	2	13	-4	412	364	99
2	2	-7	460	426	99	2	4	3	679	675	99	2	7	-6	545	532	99	2	9	8	416	458	99	2	13	-3	212	218	99
2	2	-6	697	680	99	2	4	4	1408	1376	99	2	7	-5	561	563	99	2	9	9	-29	106	99	2	13	-2	157	142	99
2	2	-5	1186	1169	99	2	4	5	874	862	99	2	7	-4	96	62	99	2	10	-8	151	168	99	2	13	-1	253	204	99
2	2	-4	601	587	99	2	4	6	247	226	99	2	7	-3	664	668	99	2	10	-7	370	339	99	2	13	0	526	504	99
2	2	-3	822	822	99	2	4	7	274	277	99	2	7	-2	552	527	99	2	10	-6	355	317	99	2	13	1	377	362	99
2	2	-2	1378	1397	99	2	4	8	553	526	99	2	7	-1	186	196	99	2	10	-5	-45	94	99	2	13	2	219	149	99
2	2	-1	395	391	99	2	4	9	321	316	99	2	7	0	792	784	99	2	10	-4	349	324	99	2	13	3	387	410	99
2	2	0	1191	1187	99	2	4	10	175	208	99	2	7	1	1046	972	99	2	10	-3	606	600	99	2	13	4	215	258	99
2	2	1	1106	1115	99	2	5	-11	87	125	99	2	7	2	710	665	99	2	10	-2	506	494	99	2	13	5	231	267	99
2	2	2	1523	1474	99	2	5	-10	420	437	99	2	7	3	93	165	99	2	10	-1	-143	29	99	2	13	6	54	85	99
2	2	3	297	232	99	2	5	-9	450	471	99	2	7	4	571	584	99	2	10	0	606	623	99	2	14	-4	283	285	99
2	2	4	980	938	99	2	5	-8	73	62	99	2	7	5	309	313	99	2	10	1	577	587	99	2	14	-3	291	255	99
2	2	5	570	566	99	2	5	-7	489	480	99	2	7	6	214	196	99	2	10	2	105	26	99	2	14	-2	196	192	99
2	2	6	277	264	99	2	5	-6	442	453	99	2	7	7	535	543	99	2	10	3	284	273	99	2	14	-1	96	67	99
2	2	7	113	54	99	2	5	-5	551	539	99	2	7	8	284	298	99	2	10	4	321	357	99	2	14	0	544	534	99
2	2	8	585	582	99	2	5	-4	282	300	99	2	7	9	133	189	99	2	10	5	454	457	99	2	14	1	436	406	99
2	2	9	360	311	99	2	5	-3	1513	1553	99	2	7	10	-160	31	99	2	10	6	62	28	99	2	14	2	186	111	99
2	2	10	154	103	99	2	5	-2	1164	1173	99	2	8	-10	168	187	99	2	10	7	351	340	99	2	14	3	221	203	99
2	2	11	187	181	99	2	5	-1	401	397	99	2	8	-9	198	212	99	2	10	8	119	147	99	2	14	4	53	182	99
2	3	-11	-93	110	99	2	5	0	280	301	99	2	8	-8	259	261	99	2	10	9	-205	12	99	2	14	5	246	297	99
2	3	-10	364	354	99	2	5	1	1057	1009	99	2	8	-7	444	442	99	2	11	-8	83	114	99	2	15	-3	119	180	99
2	3	-9	466	457	99	2	5	2	946	892	99	2	8	-6	373	358	99	2	11	-7	306	278	99	2	15	-2	168	25	99
2	3	-8	140	152	99	2	5	3	304	311	99	2	8	-5	307	295	99	2	11	-6	306	285	99	2	15	-1	-60	64	99
2	3	-7	80	99	99	2	5	4	1145	1143	99	2	8	-4	148	144	99	2	11	-5	92	26	99	2	15	0	374	386	99
2	3	-6	485	454	99	2	5	5	680	689	99	2	8	-3	693	686	99	2	11	-4	334	303	99	2	15	1	370	371	99
2	3	-5	814	801	99	2	5	6	181	198	99	2	8	-2	212	208	99	2	11	-3	531	510	99	2	15	2	-87	96	99
2	3	-4	39	21	99	2	5	7	73	66	99	2	8	-1	543	573	99	2	11	-2	264	273	99	2	15	3	186	189	99
2	3	-3	1048	1066	99	2	5	8	440	504	99	2	8	0	709	727	99	2	11	-1	-183	50	99	2	15	4	-110	87	99
2	3	-2	939	947	99	2	5	9	220	243	99	2	8	1	859	839	99	2	11	0	402	381	99	3	-13	-5	228	248	99
2	3	-1	82	52	99	2	5	10	105	119	99	2	8	2	386	349	99	2	11	1	338	343	99	3	-13	-4	140	176	99
2	3	0	235	244	99	2	6	-10	397	406	99	2	8	3	411	418	99	2	11	2	84	50	99	3	-13	-3	239	319	99
2	3	1	955	943	99	2	6	-9	460	457	99	2	8	4	616	615	99	2	11	3	305	333	99	3	-13	-2	449	475	99
2	3	2	912	861	99	2	6	-8	75	15	99	2	8	5	366	350	99	2	11	4	437	469	99	3	-13	-1	210	107	99
3	-13	0	-158	61	99	3	-9	1	398	424	99	3	-6	0	583	568	99	3	-3	-8	178	178	99	3	-1	2	-48	29	99
3	-13	1	92	57	99	3	-9	2	582	565	99	3	-6	1	607	590	99	3	-3	-7	557	560	99	3	-1	3	598	623	99
3	-13	2	298	319	99	3	-9	3	89	78	99	3	-6	2	381	372	99	3	-3	-6	861	867	99	3	-1	4	738	765	99
3	-12	-7	-55	117	99	3	-9	4	344	336	99	3	-6	3	521	496	99	3	-3	-5	591	615	99	3	-1	5	293	281	99
3	-12	-6	-216	314	99	3	-9	5	214	248	99	3	-6	4	695	680	99	3	-3	-4	966	1016	99	3	-1	6	86	29	99
3	-12	-5	294	280	99	3	-9	6	61	103	99	3	-6	5	438	445	99	3	-3	-3	1223	1264	99	3	-1	7	547	565	99
3	-12	-4	443	310	99	3	-8	-10	146	168	99	3	-6	6	179	181	99	3	-3	-2	621	633	99	3	-1	8	625	640	99
3	-12	-3	295	297	99	3	-8	-9	428	433	99	3	-6	7	218	217	99	3	-3	-1	126	155	99	3	-1	9	-152	44	99
3	-12	-2	588	573	99	3	-8	-8	160	71	99	3	-6	8	323	343	99	3	-3	0	455	453	99	3	-1	10	178	228	99
3	-12	-1	112	192	99	3	-8	-7	456	525	99	3	-5	-11	-78	135	99	3	-3	1	1239	1212	99	3	0	-12	113	139	99
3	-12	0	-111	58	99	3	-8	-6	620	682	99	3	-5	-10	247	301	99	3	-3	2	453	456	99	3	0	-11	201	203	99
3	-12	1	149	124	99	3	-8	-5	280	265	99	3	-5	-9	509	504	99	3	-3	3	761	725	99	3	0	-10	428	416	99
3	-12	2	-47	173	99	3	-8	-4	300	309	99	3	-5	-8	258	198	99	3	-3	4	390	390	99	3	0	-9	141	114	99
3	-12	3	-110	153	99	3	-8	-3	512	504	99	3	-5	-7	548	585	99	3	-3	5	255	264	99	3	0	-8	511	492	99
3	-11	-8	-134	170	99	3	-8	-2	920	873	99	3	-5	-6	585	629	99	3	-3	6	-81	85	99	3	0	-7	394	401	99
3	-11	-7	-117	120	99	3	-8	-1	116	78	99	3	-5	-5	95	126	99	3	-3	7	331	348	99	3	0	-6	872	840	99
3	-11	-6	-158	65	99	3	-8	0	534	517	99	3	-5	-4	631	638	99	3	-3	8	401	409	99	3	0	-5	544	540	99
3	-11	-5	185	122	99	3	-8	1	592	577	99	3	-5	-3	1259	1242	99	3	-3	9	-34	52	99	3	0	-4	1292	1268	99
3	-11	-4	315	235	99	3	-8	2	466	444	99	3	-5	-2	1003	946	99	3	-2	-12	134	127	99	3	0	-3	1463	1449	99
3	-11	-3	232	273	99	3	-8	3	387	390	99	3	-5	-1	-91	68	99	3	-2	-11	33	160	99	3	0	-2	253	241	99
3	-11	-2	485	516	99	3	-8	4	280	261	99	3	-5	0	812	776	99	3	-2	-10	418	424	99	3	0	-1	503	484	99
3	-11	-1	120	46	99	3	-8	5	343	354	99	3	-5	1	1003	988	99	3	-2	-9	156	190	99	3	0	0	1425	1443	99
3	-11	0	208	156	99	3	-8	6	85	23	99	3	-5	2	226	218	99	3	-2	-8	119	89	99	3	0	1	1670	1713	99
3	-11	1	142	96	99	3	-8	7	179	165	99	3	-5	3	581	575	99	3	-2	-7	503	491	99	3	0	2	424	435	99
3	-11	2	232	184	99	3	-7	-11	-64	89	99	3	-5	4	852	808	99	3	-2	-6	750	757	99	3	0	3	1009	1010	99
3	-11	3	126	94	99	3	-7	-10	182	194	99	3	-5	5	516	525	99	3	-2	-5	471	473	99	3	0	4	684	684	99
3	-11	4	286	308	99	3	-7	-9	456	464	99	3	-5	6	220	214	99	3	-2	-4	259	274	99	3	0	5	304	282	99
3	-11	5	270	266	99	3	-7	-8	-81	114	99	3	-5	7	260	261	99	3	-2	-3	546	594	99	3	0	6	90	86	99
3	-10	-9	262	326	99	3	-7	-7	335	374	99	3	-5	8	298	324	99	3	-2	-2	157	157	99	3	0	7	706	693	99
3	-10	-8	-179	57	99	3	-7	-6	463	529	99	3	-5	9	44	41	99	3	-2	-1	142	93	99	3	0	8	589	557	99
3	-10	-7	289	329	99	3	-7	-5	764	825	99	3	-4	-11	225	246	99	3	-2	0	552	550	99	3	0	9	102	89	99
3	-10	-6	152	104	99	3	-7	-4	462	478	99	3	-4	-10	401	421	99	3	-2	1	1292	1274	99	3	0	10	160	129	99
3	-10	-5	115	175	99	3	-7	-3	480	466	99	3	-4	-9	391	381	99	3	-2	2	311	315	99	3	1	-12	-145	48	99
3	-10	-4	-29	90	99	3	-7	-2	772	746	99	3	-4	-8	65	157	99	3	-2	3	730	718	99	3	1	-11	306	316	99
3	-10	-3	366	389	99	3	-7	-1	151	142	99	3	-4	-7	463	487	99	3	-2	4	332	331	99	3	1	-10	579	543	99
3	-10	-2	496	489	99	3	-7	0	425	426	99	3	-4	-6	721	777	99	3	-2	5	116	93	99	3	1	-9	48	83	99
3	-10	-1	-46	47	99	3	-7	1	707	688	99	3	-4	-5	-19	135	99	3	-2	6	-41	19	99	3	1	-8	569	536	99
3	-10	0	374	397	99	3	-7	2	473	470	99	3	-4	-4	822	857	99	3	-2	7	443	472	99	3	1	-7	621	575	99
3	-10	1	349	338	99	3	-7	3	-146	24	99	3	-4	-3	1313	1323	99	3	-2	8	573	571	99	3	1	-6	925	878	99
3	-10	2	406	386	99	3	-7	4	312	304	99	3	-4	-2	811	810	99	3	-2	9	83	40	99	3	1	-5	508	474	99
3	-10	3	104	24	99	3	-7	5	389	378	99	3	-4	-1	-61	64	99	3	-2	10	141	141	99	3	1	-4	1683	1604	99
3	-10	4	366	335	99	3	-7	6	-176	87	99	3	-4	0	577	589	99	3	-1	-12	176	133	99	3	1	-3	1380	1297	99
3	-10	5	259	265	99	3	-7	7	180	202	99	3	-4	1	1097	1091	99	3	-1	-11	135	96	99	3	1	-2	170	169	99
3	-10	6	91	30	99	3	-7	8	269	294	99	3	-4	2	305	301	99	3	-1	-10	416	396	99	3	1	-1	448	454	99
3	-9	-10	184	52	99	3	-6	-11	281	64	99	3	-4	3	857	848	99	3	-1	-9	87	129	99	3	1	0	994	1028	99
3	-9	-9	277	312	99	3	-6	-10	114	224	99	3	-4	4	804	796	99	3	-1	-8	386	367	99	3	1	1	1941	1992	99
3	-9	-8	-51	69	99	3	-6	-9	424	416	99	3	-4	5	451	441	99	3	-1	-7	582	575	99	3	1	2	650	653	99
3	-9	-7	353	452	99	3	-6	-8	15	95	99	3	-4	6	170	170	99	3	-1	-6	675	658	99	3	1	3	1379	1346	99
3	-9	-6	350	387	99	3	-6	-7	386	432	99	3	-4	7	229	239	99	3	-1	-5	154	176	99	3	1	4	812	789	99
3	-9	-5	100	107	99	3	-6	-6	277	308	99	3	-4	8	359	371	99	3	-1	-4	493	503	99	3	1	5	359	322	99
3	-9	-4	135	83	99	3	-6	-5	286	334	99	3	-4	9	100	47	99	3	-1	-3	1065	1106	99	3	1	6	80	99	99
3	-9	-3	412	428	99	3	-6	-4	154	193	99	3	-3	-12	108	17	99	3	-1	-2	341	391	99	3	1	7	483	462	99
3	-9	-2	699	687	99	3	-6	-3	665	677	99	3	-3	-11	238	277	99	3	-1	-1	525	504	99	3	1	8	396	384	99
3	-9	-1	121	112	99	3	-6	-2	725	686	99	3	-3	-10	508	523	99	3	-1	0	1224	1217	99	3	1	9	65	26	99
3	-9	0	309	284	99	3	-6	-1	75	47	99	3	-3	-9	424	418	99	3	-1	1	1368	1381	99	3	1	10	191	214	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	2	-12	26	75	99	3	4	-1	744	727	99	3	6	10	133	142	99	3	9	4	586	597	99	3	13	-4	244	269	99
3	2	-11	340	317	99	3	4	0	1257	1259	99	3	7	-10	209	235	99	3	9	5	-166	35	99	3	13	-3	93	44	99
3	2	-10	592	577	99	3	4	1	746	734	99	3	7	-9	48	97	99	3	9	6	455	501	99	3	13	-2	128	169	99
3	2	-9	139	139	99	3	4	2	536	522	99	3	7	-8	411	409	99	3	9	7	346	372	99	3	13	-1	529	494	99
3	2	-8	199	189	99	3	4	3	1330	1275	99	3	7	-7	500	503	99	3	9	8	129	80	99	3	13	0	494	478	99
3	2	-7	735	705	99	3	4	4	814	785	99	3	7	-6	476	495	99	3	9	9	42	152	99	3	13	1	162	146	99
3	2	-6	884	826	99	3	4	5	42	127	99	3	7	-5	194	187	99	3	10	-9	44	54	99	3	13	2	514	473	99
3	2	-5	144	131	99	3	4	6	320	287	99	3	7	-4	582	598	99	3	10	-8	252	228	99	3	13	3	278	287	99
3	2	-4	1155	1138	99	3	4	7	726	705	99	3	7	-3	486	480	99	3	10	-7	384	361	99	3	13	4	40	70	99
3	2	-3	1708	1702	99	3	4	8	219	239	99	3	7	-2	111	90	99	3	10	-6	-90	39	99	3	13	5	141	198	99
3	2	-2	390	372	99	3	4	9	67	93	99	3	7	-1	722	754	99	3	10	-5	599	605	99	3	13	6	387	461	99
3	2	-1	167	165	99	3	4	10	255	234	99	3	7	0	901	893	99	3	10	-4	640	626	99	3	14	-5	338	306	99
3	2	0	189	169	99	3	5	-11	266	269	99	3	7	1	114	114	99	3	10	-3	177	171	99	3	14	-4	209	187	99
3	2	1	1153	1132	99	3	5	-10	333	340	99	3	7	2	357	349	99	3	10	-2	173	131	99	3	14	-3	150	91	99
3	2	2	22	16	99	3	5	-9	82	85	99	3	7	3	336	356	99	3	10	-1	509	517	99	3	14	-2	169	185	99
3	2	3	1137	1112	99	3	5	-8	436	427	99	3	7	4	446	454	99	3	10	0	843	852	99	3	14	-1	519	489	99
3	2	4	1026	973	99	3	5	-7	646	630	99	3	7	5	15	69	99	3	10	1	76	79	99	3	14	0	481	471	99
3	2	5	333	338	99	3	5	-6	346	343	99	3	7	6	569	581	99	3	10	2	545	546	99	3	14	1	199	149	99
3	2	6	228	228	99	3	5	-5	301	295	99	3	7	7	452	503	99	3	10	3	446	447	99	3	14	2	338	325	99
3	2	7	325	310	99	3	5	-4	1001	1006	99	3	7	8	119	101	99	3	10	4	374	391	99	3	14	3	204	230	99
3	2	8	292	279	99	3	5	-3	769	772	99	3	7	9	-113	119	99	3	10	5	264	268	99	3	14	4	150	74	99
3	2	9	210	197	99	3	5	-2	90	69	99	3	7	10	-171	147	99	3	10	6	252	293	99	3	14	5	60	100	99
3	2	10	336	332	99	3	5	-1	974	1001	99	3	8	-10	140	125	99	3	10	7	255	300	99	3	15	-3	-104	9	99
3	3	-11	283	320	99	3	5	0	1387	1356	99	3	8	-9	162	165	99	3	10	8	107	76	99	3	15	-2	117	197	99
3	3	-10	559	532	99	3	5	1	915	905	99	3	8	-8	321	324	99	3	11	-8	101	146	99	3	15	-1	324	309	99
3	3	-9	-43	74	99	3	5	2	206	208	99	3	8	-7	354	341	99	3	11	-7	292	283	99	3	15	0	296	282	99
3	3	-8	229	213	99	3	5	3	914	880	99	3	8	-6	133	120	99	3	11	-6	79	51	99	3	15	1	129	50	99
3	3	-7	131	124	99	3	5	4	659	639	99	3	8	-5	330	354	99	3	11	-5	475	460	99	3	15	2	337	309	99
3	3	-6	494	482	99	3	5	5	52	130	99	3	8	-4	663	650	99	3	11	-4	427	420	99	3	15	3	170	181	99
3	3	-5	104	107	99	3	5	6	435	452	99	3	8	-3	481	488	99	3	11	-3	366	372	99	3	15	4	-130	13	99
3	3	-4	1455	1417	99	3	5	7	540	557	99	3	8	-2	184	195	99	3	11	-2	148	184	99	4	-13	-4	-153	212	99
3	3	-3	1279	1274	99	3	5	8	364	352	99	3	8	-1	753	742	99	3	11	-1	361	352	99	4	-13	-3	457	534	99
3	3	-2	127	125	99	3	5	9	-52	54	99	3	8	0	762	782	99	3	11	0	556	570	99	4	-13	-2	160	92	99
3	3	-1	191	185	99	3	5	10	65	111	99	3	8	1	50	82	99	3	11	1	103	29	99	4	-13	-1	-93	136	99
3	3	0	771	772	99	3	6	-11	231	252	99	3	8	2	762	753	99	3	11	2	411	417	99	4	-13	0	228	139	99
3	3	1	441	448	99	3	6	-10	320	336	99	3	8	3	573	609	99	3	11	6	237	328	99	4	-12	-6	296	198	99
3	3	2	867	805	99	3	6	-9	123	83	99	3	8	4	470	477	99	3	11	7	110	266	99	4	-12	-5	88	10	99
3	3	3	1214	1165	99	3	6	-8	541	541	99	3	8	5	65	59	99	3	11	8	104	137	99	4	-12	-4	209	208	99
3	3	4	875	826	99	3	6	-7	690	689	99	3	8	6	630	619	99	3	12	-7	301	277	99	4	-12	-3	375	395	99
3	3	5	163	106	99	3	6	-6	518	505	99	3	8	7	414	455	99	3	12	-6	-96	7	99	4	-12	-2	260	297	99
3	3	6	254	260	99	3	6	-5	141	144	99	3	8	8	107	76	99	3	12	-5	369	377	99	4	-12	-1	172	38	99
3	3	7	542	520	99	3	6	-4	897	900	99	3	8	9	162	194	99	3	12	-4	242	213	99	4	-12	0	206	230	99
3	3	8	211	224	99	3	6	-3	738	757	99	3	9	-9	107	81	99	3	12	-3	37	116	99	4	-12	1	123	167	99
3	3	9	269	238	99	3	6	-2	-31	13	99	3	9	-8	280	273	99	3	12	-2	112	52	99	4	-12	2	117	43	99
3	3	10	283	316	99	3	6	-1	863	888	99	3	9	-7	399	406	99	3	12	-1	423	431	99	4	-11	-8	191	183	99
3	4	-11	341	341	99	3	6	0	1297	1267	99	3	9	-6	99	95	99	3	12	0	430	430	99	4	-11	-7	95	172	99
3	4	-10	502	479	99	3	6	1	996	940	99	3	9	-5	475	484	99	3	12	1	119	114	99	4	-11	-6	221	104	99
3	4	-9	77	25	99	3	6	2	88	62	99	3	9	-4	496	501	99	3	12	2	403	410	99	4	-11	-5	106	133	99
3	4	-8	488	467	99	3	6	3	558	540	99	3	9	-3	289	289	99	3	12	3	184	169	99	4	-11	-4	-149	55	99
3	4	-7	288	289	99	3	6	4	471	481	99	3	9	-2	-78	57	99	3	12	4	119	189	99	4	-11	-3	347	308	99
3	4	-6	275	294	99	3	6	5	36	58	99	3	9	-1	802	780	99	3	12	5	219	155	99	4	-11	-2	257	270	99
3	4	-5	129	93	99	3	6	6	569	595	99	3	9	0	772	775	99	3	12	6	442	457	99	4	-11	-1	147	174	99
3	4	-4	1155	1154	99	3	6	7	486	494	99	3	9	1	47	29	99	3	12	7	112	205	99	4	-11	0	209	212	99
3	4	-3	1061	1082	99	3	6	8	155	180	99	3	9	2	510	517	99	3	13	-6	-143	20	99	4	-11	1	231	234	99
3	4	-2	177	187	99	3	6	9	46	30	99	3	9	3	670	649	99	3	13	-5	332	307	99	4	-11	2	-95	14	99
4	-11	3	95	109	99	4	-7	-6	381	418	99	4	-4	-10	91	156	99	4	-2	2	435	435	99	4	1	-9	352	328	99
4	-11	4	120	105	99	4	-7	-5	92	196	99	4	-4	-9	252	234	99	4	-2	3	564	557	99	4	1	-8	496	474	99
4	-10	-9	206	86	99	4	-7	-4	934	947	99	4	-4	-8	287	262	99	4	-2	4	140	160	99	4	1	-7	632	597	99
4	-10	-8	-150	182	99	4	-7	-3	600	582	99	4	-4	-7	613	651	99	4	-2	5	24	35	99	4	1	-6	119	49	99
4	-10	-7	305	290	99	4	-7	-2	396	365	99	4	-4	-6	346	376	99	4	-2	6	419	443	99	4	1	-5	1092	1062	99
4	-10	-6	160	127	99	4	-7	-1	57	109	99	4	-4	-5	772	845	99	4	-2	7	491	511	99	4	1	-4	1784	1770	99
4	-10	-5	137	132	99	4	-7	0	679	660	99	4	-4	-4	917	964	99	4	-2	8	-79	61	99	4	1	-3	471	453	99
4	-10	-4	-21	167	99	4	-7	1	330	334	99	4	-4	-3	345	344	99	4	-2	9	106	137	99	4	1	-2	488	449	99
4	-10	-3	289	278	99	4	-7	2	454	457	99	4	-4	-2	137	144	99	4	-1	-12	-176	99	99	4	1	-1	1026	1058	99
4	-10	-2	191	84	99	4	-7	3	454	441	99	4	-4	-1	529	532	99	4	-1	-11	308	317	99	4	1	0	666	711	99
4	-10	-1	237	261	99	4	-7	4	275	289	99	4	-4	0	1232	1224	99	4	-1	-10	84	120	99	4	1	1	391	390	99
4	-10	0	438	433	99	4	-7	5	340	370	99	4	-4	1	564	561	99	4	-1	-9	357	358	99	4	1	2	1153	1167	99
4	-10	1	257	255	99	4	-7	6	162	124	99	4	-4	2	649	632	99	4	-1	-8	307	342	99	4	1	3	1182	1192	99
4	-10	2	-47	23	99	4	-7	7	325	327	99	4	-4	3	523	529	99	4	-1	-7	536	527	99	4	1	4	594	597	99
4	-10	3	140	206	99	4	-6	-11	242	315	99	4	-4	4	287	308	99	4	-1	-6	537	507	99	4	1	5	176	153	99
4	-10	4	-45	192	99	4	-6	-10	307	294	99	4	-4	5	189	189	99	4	-1	-5	905	944	99	4	1	6	335	339	99
4	-10	5	-58	105	99	4	-6	-9	158	90	99	4	-4	6	275	304	99	4	-1	-4	621	660	99	4	1	7	202	168	99
4	-9	-9	-139	25	99	4	-6	-8	110	121	99	4	-4	7	464	498	99	4	-1	-3	302	301	99	4	1	8	50	74	99
4	-9	-8	-90	196	99	4	-6	-7	337	376	99	4	-4	8	175	136	99	4	-1	-2	263	238	99	4	1	9	259	271	99
4	-9	-7	346	432	99	4	-6	-6	235	237	99	4	-3	-12	83	130	99	4	-1	-1	1093	1078	99	4	1	10	232	252	99
4	-9	-6	348	341	99	4	-6	-5	273	355	99	4	-3	-11	553	535	99	4	-1	0	1094	1122	99	4	2	-12	407	386	99
4	-9	-5	115	12	99	4	-6	-4	830	865	99	4	-3	-10	198	220	99	4	-1	1	107	73	99	4	2	-11	488	487	99
4	-9	-4	340	386	99	4	-6	-3	464	451	99	4	-3	-9	32	170	99	4	-1	2	949	954	99	4	2	-10	217	201	99
4	-9	-3	464	473	99	4	-6	-2	191	191	99	4	-3	-8	357	396	99	4	-1	3	816	809	99	4	2	-9	71	125	99
4	-9	-2	79	49	99	4	-6	-1	270	280	99	4	-3	-7	630	665	99	4	-1	4	213	234	99	4	2	-8	368	357	99
4	-9	-1	336	336	99	4	-6	0	633	645	99	4	-3	-6	509	542	99	4	-1	5	396	386	99	4	2	-7	461	438	99
4	-9	0	724	753	99	4	-6	1	199	173	99	4	-3	-5	212	231	99	4	-1	6	702	743	99	4	2	-6	176	168	99
4	-9	1	553	570	99	4	-6	2	662	639	99	4	-3	-4	1243	1312	99	4	-1	7	391	407	99	4	2	-5	995	982	99
4	-9	2	92	11	99	4	-6	3	627	640	99	4	-3	-3	268	286	99	4	-1	8	75	30	99	4	2	-4	1126	1151	99
4	-9	3	254	304	99	4	-6	4	150	149	99	4	-3	-2	144	142	99	4	-1	9	128	177	99	4	2	-3	857	845	99
4	-9	4	288	288	99	4	-6	5	-127	76	99	4	-3	-1	677	665	99	4	0	-12	103	129	99	4	2	-2	139	151	99
4	-9	5	-84	115	99	4	-6	6	57	144	99	4	-3	0	1386	1396	99	4	0	-11	390	376	99	4	2	-1	1337	1384	99
4	-9	6	-76	104	99	4	-6	7	309	341	99	4	-3	1	558	598	99	4	0	-10	94	49	99	4	2	0	664	708	99
4	-8	-10	222	244	99	4	-6	8	-78	34	99	4	-3	2	302	295	99	4	0	-9	420	404	99	4	2	1	253	244	99
4	-8	-9	152	69	99	4	-5	-11	189	244	99	4	-3	3	456	453	99	4	0	-8	570	559	99	4	2	2	752	734	99
4	-8	-8	-161	285	99	4	-5	-10	144	132	99	4	-3	4	315	308	99	4	0	-7	584	569	99	4	2	3	935	910	99
4	-8	-7	561	646	99	4	-5	-9	-179	140	99	4	-3	5	98	81	99	4	0	-6	-2	34	99	4	2	4	573	540	99
4	-8	-6	501	568	99	4	-5	-8	165	208	99	4	-3	6	439	437	99	4	0	-5	1015	1043	99	4	2	5	303	296	99
4	-8	-5	203	247	99	4	-5	-7	492	534	99	4	-3	7	516	535	99	4	0	-4	1113	1162	99	4	2	6	595	593	99
4	-8	-4	438	468	99	4	-5	-6	290	315	99	4	-3	8	92	80	99	4	0	-3	-22	91	99	4	2	7	126	80	99
4	-8	-3	534	519	99	4	-5	-5	835	914	99	4	-3	9	-117	119	99	4	0	-2	811	767	99	4	2	8	147	112	99
4	-8	-2	367	341	99	4	-5	-4	603	625	99	4	-2	-12	217	122	99	4	0	-1	818	839	99	4	2	9	180	136	99
4	-8	-1	340	356	99	4	-5	-3	150	145	99	4	-2	-11	465	453	99	4	0	0	1392	1426	99	4	2	10	241	278	99
4	-8	0	878	845	99	4	-5	-2	88	15	99	4	-2	-10	111	103	99	4	0	1	126	121	99	4	3	-12	215	198	99
4	-8	1	474	484	99	4	-5	-1	385	390	99	4	-2	-9	225	246	99	4	0	2	1266	1295	99	4	3	-11	413	411	99
4	-8	2	165	101	99	4	-5	0	1079	1079	99	4	-2	-8	253	272	99	4	0	3	1048	1096	99	4	3	-10	153	159	99
4	-8	3	306	314	99	4	-5	1	243	242	99	4	-2	-7	685	684	99	4	0	4	565	582	99	4	3	-9	286	274	99
4	-8	4	392	421	99	4	-5	2	884	892	99	4	-2	-6	723	733	99	4	0	5	122	125	99	4	3	-8	492	476	99
4	-8	5	250	239	99	4	-5	3	648	636	99	4	-2	-5	391	417	99	4	0	6	691	625	99	4	3	-7	345	353	99
4	-8	6	159	142	99	4	-5	4	319	310	99	4	-2	-4	1106	1146	99	4	0	7	492	437	99	4	3	-6	54	79	99
4	-7	-11	334	333	99	4	-5	5	152	130	99	4	-2	-3	310	331	99	4	0	8	-79	34	99	4	3	-5	815	801	99
4	-7	-10	348	374	99	4	-5	6	262	312	99	4	-2	-2	176	152	99	4	0	9	234	253	99	4	3	-4	610	616	99
4	-7	-9	296	294	99	4	-5	7	437	457	99	4	-2	-1	744	742	99	4	1	-12	223	266	99	4	3	-3	244	241	99
4	-7	-8	115	225	99	4	-5	8	85	87	99	4	-2	0	1054	1086	99	4	1	-11	565	569	99	4	3	-2	570	579	99
4	-7	-7	451	495	99	4	-4	-11	387	395	99	4	-2	1	513	519	99	4	1	-10	-48	125	99	4	3	-1	1159	1164	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF
4	3	0	627	614	99	4	6	-10	125	89	99	4	8	4	76	19	99	4	11	4	171	142	99	5	-12	-4	-284	166	99
4	3	1	486	468	99	4	6	-9	367	373	99	4	8	5	463	460	99	4	11	5	398	427	99	5	-12	-3	249	260	99
4	3	2	440	437	99	4	6	-8	649	668	99	4	8	6	434	470	99	4	11	6	285	299	99	5	-12	-2	-206	23	99
4	3	3	484	480	99	4	6	-7	435	458	99	4	8	7	89	39	99	4	11	7	-107	106	99	5	-12	-1	369	386	99
4	3	4	226	192	99	4	6	-6	373	383	99	4	8	8	323	348	99	4	11	8	136	185	99	5	-12	0	381	345	99
4	3	5	577	542	99	4	6	-5	706	708	99	4	8	9	297	313	99	4	12	-8	308	285	99	5	-11	-7	247	275	99
4	3	6	729	707	99	4	6	-4	551	559	99	4	9	-10	-35	44	99	4	12	-7	152	110	99	5	-11	-6	160	105	99
4	3	7	175	189	99	4	6	-3	51	64	99	4	9	-9	142	117	99	4	12	-6	233	235	99	5	-11	-5	-127	67	99
4	3	8	167	181	99	4	6	-2	787	836	99	4	9	-8	336	318	99	4	12	-5	296	246	99	5	-11	-4	15	145	99
4	3	9	197	152	99	4	6	-1	1313	1349	99	4	9	-7	-56	18	99	4	12	-4	90	32	99	5	-11	-3	17	111	99
4	3	10	197	237	99	4	6	0	397	407	99	4	9	-6	639	628	99	4	12	-3	206	190	99	5	-11	-2	139	44	99
4	4	-11	90	175	99	4	6	1	553	544	99	4	9	-5	534	522	99	4	12	-2	509	506	99	5	-11	-1	374	386	99
4	4	-10	100	32	99	4	6	2	625	618	99	4	9	-4	280	268	99	4	12	-1	463	480	99	5	-11	0	310	354	99
4	4	-9	387	383	99	4	6	3	749	721	99	4	9	-3	206	214	99	4	12	0	45	110	99	5	-11	1	85	14	99
4	4	-8	661	651	99	4	6	4	306	298	99	4	9	-2	563	570	99	4	12	1	311	288	99	5	-11	2	114	127	99
4	4	-7	284	283	99	4	6	5	628	635	99	4	9	-1	950	940	99	4	12	2	227	238	99	5	-10	-8	244	289	99
4	4	-6	269	264	99	4	6	6	515	521	99	4	9	0	175	173	99	4	12	3	121	58	99	5	-10	-7	360	344	99
4	4	-5	641	626	99	4	6	7	108	103	99	4	9	1	755	747	99	4	12	4	251	268	99	5	-10	-6	-146	182	99
4	4	-4	707	709	99	4	6	8	140	48	99	4	9	2	727	743	99	4	12	5	391	421	99	5	-10	-5	150	260	99
4	4	-3	166	164	99	4	6	9	100	133	99	4	9	3	517	504	99	4	12	6	123	186	99	5	-10	-4	217	204	99
4	4	-2	1089	1126	99	4	7	-11	70	124	99	4	9	4	138	101	99	4	12	7	173	79	99	5	-10	-3	-228	98	99
4	4	-1	1566	1583	99	4	7	-10	-36	37	99	4	9	5	408	454	99	4	13	-7	-56	38	99	5	-10	-2	197	133	99
4	4	0	688	687	99	4	7	-9	180	171	99	4	9	6	507	500	99	4	13	-6	261	263	99	5	-10	-1	531	562	99
4	4	1	661	666	99	4	7	-8	509	492	99	4	9	7	-121	32	99	4	13	-5	262	253	99	5	-10	0	419	416	99
4	4	2	800	773	99	4	7	-7	248	253	99	4	9	8	-102	117	99	4	13	-4	-103	23	99	5	-10	1	145	111	99
4	4	3	629	603	99	4	7	-6	446	446	99	4	10	-9	166	181	99	4	13	-3	411	399	99	5	-10	2	294	260	99
4	4	4	193	189	99	4	7	-5	592	604	99	4	10	-8	295	297	99	4	13	-2	469	449	99	5	-10	3	122	201	99
4	4	5	769	756	99	4	7	-4	366	365	99	4	10	-7	76	65	99	4	13	-1	281	284	99	5	-10	4	103	74	99
4	4	6	981	960	99	4	7	-3	162	171	99	4	10	-6	541	562	99	4	13	0	32	133	99	5	-9	-9	197	134	99
4	4	7	343	343	99	4	7	-2	459	448	99	4	10	-5	585	587	99	4	13	1	352	369	99	5	-9	-8	202	311	99
4	4	8	86	78	99	4	7	-1	838	850	99	4	10	-4	237	229	99	4	13	2	364	373	99	5	-9	-7	297	313	99
4	4	9	115	162	99	4	7	0	302	298	99	4	10	-3	63	41	99	4	13	3	-70	22	99	5	-9	-6	160	179	99
4	4	10	259	253	99	4	7	1	622	625	99	4	10	-2	394	384	99	4	13	4	392	381	99	5	-9	-5	573	591	99
4	5	-11	149	152	99	4	7	2	427	437	99	4	10	-1	750	710	99	4	13	5	347	367	99	5	-9	-4	339	355	99
4	5	-10	167	151	99	4	7	3	516	490	99	4	10	0	198	192	99	4	13	6	202	185	99	5	-9	-3	89	32	99
4	5	-9	432	443	99	4	7	4	258	222	99	4	10	1	642	641	99	4	14	-5	255	255	99	5	-9	-2	57	222	99
4	5	-8	637	663	99	4	7	5	493	487	99	4	10	2	577	584	99	4	14	-4	76	19	99	5	-9	-1	434	420	99
4	5	-7	451	465	99	4	7	6	411	413	99	4	10	3	345	350	99	4	14	-3	234	236	99	5	-9	0	366	388	99
4	5	-6	474	477	99	4	7	7	-157	40	99	4	10	4	-64	44	99	4	14	-2	328	323	99	5	-9	1	274	267	99
4	5	-5	756	767	99	4	7	8	291	294	99	4	10	5	437	448	99	4	14	-1	224	187	99	5	-9	2	419	445	99
4	5	-4	470	466	99	4	7	9	103	133	99	4	10	6	384	407	99	4	14	0	-76	57	99	5	-9	3	322	320	99
4	5	-3	190	190	99	4	8	-10	-95	24	99	4	10	7	-19	65	99	4	14	1	336	354	99	5	-9	4	189	185	99
4	5	-2	985	1029	99	4	8	-9	113	124	99	4	10	8	121	106	99	4	14	2	397	382	99	5	-9	5	154	105	99
4	5	-1	1822	1832	99	4	8	-8	356	346	99	4	11	-8	387	383	99	4	14	3	145	96	99	5	-8	-10	-211	111	99
4	5	0	440	434	99	4	8	-7	79	51	99	4	11	-7	131	136	99	4	14	4	272	227	99	5	-8	-9	188	172	99
4	5	1	324	330	99	4	8	-6	496	508	99	4	11	-6	360	346	99	4	14	5	170	176	99	5	-8	-8	318	403	99
4	5	2	626	605	99	4	8	-5	582	566	99	4	11	-5	427	426	99	4	15	-4	53	47	99	5	-8	-7	382	385	99
4	5	3	673	653	99	4	8	-4	214	190	99	4	11	-4	193	176	99	4	15	-3	148	128	99	5	-8	-6	258	295	99
4	5	4	317	287	99	4	8	-3	-87	22	99	4	11	-3	153	177	99	4	15	-2	229	223	99	5	-8	-5	945	972	99
4	5	5	687	673	99	4	8	-2	525	537	99	4	11	-2	601	610	99	4	15	-1	-111	53	99	5	-8	-4	453	431	99
4	5	6	839	818	99	4	8	-1	786	817	99	4	11	-1	611	594	99	4	15	0	37	56	99	5	-8	-3	280	202	99
4	5	7	194	157	99	4	8	0	154	166	99	4	11	0	240	214	99	4	15	1	284	271	99	5	-8	-2	73	129	99
4	5	8	168	78	99	4	8	1	772	764	99	4	11	1	384	400	99	4	15	2	286	352	99	5	-8	-1	692	672	99
4	5	9	-126	121	99	4	8	2	507	514	99	4	11	2	396	426	99	4	15	3	125	63	99	5	-8	0	325	287	99
4	6	-11	120	174	99	4	8	3	276	272	99	4	11	3	215	211	99	5	-12	-5	207	156	99	5	-8	1	463	439	99
5	-8	2	558	569	99	5	-5	4	75	49	99	5	-2	-2	843	836	99	5	1	-12	276	284	99	5	3	-1	355	383	99
5	-8	3	350	356	99	5	-5	5	413	435	99	5	-2	-1	619	647	99	5	1	-11	171	157	99	5	3	0	377	386	99
5	-8	4	253	223	99	5	-5	6	400	399	99	5	-2	0	230	222	99	5	1	-10	266	284	99	5	3	1	706	698	99
5	-8	5	87	58	99	5	-5	7	144	175	99	5	-2	1	488	466	99	5	1	-9	614	575	99	5	3	2	563	533	99
5	-7	-10	-164	62	99	5	-4	-11	-159	55	99	5	-2	2	800	771	99	5	1	-8	420	409	99	5	3	3	154	148	99
5	-7	-9	94	173	99	5	-4	-10	340	340	99	5	-2	3	395	406	99	5	1	-7	482	459	99	5	3	4	666	664	99
5	-7	-8	279	337	99	5	-4	-9	319	364	99	5	-2	4	168	157	99	5	1	-6	1028	1008	99	5	3	5	829	831	99
5	-7	-7	408	378	99	5	-4	-8	334	365	99	5	-2	5	516	519	99	5	1	-5	933	929	99	5	3	6	216	205	99
5	-7	-6	-106	171	99	5	-4	-7	306	277	99	5	-2	6	247	272	99	5	1	-4	708	708	99	5	3	7	105	114	99
5	-7	-5	552	598	99	5	-4	-6	227	284	99	5	-2	7	-94	25	99	5	1	-3	581	547	99	5	3	8	178	179	99
5	-7	-4	415	394	99	5	-4	-5	959	999	99	5	-2	8	177	182	99	5	1	-2	1393	1388	99	5	3	9	129	188	99
5	-7	-3	-85	134	99	5	-4	-4	398	373	99	5	-1	-12	342	324	99	5	1	-1	713	745	99	5	4	-12	-111	94	99
5	-7	-2	107	78	99	5	-4	-3	481	483	99	5	-1	-11	231	205	99	5	1	0	397	414	99	5	4	-11	92	21	99
5	-7	-1	569	575	99	5	-4	-2	747	728	99	5	-1	-10	-88	91	99	5	1	1	416	443	99	5	4	-10	200	193	99
5	-7	0	484	461	99	5	-4	-1	885	874	99	5	-1	-9	338	351	99	5	1	2	974	1000	99	5	4	-9	557	558	99
5	-7	1	334	309	99	5	-4	0	606	564	99	5	-1	-8	315	310	99	5	1	3	674	685	99	5	4	-8	388	383	99
5	-7	2	514	503	99	5	-4	1	211	203	99	5	-1	-7	46	34	99	5	1	4	421	424	99	5	4	-7	458	446	99
5	-7	3	193	139	99	5	-4	2	749	720	99	5	-1	-6	615	622	99	5	1	5	791	834	99	5	4	-6	697	687	99
5	-7	4	218	162	99	5	-4	3	438	437	99	5	-1	-5	939	943	99	5	1	6	334	348	99	5	4	-5	212	221	99
5	-7	5	-52	48	99	5	-4	4	181	200	99	5	-1	-4	260	269	99	5	1	7	-100	11	99	5	4	-4	-66	22	99
5	-7	6	231	296	99	5	-4	5	491	494	99	5	-1	-3	397	376	99	5	1	8	91	115	99	5	4	-3	863	866	99
5	-6	-11	245	290	99	5	-4	6	509	521	99	5	-1	-2	1119	1132	99	5	1	9	271	277	99	5	4	-2	1415	1404	99
5	-6	-10	-161	6	99	5	-4	7	202	216	99	5	-1	-1	714	738	99	5	2	-12	298	330	99	5	4	-1	509	526	99
5	-6	-9	92	159	99	5	-4	8	-128	32	99	5	-1	0	419	402	99	5	2	-11	125	66	99	5	4	0	345	359	99
5	-6	-8	297	293	99	5	-3	-12	290	288	99	5	-1	1	986	971	99	5	2	-10	160	191	99	5	4	1	880	883	99
5	-6	-7	323	278	99	5	-3	-11	169	231	99	5	-1	2	835	824	99	5	2	-9	690	656	99	5	4	2	643	624	99
5	-6	-6	273	338	99	5	-3	-10	292	296	99	5	-1	3	622	626	99	5	2	-8	753	719	99	5	4	3	-60	73	99
5	-6	-5	336	366	99	5	-3	-9	597	619	99	5	-1	4	242	269	99	5	2	-7	14	51	99	5	4	4	700	676	99
5	-6	-4	287	268	99	5	-3	-8	681	699	99	5	-1	5	528	534	99	5	2	-6	519	515	99	5	4	5	872	858	99
5	-6	-3	-131	91	99	5	-3	-7	516	513	99	5	-1	6	97	114	99	5	2	-5	850	846	99	5	4	6	81	139	99
5	-6	-2	418	422	99	5	-3	-6	308	336	99	5	-1	7	133	125	99	5	2	-4	516	522	99	5	4	7	112	84	99
5	-6	-1	434	458	99	5	-3	-5	845	915	99	5	-1	8	280	294	99	5	2	-3	422	407	99	5	4	8	273	295	99
5	-6	0	279	247	99	5	-3	-4	706	714	99	5	-1	9	363	402	99	5	2	-2	1555	1555	99	5	4	9	352	346	99
5	-6	1	322	327	99	5	-3	-3	269	261	99	5	0	-12	180	193	99	5	2	-1	1042	1096	99	5	5	-11	184	185	99
5	-6	2	484	471	99	5	-3	-2	955	959	99	5	0	-11	209	144	99	5	2	0	485	510	99	5	5	-10	221	214	99
5	-6	3	148	195	99	5	-3	-1	1070	1078	99	5	0	-10	113	107	99	5	2	1	266	269	99	5	5	-9	391	386	99
5	-6	4	75	10	99	5	-3	0	458	467	99	5	0	-9	362	345	99	5	2	2	343	358	99	5	5	-8	430	412	99
5	-6	5	177	211	99	5	-3	1	204	199	99	5	0	-8	249	235	99	5	2	3	546	545	99	5	5	-7	571	581	99
5	-6	6	254	273	99	5	-3	2	829	811	99	5	0	-7	391	383	99	5	2	4	387	375	99	5	5	-6	883	878	99
5	-6	7	156	116	99	5	-3	3	540	543	99	5	0	-6	838	854	99	5	2	5	852	845	99	5	5	-5	257	249	99
5	-5	-11	-70	87	99	5	-3	4	48	69	99	5	0	-5	886	887	99	5	2	6	359	344	99	5	5	-4	211	196	99
5	-5	-10	-160	170	99	5	-3	5	528	533	99	5	0	-4	775	763	99	5	2	7	-128	101	99	5	5	-3	549	676	99
5	-5	-9	127	100	99	5	-3	6	394	418	99	5	0	-3	309	277	99	5	2	8	-25	61	99	5	5	-2	1136	1176	99
5	-5	-8	219	190	99	5	-3	7	-14	124	99	5	0	-2	897	902	99	5	2	9	151	158	99	5	5	-1	719	734	99
5	-5	-7	331	315	99	5	-3	8	75	35	99	5	0	-1	538	556	99	5	3	-12	228	209	99	5	5	0	879	879	99
5	-5	-6	180	267	99	5	-2	-12	363	377	99	5	0	0	249	248	99	5	3	-11	-162	17	99	5	5	1	841	860	99
5	-5	-5	860	913	99	5	-2	-11	308	265	99	5	0	1	1121	1102	99	5	3	-10	255	252	99	5	5	2	660	659	99
5	-5	-4	296	306	99	5	-2	-10	27	174	99	5	0	2	1074	1098	99	5	3	-9	575	558	99	5	5	3	202	187	99
5	-5	-3	199	209	99	5	-2	-9	358	392	99	5	0	3	591	580	99	5	3	-8	407	382	99	5	5	4	628	594	99
5	-5	-2	379	407	99	5	-2	-8	469	478	99	5	0	4	277	268	99	5	3	-7	92	68	99	5	5	5	623	624	99
5	-5	-1	851	803	99	5	-2	-7	370	359	99	5	0	5	590	596	99	5	3	-6	492	484	99	5	5	6	219	203	99
5	-5	0	480	467	99	5	-2	-6	276	288	99	5	0	6	217	179	99	5	3	-5	381	381	99	5	5	7	-65	181	99
5	-5	1	455	443	99	5	-2	-5	685	712	99	5	0	7	107	141	99	5	3	-4	105	103	99	5	5	8	330	326	99
5	-5	2	461	469	99	5	-2	-4	519	523	99	5	0	8	192	255	99	5	3	-3	608	591	99	5	5	9	268	290	99
5	-5	3	336	338	99	5	-2	-3	237	205	99	5	0	9	288	334	99	5	3	-2	1563	1567	99	5	6	-11	40	110	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
5	6	-10	223	224	99	5	8	4	430	451	99	5	11	4	453	449	99	6	-11	-4	56	47	99	6	-7	0	168	95	99
5	6	-9	483	488	99	5	8	5	423	420	99	5	11	5	167	154	99	6	-11	-3	-53	50	99	6	-7	1	379	366	99
5	6	-8	265	284	99	5	8	6	-33	32	99	5	11	6	-119	39	99	6	-11	-2	173	118	99	6	-7	2	283	275	99
5	6	-7	520	496	99	5	8	7	256	271	99	5	11	7	113	83	99	6	-11	-1	363	402	99	6	-7	3	56	32	99
5	6	-6	844	864	99	5	8	8	412	466	99	5	12	-8	-96	25	99	6	-11	0	-61	30	99	6	-7	4	31	160	99
5	6	-5	626	630	99	5	9	-10	143	128	99	5	12	-7	248	229	99	6	-11	1	332	323	99	6	-7	5	223	218	99
5	6	-4	16	115	99	5	9	-9	239	231	99	5	12	-6	309	286	99	6	-10	-8	199	304	99	6	-6	-11	236	7	99
5	6	-3	449	456	99	5	9	-8	143	111	99	5	12	-5	79	74	99	6	-10	-7	121	8	99	6	-6	-10	108	134	99
5	6	-2	965	1011	99	5	9	-7	460	467	99	5	12	-4	288	283	99	6	-10	-6	373	458	99	6	-6	-9	236	318	99
5	6	-1	487	500	99	5	9	-6	564	559	99	5	12	-3	365	356	99	6	-10	-5	-139	131	99	6	-6	-8	308	283	99
5	6	0	678	692	99	5	9	-5	184	171	99	5	12	-2	210	202	99	6	-10	-4	127	109	99	6	-6	-7	-144	56	99
5	6	1	717	716	99	5	9	-4	186	194	99	5	12	-1	139	135	99	6	-10	-3	113	40	99	6	-6	-6	377	399	99
5	6	2	653	623	99	5	9	-3	642	643	99	5	12	0	371	355	99	6	-10	-2	277	242	99	6	-6	-5	309	321	99
5	6	3	354	353	99	5	9	-2	669	668	99	5	12	1	316	302	99	6	-10	-1	293	254	99	6	-6	-4	61	70	99
5	6	4	421	415	99	5	9	-1	167	150	99	5	12	2	146	112	99	6	-10	0	100	245	99	6	-6	-3	260	274	99
5	6	5	525	518	99	5	9	0	690	685	99	5	12	3	372	359	99	6	-10	1	390	438	99	6	-6	-2	521	513	99
5	6	6	204	197	99	5	9	1	664	655	99	5	12	4	241	316	99	6	-10	2	260	251	99	6	-6	-1	279	256	99
5	6	7	197	196	99	5	9	2	355	336	99	5	12	5	46	69	99	6	-9	-9	-69	86	99	6	-6	0	145	79	99
5	6	8	255	246	99	5	9	3	159	186	99	5	12	6	89	52	99	6	-9	-8	35	43	99	6	-6	1	360	344	99
5	6	9	237	236	99	5	9	4	627	619	99	5	13	-7	156	166	99	6	-9	-7	-68	148	99	6	-6	2	374	406	99
5	7	-11	-89	11	99	5	9	5	485	496	99	5	13	-6	201	189	99	6	-9	-6	481	572	99	6	-6	3	173	149	99
5	7	-10	71	85	99	5	9	6	120	171	99	5	13	-5	116	99	99	6	-9	-5	237	301	99	6	-6	4	422	424	99
5	7	-9	356	348	99	5	9	7	134	190	99	5	13	-4	218	202	99	6	-9	-4	54	144	99	6	-6	5	235	280	99
5	7	-8	212	212	99	5	9	8	315	332	99	5	13	-3	412	408	99	6	-9	-3	-220	164	99	6	-6	6	-78	150	99
5	7	-7	316	311	99	5	10	-9	250	251	99	5	13	-2	74	87	99	6	-9	-2	319	362	99	6	-5	-11	-117	89	99
5	7	-6	603	625	99	5	10	-8	-63	51	99	5	13	-1	171	186	99	6	-9	-1	225	188	99	6	-5	-10	279	211	99
5	7	-5	400	399	99	5	10	-7	291	288	99	5	13	0	368	345	99	6	-9	0	189	219	99	6	-5	-9	248	244	99
5	7	-4	209	215	99	5	10	-6	513	521	99	5	13	1	409	414	99	6	-9	1	528	531	99	6	-5	-8	258	225	99
5	7	-3	264	286	99	5	10	-5	213	205	99	5	13	2	178	146	99	6	-9	2	264	286	99	6	-5	-7	-106	56	99
5	7	-2	766	792	99	5	10	-4	409	442	99	5	13	3	280	276	99	6	-9	3	98	100	99	6	-5	-6	462	511	99
5	7	-1	85	80	99	5	10	-3	852	847	99	5	13	4	282	264	99	6	-9	4	-185	71	99	6	-5	-5	198	177	99
5	7	0	427	454	99	5	10	-2	737	692	99	5	13	5	-155	79	99	6	-8	-9	-135	108	99	6	-5	-4	461	484	99
5	7	1	778	781	99	5	10	-1	204	219	99	5	13	6	166	47	99	6	-8	-8	230	190	99	6	-5	-3	564	584	99
5	7	2	446	437	99	5	10	0	344	351	99	5	14	-6	179	178	99	6	-8	-7	72	168	99	6	-5	-2	684	706	99
5	7	3	22	26	99	5	10	1	695	682	99	5	14	-5	-12	84	99	6	-8	-6	610	634	99	6	-5	-1	318	312	99
5	7	4	265	261	99	5	10	2	269	266	99	5	14	-4	177	174	99	6	-8	-5	512	476	99	6	-5	0	260	230	99
5	7	5	392	385	99	5	10	3	365	374	99	5	14	-3	411	392	99	6	-8	-4	-119	28	99	6	-5	1	559	540	99
5	7	6	-49	49	99	5	10	4	621	636	99	5	14	-2	79	67	99	6	-8	-3	292	315	99	6	-5	2	339	328	99
5	7	7	211	263	99	5	10	5	352	352	99	5	14	-1	233	222	99	6	-8	-2	481	443	99	6	-5	3	54	102	99
5	7	8	328	317	99	5	10	6	192	147	99	5	14	0	255	256	99	6	-8	-1	362	346	99	6	-5	4	606	590	99
5	7	9	-76	173	99	5	10	7	-14	116	99	5	14	1	455	424	99	6	-8	0	-109	89	99	6	-5	5	474	476	99
5	8	-10	76	123	99	5	10	8	49	240	99	5	14	2	180	172	99	6	-8	1	320	379	99	6	-5	6	166	120	99
5	8	-9	236	243	99	5	11	-9	288	309	99	5	14	3	254	202	99	6	-8	2	255	225	99	6	-4	-11	259	235	99
5	8	-8	80	92	99	5	11	-8	98	63	99	5	14	4	278	272	99	6	-8	3	137	131	99	6	-4	-10	430	406	99
5	8	-7	412	397	99	5	11	-7	249	225	99	5	14	5	95	68	99	6	-8	4	-94	93	99	6	-4	-9	365	359	99
5	8	-6	569	568	99	5	11	-6	163	355	99	5	15	-4	161	194	99	6	-7	-10	186	268	99	6	-4	-8	-35	110	99
5	8	-5	288	281	99	5	11	-5	227	238	99	5	15	-3	333	342	99	6	-7	-9	61	201	99	6	-4	-7	259	309	99
5	8	-4	-45	31	99	5	11	-4	294	295	99	5	15	-2	178	142	99	6	-7	-8	285	333	99	6	-4	-6	597	619	99
5	8	-3	386	393	99	5	11	-3	587	603	99	5	15	-1	78	60	99	6	-7	-7	150	65	99	6	-4	-5	484	476	99
5	8	-2	625	628	99	5	11	-2	400	397	99	5	15	0	239	177	99	6	-7	-6	428	475	99	6	-4	-4	323	346	99
5	8	-1	90	76	99	5	11	-1	86	69	99	5	15	1	323	333	99	6	-7	-5	607	582	99	6	-4	-3	1122	1117	99
5	8	0	668	677	99	5	11	0	78	109	99	5	15	2	273	183	99	6	-7	-4	102	39	99	6	-4	-2	832	816	99
5	8	1	901	888	99	5	11	1	514	513	99	5	15	3	179	198	99	6	-7	-3	311	297	99	6	-4	-1	203	179	99
5	8	2	533	530	99	5	11	2	267	289	99	6	-11	-6	-227	253	99	6	-7	-2	315	311	99	6	-4	0	320	321	99
5	8	3	-27	121	99	5	11	3	373	374	99	6	-11	-5	283	296	99	6	-7	-1	507	468	99	6	-4	1	744	739	99
6	-4	2	571	548	99	6	-1	-4	132	130	99	6	2	-12	-114	19	99	6	4	1	595	578	99	6	7	-4	574	582	99
6	-4	3	-110	60	99	6	-1	-3	650	636	99	6	2	-11	273	254	99	6	4	2	73	115	99	6	7	-3	733	767	99
6	-4	4	551	541	99	6	-1	-2	589	584	99	6	2	-10	528	498	99	6	4	3	669	671	99	6	7	-2	199	157	99
6	-4	5	389	397	99	6	-1	-1	552	554	99	6	2	-9	546	509	99	6	4	4	621	588	99	6	7	-1	427	441	99
6	-4	6	-31	34	99	6	-1	0	855	863	99	6	2	-8	124	112	99	6	4	5	215	207	99	6	7	0	577	589	99
6	-4	7	66	92	99	6	-1	1	612	610	99	6	2	-7	890	871	99	6	4	6	170	200	99	6	7	1	678	659	99
6	-3	-12	-87	74	99	6	-1	2	429	428	99	6	2	-6	484	504	99	6	4	7	426	426	99	6	7	2	-60	62	99
6	-3	-11	74	82	99	6	-1	3	42	58	99	6	2	-5	65	73	99	6	4	8	359	351	99	6	7	3	466	448	99
6	-3	-10	360	427	99	6	-1	4	777	792	99	6	2	-4	338	332	99	6	5	-11	194	174	99	6	7	4	375	362	99
6	-3	-9	459	445	99	6	-1	5	278	281	99	6	2	-3	1143	1164	99	6	5	-10	261	253	99	6	7	5	126	134	99
6	-3	-8	97	44	99	6	-1	6	203	204	99	6	2	-2	972	1033	99	6	5	-9	73	125	99	6	7	6	-43	176	99
6	-3	-7	513	567	99	6	-1	7	193	245	99	6	2	-1	61	37	99	6	5	-8	353	328	99	6	7	7	344	375	99
6	-3	-6	734	763	99	6	-1	8	239	271	99	6	2	0	793	838	99	6	5	-7	896	874	99	6	7	8	68	189	99
6	-3	-5	607	596	99	6	0	-12	71	57	99	6	2	1	509	536	99	6	5	-6	427	438	99	6	8	-10	255	262	99
6	-3	-4	156	138	99	6	0	-11	-115	40	99	6	2	2	152	139	99	6	5	-5	156	153	99	6	8	-9	-27	73	99
6	-3	-3	884	865	99	6	0	-10	211	251	99	6	2	3	159	153	99	6	5	-4	501	501	99	6	8	-8	188	178	99
6	-3	-2	960	975	99	6	0	-9	447	437	99	6	2	4	824	831	99	6	5	-3	786	799	99	6	8	-7	420	424	99
6	-3	-1	46	25	99	6	0	-8	236	251	99	6	2	5	483	435	99	6	5	-2	274	283	99	6	8	-6	339	346	99
6	-3	0	611	577	99	6	0	-7	658	668	99	6	2	6	95	101	99	6	5	-1	546	554	99	6	8	-5	109	121	99
6	-3	1	555	550	99	6	0	-6	490	528	99	6	2	7	158	209	99	6	5	0	1163	1211	99	6	8	-4	722	748	99
6	-3	2	694	680	99	6	0	-5	190	187	99	6	2	8	112	219	99	6	5	1	850	845	99	6	8	-3	594	606	99
6	-3	3	-98	36	99	6	0	-4	595	569	99	6	3	-12	82	7	99	6	5	2	202	199	99	6	8	-2	49	37	99
6	-3	4	490	484	99	6	0	-3	1313	1300	99	6	3	-11	155	147	99	6	5	3	510	499	99	6	8	-1	367	367	99
6	-3	5	281	291	99	6	0	-2	792	794	99	6	3	-10	381	370	99	6	5	4	495	467	99	6	8	0	607	602	99
6	-3	6	-76	74	99	6	0	-1	450	441	99	6	3	-9	600	570	99	6	5	5	246	233	99	6	8	1	323	327	99
6	-3	7	167	169	99	6	0	0	767	770	99	6	3	-8	243	208	99	6	5	6	177	180	99	6	8	2	481	478	99
6	-2	-12	286	265	99	6	0	1	621	622	99	6	3	-7	709	680	99	6	5	7	397	426	99	6	8	3	944	924	99
6	-2	-11	-131	23	99	6	0	2	457	473	99	6	3	-6	390	385	99	6	5	8	294	307	99	6	8	4	374	376	99
6	-2	-10	358	379	99	6	0	3	390	370	99	6	3	-5	-60	87	99	6	6	-11	98	139	99	6	8	5	82	22	99
6	-2	-9	433	440	99	6	0	4	842	856	99	6	3	-4	361	350	99	6	6	-10	285	274	99	6	8	6	-18	97	99
6	-2	-8	-44	40	99	6	0	5	510	526	99	6	3	-3	1019	1040	99	6	6	-9	98	133	99	6	8	7	322	327	99
6	-2	-7	541	570	99	6	0	6	-41	24	99	6	3	-2	664	695	99	6	6	-8	365	355	99	6	8	8	165	178	99
6	-2	-6	553	602	99	6	0	7	137	127	99	6	3	-1	499	506	99	6	6	-7	730	731	99	6	9	-10	225	244	99
6	-2	-5	648	641	99	6	0	8	173	188	99	6	3	0	630	662	99	6	6	-6	627	637	99	6	9	-9	15	13	99
6	-2	-4	299	283	99	6	1	-12	199	140	99	6	3	1	339	360	99	6	6	-5	54	93	99	6	9	-8	234	215	99
6	-2	-3	680	676	99	6	1	-11	170	195	99	6	3	2	253	225	99	6	6	-4	546	537	99	6	9	-7	323	334	99
6	-2	-2	697	708	99	6	1	-10	531	509	99	6	3	3	448	431	99	6	6	-3	870	875	99	6	9	-6	-50	62	99
6	-2	-1	216	223	99	6	1	-9	539	489	99	6	3	4	665	636	99	6	6	-2	353	362	99	6	9	-5	403	424	99
6	-2	0	715	683	99	6	1	-8	138	106	99	6	3	5	231	210	99	6	6	-1	462	452	99	6	9	-4	789	809	99
6	-2	1	615	617	99	6	1	-7	753	745	99	6	3	6	94	110	99	6	6	0	1001	1017	99	6	9	-3	521	522	99
6	-2	2	500	496	99	6	1	-6	534	547	99	6	3	7	331	353	99	6	6	1	873	871	99	6	9	-2	36	19	99
6	-2	3	-133	52	99	6	1	-5	-13	107	99	6	3	8	237	276	99	6	6	2	190	165	99	6	9	-1	262	283	99
6	-2	4	418	419	99	6	1	-4	487	460	99	6	4	-12	127	147	99	6	6	3	323	343	99	6	9	0	720	725	99
6	-2	5	132	163	99	6	1	-3	1681	1641	99	6	4	-11	67	74	99	6	6	4	604	563	99	6	9	1	293	305	99
6	-2	6	166	175	99	6	1	-2	1230	1254	99	6	4	-10	324	285	99	6	6	5	159	163	99	6	9	2	511	502	99
6	-2	7	226	244	99	6	1	-1	329	329	99	6	4	-9	373	373	99	6	6	6	260	240	99	6	9	3	839	838	99
6	-2	8	230	271	99	6	1	0	608	642	99	6	4	-8	325	313	99	6	6	7	428	425	99	6	9	4	437	432	99
6	-1	-12	327	264	99	6	1	1	594	605	99	6	4	-7	534	531	99	6	6	8	312	306	99	6	9	5	-64	61	99
6	-1	-11	-122	33	99	6	1	2	584	588	99	6	4	-6	164	178	99	6	7	-11	172	169	99	6	9	6	155	114	99
6	-1	-10	234	250	99	6	1	3	605	601	99	6	4	-5	58	81	99	6	7	-10	283	276	99	6	9	7	287	319	99
6	-1	-9	420	430	99	6	1	4	848	864	99	6	4	-4	433	426	99	6	7	-9	146	173	99	6	9	8	3	151	99
6	-1	-8	77	115	99	6	1	5	405	408	99	6	4	-3	781	790	99	6	7	-8	377	363	99	6	10	-9	-83	17	99
6	-1	-7	565	588	99	6	1	6	-106	68	99	6	4	-2	472	487	99	6	7	-7	554	573	99	6	10	-8	328	313	99
6	-1	-6	440	469	99	6	1	7	-64	126	99	6	4	-1	763	773	99	6	7	-6	534	536	99	6	10	-7	313	298	99
6	-1	-5	411	419	99	6	1	8	204	192	99	6	4	0	974	974	99	6	7	-5	89	111	99	6	10	-6	201	210	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF
6	10	-5	368	390	99	6	13	3	382	388	99	7	-8	1	468	448	99	7	-4	-8	569	621	99	7	-1	-11	215	194	99
6	10	-4	776	775	99	6	13	4	-130	144	99	7	-8	2	230	149	99	7	-4	-7	358	401	99	7	-1	-10	492	451	99
6	10	-3	426	419	99	6	13	5	124	112	99	7	-8	3	236	266	99	7	-4	-6	264	262	99	7	-1	-9	97	15	99
6	10	-2	68	125	99	6	14	-6	79	88	99	7	-7	-10	380	402	99	7	-4	-5	235	173	99	7	-1	-8	504	526	99
6	10	-1	381	391	99	6	14	-5	152	137	99	7	-7	-9	206	152	99	7	-4	-4	706	727	99	7	-1	-7	405	395	99
6	10	0	557	543	99	6	14	-4	379	373	99	7	-7	-8	122	98	99	7	-4	-3	685	697	99	7	-1	-6	188	157	99
6	10	1	458	450	99	6	14	-3	170	169	99	7	-7	-7	247	311	99	7	-4	-2	456	459	99	7	-1	-5	227	260	99
6	10	2	325	330	99	6	14	-2	238	234	99	7	-7	-6	433	371	99	7	-4	-1	686	670	99	7	-1	-4	719	702	99
6	10	3	566	574	99	6	14	-1	348	341	99	7	-7	-5	283	178	99	7	-4	0	581	537	99	7	-1	-3	938	918	99
6	10	4	207	214	99	6	14	0	255	254	99	7	-7	-4	326	391	99	7	-4	1	600	576	99	7	-1	-2	-55	74	99
6	10	5	88	40	99	6	14	1	195	181	99	7	-7	-3	594	605	99	7	-4	2	-128	86	99	7	-1	-1	573	582	99
6	10	6	-183	119	99	6	14	2	219	227	99	7	-7	-2	321	286	99	7	-4	3	505	483	99	7	-1	0	417	425	99
6	10	7	266	312	99	6	14	3	412	417	99	7	-7	-1	129	73	99	7	-4	4	348	356	99	7	-1	1	324	315	99
6	11	-9	116	86	99	6	14	4	156	157	99	7	-7	0	180	163	99	7	-4	5	142	86	99	7	-1	2	590	555	99
6	11	-8	268	276	99	6	15	-4	387	370	99	7	-7	1	343	337	99	7	-4	6	260	250	99	7	-1	3	705	697	99
6	11	-7	234	215	99	6	15	-3	110	135	99	7	-7	2	171	136	99	7	-3	-11	266	229	99	7	-1	4	405	412	99
6	11	-6	253	270	99	6	15	-2	154	158	99	7	-7	3	359	370	99	7	-3	-10	452	412	99	7	-1	5	-127	35	99
6	11	-5	112	95	99	6	15	-1	289	275	99	7	-7	4	275	285	99	7	-3	-9	177	25	99	7	-1	6	112	180	99
6	11	-4	618	620	99	6	15	0	233	242	99	7	-6	-10	270	362	99	7	-3	-8	590	632	99	7	-1	7	155	194	99
6	11	-3	407	400	99	6	15	1	165	147	99	7	-6	-9	353	328	99	7	-3	-7	590	596	99	7	0	-12	108	135	99
6	11	-2	196	175	99	6	15	2	250	209	99	7	-6	-8	134	166	99	7	-3	-6	371	349	99	7	0	-11	220	211	99
6	11	-1	315	320	99	6	15	3	327	332	99	7	-6	-7	189	243	99	7	-3	-5	330	279	99	7	0	-10	426	364	99
6	11	0	341	337	99	7	-11	-4	113	78	99	7	-6	-6	262	192	99	7	-3	-4	735	745	99	7	0	-9	63	50	99
6	11	1	449	457	99	7	-11	-3	174	153	99	7	-6	-5	164	77	99	7	-3	-3	981	967	99	7	0	-8	560	581	99
6	11	2	163	159	99	7	-11	-2	-67	95	99	7	-6	-4	464	496	99	7	-3	-2	92	132	99	7	0	-7	355	356	99
6	11	3	411	419	99	7	-10	-7	133	282	99	7	-6	-3	750	772	99	7	-3	-1	799	755	99	7	0	-6	217	189	99
6	11	4	87	122	99	7	-10	-6	-277	265	99	7	-6	-2	54	157	99	7	-3	0	560	548	99	7	0	-5	415	414	99
6	11	5	83	26	99	7	-10	-5	-52	17	99	7	-6	-1	201	192	99	7	-3	1	564	563	99	7	0	-4	899	891	99
6	11	6	184	128	99	7	-10	-4	189	67	99	7	-6	0	212	153	99	7	-3	2	420	402	99	7	0	-3	636	650	99
6	11	7	226	196	99	7	-10	-3	138	165	99	7	-6	1	217	260	99	7	-3	3	533	534	99	7	0	-2	192	169	99
6	12	-8	164	159	99	7	-10	-2	59	43	99	7	-6	2	179	24	99	7	-3	4	317	319	99	7	0	-1	562	587	99
6	12	-7	219	231	99	7	-10	-1	-123	101	99	7	-6	3	549	554	99	7	-3	5	90	84	99	7	0	0	591	586	99
6	12	-6	173	162	99	7	-10	0	100	188	99	7	-6	4	344	345	99	7	-3	6	147	157	99	7	0	1	155	111	99
6	12	-5	-59	77	99	7	-10	1	133	234	99	7	-6	5	-165	52	99	7	-3	7	222	247	99	7	0	2	540	542	99
6	12	-4	394	390	99	7	-9	-8	-194	69	99	7	-5	-11	196	191	99	7	-2	-12	-68	23	99	7	0	3	844	812	99
6	12	-3	208	210	99	7	-9	-7	186	176	99	7	-5	-10	301	312	99	7	-2	-11	212	231	99	7	0	4	441	455	99
6	12	-2	169	179	99	7	-9	-6	227	276	99	7	-5	-9	-171	48	99	7	-2	-10	501	493	99	7	0	5	-65	10	99
6	12	-1	244	227	99	7	-9	-5	-158	25	99	7	-5	-8	217	230	99	7	-2	-9	114	38	99	7	0	6	264	293	99
6	12	0	326	331	99	7	-9	-4	208	324	99	7	-5	-7	235	220	99	7	-2	-8	523	534	99	7	0	7	272	295	99
6	12	1	176	186	99	7	-9	-3	310	231	99	7	-5	-6	246	254	99	7	-2	-7	423	414	99	7	1	-12	279	262	99
6	12	2	98	158	99	7	-9	-2	51	85	99	7	-5	-5	106	17	99	7	-2	-6	449	423	99	7	1	-11	362	319	99
6	12	3	296	289	99	7	-9	-1	-119	141	99	7	-5	-4	418	444	99	7	-2	-5	150	117	99	7	1	-10	424	372	99
6	12	4	-95	69	99	7	-9	0	-85	222	99	7	-5	-3	621	602	99	7	-2	-4	662	656	99	7	1	-9	139	144	99
6	12	5	68	143	99	7	-9	1	156	237	99	7	-5	-2	120	32	99	7	-2	-3	689	689	99	7	1	-8	698	725	99
6	12	6	97	192	99	7	-9	2	-132	89	99	7	-5	-1	471	464	99	7	-2	-2	-93	57	99	7	1	-7	561	563	99
6	13	-7	144	141	99	7	-8	-9	137	71	99	7	-5	0	396	387	99	7	-2	-1	532	521	99	7	1	-6	115	101	99
6	13	-6	169	149	99	7	-8	-8	-173	138	99	7	-5	1	436	422	99	7	-2	0	453	442	99	7	1	-5	493	479	99
6	13	-5	63	81	99	7	-8	-7	227	287	99	7	-5	2	61	16	99	7	-2	1	423	403	99	7	1	-4	1242	1223	99
6	13	-4	198	186	99	7	-8	-6	350	298	99	7	-5	3	486	456	99	7	-2	2	64	44	99	7	1	-3	695	703	99
6	13	-3	58	110	99	7	-8	-5	-63	99	99	7	-5	4	354	377	99	7	-2	3	515	514	99	7	1	-2	482	458	99
6	13	-2	273	277	99	7	-8	-4	384	412	99	7	-5	5	-54	121	99	7	-2	4	270	258	99	7	1	-1	846	865	99
6	13	-1	316	302	99	7	-8	-3	553	568	99	7	-5	6	110	167	99	7	-2	5	-117	82	99	7	1	0	653	698	99
6	13	0	401	385	99	7	-8	-2	255	244	99	7	-4	-11	231	229	99	7	-2	6	-92	112	99	7	1	1	140	149	99
6	13	1	82	130	99	7	-8	-1	-54	109	99	7	-4	-10	348	358	99	7	-2	7	201	203	99	7	1	2	342	353	99
6	13	2	238	240	99	7	-8	0	324	305	99	7	-4	-9	111	200	99	7	-1	-12	-88	77	99	7	1	3	881	905	99
7	1	4	422	410	99	7	4	-4	647	636	99	7	7	-9	165	167	99	7	10	-7	169	163	99	7	13	3	96	136	99
7	1	5	118	82	99	7	4	-3	89	103	99	7	7	-8	397	392	99	7	10	-6	137	117	99	7	13	4	110	90	99
7	1	6	194	201	99	7	4	-2	457	459	99	7	7	-7	226	229	99	7	10	-5	574	597	99	7	13	5	271	266	99
7	1	7	351	384	99	7	4	-1	864	891	99	7	7	-6	40	45	99	7	10	-4	400	395	99	7	14	-6	253	245	99
7	1	8	-77	28	99	7	4	0	770	812	99	7	7	-5	763	776	99	7	10	-3	186	222	99	7	14	-5	297	295	99
7	2	-12	254	196	99	7	4	1	183	186	99	7	7	-4	737	754	99	7	10	-2	436	446	99	7	14	-4	143	149	99
7	2	-11	406	382	99	7	4	2	474	454	99	7	7	-3	93	79	99	7	10	-1	482	508	99	7	14	-3	125	110	99
7	2	-10	380	333	99	7	4	3	555	529	99	7	7	-2	162	161	99	7	10	0	489	465	99	7	14	-2	377	353	99
7	2	-9	103	108	99	7	4	4	35	45	99	7	7	-1	539	536	99	7	10	1	196	188	99	7	14	-1	283	278	99
7	2	-8	457	445	99	7	4	5	207	225	99	7	7	0	457	466	99	7	10	2	617	630	99	7	14	0	57	66	99
7	2	-7	472	473	99	7	4	6	482	498	99	7	7	1	312	304	99	7	10	3	307	305	99	7	14	1	327	316	99
7	2	-6	237	235	99	7	4	7	440	452	99	7	7	2	847	841	99	7	10	4	78	14	99	7	14	2	363	358	99
7	2	-5	492	508	99	7	4	8	-132	50	99	7	7	3	432	421	99	7	10	5	260	251	99	7	14	3	58	153	99
7	2	-4	856	837	99	7	5	-11	177	182	99	7	7	4	82	72	99	7	10	6	343	331	99	7	15	-4	142	166	99
7	2	-3	710	724	99	7	5	-10	25	76	99	7	7	5	96	56	99	7	10	7	134	205	99	7	15	-3	67	46	99
7	2	-2	-62	82	99	7	5	-9	408	383	99	7	7	6	172	258	99	7	11	-9	264	266	99	7	15	-2	254	257	99
7	2	-1	717	733	99	7	5	-8	423	409	99	7	7	7	178	130	99	7	11	-8	260	281	99	7	15	-1	262	250	99
7	2	0	727	793	99	7	5	-7	679	663	99	7	8	-10	72	46	99	7	11	-7	183	169	99	7	15	0	55	61	99
7	2	1	105	119	99	7	5	-6	-45	34	99	7	8	-9	237	250	99	7	11	-6	-56	42	99	7	15	1	277	253	99
7	2	2	461	448	99	7	5	-5	782	780	99	7	8	-8	177	170	99	7	11	-5	459	449	99	7	15	2	237	265	99
7	2	3	413	395	99	7	5	-4	786	777	99	7	8	-7	177	156	99	7	11	-4	412	413	99	8	-10	-5	289	130	99
7	2	4	333	320	99	7	5	-3	133	109	99	7	8	-6	207	214	99	7	11	-3	163	172	99	8	-10	-4	269	245	99
7	2	5	-46	63	99	7	5	-2	554	543	99	7	8	-5	757	780	99	7	11	-2	389	378	99	8	-10	-3	20	75	99
7	2	6	254	270	99	7	5	-1	753	747	99	7	8	-4	586	591	99	7	11	-1	409	422	99	8	-10	-2	148	61	99
7	2	7	310	308	99	7	5	0	1062	1057	99	7	8	-3	51	70	99	7	11	0	314	285	99	8	-9	-7	168	89	99
7	2	8	88	25	99	7	5	1	105	13	99	7	8	-2	316	307	99	7	11	1	-94	49	99	8	-9	-6	179	104	99
7	3	-12	55	119	99	7	5	2	892	866	99	7	8	-1	397	391	99	7	11	2	325	319	99	8	-9	-5	373	351	99
7	3	-11	377	330	99	7	5	3	626	604	99	7	8	0	275	291	99	7	11	3	320	332	99	8	-9	-4	395	422	99
7	3	-10	305	273	99	7	5	4	159	103	99	7	8	1	303	314	99	7	11	4	52	22	99	8	-9	-3	-208	71	99
7	3	-9	100	124	99	7	5	5	147	167	99	7	8	2	738	732	99	7	11	5	219	222	99	8	-9	-2	189	121	99
7	3	-8	551	518	99	7	5	6	495	485	99	7	8	3	379	368	99	7	11	6	195	243	99	8	-9	-1	134	150	99
7	3	-7	333	304	99	7	5	7	409	431	99	7	8	4	101	121	99	7	12	-8	161	163	99	8	-9	0	310	202	99
7	3	-6	107	123	99	7	5	8	-134	10	99	7	8	5	62	119	99	7	12	-7	176	207	99	8	-9	1	276	104	99
7	3	-5	460	445	99	7	6	-11	411	379	99	7	8	6	349	338	99	7	12	-6	87	76	99	8	-8	-8	308	256	99
7	3	-4	608	601	99	7	6	-10	-76	30	99	7	8	7	169	189	99	7	12	-5	358	354	99	8	-8	-7	93	158	99
7	3	-3	327	328	99	7	6	-9	323	300	99	7	9	-10	89	70	99	7	12	-4	233	219	99	8	-8	-6	-99	156	99
7	3	-2	232	239	99	7	6	-8	473	475	99	7	9	-9	255	269	99	7	12	-3	157	188	99	8	-8	-5	170	330	99
7	3	-1	701	708	99	7	6	-7	600	585	99	7	9	-8	130	117	99	7	12	-2	405	402	99	8	-8	-4	646	667	99
7	3	0	751	800	99	7	6	-6	43	88	99	7	9	-7	177	209	99	7	12	-1	396	409	99	8	-8	-3	-176	206	99
7	3	1	294	292	99	7	6	-5	957	954	99	7	9	-6	156	171	99	7	12	0	182	173	99	8	-8	-2	-170	153	99
7	3	2	601	608	99	7	6	-4	893	878	99	7	9	-5	645	658	99	7	12	1	195	177	99	8	-8	-1	141	211	99
7	3	3	280	277	99	7	6	-3	115	109	99	7	9	-4	361	371	99	7	12	2	293	304	99	8	-8	0	301	246	99
7	3	4	-89	67	99	7	6	-2	315	310	99	7	9	-3	218	211	99	7	12	3	96	182	99	8	-8	1	-242	45	99
7	3	5	139	97	99	7	6	-1	720	711	99	7	9	-2	449	445	99	7	12	4	72	96	99	8	-8	2	387	374	99
7	3	6	520	492	99	7	6	0	918	919	99	7	9	-1	456	444	99	7	12	5	213	251	99	8	-7	-9	263	278	99
7	3	7	417	416	99	7	6	1	87	41	99	7	9	0	408	388	99	7	13	-7	28	70	99	8	-7	-8	187	178	99
7	3	8	-23	14	99	7	6	2	901	896	99	7	9	1	370	347	99	7	13	-6	141	141	99	8	-7	-7	171	186	99
7	4	-12	-69	51	99	7	6	3	567	537	99	7	9	2	679	635	99	7	13	-5	345	335	99	8	-7	-6	-45	95	99
7	4	-11	106	138	99	7	6	4	268	233	99	7	9	3	201	180	99	7	13	-4	161	151	99	8	-7	-5	224	252	99
7	4	-10	190	149	99	7	6	5	137	47	99	7	9	4	97	69	99	7	13	-3	155	134	99	8	-7	-4	617	643	99
7	4	-9	235	214	99	7	6	6	266	291	99	7	9	5	288	264	99	7	13	-2	342	322	99	8	-7	-3	269	276	99
7	4	-8	603	564	99	7	6	7	326	296	99	7	9	6	325	353	99	7	13	-1	329	316	99	8	-7	-2	261	214	99
7	4	-7	561	551	99	7	6	8	122	117	99	7	9	7	124	159	99	7	13	0	128	92	99	8	-7	-1	271	236	99
7	4	-6	138	156	99	7	7	-11	359	343	99	7	10	-9	291	312	99	7	13	1	301	299	99	8	-7	0	325	277	99
7	4	-5	398	385	99	7	7	-10	-28	93	99	7	10	-8	260	256	99	7	13	2	356	369	99	8	-7	1	-177	68	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
8	-7	2	282	324	99	8	-3	-6	261	288	99	8	0	-7	47	27	99	8	3	-12	283	262	99	8	5	5	370	379	99
8	-7	3	305	323	99	8	-3	-5	366	386	99	8	0	-6	596	604	99	8	3	-11	147	127	99	8	5	6	223	239	99
8	-6	-10	305	211	99	8	-3	-4	681	683	99	8	0	-5	683	689	99	8	3	-10	191	190	99	8	5	7	167	189	99
8	-6	-9	-170	161	99	8	-3	-3	234	248	99	8	0	-4	327	323	99	8	3	-9	333	350	99	8	6	-11	-87	13	99
8	-6	-8	312	321	99	8	-3	-2	527	533	99	8	0	-3	165	168	99	8	3	-8	687	662	99	8	6	-10	342	328	99
8	-6	-7	240	170	99	8	-3	-1	679	656	99	8	0	-2	531	538	99	8	3	-7	464	474	99	8	6	-9	323	290	99
8	-6	-6	207	141	99	8	-3	0	351	311	99	8	0	-1	737	784	99	8	3	-6	264	280	99	8	6	-8	163	170	99
8	-6	-5	206	161	99	8	-3	1	226	211	99	8	0	0	30	68	99	8	3	-5	720	694	99	8	6	-7	131	72	99
8	-6	-4	478	490	99	8	-3	2	457	413	99	8	0	1	690	649	99	8	3	-4	105	61	99	8	6	-6	737	736	99
8	-6	-3	41	30	99	8	-3	3	405	405	99	8	0	2	529	523	99	8	3	-3	317	307	99	8	6	-5	966	973	99
8	-6	-2	396	391	99	8	-3	4	145	168	99	8	0	3	242	270	99	8	3	-2	581	580	99	8	6	-4	-77	69	99
8	-6	-1	325	287	99	8	-3	5	-89	105	99	8	0	4	-33	27	99	8	3	-1	942	972	99	8	6	-3	342	328	99
8	-6	0	379	349	99	8	-3	6	227	276	99	8	0	5	204	257	99	8	3	0	354	369	99	8	6	-2	581	572	99
8	-6	1	180	152	99	8	-2	-11	454	415	99	8	0	6	401	418	99	8	3	1	655	652	99	8	6	-1	417	424	99
8	-6	2	132	160	99	8	-2	-10	173	86	99	8	0	7	139	19	99	8	3	2	502	512	99	8	6	0	220	208	99
8	-6	3	151	235	99	8	-2	-9	368	395	99	8	1	-12	309	284	99	8	3	3	185	166	99	8	6	1	726	709	99
8	-6	4	-229	54	99	8	-2	-8	537	531	99	8	1	-11	-82	87	99	8	3	4	66	104	99	8	6	2	723	693	99
8	-5	-10	81	20	99	8	-2	-7	272	216	99	8	1	-10	186	193	99	8	3	5	331	352	99	8	6	3	99	149	99
8	-5	-9	135	215	99	8	-2	-6	206	232	99	8	1	-9	411	420	99	8	3	6	434	429	99	8	6	4	82	67	99
8	-5	-8	290	295	99	8	-2	-5	590	609	99	8	1	-8	421	424	99	8	3	7	-188	19	99	8	6	5	309	326	99
8	-5	-7	240	186	99	8	-2	-4	567	569	99	8	1	-7	102	107	99	8	4	-11	133	46	99	8	6	6	191	229	99
8	-5	-6	220	163	99	8	-2	-3	207	216	99	8	1	-6	613	616	99	8	4	-10	168	174	99	8	6	7	175	158	99
8	-5	-5	322	394	99	8	-2	-2	307	317	99	8	1	-5	723	712	99	8	4	-9	281	245	99	8	7	-11	-140	30	99
8	-5	-4	345	337	99	8	-2	-1	624	609	99	8	1	-4	543	545	99	8	4	-8	454	441	99	8	7	-10	263	278	99
8	-5	-3	133	203	99	8	-2	0	281	249	99	8	1	-3	104	117	99	8	4	-7	-54	51	99	8	7	-9	291	249	99
8	-5	-2	507	489	99	8	-2	1	476	460	99	8	1	-2	616	620	99	8	4	-6	722	680	99	8	7	-8	245	245	99
8	-5	-1	470	446	99	8	-2	2	480	476	99	8	1	-1	819	818	99	8	4	-5	440	434	99	8	7	-7	113	97	99
8	-5	0	302	289	99	8	-2	3	338	334	99	8	1	0	262	283	99	8	4	-4	-108	60	99	8	7	-6	606	599	99
8	-5	1	-25	71	99	8	-2	4	249	235	99	8	1	1	531	517	99	8	4	-3	403	388	99	8	7	-5	639	652	99
8	-5	2	337	301	99	8	-2	5	-74	161	99	8	1	2	516	492	99	8	4	-2	601	593	99	8	7	-4	141	150	99
8	-5	3	210	210	99	8	-2	6	134	189	99	8	1	3	364	370	99	8	4	-1	752	769	99	8	7	-3	326	324	99
8	-5	4	-102	72	99	8	-1	-12	166	173	99	8	1	4	82	23	99	8	4	0	59	19	99	8	7	-2	495	491	99
8	-5	5	299	255	99	8	-1	-11	289	304	99	8	1	5	433	432	99	8	4	1	867	889	99	8	7	-1	324	326	99
8	-4	-11	-386	156	99	8	-1	-10	229	178	99	8	1	6	486	464	99	8	4	2	538	545	99	8	7	0	208	191	99
8	-4	-10	145	26	99	8	-1	-9	96	207	99	8	1	7	128	59	99	8	4	3	206	186	99	8	7	1	569	564	99
8	-4	-9	504	536	99	8	-1	-8	357	372	99	8	2	-12	294	326	99	8	4	4	230	243	99	8	7	2	356	339	99
8	-4	-8	338	361	99	8	-1	-7	103	35	99	8	2	-11	158	160	99	8	4	5	381	388	99	8	7	3	32	39	99
8	-4	-7	117	125	99	8	-1	-6	309	305	99	8	2	-10	210	207	99	8	4	6	309	291	99	8	7	4	178	121	99
8	-4	-6	50	32	99	8	-1	-5	692	679	99	8	2	-9	417	419	99	8	4	7	-140	56	99	8	7	5	319	326	99
8	-4	-5	565	579	99	8	-1	-4	347	353	99	8	2	-8	554	551	99	8	5	-11	112	24	99	8	7	6	136	139	99
8	-4	-4	646	632	99	8	-1	-3	75	29	99	8	2	-7	424	418	99	8	5	-10	293	270	99	8	7	7	141	70	99
8	-4	-3	-126	71	99	8	-1	-2	355	362	99	8	2	-6	425	425	99	8	5	-9	353	323	99	8	8	-10	239	215	99
8	-4	-2	522	527	99	8	-1	-1	570	551	99	8	2	-5	905	895	99	8	5	-8	223	202	99	8	8	-9	227	211	99
8	-4	-1	626	593	99	8	-1	0	66	95	99	8	2	-4	95	106	99	8	5	-7	108	76	99	8	8	-8	168	157	99
8	-4	0	401	368	99	8	-1	1	508	494	99	8	2	-3	152	144	99	8	5	-6	905	892	99	8	8	-7	25	38	99
8	-4	1	13	37	99	8	-1	2	590	564	99	8	2	-2	623	636	99	8	5	-5	902	915	99	8	8	-6	361	367	99
8	-4	2	491	471	99	8	-1	3	199	192	99	8	2	-1	955	994	99	8	5	-4	55	38	99	8	8	-5	322	322	99
8	-4	3	278	304	99	8	-1	4	162	106	99	8	2	0	363	379	99	8	5	-3	500	512	99	8	8	-4	-30	41	99
8	-4	4	-160	16	99	8	-1	5	170	194	99	8	2	1	371	365	99	8	5	-2	611	593	99	8	8	-3	435	432	99
8	-4	5	165	145	99	8	-1	6	316	334	99	8	2	2	390	379	99	8	5	-1	644	644	99	8	8	-2	515	479	99
8	-3	-11	288	301	99	8	0	-12	-159	167	99	8	2	3	28	84	99	8	5	0	217	209	99	8	8	-1	290	286	99
8	-3	-10	-96	55	99	8	0	-11	-142	75	99	8	2	4	71	57	99	8	5	1	945	951	99	8	8	0	139	151	99
8	-3	-9	428	463	99	8	0	-10	103	80	99	8	2	5	421	450	99	8	5	2	630	627	99	8	8	1	502	484	99
8	-3	-8	609	594	99	8	0	-9	228	229	99	8	2	6	446	497	99	8	5	3	245	204	99	8	8	2	288	292	99
8	-3	-7	334	274	99	8	0	-8	291	289	99	8	2	7	142	120	99	8	5	4	154	162	99	8	8	3	86	16	99
8	8	4	371	384	99	8	12	-5	200	180	99	9	-7	-4	165	192	99	9	-3	-5	349	356	99	9	0	-1	278	292	99
8	8	5	339	348	99	8	12	-4	37	38	99	9	-7	-3	204	257	99	9	-3	-4	254	279	99	9	0	0	433	408	99
8	8	6	31	87	99	8	12	-3	270	281	99	9	-7	-2	314	373	99	9	-3	-3	209	265	99	9	0	1	542	523	99
8	8	7	*164	44	99	8	12	-2	401	401	99	9	-7	-1	322	302	99	9	-3	-2	687	671	99	9	0	2	123	155	99
8	9	-10	250	244	99	8	12	-1	-81	16	99	9	-7	0	-266	124	99	9	-3	-1	328	301	99	9	0	3	104	126	99
8	9	-9	225	229	99	8	12	0	372	374	99	9	-7	1	-153	66	99	9	-3	0	367	380	99	9	0	4	350	376	99
8	9	-8	87	70	99	8	12	1	309	299	99	9	-7	2	32	137	99	9	-3	1	483	474	99	9	0	5	389	395	99
8	9	-7	110	101	99	8	12	2	-111	154	99	9	-6	-9	315	416	99	9	-3	2	293	261	99	9	0	6	115	180	99
8	9	-6	405	427	99	8	12	3	43	42	99	9	-6	-8	420	402	99	9	-3	3	260	254	99	9	1	-11	222	223	99
8	9	-5	304	319	99	8	12	4	275	249	99	9	-6	-7	71	111	99	9	-3	4	-138	70	99	9	1	-10	306	303	99
8	9	-4	240	247	99	8	12	5	242	249	99	9	-6	-6	-50	123	99	9	-3	5	145	253	99	9	1	-9	336	321	99
8	9	-3	503	516	99	8	13	-7	192	215	99	9	-6	-5	246	228	99	9	-2	-11	117	7	99	9	1	-8	262	274	99
8	9	-2	509	513	99	8	13	-6	272	259	99	9	-6	-4	230	106	99	9	-2	-10	128	249	99	9	1	-7	330	341	99
8	9	-1	279	274	99	8	13	-5	137	126	99	9	-6	-3	148	123	99	9	-2	-9	338	326	99	9	1	-6	803	801	99
8	9	0	220	206	99	8	13	-4	59	34	99	9	-6	-2	452	475	99	9	-2	-8	234	200	99	9	1	-5	89	92	99
8	9	1	458	441	99	8	13	-3	280	261	99	9	-6	-1	109	251	99	9	-2	-7	261	293	99	9	1	-4	366	369	99
8	9	2	368	368	99	8	13	-2	302	285	99	9	-6	0	-80	33	99	9	-2	-6	615	627	99	9	1	-3	800	811	99
8	9	3	99	65	99	8	13	-1	162	137	99	9	-6	1	231	196	99	9	-2	-5	420	433	99	9	1	-2	974	1006	99
8	9	4	390	398	99	8	13	0	395	402	99	9	-6	2	-50	178	99	9	-2	-4	55	95	99	9	1	-1	445	441	99
8	9	5	417	410	99	8	13	1	295	328	99	9	-6	3	-180	42	99	9	-2	-3	95	84	99	9	1	0	441	422	99
8	9	6	32	114	99	8	13	2	130	158	99	9	-5	-10	-75	128	99	9	-2	-2	521	514	99	9	1	1	641	632	99
8	10	-9	250	244	99	8	13	3	-10	23	99	9	-5	-9	175	237	99	9	-2	-1	266	227	99	9	1	2	133	95	99
8	10	-8	170	179	99	8	13	4	223	255	99	9	-5	-8	265	149	99	9	-2	0	376	392	99	9	1	3	130	130	99
8	10	-7	165	169	99	8	14	-6	224	221	99	9	-5	-7	171	133	99	9	-2	1	469	449	99	9	1	4	406	418	99
8	10	-6	439	450	99	8	14	-5	59	67	99	9	-5	-6	221	222	99	9	-2	2	222	176	99	9	1	5	505	523	99
8	10	-5	401	409	99	8	14	-4	-105	63	99	9	-5	-5	278	244	99	9	-2	3	108	73	99	9	1	6	-68	163	99
8	10	-4	160	157	99	8	14	-3	294	289	99	9	-5	-4	113	21	99	9	-2	4	94	104	99	9	2	-11	327	334	99
8	10	-3	538	558	99	8	14	-2	287	293	99	9	-5	-3	272	224	99	9	-2	5	233	292	99	9	2	-10	483	455	99
8	10	-2	609	629	99	8	14	-1	135	107	99	9	-5	-2	403	414	99	9	-1	-11	120	22	99	9	2	-9	423	419	99
8	10	-1	287	294	99	8	14	0	375	370	99	9	-5	-1	210	174	99	9	-1	-10	-55	91	99	9	2	-8	275	270	99
8	10	0	172	172	99	8	14	1	275	266	99	9	-5	0	45	138	99	9	-1	-9	300	300	99	9	2	-7	394	403	99
8	10	1	422	419	99	8	14	2	159	151	99	9	-5	1	335	306	99	9	-1	-8	298	249	99	9	2	-6	632	634	99
8	10	2	391	376	99	8	14	3	156	22	99	9	-5	2	240	247	99	9	-1	-7	175	221	99	9	2	-5	320	319	99
8	10	3	112	55	99	8	15	-4	86	79	99	9	-5	3	111	74	99	9	-1	-6	423	431	99	9	2	-4	364	340	99
8	10	4	386	373	99	8	15	-3	238	253	99	9	-4	-10	166	227	99	9	-1	-5	350	357	99	9	2	-3	549	529	99
8	10	5	393	402	99	8	15	-2	344	300	99	9	-4	-9	259	327	99	9	-1	-4	103	133	99	9	2	-2	863	883	99
8	10	6	-171	159	99	8	15	-1	-142	9	99	9	-4	-8	141	50	99	9	-1	-3	157	208	99	9	2	-1	420	450	99
8	11	-9	269	289	99	8	15	0	299	270	99	9	-4	-7	81	291	99	9	-1	-2	388	399	99	9	2	0	496	465	99
8	11	-8	138	143	99	8	15	1	161	164	99	9	-4	-6	374	442	99	9	-1	-1	288	286	99	9	2	1	550	560	99
8	11	-7	183	192	99	9	-9	-5	331	353	99	9	-4	-5	337	372	99	9	-1	0	394	345	99	9	2	2	189	151	99
8	11	-6	301	321	99	9	-9	-4	270	151	99	9	-4	-4	73	12	99	9	-1	1	517	500	99	9	2	3	-93	110	99
8	11	-5	233	250	99	9	-9	-3	-123	217	99	9	-4	-3	497	524	99	9	-1	2	298	272	99	9	2	4	292	307	99
8	11	-4	67	26	99	9	-9	-2	-205	287	99	9	-4	-2	527	543	99	9	-1	3	-16	51	99	9	2	5	337	354	99
8	11	-3	418	438	99	9	-8	-7	-152	122	99	9	-4	-1	267	251	99	9	-1	4	206	232	99	9	2	6	76	35	99
8	11	-2	598	626	99	9	-8	-6	251	186	99	9	-4	0	382	345	99	9	-1	5	347	320	99	9	3	-11	193	191	99
8	11	-1	210	208	99	9	-8	5	303	464	99	9	-4	1	440	440	99	9	0	-11	-56	137	99	9	3	-10	389	358	99
8	11	0	206	223	99	9	-8	-4	347	253	99	9	-4	2	342	291	99	9	0	-10	212	118	99	9	3	-9	353	347	99
8	11	1	270	292	99	9	-8	-3	379	329	99	9	-4	3	206	162	99	9	0	-9	215	187	99	9	3	-8	148	109	99
8	11	2	292	297	99	9	-8	-2	284	290	99	9	-4	4	189	148	99	9	0	-8	300	290	99	9	3	-7	461	467	99
8	11	3	-100	52	99	9	-8	-1	286	246	99	9	-3	-11	162	96	99	9	0	-7	211	238	99	9	3	-6	772	747	99
8	11	4	332	342	99	9	-8	0	180	64	99	9	-3	-10	271	255	99	9	0	-6	697	730	99	9	3	-5	397	390	99
8	11	5	338	325	99	9	-7	-8	254	254	99	9	-3	-9	397	392	99	9	0	-5	86	67	99	9	3	-4	416	414	99
8	12	-8	49	65	99	9	-7	-7	-155	47	99	9	-3	-8	153	178	99	9	0	-4	371	359	99	9	3	-3	419	414	99
8	12	-7	180	177	99	9	-7	-6	242	183	99	9	-3	-7	364	385	99	9	0	-3	411	418	99	9	3	-2	375	370	99
8	12	-6	332	328	99	9	-7	-5	306	330	99	9	-3	-6	637	676	99	9	0	-2	514	512	99	9	3	-1	-107	66	99

h	k	l	Fo	Fc	sigF2
9	3	0	643	644	99
9	3	1	629	625	99
9	3	2	201	206	99
9	3	3	206	217	99
9	3	4	269	286	99
9	3	5	209	164	99
9	3	6	81	32	99
9	4	-11	-46	111	99
9	4	-10	138	150	99
9	4	-9	175	148	99
9	4	-8	-107	39	99
9	4	-7	489	456	99
9	4	-6	734	736	99
9	4	-5	-21	38	99
9	4	-4	197	191	99
9	4	-3	475	456	99
9	4	-2	302	298	99
9	4	-1	301	302	99
9	4	0	650	652	99
9	4	1	559	581	99
9	4	2	201	180	99
9	4	3	202	222	99
9	4	4	347	338	99
9	4	5	168	115	99
9	4	6	160	155	99
9	5	-11	251	257	99
9	5	-10	253	245	99
9	5	-9	70	49	99
9	5	-8	171	171	99
9	5	-7	459	449	99
9	5	-6	628	632	99
9	5	-5	87	33	99
9	5	-4	506	502	99
9	5	-3	578	562	99
9	5	-2	244	231	99
9	5	-1	298	300	99
9	5	0	695	693	99
9	5	1	646	655	99
9	5	2	160	181	99
9	5	3	235	214	99
9	5	4	418	422	99
9	5	5	-61	203	99
9	5	6	-92	165	99
9	6	-11	288	267	99
9	6	-10	298	298	99
9	6	-9	119	101	99
9	6	-8	138	159	99
9	6	-7	546	492	99
9	6	-6	521	531	99
9	6	-5	292	301	99
9	6	-4	546	513	99
9	6	-3	742	703	99
9	6	-2	353	351	99
9	6	-1	124	110	99
9	6	0	434	432	99
9	6	1	533	527	99
9	6	2	332	296	99
9	6	3	215	231	99
9	6	4	448	431	99
9	6	5	180	185	99
9	6	6	-148	16	99
9	7	-11	207	208	99
9	7	-10	296	284	99
9	7	-9	225	196	99
9	7	-8	31	41	99
9	7	-7	426	421	99
9	7	-6	436	427	99
9	7	-5	115	87	99
9	7	-4	354	356	99
9	7	-3	626	616	99
9	7	-2	429	424	99
9	7	-1	121	70	99
9	7	0	320	321	99
9	7	1	310	315	99
9	7	2	161	133	99
9	7	3	311	284	99
9	7	4	434	420	99
9	7	5	112	134	99
9	7	6	128	28	99
9	8	-10	301	293	99
9	8	-9	269	263	99
9	8	-8	10	80	99
9	8	-7	345	340	99
9	8	-6	310	309	99
9	8	-5	37	5	99
9	8	-4	313	300	99
9	8	-3	664	634	99
9	8	-2	329	330	99
9	8	-1	200	188	99
9	8	0	369	360	99
9	8	1	275	273	99
9	8	2	53	17	99
9	8	3	396	380	99
9	8	4	447	435	99
9	8	5	147	128	99
9	8	6	77	48	99
9	9	-10	243	254	99
9	9	-9	154	157	99
9	9	-8	189	183	99
9	9	-7	270	273	99
9	9	-6	122	149	99
9	9	-5	-27	78	99
9	9	-4	407	407	99
9	9	-3	560	584	99
9	9	-2	246	260	99
9	9	-1	319	343	99
9	9	0	464	450	99
9	9	1	220	221	99
9	9	2	-80	51	99
9	9	3	470	456	99
9	9	4	497	503	99
9	9	5	137	107	99
9	10	-9	110	96	99
9	10	-8	249	257	99
9	10	-7	347	374	99
9	10	-6	133	146	99
9	10	-5	86	91	99
9	10	-4	472	491	99
9	10	-3	579	619	99
9	10	-2	166	151	99
9	10	-1	426	414	99
9	10	0	437	437	99
9	10	1	358	351	99
9	10	2	138	84	99
9	10	3	309	352	99
9	10	4	447	421	99
9	10	5	140	97	99
9	11	-8	229	249	99
9	11	-7	409	427	99
9	11	-6	179	206	99
9	11	-5	70	31	99
9	11	-4	227	235	99
9	11	-3	529	541	99
9	11	-2	62	59	99
9	11	-1	469	473	99
9	11	0	362	368	99
9	11	1	219	237	99
9	11	2	135	159	99
9	11	3	157	159	99
9	11	4	279	269	99
9	11	5	-78	52	99
9	12	-8	238	268	99
9	12	-7	327	328	99
9	12	-6	168	163	99
9	12	-5	-56	39	99
9	12	-4	164	171	99
9	12	-3	336	345	99
9	12	-2	43	31	99
9	12	-1	365	362	99
9	12	0	395	385	99
9	12	1	94	112	99
9	12	2	14	18	99
9	12	3	103	161	99
9	12	4	198	215	99
9	13	-7	211	234	99
9	13	-6	115	66	99
9	13	-5	55	45	99
9	13	-4	194	204	99
9	13	-3	242	238	99
9	13	-2	-107	7	99
9	13	-1	303	298	99
9	13	0	260	248	99
9	13	1	-97	79	99
9	13	2	-107	77	99
9	13	3	282	264	99
9	14	-5	186	164	99
9	14	-4	219	233	99
9	14	-3	258	248	99
9	14	-2	19	3	99
9	14	-1	347	331	99
9	14	0	227	235	99
9	14	1	70	69	99
9	14	2	172	142	99
9	15	-3	260	267	99
9	15	-2	81	39	99
9	15	-1	209	204	99
10	-8	-4	70	133	99
10	-8	-3	82	405	99
10	-7	-7	147	308	99
10	-7	-6	279	202	99
10	-7	-5	110	22	99
10	-7	-4	212	55	99
10	-7	-3	330	395	99
10	-7	-2	302	328	99
10	-7	-1	-200	18	99
10	-7	0	-187	213	99
10	-6	-8	-58	12	99
10	-6	-7	371	376	99
10	-6	-6	266	317	99
10	-6	-5	25	52	99
10	-6	-4	151	45	99
10	-6	-3	237	200	99
10	-6	-2	400	392	99
10	-6	-1	222	131	99
10	-6	0	253	262	99
10	-6	1	-85	86	99
10	-5	-9	67	131	99
10	-5	-8	202	40	99
10	-5	-7	278	327	99
10	-5	-6	176	140	99
10	-5	-5	74	11	99
10	-5	-4	-129	137	99
10	-5	-3	214	245	99
10	-5	-2	241	203	99
10	-5	-1	211	257	99
10	-5	0	400	405	99
10	-5	1	91	111	99
10	-5	2	-80	13	99
10	-4	-10	-242	148	99
10	-4	-9	-201	56	99
10	-4	-8	173	203	99
10	-4	-7	436	461	99
10	-4	-6	217	224	99
10	-4	-5	90	58	99
10	-4	-4	53	147	99
10	-4	-3	161	369	99
10	-4	-2	120	118	99
10	-4	-1	330	315	99
10	-4	0	560	549	99
10	-4	1	219	244	99
10	-4	2	90	131	99
10	-3	-4	2	90	131
10	-3	-3	3	-49	64
10	-3	-2	59	84	99
10	-3	-1	275	273	99
10	-3	0	597	553	99
10	-3	1	280	247	99
10	-3	2	32	60	99
10	-3	3	-241	63	99
10	-2	-10	243	202	99
10	-2	-9	362	315	99
10	-2	-8	-30	69	99
10	-2	-7	588	622	99
10	-2	-6	348	361	99
10	-2	-5	124	189	99
10	-2	-4	175	229	99
10	-2	-3	344	374	99
10	-2	-2	635	609	99
10	-2	-1	-102	173	99
10	-2	0	457	448	99
10	-2	1	239	221	99
10	-2	2	-100	42	99
10	-2	3	212	158	99
10	-2	4	190	232	99
10	-1	-11	213	117	99
10	-1	-10	126	249	99
10	-1	-9	370	338	99
10	-1	-8	-106	46	99
10	-1	-7	460	479	99
10	-1	-6	220	169	99
10	-1	-5	140	94	99
10	-1	-4	293	320	99
10	-1	-3	472	490	99
10	-1	-2	366	358	99
10	-1	-1	-8	100	99
10	-1	0	404	388	99
10	-1	1	118	84	99
10	-1	2	64	207	99
10	-1	3	300	297	99
10	-1	4	316	360	99
10	0	-11	256	258	99
10	0	-10	152	137	99
10	0	-9	161	159	99
10	0	-8	107	116	99
10	0	-7	470	491	99
10	0	-6	174	142	99
10	0	-5	404	416	99
10	0	-4	494	499	99
10	0	-3	610	611	99
10	0	-2	210	181	99
10	0	-1	305	282	99
10	0	0	533	510	99
10	0	1	-23	102	99
10	0	2	251	242	99
10	0	3	448	474	99
10	0	4	434	450	99
10	0	5	-73	52	99
10	1	-11	352	341	99
10	1	-10	250	244	99
10	1	-9	-114	93	99
10	1	-8	285	332	99
10	1	-7	542	549	99
10	1	-6	306	281	99
10	1	-5	429	424	99
10	1	-4	603	613	99
10	1	-3	481	484	99
10	1	-2	44	116	99
10	1	-1	571	579	99
10	1	0	579	584	99
10	1	1	274	252	99
10	1	2	64	48	99
10	1	3	367	374	99
10	1	4	311	326	99
10	1	5	134	23	99
10	2	-11	367	330	99
10	2	-10	237	200	99
10	2	-9	74	24	99
10	2	-8	427	437	99
10	2	-7	637	653	99
10	2	-6	286	292	99
10	2	-5	169	152	99
10	2	-4	590	592	99
10	2	-3	422	438	99
10	2	-2	113	72	99
10	2	-1	673	672	99
10	2	0	571	588	99
10	2	1	318	334	99
10	2	2	69	53	99
10	2	3	222	267	99
10	2	4	106	140	99
10	2	5	129	49	99
10	3	-11	320	278	99
10	3	-10	211	209	99
10	3	-9	99	92	99
10	3	-8	323	336	99
10	3	-7	507	475	99
10	3	-6	323	305	99
10	3	-5	56	75	99
10	3	-4	486	494	99
10	3	-3	359	378	99
10	3	-2	167	148	99
10	3	-1	337	349	99
10	3	0	443	465	99
10	3	1	340	345	99
10	3	2	153	108	99
10	3	3	327	336	99
10	3	4	131	105	99
10	3	5	244	203	99
10	4	-11	-69	118	99
10	4	-10	152	128	99
10	4	-9	43	32	99
10	4	-8	359	333	99
10	4	-7	382	380	99
10	4	-6	52	111	99
10	4	-5	307	294	99
10	4	-4	383	375	99
10	4	-3	254	269	99
10	4	-2	323	302	99
10	4	-1	383	391	99
10	4	0	303	309	99
10	4	1	204	220	99
10	4	2	134	146	99
10	4	3	455	459	99
10	4	4	163	148	99
10	4	5	165	205	99
10	5	-11	227	178	99
10	5	-10	113	112	99
10	5	-9	-107	135	99
10	5	-8	394	394	99
10	5	-7	399	392	99
10	5	-6	138	127	99
10	5	-5	333	333	99
10	5	-4	657	629	99
10	5	-3	322	339	99
10	5	-2	217	232	99
10	5	-1	479	498	99
10	5	0	387	390	99
10	5	1	137	158	99
10	5	2	256	257	99
10	5	3	549	561	99
10	5	4	244	271	99
10	5	5	97	68	99
10	6	-11	307	299	99
10	6	-10	262	231	99
10	6	-9	168	160	99
10	6	-8	464	448	99
10	6	-7	187	218	99
10	6	-6	-35	17	99
10	6	-5	195	177	99
10	6	-4	862	836	99
10	6	-3	500	512	99
10	6	-2	242	230	99
10	6	-1	458	449	99
10	6	0	312	314	99
10	6	1	85	175	99
10	6	2	265	265	99
10	6	3	569	564	99
10	6	4	319	297	99
10	6	5	-103	17	99
10	7	-10	319	305	99
10	7	-9	78	108	99
10	7	-8	441	408	99
10	7	-7	246	233	99
10	7	-6	-75	25	99
10	7	-5	296	283	99
10	7	-4	708	688	99
10	7	-3	565	583	99
10	7	-2	204	184	99
10	7	-1	510	510	99
10	7	0	250	234	99
10	7	1	146	95	99
10	7	2	273	255	99
10	7	3	518	521	99
10	7	4	201	203	99
10	7	5	179	79	99
10	8	-10	296	273	99
10	8	-9	139	120	99
10	8	-8	337	327	99
10	8	-7	139	131	99
10	8	-6	-25	18	99
10	8	-5	271	263	99
10	8	-4	482	506	99
10	8	-3	362	364	99
10	8	-2	302	292	99
10	8	-1	372	366	99
10	8	0	155	158	99
10	8	1	-26	42	99
10	8	2	303	298	99
10	8	3	433	446	99
10	8	4	107	100	99
10	8	5	217	191	99
10	9	-9	209	196	99
10	9	-8	346	369	99
10	9	-7	117	135	99
10	9	-6	136	134	99
10	9	-5	271	268	99
10	9	-4	466	483	99
10	9	-3	148	121	99
10	9	-2	511	507	99
10	9	-1	471	457	99
10	9	0	221	200	99
10	9	1	64	12	99
10	9	2	253	270	99
10	9	3	306	332	99
10	9	4	-166	31	99
10	9	5	260	300	99
10	10	-9	243	250	99
10	10	-8	374	399	99
10	10	-7	161	131	99
10	10	-6	-87	16	99
10	10	-5	197	197	99
10	10	-4	424	444	99
10	10	-3	-104	30	99
10	10	-2	494	472	99
10	10	-1	543	524	99
10	10	0	320	305	99
10	10	1	128	55	99
10	10	2	253	246	99
10	10	3	331	315	99
10	10	4	145	17	99
10	11	-8	384	401	99
10	11	-7	165	159	99
10	11	-6	-41	69	99
10	11	-5	214	220	99
10	11	-4	302	318	99
10	11	-3	66	103	99
10	11	-2	351	349	99
10	11	-1	459	444	99
10	11	0	184	183	99
10	11	1	-78	41	99
10	11	2	162	198	99
10	11	3	307	308	99
10	11	4	-62	24	99
10	12	-7	128	137	99
10	12	-6	73	81	99
10	12	-5	259	265	99
10	12	-4	285	271	99
10	12	-3	62	121	99
10	12	-2	219	210	99
10	12	-1	327	319	99
10	12	0	165	154	99
10	12	1	86	113	99
10	12	2	212	243	99
10	12	3	-89	160	99
10	13	-6	140	136	99
10	13	-5	216	215	99
10	13	-4	235	233	99
10	13	-3	-66	24	99
10	13	-2	234	212	99
10	13	-1	233	221	99
10	13	0	-138	97	99
10	13	1	188	169	99
10	13	2	236	314	99
10	14	-4	202	203	99
10	14	-3	82	8	99
10	14	-2	226	204	99
10	14	-1	263	251	99
10	14	0	73	49	99
11	-6	-6	202	30	99
11	-6	-5	-189	77	99
11	-6	-4	117	129	99
11	-6	-3	211	148	99
11	-6	-2	-264	21	99
11	-6	-1	137	316	99
11	-5	-8	-277	274	99
11	-5	-7	-166	219	99
11	-5	-6	45	48	99
11	-5	-5	-206	99	99
11	-5	-4	88	119	99
11	-5	-3	-90	43	99
11	-5	-2	190	112	99
11	-5	-1	245	322	99
11	-5	0	178	216	99
11	-4	-9	118	162	99
11	-4	-8	281	314	99
11	-4	-7	176	233	99
11	-4	-6	-126	82	99
11	-4	-5	142	161	99
11	-4	-4	264	242	99
11	-4	-3	329	307	99
11	-4	-2	268	281	99
11	-4	-1	327	336	99
11	-4	0	143	197	99
11	-4	1	126	7	99
11	-3	-9	-101	109	99
11	-3	-8	368	390	99
11	-3	-7	311	257	99
11	-3	-6	81	122	99
11	-3	-5	317	344	99
11	-3	-4	446	430	99
11	-3	-3	388	369	99
11	-3	-2	-205	56	99
11	-3	-1	284	345	99
11	-3	0	280	250	99
11	-3	1	39	61	99
11	-3	2	225	278	99
11	-2	-10	107	184	99
11	-2	-9	124	36	99
11	-2	-8	355	403	99
11	-2	-7	334	328	99
11	-2	-6	121	68	99
11	-2	-5	381	412	99
11	-2	-4	490	525	99
11	-2	-3	162	182	99
11	-2	-2	-142	42	99
11	-2	-1	291	321	99
11	-2	0	252	242	99
11	-2	1	64	70	99
11	-2	2	403	376	99
11	-2	3	366	346	99
11	-1	-10	288	228	99
11	-1	-9	30	103	99
11	-1	-8	279	275	99
11	-1	-7	194	204	99
11	-1	-6	67	69	99
11	-1	-5	434	424	99
11	-1	-4	480	476	99
11	-1	-3	-95	65	99
11	-1	-2	263	239	99
11	-1	-1	226	235	99
11	-1	0	242	208	99
11	-1	1	89	18	99
11	-1	2	377	363	99

h	k	l	Fo	Fc	sigF2
11	-1	3	126	295	99
11	0	-10	138	35	99
11	0	-9	206	218	99
11	0	-8	185	202	99
11	0	-7	148	176	99
11	0	-6	144	113	99
11	0	-5	488	512	99
11	0	-4	364	366	99
11	0	-3	123	161	99
11	0	-2	568	557	99
11	0	-1	304	274	99
11	0	0	245	241	99
11	0	1	-134	21	99
11	0	2	382	371	99
11	0	3	74	166	99
11	1	-11	-130	114	99
11	1	-10	280	247	99
11	1	-9	361	391	99
11	1	-8	278	306	99
11	1	-7	237	191	99
11	1	-6	59	60	99
11	1	-5	518	530	99
11	1	-4	389	396	99
11	1	-3	242	250	99
11	1	-2	477	468	99
11	1	-1	480	466	99
11	1	0	369	350	99
11	1	1	-100	27	99
11	1	2	378	389	99
11	1	3	248	221	99
11	1	4	128	153	99
11	2	-11	278	245	99
11	2	-10	128	105	99
11	2	-9	449	441	99
11	2	-8	458	448	99
11	2	-7	186	189	99
11	2	-6	-41	108	99
11	2	-5	438	432	99
11	2	-4	463	439	99
11	2	-3	62	169	99
11	2	-2	320	311	99
11	2	-1	337	330	99
11	2	0	356	341	99
11	2	1	90	32	99
11	2	2	385	397	99
11	2	3	184	160	99
11	2	4	-104	83	99
11	3	-11	352	317	99
11	3	-10	-51	56	99
11	3	-9	386	355	99
11	3	-8	299	313	99
11	3	-7	243	213	99
11	3	-6	52	49	99
11	3	-5	421	415	99
11	3	-4	469	451	99
11	3	-3	127	124	99
11	3	-2	441	438	99
11	3	-1	272	258	99
11	3	0	284	296	99
11	3	1	-7	58	99
11	3	2	442	436	99
11	3	3	192	186	99
11	3	4	168	93	99
11	4	-11	154	168	99
11	4	-10	77	15	99
11	4	-9	290	285	99
11	4	-8	207	197	99
11	4	-7	50	39	99
11	4	-6	49	52	99
11	4	-5	450	422	99
11	4	-4	426	412	99
11	4	-3	165	152	99
11	4	-2	419	402	99
11	4	-1	271	244	99
11	4	0	-25	135	99
11	4	1	203	190	99
11	4	2	454	452	99
11	4	3	263	292	99
11	4	4	131	94	99
11	5	-10	99	105	99
11	5	-9	300	327	99
11	5	-8	135	118	99
11	5	-7	80	89	99
11	5	-6	305	287	99
11	5	-5	700	669	99
11	5	-4	457	443	99
11	5	-3	266	241	99
11	5	-2	453	441	99
11	5	-1	231	272	99
11	5	0	68	16	99
11	5	1	313	309	99
11	5	2	570	580	99
11	5	3	332	319	99
11	5	4	115	73	99
11	6	-10	-89	119	99
11	6	-9	454	434	99
11	6	-8	189	166	99
11	6	-7	109	112	99
11	6	-6	318	292	99
11	6	-5	689	642	99
11	6	-4	578	555	99
11	6	-3	243	226	99
11	6	-2	549	527	99
11	6	-1	265	242	99
11	6	0	48	64	99
11	6	1	262	252	99
11	6	2	565	549	99
11	6	3	267	222	99
11	6	4	113	38	99
11	7	-10	177	134	99
11	7	-9	414	386	99
11	7	-8	273	276	99
11	7	-7	14	11	99
11	7	-6	283	269	99
11	7	-5	492	463	99
11	7	-4	346	345	99
11	7	-3	238	207	99
11	7	-2	521	484	99
11	7	-1	301	281	99
11	7	0	117	41	99
11	7	1	274	276	99
11	7	2	336	336	99
11	7	3	58	112	99
11	7	4	87	132	99
11	8	-9	365	330	99
11	8	-8	248	237	99
11	8	-7	-38	33	99
11	8	-6	172	156	99
11	8	-5	348	339	99
11	8	-4	125	112	99
11	8	-3	323	296	99
11	8	-2	438	407	99
11	8	-1	376	354	99
11	8	0	-70	80	99
11	8	1	287	258	99
11	8	2	218	204	99
11	8	3	101	24	99
11	8	4	243	233	99
11	9	-9	328	313	99
11	9	-8	207	190	99
11	9	-7	26	57	99
11	9	-6	207	205	99
11	9	-5	211	202	99
11	9	-4	51	58	99
11	9	-3	349	341	99
11	9	-2	464	431	99
11	9	-1	308	310	99
11	9	0	31	11	99
11	9	1	283	261	99
11	9	2	253	247	99
11	9	3	70	50	99
11	9	4	176	188	99
11	10	-8	171	159	99
11	10	-7	126	109	99
11	10	-6	333	338	99
11	10	-5	331	333	99
11	10	-4	-72	25	99
11	10	-3	296	300	99
11	10	-2	405	415	99
11	10	-1	295	275	99
11	10	0	110	87	99
11	10	1	346	341	99
11	10	2	278	285	99
11	10	3	-41	38	99
11	11	-8	127	136	99
11	11	1	232	235	99
11	12	-6	268	293	99
11	12	-5	67	3	99
11	12	-4	174	145	99
11	12	-3	136	144	99
11	12	-2	185	183	99
11	12	-1	86	54	99
11	12	0	312	311	99
11	13	-3	184	126	99
11	13	-2	70	98	99
11	13	-1	244	235	99
11	13	0	175	74	99
11	13	1	270	267	99
11	13	2	111	97	99
11	13	3	50	85	99
11	13	4	107	155	99
11	14	-7	225	219	99
11	14	-6	330	286	99
11	14	-5	103	2	99
11	14	-4	282	322	99
11	14	-3	346	336	99
11	14	-2	50	95	99
11	14	-1	232	193	99
11	14	0	302	321	99
11	14	1	283	286	99
11	15	-9	80	32	99
11	15	-8	166	210	99
11	15	-7	430	422	99
11	15	-6	386	354	99
11	15	-5	76	32	99
11	15	-4	337	313	99
11	11	-7	84	113	99
11	11	-6	335	333	99
11	11	-5	342	328	99
11	11	-4	112	127	99
11	11	-3	182	165	99
11	11	-2	370	358	99
11	11	-1	243	232	99
11	11	0	94	138	99
11	11	1	348	340	99
11	11	2	119	188	99
11	12	-7	-57	78	99
11	12	-6	308	305	99
11	12	-5	258	255	99
11	12	-4	-84	14	99
11	12	-3	103	115	99
11	12	-2	230	227	99
11	12	-1	191	193	99
11	12	0	140	134	99
11	12	1	360	355	99
11	12	2	121	146	99
11	13	-5	202	199	99
11	13	-4	-110	49	99
11	13	-3	163	161	99
11	13	-2	129	131	99
11	13	-1	9	89	99
11	13	0	169	128	99
12	-5	-5	302	184	99
12	-5	-4	-112	78	99
12	-5	-3	-144	85	99
12	-4	-7	-222	104	99
12	-4	-6	0	328	99
12	-4	-5	112	378	99
12	-4	-4	115	152	99
12	-4	-3	-193	99	99
12	-4	-2	206	250	99
12	-4	-1	174	136	99
12	-3	-8	159	144	99
12	-3	-7	-151	65	99
12	-3	-6	389	431	99
12	-3	-5	456	496	99
12	-3	-4	20	68	99
12	-3	-3	104	163	99
12	-3	-2	289	256	99
12	-3	-1	285	265	99
12	-3	0	92	53	99
12	-2	-9	69	228	99
12	-2	-8	286	261	99
12	-2	-7	111	46	99
12	-2	-6	363	394	99
12	-2	-5	473	505	99
12	-2	-4	-38	52	99
12	-2	-3	285	262	99
12	-2	-2	13	145	99
12	-2	-1	324	276	99
12	-2	0	152	96	99
12	-2	1	283	308	99
12	-1	-9	35	254	99
12	-1	-8	159	170	99
12	-1	-7	140	96	99
12	-1	-6	181	235	99
12	-1	-5	326	291	99
12	-1	-4	132	104	99
12	-1	-3	60	260	99
12	-1	-2	189	192	99
12	-1	-1	97	166	99
12	-1	0	158	84	99
12	-1	1	81	222	99
12	-1	2	175	155	99
12	0	-10	-219	203	99
12	0	-9	250	223	99
12	0	-8	156	55	99
12	0	-7	-176	34	99
12	0	-6	207	221	99
12	0	-5	222	221	99
12	0	-4	166	200	99
12	0	-3	405	401	99
12	0	-2	317	309	99
12	0	-1	172	145	99
12	0	0	129	23	99
12	0	1	236	278	99
12	0	2	225	180	99
12	1	-10	330	367	99
12	1	-9	150	160	99
12	1	-8	32	36	99
12	1	-7	145	58	99
12	1	-6	285	294	99
12	1	-5	391	370	99
12	1	-4	96	66	99
12	1	-3	468	482	99
12	1	-2	352	347	99
12	1	-1	207	211	99
12	1	0	-62	75	99
12	1	1	255	291	99
12	1	2	180	190	99
12	2	-10	365	364	99
12	2	-9	307	291	99
12	2	-8	-109	46	99
12	2	-7	108	149	99
12	2	-6	323	329	99
12	2	-5	514	497	99
12	2	-4	-66	22	99
12	2	-3	443	441	99
12	2	-2	391	400	99
12	2	-1	311	290	99
12	2	0	57	102	99
12	2	1	353	360	99
12	2	2	307	264	99
12	2	3	-231	2	99
12	3	-10	298	296	99
12	3	-9	396	390	99
12	3	-8	-97	53	99
12	3	-7	72	107	99
12	3	-6	383	390	99
12	3	-5	489	484	99
12	3	-4	-69	61	99
12	3	-3	273	248	99
12	3	-2	296	300	99
12	3	-1	120	67	99
12	3	0	147	120	99
12	3	1	343	355	99
12	3	2	372	367	99
12	3	3	140	13	99
12	4	-10	92	185	99
12	4	-9	211	188	99
12	4	-8	-80	26	99
12	4	-7	170	184	99
12	4	-6	459	457	99
12	4	-5	392	360	99
12	4	-4	83	38	99
12	4	-3	324	324	99
12	4	-2	199	197	99
12	4	-1	65	142	99
12	4	0	328	314	99
12	4	1	432	421	99
12	4	2	129	225	99
12	4	3	86	17	99
12	5	-10	270	241	99
12	5	-9	145	99	99
12	5	-8	-91	41	99
12	5	-7	287	257	99
12	5	-6	404	410	99
12	5	-5	283	253	99
12	5	-4	173	163	99
12	5	-3	492	475	99
12	5	-2	320	294	99
12	5	-1	-69	11	99
12	5	0	341	349	99
12	5	1	421	418	99
12	5	2	73	147	99
12	5	3	108	58	99
12	6	-10	320	312	99
12	6	-9	284	256	99
12	6	-8	111	83	99
12	6	-7	349	320	99
12	6	-6	295	287	99
12	6	-5	176	161	99
12	6	-4	271	252	99
12	6	-3	541	500	99
12	6	-2	431	424	99
12	6	-1	-46	78	99
12	6	0	316	308	99
12	6	1	258	262	99
12	6	2	-91	98	99
12	6	3	59	132	99
12	7	-9	342	326	99
12	7	-8	68	40	99
12	7	-7	337	306	99
12	7	-6	357	340	99
12	7	-5	22	76	99
12	7	-4	212	166	99
12	7	-3	422	400	99
12	7	-2	542	527	99
12	7	-1	179	150	99
12	7	0	279	251	99
12	7	1	245	196	99
12	7	2	-69	26	99
12	7	3	121	116	99
12	8	-9	254	251	99
12	8	-8	156	63	99
12	8	-7	234	193	99
12	8	-6	298	286	99
12	8	-5	41	25	99
12	8	-4	171	168	99
12	8	-3	293	281	99
12	8	-2	367	329	99
12	8	-1	-119	37	99
12	8	0	267	265	99
12	8	1	218	191	99
12	8	2	-191	54	99
12	8	3	111	64	99
12	9	-8	-100	25	99
12	9	-7	305	280	99
12	9	-6	295	272	99
12	9	-5	18	24	99
12	9	-4	199	196	99
12	9	-3	290	297	99
12	9	-2	253	227	99
12	9	-1	150	146	99
12	9	0	417	406	99
12	9	1	272	260	99
12	9	2	-81	26	99
12	10	-8	-141	74	99
12	10	-7	291	316	99
12	10	-6	302	294	99
12	10	-5	48	15	99
12	10	-4	236	214	99
12	10	-3	251	262	99
12	10	-2	186	199	99
12	10	-1	120	111	99
12	10	0	397	397	99
12	10	1	270	276	99
12	10	2	42	73	99
12	11	-7	372	350	99
12	11	-6	293	306	99
12	11	-5	90	45	99
12	11	-4	200	212	99
12	11	-3	264	260	99
12	11	-2	214	185	99
12	11	-1	117	100	99
12	11	0	381	364	99
12	11	1	232	235	99
12	12	-6	268	293	99
12	12	-5	67	3	99
12	12	-4	174	145	99
12	12	-3	136	144	99
12	12	-2	185	183	99
12	12	-1	86	54	99
12	12	0	312	311	99
12	13	-3	184	126	99
12	13	-2	70	98	99
12	13	-1	244	235	99
12	13	0	175	74	99
12	13	1	270	267	99
12	13	2	111	97	99
12	13	3	50	85	99
12	13	4	107	155	99
12	14	-7	225	219	99
12	14	-6	330	286	99
12	14	-5	103	2	99
12	14	-4	282	322	99
12	14	-3	346	336	99
12	14	-2	50	95	99
12	14	-1	232	193	99
12	14	0	302	321	99
12	14	1	283	286	99
12	15	-9	80	32	99
12	15	-8	166	210	99
12	15	-7	430	422	99
12	15	-6	386	354	99
12	15	-5	76	32	99
12	15	-4	337	313	99
12	11	-7	84	113	99
12	11	-6	335	333	99
12	11	-5	342	328	99
12	11	-4	112	127	99
12	11	-3	182	165	99
12	11	-2	370	358	99
12	11	-1	243	232	99
12	11	0	94	138	99
12	11	1	348	340	99
12	11	2	119	188	99
12	12	-7	-57	78	99
12	12	-6	308	305	99
12	12	-5	258	255	99
12	12	-4	-84	14	99
12	12	-3	103	115	99
12	12	-2	230	227	99
12	12	-1	191	193	99
12	12	0	140	134	99
12	12	1	360	355	99
12	12	2	121	146	99
12	13	-5	202	199	99
12	13	-4	-110	49	99
12	13	-3	163	161	99
12	13	-2	129	131	99
12	13	-1	9	89	99
12	13	0	169	128	99
13	2	-3	332	321	99
13	2	-2	-52	55	99
13	2	-1	231	250	99
13	2	0	411	414	99
13	2	1	303	317	99
13	3	-9	119	95	99
13	3	-8	240	233	99
13	3	-7	416	408	99
13	3	-6	294	296	99
13	3	-5	-74	62	99
13	3	-4	232	214	99
13	3	-3	323	299	99
13	3	-2	-56	71	99
13	3	-1	240	235	99
13	3	0	335	370	99
13	3	1	-56	214	99
13	4	-9	86	56	99
13	4	-8	233	211	99
13	4	-7	327	291	99
13	4	-6	185	136	99
13	4	-5	153	154	99
13	4	-4	217	221	99
13	4	-3	268	276	99
13	4	-2	142	129	99
13	4	-1	233	218	99
13	4	0	284	253	99
13	4	1	-93	35	99
13	4	2	183	104	99
13	5	-9	51	32	99
13	5	-8	143	163	99
13	5	-7	283	268	99
13	5	-6	-88	39	99
13	5	-5	201	230	99
13	5	-4	350	340	99
13	5	-3	359	340	99
13	5	-2	202	95	99
13	5	-1	304	283	99
13	5	0	232	248	99
13	5	1	-117	48	99
13	5	2	226	164	99
13	6	-9	105	30	99
13	6	-8	299	259	99
13	6	-7	332	302	99
13	6	-6	-125	29	99
13	6	-5	222	174	99
13	6	-4	363	365	99
13	6	-3	423	406	99
13	6	-2	129	112	99
13	6	-1	335	323	99
13	6	0	287	274	99
13	6	1	-134	31	99
13	6	2	49	78	99
13	7	-8	244	245	99
13	7	-7	362	353	99
13	7	-6	-69	65	99
13	7	-5	239	222	99
13	7	-4	264	259	99
13	7	-3	371	352	99
13	7	-2	127	107	99
13	7	-1	339	322	99
13	7	0	297	318	99
13	7	1	42	55	99
13	8	-8	185	196	99
13	8	-7	380	337	99
13	8	-6	135	91	99
13	8	-5	238	220	99
13	8	-4	192	170	99
13	8	-3	206	188	99
13	8	-2	76	27	99
13	8	-1	297	283	99
13	8	0	298	302	99
13	8	1	133	84	99
13	9	-7	338	319	99
13	9	-6	33	25	99
13	9	-5	215	191	99
13	9	-4	203	198	99
13	9	-3	149	90	99
13	9	-2	35	83	99
13	9	-1	323	301	99
13	9	0	250	262	99
13	9	1	-78	12	99
13	10	-7	292	284	99
13	10	-6	60	14	99
13	10	-5	234	213	99
13	10	-4	207	220	99
13	10	-3	59	105	99
13	10	-2	139	101	99
13	10	-1	352	358	99
13	10	0	304	279	99
13	11	-5	217	205	99
13	11	-4	194	170	99
13	11	-3	139	151	99
13	11	-2	-104	59	99
13	11	-1	305	315	99
13	11	0	138	1	99
13	11	1	-118	161	99
13	12	-5	115	201	99
13	12	-4	190	125	99
13	12	-3	95	153	99
13	12	-2	274	264	99
13	12	-1	215	170	99
13	12	0	110	140	99
13	12	1	73	56	99
13	13	-4	139	228	99
13	13	-3	124	100	99
13	13	-2	269	197	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF
14	2	-1	386	385	99	14	10	-3	164	111	99																		
14	3	-8	358	366	99	15	5	-4	153	32	99																		
14	3	-7	-94	132	99																								
14	3	-6	157	135	99																								
14	3	-5	124	180	99																								
14	3	-4	251	293	99																								
14	3	-3	132	237	99																								
14	3	-2	72	172	99																								
14	3	-1	77	201	99																								
14	4	-8	216	213	99																								
14	4	-7	21	52	99																								
14	4	-6	212	139	99																								
14	4	-5	277	235	99																								
14	4	-4	260	250	99																								
14	4	-3	218	174	99																								
14	4	-2	267	207	99																								
14	4	-1	232	247	99																								
14	4	0	155	66	99																								
14	5	-8	122	213	99																								
14	5	-7	114	38	99																								
14	5	-6	204	201	99																								
14	5	-5	243	242	99																								
14	5	-4	233	249	99																								
14	5	-3	86	76	99																								
14	5	-2	179	221	99																								
14	5	-1	298	280	99																								
14	5	0	60	32	99																								
14	6	-7	47	46	99																								
14	6	-6	320	301	99																								
14	6	-5	222	225	99																								
14	6	-4	233	245	99																								
14	6	-3	-157	50	99																								
14	6	-2	307	310	99																								
14	6	-1	316	300	99																								
14	6	0	-111	75	99																								
14	7	-7	137	108	99																								
14	7	-6	177	193	99																								
14	7	-5	241	232	99																								
14	7	-4	141	165	99																								
14	7	-3	-52	35	99																								
14	7	-2	279	264	99																								
14	7	-1	341	326	99																								
14	8	-7	-124	102	99																								
14	8	-6	156	95	99																								
14	8	-5	209	199	99																								
14	8	-4	-55	81	99																								
14	8	-3	-133	60	99																								
14	8	-2	216	219	99																								
14	8	-1	223	263	99																								
14	9	-6	175	145	99																								
14	9	-5	180	158	99																								
14	9	-4	78	103	99																								
14	9	-3	-53	103	99																								
14	9	-2	293	269	99																								
14	10	-4	153	131	99																								

APPENDIX 7.VIII

$[Hg(S_2CN(Et)Cy)_2]$

Table 7.VIII.1: Crystallographic Parameters for $[Hg(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

Formula	$C_{18}H_{16}HgN_2S_4$
Formula weight	589.17
Crystal morphology / colour	needle / pale yellow
Crystal dimensions (mm)	0.07 x 0.13 x 0.31
Crystal system	monoclinic
Space group	$P2_1/c$ (# 14)
a (Å)	8.459(6)
b (Å)	19.506(9)
c (Å)	13.955(6)
α (°)	90
β (°)	92.89(4)
γ (°)	90
V (Å^3)	2299(1)
Z	4
$\rho_{calc.}$ (g cm^{-3})	1.748
$F(000)$	1128
Temperature (°K)	200
μ (cm^{-1})	70.79
θ limits, cell (°)	16.9 – 19.5
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 10, 0 – 23, -17 – 15
Range of transmission factors	0.945 – 1
Scan technique	ω:2θ
No. of data measured	5797
No. of unique data	5441
R_{amal}	0.100
No. of parameters	226
R (I≥0σ(I))	0.101
R_w (I≥0σ(I))	0.098
R (I≥3σ(I))	0.041
R_w (I≥3σ(I))	0.041
Maximum and minimum residual electron density (e Å^{-3})	3.60, -5.87 (located near Hg atom)

Table 7.VIII.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Hg(S_2CN(CH_2CH_3)(CH(CH_2)5))2]$

Atom	*x*	*y*	*z*
Hg	0.10527(4)	0.04730(2)	0.39405(2)
S(1)	0.3021(2)	-0.0408(1)	0.4389(1)
S(2)	0.1599(2)	0.0241(1)	0.6091(1)
S(3)	0.0424(3)	0.1717(1)	0.4169(1)
S(4)	0.1198(3)	0.1170(1)	0.2270(1)
N(1)	0.3611(6)	-0.0816(3)	0.6170(4)
N(2)	0.0498(7)	0.2482(4)	0.2596(5)
C(1)	0.2799(7)	-0.0377(4)	0.5625(5)
C(2)	0.4797(8)	-0.1283(4)	0.5787(6)
C(3)	0.411(1)	-0.1950(4)	0.5404(6)
C(4)	0.3462(8)	-0.0829(4)	0.7238(5)
C(5)	0.348(1)	-0.1534(5)	0.7670(6)
C(6)	0.330(1)	-0.1487(6)	0.8738(7)
C(7)	0.460(1)	-0.1056(6)	0.9226(6)
C(8)	0.461(1)	-0.0339(5)	0.8800(6)
C(9)	0.4748(9)	-0.0356(5)	0.7712(6)
C(10)	0.0697(8)	0.1854(4)	0.2962(5)
C(11)	0.087(1)	0.2619(5)	0.1587(5)
C(12)	0.259(1)	0.2767(6)	0.1481(8)
C(13)	-0.0047(9)	0.3055(4)	0.3182(6)
C(14)	0.135(1)	0.3477(6)	0.3624(7)
C(15)	0.070(2)	0.3996(6)	0.4317(9)
C(16)	-0.049(2)	0.4451(6)	0.3834(9)
C(17)	-0.186(2)	0.4050(8)	0.3373(9)
C(18)	-0.126(1)	0.3510(6)	0.2654(7)

Table 7.VIII.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Hg(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Hg	0.0362(2)	0.0374(2)	0.0378(2)	0.0018(2)	0.0018(1)	0.0098(2)
S(1)	0.039(1)	0.048(1)	0.022(1)	0.009(1)	0.0007(8)	-0.001(1)
S(2)	0.032(1)	0.028(1)	0.027(1)	0.0019(8)	0.0034(8)	-0.0019(8)
S(3)	0.052(1)	0.033(1)	0.024(1)	0.003(1)	0.0080(9)	0.0021(9)
S(4)	0.053(1)	0.041(1)	0.024(1)	0.010(1)	0.007(1)	0.001(1)
N(1)	0.027(3)	0.028(3)	0.024(4)	0.000(3)	0.002(3)	0.001(3)
N(2)	0.037(4)	0.042(4)	0.026(4)	0.002(3)	0.013(3)	0.007(3)
C(1)	0.017(3)	0.020(4)	0.030(4)	-0.008(3)	-0.002(3)	0.004(3)
C(2)	0.024(4)	0.036(5)	0.041(5)	0.008(3)	0.008(3)	-0.003(4)
C(3)	0.048(5)	0.039(5)	0.045(6)	0.000(4)	0.003(4)	-0.017(4)
C(4)	0.022(4)	0.048(5)	0.017(4)	0.009(3)	0.006(3)	0.006(4)
C(5)	0.049(5)	0.044(6)	0.038(5)	-0.001(4)	-0.007(4)	0.015(4)
C(6)	0.046(5)	0.074(8)	0.049(6)	-0.001(5)	0.000(5)	0.024(6)
C(7)	0.057(6)	0.087(8)	0.025(5)	0.013(5)	-0.006(4)	0.014(5)
C(8)	0.059(6)	0.065(8)	0.029(5)	0.003(5)	-0.001(4)	-0.002(5)
C(9)	0.044(5)	0.049(6)	0.034(5)	-0.009(4)	0.004(4)	-0.002(4)
C(10)	0.031(4)	0.033(5)	0.021(4)	0.005(3)	0.005(3)	0.010(3)
C(11)	0.072(6)	0.055(6)	0.016(5)	0.020(5)	0.021(4)	0.012(4)
C(12)	0.072(7)	0.074(8)	0.062(7)	0.012(6)	0.033(6)	0.023(6)
C(13)	0.039(5)	0.039(5)	0.028(5)	-0.001(4)	0.009(4)	0.004(4)
C(14)	0.088(8)	0.056(7)	0.047(6)	-0.018(6)	0.006(5)	-0.010(5)
C(15)	0.11(1)	0.060(8)	0.086(10)	-0.019(7)	0.027(8)	-0.007(7)
C(16)	0.19(2)	0.041(7)	0.066(8)	0.014(9)	0.032(9)	-0.010(7)
C(17)	0.12(1)	0.12(1)	0.062(8)	0.092(10)	0.002(8)	0.003(8)
C(18)	0.088(8)	0.071(8)	0.045(6)	0.035(6)	-0.003(5)	-0.001(6)

Table 7.VIII.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in $[Hg(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$*

Atom	*x*	*y*	*z*	B_{eq}
H(2a)	0.5305	-0.1052	0.5270	3.1835
H(2b)	0.5580	-0.1388	0.6298	3.1835
H(3a)	0.3627	-0.2196	0.5918	4.1686
H(3b)	0.3312	-0.1854	0.4897	4.1686
H(3c)	0.4943	-0.2227	0.5151	4.1686
H(4a)	0.2446	-0.0626	0.7363	2.7540
H(5a)	0.2604	-0.1798	0.7381	4.1705
H(5b)	0.4468	-0.1758	0.7548	4.1705
H(6a)	0.3339	-0.1945	0.9007	5.3507
H(6b)	0.2281	-0.1280	0.8854	5.3507
H(7a)	0.5614	-0.1273	0.9139	5.3431
H(7b)	0.4421	-0.1024	0.9906	5.3431
H(8a)	0.5510	-0.0089	0.9085	4.8550
H(8b)	0.3641	-0.0108	0.8945	4.8550
H(9a)	0.4613	0.0105	0.7459	4.0086
H(9b)	0.5786	-0.0527	0.7567	4.0086
H(11a)	0.0576	0.2220	0.1202	4.4484
H(11b)	0.0255	0.3011	0.1358	4.4484
H(12a)	0.3220	0.2381	0.1719	6.4441
H(12b)	0.2783	0.2842	0.0809	6.4441
H(12c)	0.2891	0.3174	0.1846	6.4441
H(13a)	-0.0574	0.2852	0.3714	3.3336
H(14a)	0.2090	0.3175	0.3966	6.0493
H(14b)	0.1877	0.3714	0.3121	6.0493

Table 7.VIII.4: Cont.

Atom	*x*	*y*	*z*	B_{eq}
H(15a)	0.0204	0.3752	0.4829	8.1128
H(15b)	0.1562	0.4273	0.4584	8.1128
H(16a)	0.0010	0.4712	0.3342	9.2047
H(16b)	-0.0899	0.4763	0.4304	9.2047
H(17a)	-0.2577	0.4364	0.3033	9.6004
H(17b)	-0.2414	0.3816	0.3869	9.6004
H(18a)	-0.0776	0.3741	0.2128	6.4726
H(18b)	-0.2142	0.3234	0.2405	6.4726

* H atoms were included in their calculated positions, C-H 0.97Å.

Table 7.VIII.5: Bond distances (Å) for [Hg($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]

Hg — S(1)	2.452(2)	C(2) — C(3)	1.51(1)
Hg — S(2)	3.047(2)	C(4) — C(5)	1.50(1)
Hg — S(2)*	2.639(2)	C(4) — C(9)	1.55(1)
Hg — S(3)	2.508(2)	C(5) — C(6)	1.51(1)
Hg — S(4)	2.707(2)	C(6) — C(7)	1.52(1)
S(1) — C(1)	1.746(7)	C(7) — C(8)	1.52(1)
S(2) — C(1)	1.725(7)	C(8) — C(9)	1.53(1)
S(3) — C(10)	1.733(7)	C(11) — C(12)	1.50(1)
S(4) — C(10)	1.713(8)	C(13) — C(14)	1.54(1)
N(1) — C(1)	1.315(8)	C(13) — C(18)	1.52(1)
N(1) — C(2)	1.476(9)	C(14) — C(15)	1.52(1)
N(1) — C(4)	1.503(9)	C(15) — C(16)	1.48(2)
N(2) — C(10)	1.334(9)	C(16) — C(17)	1.51(2)
N(2) — C(11)	1.481(9)	C(17) — C(18)	1.56(1)
N(2) — C(13)	1.47(1)		

* symmetry operation: *-x*, *-y*, 1 – *z*.

Table 7.VIII.6: Bond angles (deg.) for [Hg($S_2CN(CH_2CH_3)(CH(CH_2)_5)$)2]

S(1) — Hg — S(2)	65.00(6)	S(1) — C(1) — N(1)	118.0(5)
S(1) — Hg — S(2)*	101.53(8)	S(2) — C(1) — N(1)	122.5(5)
S(1) — Hg — S(3)	142.30(7)	N(1) — C(2) — C(3)	113.7(6)
S(1) — Hg — S(4)	120.80(7)	N(1) — C(4) — C(5)	114.5(7)
S(2) — Hg — S(2)*	91.40(6)	N(1) — C(4) — C(9)	108.8(6)
S(2) — Hg — S(3)	92.33(6)	C(5) — C(4) — C(9)	112.6(6)
S(2) — Hg — S(4)	155.71(6)	C(4) — C(5) — C(6)	110.0(8)
S(2)* — Hg — S(3)	109.11(7)	C(5) — C(6) — C(7)	111.7(7)
S(2)* — Hg — S(4)	109.06(6)	C(6) — C(7) — C(8)	110.7(7)
S(3) — Hg — S(4)	69.07(6)	C(7) — C(8) — C(9)	111.8(8)
Hg — S(1) — C(1)	97.0(2)	C(4) — C(9) — C(8)	110.6(7)
Hg — S(2) — Hg*	88.60(6)	S(3) — C(10) — S(4)	118.5(4)
Hg — S(2) — C(1)	78.2(2)	S(3) — C(10) — N(2)	119.6(6)
Hg — S(2)* — C(1)*	98.1(2)	S(4) — C(10) — N(2)	121.9(6)
Hg — S(3) — C(10)	89.2(3)	N(2) — C(11) — C(12)	112.4(7)
Hg — S(4) — C(10)	83.3(2)	N(2) — C(13) — C(14)	111.9(7)
C(1) — N(1) — C(2)	122.5(6)	N(2) — C(13) — C(18)	113.4(7)
C(1) — N(1) — C(4)	121.2(6)	C(14) — C(13) — C(18)	111.5(8)
C(2) — N(1) — C(4)	116.1(6)	C(13) — C(14) — C(15)	108.4(9)
C(10) — N(2) — C(11)	120.1(7)	C(14) — C(15) — C(16)	112(1)
C(10) — N(2) — C(13)	121.4(6)	C(15) — C(16) — C(17)	112(1)
C(11) — N(2) — C(13)	118.5(6)	C(16) — C(17) — C(18)	111(1)
S(1) — C(1) — S(2)	119.4(4)	C(13) — C(18) — C(17)	108.5(8)

* symmetry operation: $-x$, $-y$, $1 - z$.

Table 7.VIII.7: Observed and calculated structure factors for $[Hg(S_2CN(CH_2CH_3)(CH(CH_2)_5))_2]$

h	k	l	Fo	Fc	sigF2
0	0	4	2964	3053	99
0	0	6	3192	3218	99
0	0	8	1235	1237	99
0	0	10	1314	1282	99
0	0	12	62	80	99
0	0	14	707	699	99
0	0	16	-172	191	99
0	0	18	603	607	99
0	1	2	1455	1367	99
0	1	3	461	442	99
0	1	4	864	837	99
0	1	5	3057	3089	99
0	1	6	194	270	99
0	1	7	464	433	99
0	1	8	643	630	99
0	1	9	1223	1232	99
0	1	10	151	142	99
0	1	11	902	877	99
0	1	12	597	547	99
0	1	13	917	888	99
0	1	14	-309	39	99
0	1	15	454	428	99
0	1	16	182	33	99
0	1	17	-43	217	99
0	1	18	-188	92	99
0	2	2	1348	1317	99
0	2	3	1310	1246	99
0	2	4	2384	2365	99
0	2	5	705	693	99
0	2	6	1845	1833	99
0	2	7	1768	1790	99
0	2	8	940	948	99
0	2	9	455	471	99
0	2	10	1170	1222	99
0	2	11	633	679	99
0	2	12	451	472	99
0	2	13	375	398	99
0	2	14	794	763	99
0	2	15	-273	136	99
0	2	16	-112	51	99
0	2	17	287	314	99
0	2	18	578	645	99
0	3	1	1683	1721	99
0	3	2	2312	2394	99
0	3	3	1070	1068	99
0	3	4	666	670	99
0	3	5	1576	1479	99
0	3	6	1775	1817	99
0	3	7	178	62	99
0	3	8	690	676	99
0	3	9	1160	1147	99
0	3	10	20	222	99
0	3	11	-115	63	99
0	3	12	968	1015	99
0	3	13	589	552	99
0	3	14	-133	104	99
0	3	15	444	425	99
0	3	16	170	326	99
0	3	17	497	513	99
0	3	18	320	337	99
0	4	0	655	618	99
0	4	1	1507	1556	99
0	4	2	700	669	99
0	4	3	1040	1054	99
0	4	4	1331	1359	99
0	4	5	885	881	99
0	4	6	285	190	99
0	4	7	1762	1786	99
0	4	8	447	437	99
0	4	9	-140	87	99
0	4	10	382	387	99
0	4	11	1155	1092	99
0	4	12	287	221	99
0	4	13	628	639	99
0	4	14	576	573	99
0	4	15	306	347	99
0	4	16	220	168	99
0	4	17	435	525	99
0	5	1	1327	1347	99
0	5	2	1608	1576	99
0	5	3	158	186	99
0	5	4	511	480	99
0	5	5	392	359	99
0	5	6	1384	1416	99
0	5	7	423	434	99
0	5	8	1429	1386	99
0	5	9	258	194	99
0	5	10	918	915	99
0	5	11	-157	55	99
0	5	12	1028	1042	99
0	5	13	-84	104	99
0	5	14	165	156	99
0	5	15	-51	88	99
0	5	16	551	668	99
0	5	17	85	52	99
0	6	0	150	131	99
0	6	1	850	857	99
0	6	2	108	121	99
0	6	3	1656	1669	99
0	6	4	-169	90	99
0	6	5	489	499	99
0	6	6	107	50	99
0	6	7	1584	1540	99
0	6	8	290	191	99
0	6	9	348	293	99
0	6	10	-192	50	99
0	6	11	1054	1062	99
0	6	12	174	21	99
0	6	13	591	669	99
0	6	14	-172	123	99
0	6	15	423	322	99
0	6	16	-194	129	99
0	6	17	297	348	99
0	7	1	1138	1132	99
0	7	2	1943	1979	99
0	7	3	679	653	99
0	7	4	550	511	99
0	7	5	652	634	99
0	7	6	978	972	99
0	7	7	54	177	99
0	7	8	1263	1206	99
0	7	9	753	753	99
0	7	10	314	316	99
0	7	11	147	101	99
0	7	12	776	782	99
0	7	13	206	101	99
0	7	14	-49	335	99
0	7	15	217	352	99
0	7	16	165	248	99
0	7	17	-292	100	99
0	8	0	1695	1712	99
0	8	1	950	905	99
0	8	2	895	931	99
0	8	3	1142	1201	99
0	8	4	1447	1499	99
0	8	5	540	552	99
0	8	6	854	848	99
0	8	7	967	956	99
0	8	8	130	138	99
0	8	9	224	270	99
0	8	10	959	960	99
0	8	11	559	501	99
0	8	12	22	40	99
0	8	13	499	489	99
0	8	14	478	496	99
0	8	15	239	105	99
0	8	16	187	83	99
0	8	17	186	181	99
0	9	1	1905	1969	99
0	9	2	261	197	99
0	9	3	472	474	99
0	9	4	194	242	99
0	9	5	1658	1671	99
0	9	6	690	655	99
0	9	7	931	912	99
0	9	8	-152	145	99
0	9	9	1052	1020	99
0	9	10	124	110	99
0	9	11	502	560	99
0	9	12	377	342	99
0	9	13	-144	192	99
0	9	14	62	16	99
0	9	15	380	446	99
0	9	16	82	80	99
0	10	0	2374	2334	99
0	10	1	-343	41	99
0	10	2	508	486	99
0	10	3	428	464	99
0	10	4	1626	1689	99
0	10	5	50	73	99
0	10	6	1397	1360	99
0	10	7	47	118	99
0	10	8	855	858	99
0	10	9	279	304	99
0	10	10	762	779	99
0	10	11	143	169	99
0	10	12	168	37	99
0	10	13	206	87	99
0	10	14	537	594	99
0	10	15	185	134	99
0	10	16	217	66	99
0	11	1	1553	1550	99
0	11	2	820	855	99
0	11	3	477	488	99
0	11	4	319	350	99
0	11	5	1659	1639	99
0	11	6	239	201	99
0	11	7	-295	44	99
0	11	8	861	868	99
0	11	9	522	556	99
0	11	10	135	219	99
0	11	11	473	499	99
0	11	12	149	62	99
0	11	13	580	527	99
0	11	14	127	322	99
0	11	15	265	338	99
0	11	16	231	172	99
0	12	0	1919	1881	99
0	12	1	-53	289	99
0	12	2	524	484	99
0	12	3	840	863	99
0	12	4	1161	1176	99
0	12	5	190	203	99
0	12	6	863	883	99
0	12	7	633	668	99
0	12	8	458	490	99
0	12	9	291	298	99
0	12	10	656	679	99
0	12	11	345	392	99
0	12	12	373	346	99
0	12	13	383	424	99
0	12	14	455	532	99
0	12	15	145	234	99
0	13	1	1202	1179	99
0	13	2	1037	1021	99
0	13	3	-158	222	99
0	13	4	435	469	99
0	13	5	1242	1240	99
0	13	6	874	871	99
0	13	7	-78	25	99
0	13	8	545	594	99
0	13	9	451	462	99
0	13	10	320	272	99
0	13	11	-133	242	99
0	13	12	640	677	99
0	13	13	550	562	99
0	13	14	-316	39	99
0	13	15	248	81	99
0	14	0	1672	1572	99
0	14	1	998	928	99
0	14	2	160	265	99
0	14	3	1062	1047	99
0	14	4	640	627	99
0	14	5	-19	168	99
0	14	6	777	806	99
0	14	7	1002	1043	99
0	14	8	235	204	99
0	14	9	208	207	99
0	14	10	-156	368	99
0	14	11	712	652	99
0	14	12	-131	91	99
0	14	13	361	441	99
0	14	14	200	194	99
0	14	15	319	154	99
0	15	1	538	599	99
0	15	2	1422	1402	99
0	15	3	199	261	99
0	15	4	707	713	99
0	15	5	601	552	99
0	15	6	995	1014	99
0	15	7	68	44	99
0	15	8	798	811	99
0	15	9	160	210	99
0	15	10	105	146	99
0	15	11	-219	99	99
0	15	12	853	905	99
0	15	13	-271	168	99
0	15	14	242	48	99
0	16	0	-158	152	99
0	16	1	1005	979	99
0	16	2	-247	157	99
0	16	3	1065	1041	99
0	16	4	350	314	99
0	16	5	261	108	99
0	16	6	-279	31	99
0	16	7	1245	1210	99
0	16	8	150	160	99
0	16	9	358	378	99
0	16	10	191	103	99
0	16	11	618	625	99
0	16	12	153	204	99
0	16	13	464	519	99
0	16	14	-154	9	99
0	17	1	201	251	99
0	17	2	1036	1003	99
0	17	3	67	63	99
0	17	4	470	495	99
0	17	5	365	315	99
0	17	6	954	956	99
0	17	7	-112	104	99
0	17	8	634	650	99
0	17	9	197	38	99
0	17	10	246	284	99
0	17	11	235	373	99
0	17	12	608	648	99
0	17	13	21	90	99
0	18	0	569	464	99
0	18	1	396	383	99
0	18	2	154	183	99
0	18	3	641	643	99
0	18	4	353	348	99
0	18	5	436	433	99
0	18	6	439	467	99
0	18	7	640	674	99
0	18	8	-118	59	99
0	18	9	177	43	99
0	18	10	334	348	99
0	18	11	270	559	99
0	18	12	242	228	99
0	19	1	359	316	99
0	19	2	365	488	99
0	19	3	-64	85	99
0	19	4	166	122	99
0	19	5	490	495	99
0	19	6	316	365	99
0	19	7	204	66	99
0	19	8	223	234	99
0	19	9	150	264	99
0	19	10	414	450	99
0	19	11	202	308	99
0	19	12	-232	265	99
0	20	0	551	581	99
0	20	1	-144	139	99
0	20	2	-16	161	99
0	20	3	308	238	99
0	20	4	456	455	99
0	20	5	303	248	99
0	20	6	276	275	99
0	20	7	207	255	99
0	20	8	-194	221	99
0	20	9	-182	117	99
0	20	10	151	283	99
0	20	11	393	357	99
0	21	1	457	450	99
0	21	2	-161	88	99
0	21	3	226	213	99
0	21	4	-232	36	99
0	21	5	368	382	99
0	21	6	239	90	99
0	21	7	-114	89	99
0	17	3	67	63	99
0	17	4	470	495	99
0	17	5	365	315	99
0	17	6	954	956	99
0	17	7	-112	104	99
0	17	8	634	650	99
0	17	9	197	38	99
0	17	10	246	284	99
0	17	11	235	373	99
0	17	12	608	648	99
0	17	13	21	90	99
0	18	0	569	464	99
0	18	1	396	383	99
0	18	2	154	183	99
0	18	3	641	643	99
0	18	4	353	348	99
0	18	5	436	433	99
0	18	6	439	467	99
0	18	7	640	674	99
0	18	8	-118	59	99
0	18	9	177	43	99
0	18	10	334	348	99
0	18	11	270	559	99
0	18	12	242	228	99
0	19	1	359	316	99
0	19	2	365	488	99
0	19	3	-64	85	99
0	19	4	166	122	99
0	19	5	490	495	99
0	19	6	316	365	99
0	19	7	204	66	99
0	19	8	223	234	99
0	19	9	150	264	99
0	19	10	414	450	99
0	19	11	202	308	99
0	19	12	-232	265	99
0	20	0	551	581	99
0	20	1	-144	139	99
0	20	2	-16	161	99
0	20	3	308	238	99
0	20	4	456	455	99
0	20	5	303	248	99
0	20	6	276	275	99
0	20	7	207	255	99
0	20	8	-194	221	99
0	20	9	-182	117	99
0	20	10	151	283	99
0	20	11	393	357	99
0	21	1	457	450	99
0	21	2	-161	88	99
0	21	3	226	213	99
0	21	4	-232	36	99
0	21	5	368	382	99
0	21	6	239	90	99
0	21	7	-114	89	99
1	1	-9	1761	1748	99
1	1	-8	457	462	99
1	1	-7	685	714	99
1	1	-6	415	458	99
1	1	-5	2358	2389	99
1	1	-4	210	190	99
1	1	-3	1827	1904	99
1	1	-2	1199	1221	99
1	1	1	2441	2424	99
1	1	2	1419	1432	99
1	1	3	-101	86	99
1	1	4	982	1007	99
1	1	5	1975	1984	99
1	1	6	115	190	99
1	1	7	733	706	99
1	1	8	817	820	99
1	1	9	1046	980	99
1	1	10	488	485	99
1	1	11	991	1005	99
1	1	12	114	243	99
1	1	13	447	403	99
1	1	14	-152	159	99
1	1	15	601	610	99
1	1	16	237	189	99
1	1	17	-283	200	99
1	2	-18	151	416	99
1	2	-17	386	329	99
1	2	-16	218	61	99
1	2	-15	-398	209	99
1	2	-14	671	670	99
1	2	-13	59	46	99
1	2	-12	596	579	99
1	2	-11	926	934	99
1	2	-10	1047	1017	99
1	2	-9	-82	80	99
1	2	-8	1153	1163	99
1	2	-7	540	533	99
1	2	-6	203	198	99
1	2	-5	938	955	99
1	2	-4	2339	2378	99
1	2	-3	253	250	99
1	2	-2	160	166	99
1	2	-1	714	706	99
1	2	0	876	872	99
1	2	1	607	597	99
1	2	2	2122	2189	99
1	2	3	1255	1259	99
1	2	4	940	917	99
1	2	5	1061	1050	99
1	2	6	1121	1127	99
1	2	7	1100	1115	99
1	2	8	473	519	99
1	2	9	1064	1014	99
1	2	10	995	977	99
1	2	11	197	150	99
1	2	12	119	79	99
1	2	13	673	626	99
1	2	14	737	739	99
1	2	15	-295	285	99
1	2	16	369	385	99
1	2	17	219	167	99
1	3	-18	-157	85	99
1	3	-17	290	381	99
1	3	-16	447	514	99
1	3	-15	295	276	99
1	3	-14	617	543	99
1	3	-13	652	595	99
1	3	-12	591	576	99
1	3	-11	-123	151	99
1	3	-10	907	954	99
1	3	-9	1107	1085	99
1	3	-8	-186	167	99
1	3	-7	586	600	99
1	3	-6	1844	1837	99
1	3	-5	637	628	99
1	3	-4	421	400	99
1	3	-3	1930	2011	99
1	3	-2	2165	2249	99
1	3	-1	637	647	99
1	3	0	338	334	99
1	3	1	1678	1679	99
1	3	2	1630	1626	99
1	3	3	386	368	99
1	3	4	1850	1864	99
1	3	5	1107	1077	99
1	3	6	433	434	99
1	3	7	176	138	99
1	3	8	1245	1229	99
1	3	9	1041	1021	99
1	3	10	805	823	99
1	3	11	53	218	99
1	3	12	766	725	99
1	3	13	456	486	99
1	3	14	417	500	99
1	3	15	666	657	99
1	3	16	-162	47	99
1	3	17	-151	210	99
1	4	-17	343	414	99
1	4	-16	281	219	99
1	4	-15	900	908	99
1	4	-14	452	467	99
1	4	-13	307	186	99
1	4	-12	154	61	99
1	4	-11	1285	1218	99
1	4	-10	258	217	99
1	4	-9	1017	1033	99
1	4	-8	888	893	99
1	4	-7	417	476	99
1	4	-6	446	450	99
1	4	-5	1702	1684	99
1	4	-4	1153	1130	99
1	4	-3	467	461	99
1	4	-2	315	291	99
1	4	-1	1463	1498	99
1	4	0	794	760	99
1	4	1	70	16	99
1	4	2	432	420	99
1	4	3	1727	1693	99
1	4	4	1044	1070	99
1	4	5	984	958	99
1	4	6	152	109	99
1	4	7	1285	1344	99
1	4	8	143	37	99
1	4	9	1106	1086	99
1	4	10	677	646	99
1	4	11	-259	98	99
1	4	12	115	108	99
1	4	13	999	1013	99
1	4	14	334	348	99
1	4	15	246	102	99
1	4	16	203	157	99
1	4	17	227	366	99
1	5	-17	200	63	99
1	5	-16	783	807	99
1	5	-15	256	96	99
1	5	-14	857	772	99
1	5	-13	248	182	99
1	5	-12	584	625	99
1	5	-11	-451	97	99
1	5	-10	1651	1547	99
1	5	-9	753	728	99
1	5	-8	-207	95	99
1	5	-7	312	347	99
1	5	-6	1518	1534	99
1	5	-5	524	505	99
1	5	-4	649	640	99
1	5	-3	722	741	99
1	5	-2	1646	1603	99
1	5	-1	1053	1019	99
1	5	0	1391	1335	99
1	5	1	305	292	99
1	5	2	1710	1696	99
1	5	3	443	428	99
1	5	4	2158	2164	99
1	5	5	322	278	99
1	5	6	365	362	99
1	5	7	275	219	99
1	5	8	2050	2087	99
1	5	9	434	433	99
1	5	10	363	411	99
1	5	11	-241	96	99
1	5	12	720	700	99
1	5	13	-162	31	99
1	5	14	697	722	99
1	5	15	-115	149	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
2	18	2	833	814	99	2	21	-9	312	348	99	2	24	1	288	217	99	3	1	17	494	386	99	3	3	2	1080	1096	99
2	18	3	230	341	99	2	21	-8	-386	34	99	2	24	2	227	425	99	3	2	-17	-277	94	99	3	3	3	1643	1669	99
2	18	4	276	227	99	2	21	-7	743	698	99	2	24	3	238	265	99	3	2	-16	619	629	99	3	3	4	776	768	99
2	18	5	425	481	99	2	21	-6	-78	28	99	2	24	4	-129	4	99	3	2	-15	-253	77	99	3	3	5	328	339	99
2	18	6	762	743	99	2	21	-5	223	115	99	3	0	-16	475	499	99	3	2	-14	422	429	99	3	3	6	1192	1190	99
2	18	7	-77	41	99	2	21	-4	-158	42	99	3	0	-14	425	391	99	3	2	-13	275	373	99	3	3	7	781	748	99
2	18	8	346	393	99	2	21	-3	819	835	99	3	0	-12	903	900	99	3	2	-12	858	855	99	3	3	8	323	354	99
2	18	9	424	386	99	2	21	-2	224	122	99	3	0	-10	853	856	99	3	2	-11	442	508	99	3	3	9	752	729	99
2	18	10	189	101	99	2	21	-1	300	337	99	3	0	-8	484	429	99	3	2	-10	1162	1128	99	3	3	10	450	481	99
2	18	11	236	9	99	2	21	0	204	127	99	3	0	-6	1910	1883	99	3	2	-9	697	709	99	3	3	11	81	277	99
2	18	12	415	465	99	2	21	1	503	447	99	3	0	-4	195	165	99	3	2	-8	-119	122	99	3	3	12	210	102	99
2	19	-11	160	266	99	2	21	2	189	43	99	3	0	-2	2213	2225	99	3	2	-7	183	122	99	3	3	13	544	510	99
2	19	-10	216	256	99	2	21	3	615	589	99	3	0	0	775	742	99	3	2	-6	1717	1688	99	3	3	14	502	491	99
2	19	-9	397	380	99	2	21	4	146	196	99	3	0	2	2392	2337	99	3	2	-5	1573	1536	99	3	3	15	-148	19	99
2	19	-8	277	265	99	2	21	5	377	318	99	3	0	4	1789	1816	99	3	2	-4	275	251	99	3	3	16	258	198	99
2	19	-7	724	687	99	2	21	6	-299	21	99	3	0	6	982	989	99	3	2	-3	689	665	99	3	3	17	-145	179	99
2	19	-6	95	156	99	2	21	7	416	478	99	3	0	8	2092	2077	99	3	2	-2	1373	1366	99	3	4	-17	305	299	99
2	19	-5	89	75	99	2	21	8	170	80	99	3	0	10	524	499	99	3	2	-1	1060	1045	99	3	4	-16	-99	373	99
2	19	-4	544	514	99	2	21	9	215	64	99	3	0	12	1213	1133	99	3	2	0	1473	1432	99	3	4	-15	376	427	99
2	19	-3	804	783	99	2	22	-8	629	646	99	3	0	14	488	554	99	3	2	1	1223	1203	99	3	4	-14	-253	260	99
2	19	-2	-275	251	99	2	22	-7	-200	33	99	3	0	16	-164	84	99	3	2	2	1657	1684	99	3	4	-13	738	724	99
2	19	-1	416	350	99	2	22	-6	406	347	99	3	1	-17	475	456	99	3	2	3	110	11	99	3	4	-12	142	60	99
2	19	0	486	470	99	2	22	-5	42	36	99	3	1	-16	-287	105	99	3	2	4	1563	1580	99	3	4	-11	249	260	99
2	19	1	618	589	99	2	22	-4	417	411	99	3	1	-15	494	520	99	3	2	5	1017	1038	99	3	4	-10	1086	1094	99
2	19	2	-256	170	99	2	22	-3	-191	121	99	3	1	-14	115	76	99	3	2	6	593	599	99	3	4	-9	1185	1179	99
2	19	3	633	579	99	2	22	-2	723	689	99	3	1	-13	-220	56	99	3	2	7	367	348	99	3	4	-8	152	169	99
2	19	4	519	447	99	2	22	-1	-288	75	99	3	1	-12	177	70	99	3	2	8	1392	1376	99	3	4	-7	749	751	99
2	19	5	268	277	99	2	22	0	-354	152	99	3	1	-11	1514	1465	99	3	2	9	348	349	99	3	4	-6	510	502	99
2	19	6	-148	116	99	2	22	1	168	118	99	3	1	-10	299	283	99	3	2	10	280	289	99	3	4	-5	2090	2113	99
2	19	7	626	597	99	2	22	2	759	723	99	3	1	-9	393	358	99	3	2	11	602	600	99	3	4	-4	761	756	99
2	19	8	126	205	99	2	22	3	91	75	99	3	1	-8	181	94	99	3	2	12	782	770	99	3	4	-3	1451	1498	99
2	19	9	-263	34	99	2	22	4	146	30	99	3	1	-7	1179	1206	99	3	2	13	253	228	99	3	4	-2	734	759	99
2	19	10	-298	81	99	2	22	5	162	36	99	3	1	-6	352	318	99	3	2	14	480	505	99	3	4	-1	1062	1038	99
2	19	11	329	366	99	2	22	6	513	500	99	3	1	-5	1346	1346	99	3	2	15	344	232	99	3	4	0	201	178	99
2	20	-10	68	110	99	2	22	7	-146	89	99	3	1	-4	527	532	99	3	2	16	-91	274	99	3	4	1	2458	2443	99
2	20	-9	244	266	99	2	22	8	286	375	99	3	1	-3	1011	1004	99	3	2	17	220	84	99	3	4	2	408	406	99
2	20	-8	687	677	99	2	23	-7	452	469	99	3	1	-2	134	240	99	3	3	-17	195	348	99	3	4	3	458	427	99
2	20	-7	172	78	99	2	23	-6	230	122	99	3	1	-1	1804	1817	99	3	3	-16	-300	96	99	3	4	4	675	647	99
2	20	-6	511	469	99	2	23	-5	-212	17	99	3	1	0	1237	1239	99	3	3	-15	618	655	99	3	4	5	1329	1353	99
2	20	-5	-207	101	99	2	23	-4	240	230	99	3	1	1	1013	1020	99	3	3	-14	360	388	99	3	4	6	213	222	99
2	20	-4	515	471	99	2	23	-3	689	661	99	3	1	2	-66	63	99	3	3	-13	-152	202	99	3	4	7	661	615	99
2	20	-3	-190	160	99	2	23	-2	-191	226	99	3	1	3	1834	1801	99	3	3	-12	234	413	99	3	4	8	1075	1058	99
2	20	-2	830	787	99	2	23	-1	167	220	99	3	1	4	343	323	99	3	3	-11	907	906	99	3	4	9	663	638	99
2	20	-1	261	340	99	2	23	0	288	120	99	3	1	5	760	726	99	3	3	-10	989	995	99	3	4	10	-132	51	99
2	20	0	284	160	99	2	23	1	514	494	99	3	1	6	882	888	99	3	3	-9	786	776	99	3	4	11	391	382	99
2	20	1	131	246	99	2	23	2	216	84	99	3	1	7	2092	2028	99	3	3	-8	481	502	99	3	4	12	193	371	99
2	20	2	691	700	99	2	23	3	429	455	99	3	1	8	336	322	99	3	3	-7	767	762	99	3	4	13	559	495	99
2	20	3	174	238	99	2	23	4	-149	227	99	3	1	9	1109	1111	99	3	3	-6	757	744	99	3	4	14	-240	348	99
2	20	4	-118	167	99	2	23	5	410	400	99	3	1	10	425	398	99	3	3	-5	1254	1268	99	3	4	15	309	395	99
2	20	5	143	115	99	2	23	6	-311	85	99	3	1	11	433	376	99	3	3	-4	1677	1646	99	3	4	16	222	242	99
2	20	6	576	504	99	2	24	-4	270	286	99	3	1	12	-6	155	99	3	3	-3	802	767	99	3	5	-17	262	291	99
2	20	7	179	43	99	2	24	-3	-57	29	99	3	1	13	1164	1130	99	3	3	-2	175	125	99	3	5	-16	194	18	99
2	20	8	200	311	99	2	24	-2	459	427	99	3	1	14	-53	192	99	3	3	-1	956	940	99	3	5	-15	213	202	99
2	20	9	226	161	99	2	24	-1	237	349	99	3	1	15	167	155	99	3	3	0	1893	1905	99	3	5	-14	746	778	99
2	20	10	390	323	99	2	24	0	228	113	99	3	1	16	119	153	99	3	3	1	305	291	99	3	5	-13	-330	122	99
3	5	-12	221	262	99	3	6	9	1126	1092	99	3	8	-2	1384	1384	99	3	10	-12	660	640	99	3	11	12	328	320	99
3	5	-11	-137	68	99	3	6	10	-94	36	99	3	8	-1	1383	1394	99	3	10	-11	-276	101	99	3	11	13	617	599	99
3	5	-10	1040	1058	99	3	6	11	462	481	99	3	8	0	312	277	99	3	10	-10	1071	1037	99	3	11	14	95	2	99
3	5	-9	-83	163	99	3	6	12	135	33	99	3	8	1	1598	1584	99	3	10	-9	164	112	99	3	11	15	-225	80	99
3	5	-8	940	949	99	3	6	13	339	350	99	3	8	2	1198	1204	99	3	10	-8	648	662	99	3	12	-15	-223	287	99
3	5	-7	54	25	99	3	6	14	-137	70	99	3	8	3	328	317	99	3	10	-7	422	410	99	3	12	-14	303	293	99
3	5	-6	1049	1035	99	3	6	15	587	611	99	3	8	4	723	717	99	3	10	-6	1094	1076	99	3	12	-13	-206	252	99
3	5	-5	213	158	99	3	6	16	-140	59	99	3	8	5	1209	1229	99	3	10	-5	594	604	99	3	12	-12	800	744	99
3	5	-4	1948	1972	99	3	7	-16	189	213	99	3	8	6	586	600	99	3	10	-4	173	23	99	3	12	-11	236	113	99
3	5	-3	123	68	99	3	7	-15	91	228	99	3	8	7	346	373	99	3	10	-3	219	76	99	3	12	-10	859	842	99
3	5	-2	-101	91	99	3	7	-14	488	391	99	3	8	8	1270	1313	99	3	10	-2	1464	1463	99	3	12	-9	566	534	99
3	5	-1	320	285	99	3	7	-13	231	319	99	3	8	9	818	787	99	3	10	-1	276	249	99	3	12	-8	-44	98	99
3	5	0	1991	2002	99	3	7	-12	139	93	99	3	8	10	172	30	99	3	10	0	476	426	99	3	12	-7	250	216	99
3	5	1	85	14	99	3	7	-11	618	586	99	3	8	11	207	229	99	3	10	1	559	560	99	3	12	-6	1552	1619	99
3	5	2	1047	1061	99	3	7	-10	670	712	99	3	8	12	537	546	99	3	10	2	1423	1395	99	3	12	-5	338	255	99
3	5	3	1065	1052	99	3	7	-9	155	101	99	3	8	13	225	347	99	3	10	3	78	29	99	3	12	-4	-158	117	99
3	5	4	680	706	99	3	7	-8	573	561	99	3	8	14	441	482	99	3	10	4	1152	1182	99	3	12	-3	726	707	99
3	5	5	253	264	99	3	7	-7	731	742	99	3	8	15	392	398	99	3	10	5	-144	66	99	3	12	-2	883	905	99
3	5	6	1209	1175	99	3	7	-6	992	998	99	3	8	16	197	174	99	3	10	6	805	791	99	3	12	-1	173	306	99
3	5	7	236	211	99	3	7	-5	428	444	99	3	9	-16	62	27	99	3	10	7	-213	209	99	3	12	0	902	884	99
3	5	8	236	249	99	3	7	-4	1933	1881	99	3	9	-15	484	435	99	3	10	8	1254	1316	99	3	12	1	488	468	99
3	5	9	552	583	99	3	7	-3	746	731	99	3	9	-14	325	213	99	3	10	9	-143	67	99	3	12	2	1212	1172	99
3	5	10	573	532	99	3	7	-2	547	553	99	3	9	-13	438	407	99	3	10	10	-244	12	99	3	12	3	482	434	99
3	5	11	159	129	99	3	7	-1	534	527	99	3	9	-12	-338	121	99	3	10	11	278	228	99	3	12	4	714	742	99
3	5	12	-310	145	99	3	7	0	1733	1691	99	3	9	-11	649	646	99	3	10	12	793	757	99	3	12	5	386	444	99
3	5	13	171	145	99	3	7	1	407	402	99	3	9	-10	299	283	99	3	10	13	493	432	99	3	12	6	483	453	99
3	5	14	652	628	99	3	7	2	1208	1205	99	3	9	-9	-215	27	99	3	10	14	419	446	99	3	12	7	449	449	99
3	5	15	-32	157	99	3	7	3	829	847	99	3	9	-8	518	480	99	3	10	15	160	134	99	3	12	8	965	986	99
3	5	16	-94	121	99	3	7	4	1311	1388	99	3	9	-7	1038	1022	99	3	11	-15	575	567	99	3	12	9	105	100	99
3	6	-17	273	340	99	3	7	5	233	189	99	3	9	-6	447	434	99	3	11	-14	-307	120	99	3	12	10	-85	111	99
3	6	-16	221	235	99	3	7	6	1077	1058	99	3	9	-5	543	518	99	3	11	-13	-150	245	99	3	12	11	-98	364	99
3	6	-15	154	204	99	3	7	7	596	578	99	3	9	-4	856	851	99	3	11	-12	-275	124	99	3	12	12	693	682	99
3	6	-14	209	99	99	3	7	8	-169	55	99	3	9	-3	1334	1309	99	3	11	-11	1101	1078	99	3	12	13	-221	140	99
3	6	-13	473	471	99	3	7	9	335	330	99	3	9	-2	143	132	99	3	11	-10	241	158	99	3	12	14	213	145	99
3	6	-12	439	466	99	3	7	10	1209	1149	99	3	9	-1	1035	1029	99	3	11	-9	584	564	99	3	13	-14	558	445	99
3	6	-11	171	134	99	3	7	11	172	189	99	3	9	0	1105	1067	99	3	11	-8	-342	149	99	3	13	-13	-163	91	99
3	6	-10	182	127	99	3	7	12	103	162	99	3	9	1	717	711	99	3	11	-7	1136	1138	99	3	13	-12	239	339	99
3	6	-9	1297	1276	99	3	7	13	303	306	99	3	9	2	628	618	99	3	11	-6	159	26	99	3	13	-11	912	849	99
3	6	-8	436	421	99	3	7	14	391	431	99	3	9	3	1957	2013	99	3	11	-5	1032	1021	99	3	13	-10	511	439	99
3	6	-7	248	205	99	3	7	15	-156	22	99	3	9	4	460	470	99	3	11	-4	-87	106	99	3	13	-9	302	268	99
3	6	-6	-109	211	99	3	7	16	-378	174	99	3	9	5	-88	54	99	3	11	-3	768	768	99	3	13	-8	859	860	99
3	6	-5	1503	1473	99	3	8	-16	-210	300	99	3	9	6	348	326	99	3	11	-2	89	93	99	3	13	-7	591	572	99
3	6	-4	252	224	99	3	8	-15	62	113	99	3	9	7	1226	1179	99	3	11	-1	1515	1445	99	3	13	-6	-45	53	99
3	6	-3	1629	1610	99	3	8	-14	254	30	99	3	9	8	294	303	99	3	11	0	189	134	99	3	13	-5	721	727	99
3	6	-2	333	326	99	3	8	-13	187	232	99	3	9	9	1051	1063	99	3	11	1	327	300	99	3	13	-4	1024	1044	99
3	6	-1	1448	1458	99	3	8	-12	117	478	99	3	9	10	-226	116	99	3	11	2	587	582	99	3	13	-3	269	258	99
3	6	0	168	135	99	3	8	-11	-354	21	99	3	9	11	496	495	99	3	11	3	1494	1507	99	3	13	-2	573	567	99
3	6	1	2468	2448	99	3	8	-10	182	397	99	3	9	12	276	220	99	3	11	4	385	354	99	3	13	-1	983	1004	99
3	6	2	105	149	99	3	8	-9	817	811	99	3	9	13	711	792	99	3	11	5	363	377	99	3	13	0	526	526	99
3	6	3	337	342	99	3	8	-8	720	715	99	3	9	14	367	367	99	3	11	6	396	281	99	3	13	1	534	496	99
3	6	4	339	311	99	3	8	-7	314	296	99	3	9	15	-94	143	99	3	11	7	1192	1183	99	3	13	2	984	1004	99
3	6	5	1761	1799	99	3	8	-6	616	617	99	3	10	-16	628	590	99	3	11	8	168	316	99	3	13	3	858	852	99
3	6	6	63	91	99	3	8	-5	1163	1188	99	3	10	-15	-303	147	99	3	11	9	577	627	99	3	13	4	85	131	99
3	6	7	679	674	99	3	8	-4	73	102	99	3	10	-14	-190	165	99	3	11	10	345	367	99	3	13	5	195	204	99
3	6	8	271	225	99	3	8	-3	845	860	99	3	10	-13	199	189	99	3	11	11	464	416	99	3	13	6	659	695	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
3	13	7	1059	1041	99	3	15	5	-107	26	99	3	17	8	121	70	99	3	20	-6	530	510	99	3	23	0	222	183	99
3	13	8	159	233	99	3	15	6	1203	1205	99	3	17	9	208	119	99	3	20	-5	229	70	99	3	23	1	170	324	99
3	13	9	421	437	99	3	15	7	531	515	99	3	17	10	633	604	99	3	20	-4	178	12	99	3	23	2	245	274	99
3	13	10	523	486	99	3	15	8	-117	94	99	3	17	11	81	97	99	3	20	-3	479	376	99	3	23	3	472	465	99
3	13	11	365	279	99	3	15	9	146	239	99	3	17	12	130	81	99	3	20	-2	632	669	99	3	23	4	-153	162	99
3	13	12	-277	201	99	3	15	10	529	591	99	3	18	-12	325	307	99	3	20	-1	271	150	99	3	23	5	-85	85	99
3	13	13	454	478	99	3	15	11	302	227	99	3	18	-11	46	145	99	3	20	0	220	106	99	3	24	-3	140	299	99
3	13	14	-85	234	99	3	15	12	297	326	99	3	18	-10	70	73	99	3	20	1	180	269	99	3	24	-2	216	223	99
3	14	-14	342	287	99	3	15	13	-323	206	99	3	18	-9	551	577	99	3	20	2	457	439	99	3	24	-1	283	212	99
3	14	-13	495	584	99	3	16	-13	445	336	99	3	18	-8	161	300	99	3	20	3	-181	14	99	3	24	0	253	62	99
3	14	-12	301	146	99	3	16	-12	-281	180	99	3	18	-7	-60	207	99	3	20	4	370	391	99	3	24	1	234	368	99
3	14	-11	154	90	99	3	16	-11	116	27	99	3	18	-6	334	384	99	3	20	5	145	112	99	3	24	2	358	355	99
3	14	-10	445	424	99	3	16	-10	152	248	99	3	18	-5	512	504	99	3	20	6	318	296	99	4	0	-16	471	524	99
3	14	-9	680	721	99	3	16	-9	465	463	99	3	18	-4	425	466	99	3	20	7	54	60	99	4	0	-14	714	762	99
3	14	-8	-221	33	99	3	16	-8	288	282	99	3	18	-3	642	687	99	3	20	8	421	441	99	4	0	-12	164	81	99
3	14	-7	615	633	99	3	16	-7	401	359	99	3	18	-2	434	461	99	3	20	9	-233	157	99	4	0	-10	1026	1024	99
3	14	-6	506	529	99	3	16	-6	-121	104	99	3	18	-1	437	355	99	3	21	-9	-127	69	99	4	0	-8	355	392	99
3	14	-5	957	936	99	3	16	-5	984	1021	99	3	18	0	-124	167	99	3	21	-8	309	119	99	4	0	-6	1537	1502	99
3	14	-4	-216	57	99	3	16	-4	222	218	99	3	18	1	716	721	99	3	21	-7	553	564	99	4	0	-4	326	322	99
3	14	-3	947	965	99	3	16	-3	684	750	99	3	18	2	662	619	99	3	21	-6	150	31	99	4	0	-2	1469	1495	99
3	14	-2	521	568	99	3	16	-2	31	13	99	3	18	3	-107	213	99	3	21	-5	-210	321	99	4	0	0	2135	2125	99
3	14	-1	-201	104	99	3	16	-1	560	558	99	3	18	4	370	367	99	3	21	-4	-100	86	99	4	0	2	1534	1582	99
3	14	0	283	254	99	3	16	0	150	18	99	3	18	5	576	585	99	3	21	-3	358	360	99	4	0	4	2334	2331	99
3	14	1	1550	1538	99	3	16	1	1475	1473	99	3	18	6	293	268	99	3	21	-2	320	139	99	4	0	6	590	586	99
3	14	2	884	912	99	3	16	2	-297	122	99	3	18	7	107	256	99	3	21	-1	370	444	99	4	0	8	2002	1965	99
3	14	3	236	223	99	3	16	3	200	79	99	3	18	8	375	328	99	3	21	0	-133	70	99	4	0	10	993	962	99
3	14	4	561	592	99	3	16	4	155	88	99	3	18	9	314	347	99	3	21	1	-122	152	99	4	0	12	814	742	99
3	14	5	852	867	99	3	16	5	1051	1077	99	3	18	10	-245	123	99	3	21	2	-226	31	99	4	0	14	672	658	99
3	14	6	472	406	99	3	16	6	169	188	99	3	18	11	215	184	99	3	21	3	627	599	99	4	0	16	-287	49	99
3	14	7	608	630	99	3	16	7	592	601	99	3	19	-11	268	330	99	3	21	4	-295	65	99	4	1	-17	261	40	99
3	14	8	832	863	99	3	16	8	263	54	99	3	19	-10	-84	74	99	3	21	5	-210	66	99	4	1	-16	-160	71	99
3	14	9	403	391	99	3	16	9	534	512	99	3	19	-9	235	21	99	3	21	6	-311	18	99	4	1	-15	744	725	99
3	14	10	-77	110	99	3	16	10	-321	86	99	3	19	-8	419	418	99	3	21	7	412	431	99	4	1	-14	351	132	99
3	14	11	530	568	99	3	16	11	624	645	99	3	19	-7	562	572	99	3	21	8	150	68	99	4	1	-13	626	599	99
3	14	12	498	510	99	3	16	12	178	31	99	3	19	-6	-143	22	99	3	22	-7	-232	64	99	4	1	-12	-162	63	99
3	14	13	186	158	99	3	17	-12	-224	273	99	3	19	-5	-96	212	99	3	22	-6	442	340	99	4	1	-11	1019	1029	99
3	14	14	174	141	99	3	17	-11	-361	138	99	3	19	-4	591	617	99	3	22	-5	191	35	99	4	1	-10	-137	15	99
3	15	-13	197	190	99	3	17	-10	179	256	99	3	19	-3	500	470	99	3	22	-4	269	65	99	4	1	-9	915	896	99
3	15	-12	352	369	99	3	17	-9	418	310	99	3	19	-2	-190	181	99	3	22	-3	-129	263	99	4	1	-8	-155	68	99
3	15	-11	108	129	99	3	17	-8	477	466	99	3	19	-1	480	496	99	3	22	-2	546	549	99	4	1	-7	695	696	99
3	15	-10	487	482	99	3	17	-7	259	356	99	3	19	0	291	363	99	3	22	-1	-296	24	99	4	1	-6	179	170	99
3	15	-9	-52	275	99	3	17	-6	118	316	99	3	19	1	111	268	99	3	22	0	162	47	99	4	1	-5	1636	1627	99
3	15	-8	665	647	99	3	17	-5	-53	135	99	3	19	2	475	472	99	3	22	1	179	63	99	4	1	-4	488	474	99
3	15	-7	-164	43	99	3	17	-4	791	848	99	3	19	3	591	593	99	3	22	2	515	534	99	4	1	-3	577	555	99
3	15	-6	327	354	99	3	17	-3	398	355	99	3	19	4	165	281	99	3	22	3	228	97	99	4	1	-2	405	394	99
3	15	-5	134	102	99	3	17	-2	89	111	99	3	19	5	-266	39	99	3	22	4	55	271	99	4	1	-1	2348	2401	99
3	15	-4	1095	1108	99	3	17	-1	438	413	99	3	19	6	-352	218	99	3	22	5	-209	79	99	4	1	0	785	777	99
3	15	-3	-199	201	99	3	17	0	987	998	99	3	19	7	470	472	99	3	22	6	328	309	99	4	1	1	488	465	99
3	15	-2	427	449	99	3	17	1	367	364	99	3	19	8	-67	44	99	3	22	7	177	116	99	4	1	2	427	435	99
3	15	-1	241	57	99	3	17	2	840	833	99	3	19	9	354	276	99	3	23	-6	-18	59	99	4	1	3	2238	2267	99
3	15	0	1443	1436	99	3	17	3	323	265	99	3	19	10	-284	222	99	3	23	-5	209	153	99	4	1	4	196	113	99
3	15	1	340	284	99	3	17	4	648	610	99	3	20	-10	401	342	99	3	23	-4	247	280	99	4	1	5	1755	1784	99
3	15	2	614	600	99	3	17	5	-235	198	99	3	20	-9	124	179	99	3	23	-3	391	433	99	4	1	6	767	773	99
3	15	3	451	417	99	3	17	6	810	783	99	3	20	-8	440	394	99	3	23	-2	-328	89	99	4	1	7	1075	1070	99
3	15	4	281	294	99	3	17	7	350	387	99	3	20	-7	231	48	99	3	23	-1	281	232	99	4	1	8	151	131	99
4	1	9	1640	1533	99	4	3	-4	1274	1232	99	4	5	-15	106	227	99	4	6	7	793	765	99	4	8	-3	1045	1054	99
4	1	10	158	322	99	4	3	-3	179	166	99	4	5	-14	539	593	99	4	6	8	273	203	99	4	8	-2	1168	1169	99
4	1	11	310	180	99	4	3	-2	1193	1157	99	4	5	-13	169	112	99	4	6	9	218	163	99	4	8	-1	-164	130	99
4	1	12	429	427	99	4	3	-1	1771	1739	99	4	5	-12	661	663	99	4	6	10	256	260	99	4	8	0	812	779	99
4	1	13	942	909	99	4	3	0	215	186	99	4	5	-11	189	48	99	4	6	11	872	874	99	4	8	1	502	506	99
4	1	14	-163	152	99	4	3	1	625	635	99	4	5	-10	-210	36	99	4	6	12	-134	54	99	4	8	2	108	136	99
4	1	15	345	247	99	4	3	2	1533	1544	99	4	5	-9	130	181	99	4	6	13	355	210	99	4	8	3	361	391	99
4	1	16	-362	200	99	4	3	3	1364	1399	99	4	5	-8	2015	1941	99	4	6	14	-204	35	99	4	8	4	1289	1338	99
4	2	-17	219	203	99	4	3	4	-126	6	99	4	5	-7	266	273	99	4	6	15	596	539	99	4	8	5	599	583	99
4	2	-16	484	468	99	4	3	5	892	909	99	4	5	-6	801	815	99	4	6	16	-170	57	99	4	8	6	367	348	99
4	2	-15	-280	38	99	4	3	6	1090	1092	99	4	5	-5	204	178	99	4	7	-16	-301	219	99	4	8	7	511	472	99
4	2	-14	711	743	99	4	3	7	463	452	99	4	5	-4	1307	1282	99	4	7	-15	215	404	99	4	8	8	690	700	99
4	2	-13	315	314	99	4	3	8	383	372	99	4	5	-3	167	217	99	4	7	-14	397	325	99	4	8	9	338	325	99
4	2	-12	303	303	99	4	3	9	921	943	99	4	5	-2	2217	2168	99	4	7	-13	-112	7	99	4	8	10	655	672	99
4	2	-11	148	236	99	4	3	10	623	630	99	4	5	-1	609	615	99	4	7	-12	183	419	99	4	8	11	542	539	99
4	2	-10	1116	1074	99	4	3	11	279	193	99	4	5	0	458	458	99	4	7	-11	278	329	99	4	8	12	263	201	99
4	2	-9	382	407	99	4	3	12	610	656	99	4	5	1	290	310	99	4	7	-10	-77	106	99	4	8	13	-241	197	99
4	2	-8	510	503	99	4	3	13	-46	266	99	4	5	2	1453	1455	99	4	7	-9	554	571	99	4	8	14	373	453	99
4	2	-7	765	758	99	4	3	14	-298	222	99	4	5	3	618	620	99	4	7	-8	1074	1092	99	4	8	15	446	366	99
4	2	-6	1572	1543	99	4	3	15	206	68	99	4	5	4	219	186	99	4	7	-7	494	495	99	4	9	-15	545	473	99
4	2	-5	462	444	99	4	3	16	-178	416	99	4	5	5	-81	54	99	4	7	-6	308	309	99	4	9	-14	-227	56	99
4	2	-4	1040	1031	99	4	4	-16	127	247	99	4	5	6	898	911	99	4	7	-5	578	572	99	4	9	-13	-157	112	99
4	2	-3	714	701	99	4	4	-15	-226	169	99	4	5	7	89	135	99	4	7	-4	830	826	99	4	9	-12	338	266	99
4	2	-2	1289	1260	99	4	4	-14	451	456	99	4	5	8	350	388	99	4	7	-3	210	178	99	4	9	-11	327	385	99
4	2	-1	564	562	99	4	4	-13	755	787	99	4	5	9	379	320	99	4	7	-2	1110	1117	99	4	9	-10	186	64	99
4	2	0	1735	1731	99	4	4	-12	149	217	99	4	5	10	750	737	99	4	7	-1	908	924	99	4	9	-9	680	639	99
4	2	1	1282	1310	99	4	4	-11	403	382	99	4	5	11	269	268	99	4	7	0	297	312	99	4	9	-8	505	540	99
4	2	2	699	685	99	4	4	-10	807	788	99	4	5	12	466	490	99	4	7	1	634	624	99	4	9	-7	598	586	99
4	2	3	132	149	99	4	4	-9	942	941	99	4	5	13	208	97	99	4	7	2	1071	1130	99	4	9	-6	343	411	99
4	2	4	1970	1952	99	4	4	-8	273	232	99	4	5	14	240	246	99	4	7	3	675	689	99	4	9	-5	871	864	99
4	2	5	519	565	99	4	4	-7	1835	1832	99	4	5	15	-375	46	99	4	7	4	162	192	99	4	9	-4	98	215	99
4	2	6	164	173	99	4	4	-6	386	404	99	4	5	16	478	513	99	4	7	5	570	595	99	4	9	-3	416	395	99
4	2	7	771	747	99	4	4	-5	369	316	99	4	6	-16	150	250	99	4	7	6	795	797	99	4	9	-2	597	578	99
4	2	8	1086	1036	99	4	4	-4	727	755	99	4	6	-15	206	23	99	4	7	7	60	109	99	4	9	-1	1433	1420	99
4	2	9	357	328	99	4	4	-3	1679	1634	99	4	6	-14	6	92	99	4	7	8	351	351	99	4	9	0	-207	113	99
4	2	10	877	887	99	4	4	-2	1070	1077	99	4	6	-13	652	646	99	4	7	9	539	603	99	4	9	1	345	328	99
4	2	11	815	771	99	4	4	-1	1229	1222	99	4	6	-12	251	171	99	4	7	10	1069	1088	99	4	9	2	-68	138	99
4	2	12	492	436	99	4	4	0	242	260	99	4	6	-11	222	287	99	4	7	11	107	28	99	4	9	3	1470	1443	99
4	2	13	-200	64	99	4	4	1	764	776	99	4	6	-10	303	296	99	4	7	12	329	302	99	4	9	4	-132	16	99
4	2	14	459	488	99	4	4	2	359	352	99	4	6	-9	934	915	99	4	7	13	-97	120	99	4	9	5	873	857	99
4	2	15	318	311	99	4	4	3	1216	1227	99	4	6	-8	174	112	99	4	7	14	194	160	99	4	9	6	312	351	99
4	2	16	238	127	99	4	4	4	1222	1259	99	4	6	-7	1066	1034	99	4	7	15	131	194	99	4	9	7	375	320	99
4	3	-17	-269	116	99	4	4	5	543	580	99	4	6	-6	348	323	99	4	8	-16	-317	112	99	4	9	8	280	239	99
4	3	-16	195	177	99	4	4	6	-213	26	99	4	6	-5	-90	77	99	4	8	-15	-357	67	99	4	9	9	1218	1220	99
4	3	-15	707	793	99	4	4	7	887	881	99	4	6	-4	404	385	99	4	8	-14	323	339	99	4	9	10	166	215	99
4	3	-14	262	239	99	4	4	8	409	414	99	4	6	-3	2009	2091	99	4	8	-13	254	273	99	4	9	11	125	47	99
4	3	-13	-292	119	99	4	4	9	263	206	99	4	6	-2	303	297	99	4	8	-12	133	157	99	4	9	12	118	247	99
4	3	-12	671	672	99	4	4	10	336	328	99	4	6	-1	411	370	99	4	8	-11	-156	174	99	4	9	13	439	468	99
4	3	-11	530	530	99	4	4	11	871	859	99	4	6	0	450	440	99	4	8	-10	474	494	99	4	9	14	235	215	99
4	3	-10	430	376	99	4	4	12	-108	147	99	4	6	1	1160	1152	99	4	8	-9	574	584	99	4	9	15	100	374	99
4	3	-9	1400	1327	99	4	4	13	108	84	99	4	6	2	419	411	99	4	8	-8	-126	68	99	4	10	-15	-400	106	99
4	3	-8	979	979	99	4	4	14	-198	228	99	4	6	3	1202	1223	99	4	8	-7	482	498	99	4	10	-14	441	477	99
4	3	-7	782	783	99	4	4	15	432	422	99	4	6	4	15	161	99	4	8	-6	633	616	99	4	10	-13	89	18	99
4	3	-6	717	718	99	4	4	16	-219	158	99	4	6	5	816	817	99	4	8	-5	-157	146	99	4	10	-12	130	205	99
4	3	-5	1514	1474	99	4	5	-16	187	257	99	4	6	6	276	232	99	4	8	-4	585	583	99	4	10	-11	-146	108	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
4	10	-10	907	870	99	4	12	-14	614	567	99	4	13	12	335	296	99	4	16	-12	-192	73	99	4	18	-5	-173	75	99
4	10	-9	62	53	99	4	12	-13	-143	289	99	4	13	13	392	402	99	4	16	-11	274	196	99	4	18	-4	193	42	99
4	10	-8	-302	33	99	4	12	-12	-54	177	99	4	14	-13	566	636	99	4	16	-10	-127	34	99	4	18	-3	747	831	99
4	10	-7	445	421	99	4	12	-11	54	180	99	4	14	-12	163	36	99	4	16	-9	565	555	99	4	18	-2	185	138	99
4	10	-6	908	853	99	4	12	-10	833	814	99	4	14	-11	243	260	99	4	16	-8	178	156	99	4	18	-1	289	262	99
4	10	-5	207	211	99	4	12	-9	535	528	99	4	14	-10	293	331	99	4	16	-7	808	799	99	4	18	0	331	337	99
4	10	-4	737	726	99	4	12	-8	369	330	99	4	14	-9	696	726	99	4	16	-6	170	56	99	4	18	1	-241	198	99
4	10	-3	158	66	99	4	12	-7	512	549	99	4	14	-8	-227	85	99	4	16	-5	428	410	99	4	18	2	194	145	99
4	10	-2	1000	990	99	4	12	-6	1013	998	99	4	14	-7	751	733	99	4	16	-4	-78	84	99	4	18	3	439	436	99
4	10	-1	508	479	99	4	12	-5	408	360	99	4	14	-6	311	316	99	4	16	-3	957	987	99	4	18	4	281	274	99
4	10	0	1211	1181	99	4	12	-4	416	444	99	4	14	-5	335	387	99	4	16	-2	-81	100	99	4	18	5	435	428	99
4	10	1	303	255	99	4	12	-3	1001	980	99	4	14	-4	-226	105	99	4	16	-1	149	182	99	4	18	6	-192	178	99
4	10	2	496	499	99	4	12	-2	757	715	99	4	14	-3	1078	1091	99	4	16	0	-274	18	99	4	18	7	200	245	99
4	10	3	118	132	99	4	12	-1	168	135	99	4	14	-2	574	569	99	4	16	1	944	953	99	4	18	8	209	221	99
4	10	4	1588	1595	99	4	12	0	1004	984	99	4	14	-1	312	347	99	4	16	2	228	139	99	4	18	9	210	245	99
4	10	5	-114	208	99	4	12	1	663	648	99	4	14	0	439	375	99	4	16	3	406	371	99	4	18	10	371	284	99
4	10	6	252	212	99	4	12	2	444	399	99	4	14	1	1195	1165	99	4	16	4	208	199	99	4	19	-10	213	129	99
4	10	7	260	221	99	4	12	3	549	537	99	4	14	2	497	496	99	4	16	5	671	659	99	4	19	-9	-145	171	99
4	10	8	1055	1072	99	4	12	4	1069	1056	99	4	14	3	538	544	99	4	16	6	187	240	99	4	19	-8	594	627	99
4	10	9	21	93	99	4	12	5	310	412	99	4	14	4	718	706	99	4	16	7	650	665	99	4	19	-7	-127	236	99
4	10	10	563	598	99	4	12	6	309	316	99	4	14	5	428	443	99	4	16	8	153	90	99	4	19	-6	186	287	99
4	10	11	-200	72	99	4	12	7	583	547	99	4	14	6	93	24	99	4	16	9	404	345	99	4	19	-5	497	474	99
4	10	12	196	186	99	4	12	8	686	706	99	4	14	7	686	702	99	4	16	10	-304	42	99	4	19	-4	93	318	99
4	10	13	-233	116	99	4	12	9	190	21	99	4	14	8	579	593	99	4	16	11	664	671	99	4	19	-3	-231	89	99
4	10	14	562	536	99	4	12	10	429	472	99	4	14	9	203	174	99	4	16	12	-141	106	99	4	19	-2	535	575	99
4	11	-15	559	639	99	4	12	11	387	300	99	4	14	10	350	288	99	4	17	-12	411	407	99	4	19	-1	499	400	99
4	11	-14	-124	197	99	4	12	12	266	291	99	4	14	11	520	532	99	4	17	-11	201	190	99	4	19	0	185	84	99
4	11	-13	275	302	99	4	12	13	176	179	99	4	14	12	381	306	99	4	17	-10	62	205	99	4	19	1	273	241	99
4	11	-12	-279	91	99	4	12	14	-148	259	99	4	14	13	185	89	99	4	17	-9	-303	215	99	4	19	2	388	403	99
4	11	-11	721	741	99	4	13	-14	115	400	99	4	15	-13	-120	159	99	4	17	-8	727	755	99	4	19	3	386	267	99
4	11	-10	165	26	99	4	13	-13	425	425	99	4	15	-12	625	635	99	4	17	-7	-249	72	99	4	19	4	166	34	99
4	11	-9	788	770	99	4	13	-12	438	538	99	4	15	-11	254	57	99	4	17	-6	294	296	99	4	19	5	361	405	99
4	11	-8	398	319	99	4	13	-11	523	537	99	4	15	-10	404	324	99	4	17	-5	108	97	99	4	19	6	167	196	99
4	11	-7	515	489	99	4	13	-10	-250	276	99	4	15	-9	-198	218	99	4	17	-4	813	763	99	4	19	7	-101	57	99
4	11	-6	216	232	99	4	13	-9	525	453	99	4	15	-8	803	834	99	4	17	-3	-123	107	99	4	19	8	-141	33	99
4	11	-5	1207	1205	99	4	13	-8	793	783	99	4	15	-7	-115	149	99	4	17	-2	755	728	99	4	19	9	315	279	99
4	11	-4	150	202	99	4	13	-7	-212	161	99	4	15	-6	285	262	99	4	17	-1	51	202	99	4	20	-9	201	141	99
4	11	-3	17	199	99	4	13	-6	376	403	99	4	15	-5	-52	175	99	4	17	0	422	380	99	4	20	-8	236	78	99
4	11	-2	202	236	99	4	13	-5	729	732	99	4	15	-4	1000	1008	99	4	17	1	-228	50	99	4	20	-7	245	254	99
4	11	-1	1346	1286	99	4	13	-4	853	869	99	4	15	-3	190	153	99	4	17	2	796	807	99	4	20	-6	390	409	99
4	11	0	302	255	99	4	13	-3	-151	107	99	4	15	-2	814	807	99	4	17	3	186	63	99	4	20	-5	212	166	99
4	11	1	327	380	99	4	13	-2	711	719	99	4	15	-1	379	360	99	4	17	4	148	158	99	4	20	-4	385	391	99
4	11	2	540	523	99	4	13	-1	1224	1234	99	4	15	0	821	761	99	4	17	5	262	278	99	4	20	-3	348	375	99
4	11	3	1131	1100	99	4	13	0	-132	153	99	4	15	1	317	120	99	4	17	6	719	735	99	4	20	-2	199	356	99
4	11	4	102	163	99	4	13	1	90	71	99	4	15	2	763	771	99	4	17	7	-249	123	99	4	20	-1	199	85	99
4	11	5	1037	1038	99	4	13	2	981	987	99	4	15	3	496	544	99	4	17	8	223	123	99	4	20	0	475	480	99
4	11	6	228	297	99	4	13	3	934	946	99	4	15	4	166	96	99	4	17	9	-41	117	99	4	20	1	172	70	99
4	11	7	523	547	99	4	13	4	-230	97	99	4	15	5	127	236	99	4	17	10	514	541	99	4	20	2	135	54	99
4	11	8	284	358	99	4	13	5	712	747	99	4	15	6	992	1026	99	4	17	11	-115	208	99	4	20	3	-309	143	99
4	11	9	792	804	99	4	13	6	572	607	99	4	15	7	425	444	99	4	18	-11	-268	248	99	4	20	4	497	487	99
4	11	10	220	233	99	4	13	7	621	592	99	4	15	8	208	141	99	4	18	-10	127	127	99	4	20	5	-93	174	99
4	11	11	191	176	99	4	13	8	286	276	99	4	15	9	311	346	99	4	18	-9	519	486	99	4	20	6	156	228	99
4	11	12	188	211	99	4	13	9	554	552	99	4	15	10	502	506	99	4	18	-8	132	78	99	4	20	7	140	36	99
4	11	13	457	489	99	4	13	10	367	328	99	4	15	11	-272	145	99	4	18	-7	652	680	99	4	20	8	228	242	99
4	11	14	38	48	99	4	13	11	-113	24	99	4	15	12	497	531	99	4	18	-6	250	335	99	4	21	-8	99	63	99
4	21	-7	-286	214	99	5	1	-12	194	193	99	5	2	11	507	428	99	5	4	2	406	425	99	5	6	-6	127	103	99
4	21	-6	-155	116	99	5	1	-11	676	655	99	5	2	12	222	109	99	5	4	3	1387	1414	99	5	6	-5	868	870	99
4	21	-5	345	373	99	5	1	-10	-106	144	99	5	2	13	264	466	99	5	4	4	589	586	99	5	6	-4	473	467	99
4	21	-4	-260	54	99	5	1	-9	554	585	99	5	2	14	398	338	99	5	4	5	175	174	99	5	6	-3	1156	1162	99
4	21	-3	53	107	99	5	1	-8	214	306	99	5	2	15	255	27	99	5	4	6	82	67	99	5	6	-2	-43	75	99
4	21	-2	123	51	99	5	1	-7	319	274	99	5	3	-16	408	336	99	5	4	7	1240	1181	99	5	6	-1	1060	1088	99
4	21	-1	538	509	99	5	1	-6	278	314	99	5	3	-15	412	324	99	5	4	8	123	57	99	5	6	0	468	466	99
4	21	0	207	16	99	5	1	-5	1694	1704	99	5	3	-14	154	19	99	5	4	9	287	280	99	5	6	1	583	566	99
4	21	1	-217	309	99	5	1	-4	314	288	99	5	3	-13	-199	201	99	5	4	10	76	114	99	5	6	2	352	321	99
4	21	2	-211	11	99	5	1	-3	375	384	99	5	3	-12	898	880	99	5	4	11	437	422	99	5	6	3	1277	1311	99
4	21	3	268	354	99	5	1	-2	373	351	99	5	3	-11	-198	142	99	5	4	12	-299	177	99	5	6	4	-62	45	99
4	21	4	-255	242	99	5	1	-1	1492	1525	99	5	3	-10	153	250	99	5	4	13	611	596	99	5	6	5	231	261	99
4	21	5	359	361	99	5	1	0	305	304	99	5	3	-9	783	753	99	5	4	14	-209	112	99	5	6	6	392	426	99
4	21	6	-97	23	99	5	1	1	1483	1500	99	5	3	-8	462	467	99	5	4	15	-190	115	99	5	6	7	1189	1179	99
4	21	7	-291	43	99	5	1	2	172	143	99	5	3	-7	242	216	99	5	5	-16	422	467	99	5	6	8	41	129	99
4	22	-6	-92	227	99	5	1	3	506	520	99	5	3	-6	1345	1325	99	5	5	-15	-257	73	99	5	6	9	534	510	99
4	22	-5	209	92	99	5	1	4	284	301	99	5	3	-5	1111	1075	99	5	5	-14	-122	5	99	5	6	10	-133	84	99
4	22	-4	341	268	99	5	1	5	1318	1274	99	5	3	-4	395	381	99	5	5	-13	76	111	99	5	6	11	817	784	99
4	22	-3	103	254	99	5	1	6	472	502	99	5	3	-3	443	449	99	5	5	-12	868	908	99	5	6	12	-178	282	99
4	22	-2	224	341	99	5	1	7	144	138	99	5	3	-2	1214	1222	99	5	5	-11	153	112	99	5	6	13	634	622	99
4	22	-1	152	6	99	5	1	8	331	318	99	5	3	-1	872	890	99	5	5	-10	894	893	99	5	6	14	163	77	99
4	22	0	366	294	99	5	1	9	555	554	99	5	3	0	616	617	99	5	5	-9	203	137	99	5	6	15	240	149	99
4	22	1	161	150	99	5	1	10	128	59	99	5	3	1	1248	1237	99	5	5	-8	1011	986	99	5	7	-15	-177	249	99
4	22	2	191	107	99	5	1	11	312	344	99	5	3	2	1214	1245	99	5	5	-7	289	303	99	5	7	-14	141	162	99
4	22	3	184	206	99	5	1	12	412	382	99	5	3	3	-39	70	99	5	5	-6	1533	1516	99	5	7	-13	313	232	99
4	22	4	467	486	99	5	1	13	460	455	99	5	3	4	777	768	99	5	5	-5	80	220	99	5	7	-12	474	467	99
4	22	5	-215	61	99	5	1	14	-55	39	99	5	3	5	902	927	99	5	5	-4	-115	113	99	5	7	-11	220	181	99
4	23	-4	194	262	99	5	1	15	254	213	99	5	3	6	646	641	99	5	5	-3	89	18	99	5	7	-10	627	641	99
4	23	-3	104	55	99	5	2	-16	211	84	99	5	3	7	264	266	99	5	5	-2	1708	1746	99	5	7	-9	513	508	99
4	23	-2	-325	186	99	5	2	-15	177	118	99	5	3	8	766	752	99	5	5	-1	316	344	99	5	7	-8	479	466	99
4	23	-1	327	286	99	5	2	-14	519	496	99	5	3	9	429	392	99	5	5	0	562	522	99	5	7	-7	114	20	99
4	23	0	220	151	99	5	2	-13	223	99	99	5	3	10	157	45	99	5	5	1	-112	78	99	5	7	-6	1001	1013	99
4	23	1	-181	60	99	5	2	-12	104	122	99	5	3	11	82	60	99	5	5	2	1167	1189	99	5	7	-5	457	422	99
4	23	2	206	327	99	5	2	-11	608	602	99	5	3	12	634	675	99	5	5	3	443	417	99	5	7	-4	125	177	99
4	23	3	412	382	99	5	2	-10	827	844	99	5	3	13	170	216	99	5	5	4	1022	994	99	5	7	-3	795	781	99
5	0	-16	-240	168	99	5	2	-9	296	268	99	5	3	14	-247	155	99	5	5	5	125	48	99	5	7	-2	1241	1242	99
5	0	-14	242	204	99	5	2	-8	454	459	99	5	3	15	-95	130	99	5	5	6	709	741	99	5	7	-1	607	584	99
5	0	-12	198	205	99	5	2	-7	712	674	99	5	4	-16	217	31	99	5	5	7	154	65	99	5	7	0	284	314	99
5	0	-10	817	811	99	5	2	-6	1292	1220	99	5	4	-15	-236	184	99	5	5	8	1112	1096	99	5	7	1	784	785	99
5	0	-8	-86	155	99	5	2	-5	301	305	99	5	4	-14	275	315	99	5	5	9	352	317	99	5	7	2	1161	1182	99
5	0	-6	1125	1086	99	5	2	-4	1234	1226	99	5	4	-13	532	542	99	5	5	10	161	128	99	5	7	3	-194	50	99
5	0	-4	1222	1213	99	5	2	-3	712	687	99	5	4	-12	-114	143	99	5	5	11	197	94	99	5	7	4	555	570	99
5	0	-2	543	554	99	5	2	-2	678	661	99	5	4	-11	1102	1109	99	5	5	12	869	855	99	5	7	5	691	720	99
5	0	0	2392	2420	99	5	2	-1	782	789	99	5	4	-10	315	292	99	5	5	13	281	96	99	5	7	6	873	913	99
5	0	2	99	158	99	5	2	0	1739	1754	99	5	4	-9	-244	158	99	5	5	14	195	277	99	5	7	7	283	264	99
5	0	4	1124	1157	99	5	2	1	928	946	99	5	4	-8	-242	150	99	5	5	15	196	50	99	5	7	8	1148	1163	99
5	0	6	1394	1415	99	5	2	2	493	465	99	5	4	-7	1485	1483	99	5	6	-15	483	519	99	5	7	9	230	405	99
5	0	8	914	914	99	5	2	3	491	494	99	5	4	-6	370	355	99	5	6	-14	254	182	99	5	7	10	442	387	99
5	0	10	612	566	99	5	2	4	821	839	99	5	4	-5	763	746	99	5	6	-13	437	463	99	5	7	11	287	265	99
5	0	12	225	80	99	5	2	5	-140	26	99	5	4	-4	715	699	99	5	6	-12	181	83	99	5	7	12	820	804	99
5	0	14	498	460	99	5	2	6	805	806	99	5	4	-3	1174	1183	99	5	6	-11	989	973	99	5	7	13	-351	38	99
5	1	-16	-65	16	99	5	2	7	1013	995	99	5	4	-2	307	292	99	5	6	-10	361	396	99	5	7	14	344	367	99
5	1	-15	176	263	99	5	2	8	195	196	99	5	4	-1	1437	1430	99	5	6	-9	-157	19	99	5	8	-15	-74	391	99
5	1	-14	262	150	99	5	2	9	46	188	99	5	4	0	518	536	99	5	6	-8	166	202	99	5	8	-14	432	399	99
5	1	-13	534	482	99	5	2	10	379	373	99	5	4	1	530	557	99	5	6	-7	1359	1325	99	5	8	-13	244	184	99

h	k	l	Fo	Fc	sigF2
5	8	-12	-31	146	99
5	8	-11	548	586	99
5	8	-10	422	389	99
5	8	-9	310	291	99
5	8	-8	463	424	99
5	8	-7	859	843	99
5	8	-6	518	504	99
5	8	-5	615	618	99
5	8	-4	963	925	99
5	8	-3	677	673	99
5	8	-2	388	375	99
5	8	-1	807	830	99
5	8	0	846	844	99
5	8	1	369	328	99
5	8	2	529	498	99
5	8	3	1062	1087	99
5	8	4	882	879	99
5	8	5	241	214	99
5	8	6	625	637	99
5	8	7	899	873	99
5	8	8	209	167	99
5	8	9	363	354	99
5	8	10	688	726	99
5	8	11	696	660	99
5	8	12	-340	29	99
5	8	13	437	426	99
5	8	14	314	303	99
5	9	-15	181	143	99
5	9	-14	-79	93	99
5	9	-13	219	401	99
5	9	-12	236	347	99
5	9	-11	-185	55	99
5	9	-10	493	498	99
5	9	-9	735	724	99
5	9	-8	170	189	99
5	9	-7	177	277	99
5	9	-6	814	801	99
5	9	-5	838	865	99
5	9	-4	89	139	99
5	9	-3	490	466	99
5	9	-2	747	734	99
5	9	-1	1196	1195	99
5	9	0	563	544	99
5	9	1	958	948	99
5	9	2	601	607	99
5	9	3	345	315	99
5	9	4	598	582	99
5	9	5	1115	1165	99
5	9	6	374	342	99
5	9	7	353	389	99
5	9	8	404	418	99
5	9	9	814	779	99
5	9	10	-244	56	99
5	9	11	308	403	99
5	9	12	535	506	99
5	9	13	-186	218	99
5	9	14	-355	37	99
5	10	-14	426	470	99
5	10	-13	205	66	99
5	10	-12	-253	140	99
5	10	-11	548	489	99
5	10	-10	527	494	99
5	10	-9	303	238	99
5	10	-8	515	539	99
5	10	-7	565	543	99
5	10	-6	535	572	99
5	10	-5	512	449	99
5	10	-4	1267	1246	99
5	10	-3	57	119	99
5	10	-2	162	112	99
5	10	-1	657	641	99
5	10	0	1593	1580	99
5	10	1	-71	51	99
5	10	2	840	816	99
5	10	3	268	237	99
5	10	4	1014	1039	99
5	10	5	265	325	99
5	10	6	862	836	99
5	10	7	329	275	99
5	10	8	-36	199	99
5	10	9	-131	82	99
5	10	10	651	619	99
5	10	11	138	81	99
5	10	12	-315	28	99
5	10	13	224	145	99
5	10	14	430	454	99
5	11	-14	255	184	99
5	11	-13	322	372	99
5	11	-12	-40	81	99
5	11	-11	264	246	99
5	11	-10	-290	42	99
5	11	-9	721	729	99
5	11	-8	384	370	99
5	11	-7	118	63	99
5	11	-6	512	530	99
5	11	-5	1321	1340	99
5	11	-4	-259	43	99
5	11	-3	546	566	99
5	11	-2	234	268	99
5	11	-1	896	883	99
5	11	0	614	603	99
5	11	1	1539	1536	99
5	11	2	-68	33	99
5	11	3	-46	72	99
5	11	4	79	57	99
5	11	5	1112	1129	99
5	11	6	73	146	99
5	11	7	353	414	99
5	11	8	146	36	99
5	11	9	394	407	99
5	11	10	93	55	99
5	11	11	319	376	99
5	11	12	160	17	99
5	11	13	-103	296	99
5	12	-14	288	346	99
5	12	-13	191	336	99
5	12	-12	169	162	99
5	12	-11	-270	182	99
5	12	-10	641	620	99
5	12	-9	140	185	99
5	12	-8	502	545	99
5	12	-7	560	533	99
5	12	-6	714	762	99
5	12	-5	65	151	99
5	12	-4	1069	1084	99
5	12	-3	578	561	99
5	12	-2	159	36	99
5	12	-1	147	74	99
5	12	0	1430	1424	99
5	12	1	-192	35	99
5	12	2	593	625	99
5	12	3	484	526	99
5	12	4	575	570	99
5	12	5	-242	63	99
5	12	6	830	854	99
5	12	7	-113	109	99
5	12	8	62	193	99
5	12	9	124	187	99
5	12	10	370	369	99
5	12	11	188	142	99
5	12	12	118	37	99
5	12	13	-230	87	99
5	13	-13	432	341	99
5	13	-12	461	500	99
5	13	-11	170	218	99
5	13	-10	-199	54	99
5	13	-9	233	290	99
5	13	-8	605	564	99
5	13	-7	240	167	99
5	13	-6	635	660	99
5	13	-5	1002	976	99
5	13	-4	368	368	99
5	13	-3	410	378	99
5	13	-2	698	689	99
5	13	-1	564	554	99
5	13	0	348	297	99
5	13	1	1071	1035	99
5	13	2	670	667	99
5	13	3	52	221	99
5	13	4	295	319	99
5	13	5	666	667	99
5	13	6	365	211	99
5	13	7	80	234	99
5	13	8	328	362	99
5	13	9	384	368	99
5	13	10	131	9	99
5	13	11	259	223	99
5	13	12	239	210	99
5	14	-13	-59	397	99
5	14	-12	72	208	99
5	14	-11	437	458	99
5	14	-10	-121	161	99
5	14	-9	303	339	99
5	14	-8	-301	75	99
5	14	-7	734	740	99
5	14	-6	285	344	99
5	14	-5	284	282	99
5	14	-4	202	286	99
5	14	-3	709	689	99
5	14	-2	201	285	99
5	14	-1	812	753	99
5	14	0	763	723	99
5	14	1	546	489	99
5	14	2	-250	67	99
5	14	3	587	590	99
5	14	4	421	383	99
5	14	5	122	63	99
5	14	6	395	379	99
5	14	7	646	639	99
5	14	8	377	342	99
5	14	9	252	223	99
5	14	10	164	167	99
5	14	11	306	276	99
5	14	12	223	159	99
5	15	-12	566	507	99
5	15	-11	223	130	99
5	15	-10	199	122	99
5	15	-9	98	79	99
5	15	-8	240	418	99
5	15	-7	202	51	99
5	15	-6	788	732	99
5	15	-5	176	124	99
5	15	-4	357	411	99
5	15	-3	98	66	99
5	15	-2	699	689	99
5	15	-1	173	300	99
5	15	0	124	180	99
5	15	1	-51	171	99
5	15	2	846	838	99
5	15	3	-233	177	99
5	15	4	391	374	99
5	15	5	316	211	99
5	15	6	557	564	99
5	15	7	178	195	99
5	15	8	566	560	99
5	15	9	249	120	99
5	15	10	139	119	99
5	15	11	236	134	99
5	16	-11	411	450	99
5	16	-10	-299	170	99
5	16	-9	211	66	99
5	16	-8	223	84	99
5	16	-7	675	645	99
5	16	-6	226	64	99
5	16	-5	202	93	99
5	16	-4	202	132	99
5	16	-3	581	582	99
5	16	-2	-200	186	99
5	16	-1	412	471	99
5	16	0	-100	11	99
5	16	1	627	636	99
5	16	2	-272	76	99
5	16	3	541	555	99
5	16	4	204	93	99
5	16	5	266	150	99
5	16	6	-290	256	99
5	16	7	711	797	99
5	16	8	-234	56	99
5	16	9	177	104	99
5	16	10	-243	143	99
5	17	-11	181	47	99
5	17	-10	154	253	99
5	17	-9	212	76	99
5	17	-8	263	296	99
5	17	-7	29	192	99
5	17	-6	560	524	99
5	17	-5	146	230	99
5	17	-4	148	217	99
5	17	-3	163	83	99
5	17	-2	537	568	99
5	17	-1	202	92	99
5	17	0	-77	57	99
5	17	1	315	342	99
5	17	2	675	652	99
5	17	3	213	84	99
5	17	4	233	261	99
5	17	5	334	383	99
5	17	6	533	526	99
5	17	7	-87	178	99
5	17	8	296	393	99
5	17	9	-172	218	99
5	17	10	259	207	99
5	18	-10	348	123	99
5	18	-9	-406	44	99
5	18	-8	157	237	99
5	18	-7	596	580	99
5	18	-6	221	96	99
5	18	-5	145	265	99
5	18	-4	37	254	99
5	18	-3	340	406	99
5	18	-2	89	80	99
5	18	-1	457	410	99
5	18	0	558	506	99
5	18	1	188	228	99
5	18	2	-87	234	99
5	18	3	519	495	99
5	18	4	373	345	99
5	18	5	320	238	99
5	18	6	480	467	99
5	18	7	275	353	99
5	18	8	-207	61	99
5	18	9	-262	79	99
5	19	-9	473	436	99
5	19	-8	381	355	99
5	19	-7	161	158	99
5	19	-6	367	337	99
5	19	-5	453	490	99
5	19	-4	167	83	99
5	19	-3	355	321	99
5	19	-2	455	483	99
5	19	-1	-346	291	99
5	19	0	-237	16	99
5	19	1	571	564	99
5	19	2	180	197	99
5	19	3	145	17	99
5	19	4	130	153	99
5	19	5	516	544	99
5	19	6	149	264	99
5	19	7	234	217	99
5	19	8	-139	192	99
5	20	-7	-101	195	99
5	20	-6	136	238	99
5	20	-5	370	207	99
5	20	-4	604	604	99
5	20	-3	212	202	99
5	20	-2	-217	114	99
5	20	-1	-298	132	99
5	20	0	578	587	99
5	20	1	-416	68	99
5	20	2	534	494	99
5	20	3	305	140	99
5	20	4	462	416	99
5	20	5	147	122	99
5	20	6	518	514	99
5	20	7	282	141	99
5	21	-6	209	31	99
5	21	-5	388	428	99
5	21	-4	155	18	99
5	21	-3	545	558	99
5	21	-2	-392	18	99
5	21	-1	490	421	99
5	21	0	255	62	99
5	21	1	553	590	99
5	21	2	77	82	99
5	21	3	-78	27	99
5	21	4	252	157	99
5	21	5	500	510	99
5	22	-4	424	504	99
5	22	-3	219	106	99
5	22	-2	274	49	99
5	22	-1	161	146	99
5	22	0	526	533	99
5	22	1	-73	44	99
5	22	2	379	313	99
5	22	3	200	166	99
6	0	-14	-155	92	99
6	0	-12	583	586	99
6	0	-10	85	155	99
6	0	-8	597	604	99
6	0	-6	471	494	99
6	0	-4	1162	1149	99
6	0	-2	809	832	99
6	0	0	651	662	99
6	0	2	1199	1223	99
6	0	4	146	58	99
6	0	6	1116	1125	99
6	0	8	81	70	99
6	0	10	609	592	99
6	0	12	460	451	99
6	0	14	502	439	99
6	1	-15	168	29	99
6	1	-14	248	249	99
6	1	-13	119	420	99
6	1	-12	-235	36	99
6	1	-11	316	191	99
6	1	-10	152	292	99
6	1	-9	560	542	99
6	1	-8	148	62	99
6	1	-7	830	818	99
6	1	-6	125	74	99
6	1	-5	589	609	99
6	1	-4	-177	59	99
6	1	-3	1083	1105	99
6	1	-2	161	133	99
6	1	-1	140	192	99
6	1	0	95	169	99
6	1	1	1249	1243	99
6	1	2	384	397	99
6	1	3	365	377	99
6	1	4	428	431	99
6	1	5	565	544	99
6	1	6	79	175	99
6	1	7	641	672	99
6	1	8	511	499	99
6	1	9	199	334	99
6	1	10	182	34	99
6	1	11	683	620	99
6	1	12	317	274	99
6	1	13	180	45	99
6	1	14	157	128	99
6	2	-15	349	336	99
6	2	-14	369	326	99
6	2	-13	190	220	99
6	2	-12	303	287	99
6	2	-11	527	518	99
6	2	-10	413	291	99
6	2	-9	235	251	99
6	2	-8	928	908	99
6	2	-7	-179	85	99
6	2	-6	-128	121	99
6	2	-5	674	621	99
6	2	-4	1047	1033	99
6	2	-3	358	294	99
6	2	-2	946	941	99
6	2	-1	601	622	99
6	2	0	421	425	99
6	2	1	-224	74	99
6	2	2	1234	1236	99
6	2	3	719	733	99
6	2	4	-63	48	99
6	2	5	461	445	99
6	2	6	752	718	99
6	2	7	532	564	99
6	2	8	374	342	99
6	2	9	555	562	99
6	2	10	527	508	99
6	2	11	-392	44	99
6	2	12	342	280	99
6	2	13	474	485	99
6	2	14	196	206	99
6	3	-15	258	107	99
6	3	-14	187	383	99
6	3	-13	132	249	99
6	3	-12	156	326	99
6	3	-11	-44	38	99
6	3	-10	662	646	99
6	3	-9	715	694	99
6	3	-8	198	286	99
6	3	-7	435	394	99
6	3	-6	1113	1112	99
6	3	-5	376	369	99
6	3	-4	-128	162	99
6	3	-3	1097	1070	99
6	3	-2	689	712	99
6	3	-1	30	196	99
6	3	0	914	911	99
6	3	1	640	618	99
6	3	2	995	1019	99
6	3	3	876	898	99
6	3	4	934	968	99
6	3	5	520	495	99
6	3	6	-67	106	99
6	3	7	396	384	99
6	3	8	950	992	99
6	3	9	-209	78	99
6	3	10	446	446	99
6	3	11	330	298	99
6	3	12	426	432	99
6	3	13	-74	83	99
6	3	14	96	352	99
6	4	-15	537	526	99
6	4	-14	-109	117	99
6	4	-13	-194	23	99
6	4	-12	-303	50	99
6	4	-11	812	814	99
6	4	-10	151	99	99
6	4	-9	719	729	99
6	4	-8	573	570	99
6	4	-7	890	894	99
6	4	-6	190	54	99
6	4	-5	1181	1200	99
6	4	-4	463	446	99
6	4	-3	401	441	99
6	4	-2	461	455	99
6	4	-1	1424	1403	99
6	4	0	339	334	99
6	4	1	271	282	99
6	4	2	455	436	99
6	4	3	1491	1516	99
6	4	4	-153	69	99
6	4	5	765	788	99
6	4	6	169	128	99
6	4	7	796	753	99
6	4	8	144	218	99
6	4	9	966	958	99
6	4	10	290	225	99
6	4	11	-79	63	99
6	4	12	-133	25	99
6	4	13	583	526	99
6	4	14	41	30	99
6	5	-15	303	121	99
6	5	-14	355	447	99
6	5	-13	120	63	99
6	5	-12	557	554	99
6	5	-11	183	76	99
6	5	-10	1035	1040	99
6	5	-9	131	41	99
6	5	-8	-286	245	99
6	5	-7	-114	255	99
6	5	-6	1121	1135	99
6	5	-5	319	304	99
6	5	-4	487	475	99
6	5	-3	272	264	99
6	5	-2	1325	1363	99
6	5	-1	398	397	99
6	5	0	849	856	99
6	5	1	158	181	99
6	5	2	700	704	99
6	5	3	199	25	99
6	5	4	1661	1639	99
6	5	5	-209	41	99
6	5	6	110	85	99
6	5	7	-268	55	99
6	5	8	1108	1079	99
6	5	9	-173	46	99
6	5	10	624	637	99
6	5	11	-124	112	99
6	5	12	185	424	99
6	5	13	-183	13	99
6	5	14	342	397	99
6	6	-15	703	766	99
6	6	-14	210	232	99
6	6	-13	172	15	99
6	6	-12	-359	110	99
6	6	-11	717	680	99
6	6	-10	235	224	99
6	6	-9	670	677	99
6	6	-8	496	511	99
6	6	-7	711	701	99
6	6	-6	176	12	99
6	6	-5	744	760	99
6	6	-4	633	627	99
6	6	-3	500	460	99
6	6	-2	415	431	99
6	6	-1	1416	1400	99
6	6	0	396	375	99
6	6	1	177	150	99
6	6	2	499	493	99
6	6	3	1640	1670	99
6	6	4	83	44	99
6	6	5	632	624	99
6	6	6	326	325	99
6	6	7	780	801	99
6	6	8	188	170	99
6	6	9	1143	1130	99
6	6	10	168	27	99
6	6	11	266	276	99
6	6	12	-88	192	99
6	6	13	540	496	99
6	6	14	-385	33	99
6	7	-14	484	515	99
6	7	-13	150	314	99
6	7	-12	294	259	99
6	7	-11	205	45	99
6	7	-10	822	829	99
6	7	-9	407	401	99
6	7	-8	162	36	99
6	7	-7	375	377	99
6	7	-6	687	691	99
6	7	-5	392	367	99
6	7	-4	57	295	99
6	7	-3	929	912	99
6	7	-2	1218	1271	99
6	7	-1	55	144	99
6	7	0	391	351	99
6	7	1	730	738	99
6	7	2	961	963	99
6	7	3	496	512	99
6	7	4	1108	1143	99
6	7	5	486	478	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	7	6	363	305	99	6	9	5	734	764	99	6	11	7	508	518	99	6	13	11	269	296	99	6	16	0	228	220	99
6	7	7	433	442	99	6	9	6	343	287	99	6	11	8	78	44	99	6	14	-11	458	495	99	6	16	1	145	101	99
6	7	8	1086	1082	99	6	9	7	535	578	99	6	11	9	219	278	99	6	14	-10	-239	68	99	6	16	2	150	45	99
6	7	9	178	30	99	6	9	8	608	584	99	6	11	10	189	141	99	6	14	-9	213	184	99	6	16	3	492	546	99
6	7	10	72	212	99	6	9	9	390	405	99	6	11	11	415	370	99	6	14	-8	149	196	99	6	16	4	195	66	99
6	7	11	450	437	99	6	9	10	-360	65	99	6	11	12	-44	27	99	6	14	-7	255	228	99	6	16	5	348	383	99
6	7	12	378	378	99	6	9	11	438	449	99	6	12	-13	-339	134	99	6	14	-6	-156	107	99	6	16	6	-121	169	99
6	7	13	182	18	99	6	9	12	227	236	99	6	12	-12	433	443	99	6	14	-5	593	555	99	6	16	7	549	547	99
6	8	-14	326	335	99	6	9	13	-282	41	99	6	12	-11	-319	136	99	6	14	-4	322	310	99	6	16	8	-86	32	99
6	8	-13	327	187	99	6	10	-13	-87	116	99	6	12	-10	167	329	99	6	14	-3	208	161	99	6	16	9	303	421	99
6	8	-12	173	267	99	6	10	-12	347	329	99	6	12	-9	-86	86	99	6	14	-2	331	279	99	6	17	-9	-186	166	99
6	8	-11	410	443	99	6	10	-11	195	419	99	6	12	-8	714	760	99	6	14	-1	612	668	99	6	17	-8	203	86	99
6	8	-10	107	130	99	6	10	-10	258	255	99	6	12	-7	331	283	99	6	14	0	313	343	99	6	17	-7	-306	101	99
6	8	-9	529	528	99	6	10	-9	212	129	99	6	12	-6	51	125	99	6	14	1	185	38	99	6	17	-6	418	389	99
6	8	-8	756	754	99	6	10	-8	813	827	99	6	12	-5	173	165	99	6	14	2	282	226	99	6	17	-5	311	225	99
6	8	-7	411	376	99	6	10	-7	163	201	99	6	12	-4	988	981	99	6	14	3	464	451	99	6	17	-4	134	145	99
6	8	-6	212	158	99	6	10	-6	96	140	99	6	12	-3	234	55	99	6	14	4	-253	85	99	6	17	-3	266	114	99
6	8	-5	496	476	99	6	10	-5	267	286	99	6	12	-2	651	669	99	6	14	5	480	491	99	6	17	-2	436	373	99
6	8	-4	760	776	99	6	10	-4	1070	1072	99	6	12	-1	-108	143	99	6	14	6	334	341	99	6	17	-1	55	60	99
6	8	-3	430	448	99	6	10	-3	78	193	99	6	12	0	636	609	99	6	14	7	221	276	99	6	17	0	377	321	99
6	8	-2	392	442	99	6	10	-2	733	700	99	6	12	1	382	379	99	6	14	8	-103	155	99	6	17	1	339	309	99
6	8	-1	679	685	99	6	10	-1	276	280	99	6	12	2	823	803	99	6	14	9	383	390	99	6	17	2	441	430	99
6	8	0	589	611	99	6	10	0	726	667	99	6	12	3	260	244	99	6	14	10	247	229	99	6	17	3	-135	35	99
6	8	1	286	337	99	6	10	1	82	64	99	6	12	4	-44	47	99	6	15	-11	-134	146	99	6	17	4	542	533	99
6	8	2	945	953	99	6	10	2	972	968	99	6	12	5	272	208	99	6	15	-10	385	459	99	6	17	5	201	209	99
6	8	3	1164	1173	99	6	10	3	389	399	99	6	12	6	683	671	99	6	15	-9	-202	16	99	6	17	6	215	129	99
6	8	4	323	277	99	6	10	4	365	291	99	6	12	7	-73	50	99	6	15	-8	196	34	99	6	17	7	152	204	99
6	8	5	167	204	99	6	10	5	131	198	99	6	12	8	189	49	99	6	15	-7	121	124	99	6	17	8	507	514	99
6	8	6	655	669	99	6	10	6	757	773	99	6	12	9	292	269	99	6	15	-6	503	464	99	6	18	-8	320	266	99
6	8	7	783	769	99	6	10	7	429	416	99	6	12	10	370	328	99	6	15	-5	109	14	99	6	18	-7	283	252	99
6	8	8	303	274	99	6	10	8	189	163	99	6	12	11	-391	125	99	6	15	-4	94	154	99	6	18	-6	-350	50	99
6	8	9	723	721	99	6	10	9	212	95	99	6	12	12	-250	200	99	6	15	-3	63	135	99	6	18	-5	397	350	99
6	8	10	682	682	99	6	10	10	612	623	99	6	13	-12	180	254	99	6	15	-2	475	438	99	6	18	-4	416	457	99
6	8	11	353	244	99	6	10	11	188	36	99	6	13	-11	94	69	99	6	15	-1	154	44	99	6	18	-3	-201	137	99
6	8	12	224	146	99	6	10	12	-142	328	99	6	13	-10	389	364	99	6	15	0	390	401	99	6	18	-2	325	156	99
6	8	13	364	416	99	6	11	-13	383	401	99	6	13	-9	394	379	99	6	15	1	-163	40	99	6	18	-1	406	430	99
6	9	-14	93	215	99	6	11	-12	-248	54	99	6	13	-8	182	49	99	6	15	2	470	428	99	6	18	0	407	414	99
6	9	-13	471	448	99	6	11	-11	251	166	99	6	13	-7	386	357	99	6	15	3	-236	42	99	6	18	1	-171	37	99
6	9	-12	25	153	99	6	11	-10	-321	35	99	6	13	-6	546	573	99	6	15	4	551	523	99	6	18	2	230	250	99
6	9	-11	33	117	99	6	11	-9	857	845	99	6	13	-5	290	304	99	6	15	5	181	162	99	6	18	3	473	534	99
6	9	-10	634	595	99	6	11	-8	110	100	99	6	13	-4	241	264	99	6	15	6	-234	23	99	6	18	4	211	127	99
6	9	-9	719	698	99	6	11	-7	590	626	99	6	13	-3	601	604	99	6	15	7	168	84	99	6	18	5	-64	202	99
6	9	-8	186	123	99	6	11	-6	145	116	99	6	13	-2	334	341	99	6	15	8	547	557	99	6	18	6	377	390	99
6	9	-7	311	329	99	6	11	-5	653	672	99	6	13	-1	-78	38	99	6	15	9	121	151	99	6	18	7	176	213	99
6	9	-6	512	455	99	6	11	-4	301	257	99	6	13	0	608	590	99	6	15	10	-70	255	99	6	19	-7	-322	261	99
6	9	-5	440	440	99	6	11	-3	1089	1094	99	6	13	1	653	643	99	6	16	-10	19	196	99	6	19	-6	-228	162	99
6	9	-4	155	218	99	6	11	-2	133	50	99	6	13	2	-139	141	99	6	16	-9	155	245	99	6	19	-5	474	450	99
6	9	-3	1046	1077	99	6	11	-1	-153	44	99	6	13	3	239	222	99	6	16	-8	-30	26	99	6	19	-4	-129	187	99
6	9	-2	662	664	99	6	11	0	-234	48	99	6	13	4	474	428	99	6	16	-7	218	250	99	6	19	-3	552	455	99
6	9	-1	305	277	99	6	11	1	1061	1050	99	6	13	5	340	314	99	6	16	-6	-140	60	99	6	19	-2	70	368	99
6	9	0	138	191	99	6	11	2	367	346	99	6	13	6	-204	244	99	6	16	-5	187	388	99	6	19	-1	214	66	99
6	9	1	967	968	99	6	11	3	409	408	99	6	13	7	337	338	99	6	16	-4	194	113	99	6	19	0	227	113	99
6	9	2	667	622	99	6	11	4	-92	79	99	6	13	8	134	304	99	6	16	-3	181	161	99	6	19	1	572	558	99
6	9	3	437	444	99	6	11	5	512	562	99	6	13	9	259	277	99	6	16	-2	215	18	99	6	19	2	-138	156	99
6	9	4	495	515	99	6	11	6	-147	114	99	6	13	10	-186	246	99	6	16	-1	494	511	99	6	19	3	-116	181	99
6	19	4	425	455	99	7	1	10	160	122	99	7	3	9	-19	148	99	7	5	8	200	358	99	7	7	11	164	216	99
6	19	5	407	357	99	7	1	11	734	693	99	7	3	10	341	364	99	7	5	9	149	8	99	7	7	12	250	252	99
6	19	6	157	80	99	7	1	12	-98	51	99	7	3	11	468	439	99	7	5	10	447	451	99	7	8	-11	100	224	99
6	20	-5	247	104	99	7	1	13	436	384	99	7	3	12	23	31	99	7	5	11	249	286	99	7	8	-12	438	388	99
6	20	-4	565	592	99	7	2	-14	-37	192	99	7	3	13	-81	276	99	7	5	12	205	68	99	7	8	-11	-74	113	99
6	20	-3	-82	23	99	7	2	-13	291	281	99	7	4	-14	-156	35	99	7	6	-13	-208	229	99	7	8	-10	191	113	99
6	20	-2	330	348	99	7	2	-12	624	631	99	7	4	-13	-202	275	99	7	6	-12	-161	139	99	7	8	-9	-202	297	99
6	20	-1	-130	124	99	7	2	-11	267	280	99	7	4	-12	-140	265	99	7	6	-11	200	251	99	7	8	-8	626	643	99
6	20	0	-123	431	99	7	2	-10	-183	227	99	7	4	-11	516	459	99	7	6	-10	216	113	99	7	8	-7	87	201	99
6	20	1	153	33	99	7	2	-9	152	176	99	7	4	-10	-135	323	99	7	6	-9	541	545	99	7	8	-6	263	298	99
6	20	2	545	594	99	7	2	-8	810	776	99	7	4	-9	651	624	99	7	6	-8	-183	339	99	7	8	-5	423	404	99
6	20	3	-119	288	99	7	2	-7	-208	42	99	7	4	-8	515	553	99	7	6	-7	344	231	99	7	8	-4	-255	153	99
6	20	4	228	91	99	7	2	-6	1033	982	99	7	4	-7	399	394	99	7	6	-6	-71	37	99	7	8	-3	168	63	99
6	21	-2	-319	47	99	7	2	-5	550	564	99	7	4	-6	476	461	99	7	6	-5	802	781	99	7	8	-2	726	716	99
6	21	-1	-61	167	99	7	2	-4	415	399	99	7	4	-5	1041	982	99	7	6	-4	302	337	99	7	8	-1	614	631	99
6	21	0	106	130	99	7	2	-3	108	57	99	7	4	-4	79	43	99	7	6	-3	169	303	99	7	8	0	87	65	99
6	21	1	554	545	99	7	2	-2	1161	1215	99	7	4	-3	157	104	99	7	6	-2	296	287	99	7	8	1	179	286	99
7	0	-14	-386	105	99	7	2	-1	637	595	99	7	4	-2	686	700	99	7	6	-1	1119	1115	99	7	8	2	496	492	99
7	0	-12	897	871	99	7	2	0	255	216	99	7	4	-1	1068	1037	99	7	6	0	124	188	99	7	8	3	360	349	99
7	0	-10	133	175	99	7	2	1	218	168	99	7	4	0	221	164	99	7	6	1	574	557	99	7	8	4	146	100	99
7	0	-8	776	770	99	7	2	2	963	963	99	7	4	1	903	905	99	7	6	2	229	242	99	7	8	5	527	505	99
7	0	-6	1073	1054	99	7	2	3	308	297	99	7	4	2	283	332	99	7	6	3	528	527	99	7	8	6	430	458	99
7	0	-4	435	438	99	7	2	4	398	419	99	7	4	3	514	530	99	7	6	4	25	109	99	7	8	7	-213	90	99
7	0	-2	1121	1115	99	7	2	5	534	503	99	7	4	4	241	284	99	7	6	5	822	820	99	7	8	8	344	318	99
7	0	0	77	65	99	7	2	6	640	619	99	7	4	5	970	990	99	7	6	6	-76	88	99	7	8	9	308	297	99
7	0	2	774	783	99	7	2	7	99	153	99	7	4	6	103	262	99	7	6	7	-175	9	99	7	8	10	418	366	99
7	0	4	396	370	99	7	2	8	551	526	99	7	4	7	-178	61	99	7	6	8	217	78	99	7	8	11	-99	72	99
7	0	6	961	970	99	7	2	9	188	311	99	7	4	8	396	315	99	7	6	9	638	636	99	7	8	12	115	245	99
7	0	8	476	429	99	7	2	10	328	316	99	7	4	9	466	479	99	7	6	10	-93	54	99	7	9	-12	-115	16	99
7	0	10	186	398	99	7	2	11	156	148	99	7	4	10	200	194	99	7	6	11	-244	116	99	7	9	-11	457	361	99
7	0	12	823	794	99	7	2	12	573	551	99	7	4	11	-193	240	99	7	6	12	-272	49	99	7	9	-10	138	141	99
7	1	-14	240	55	99	7	2	13	289	228	99	7	4	12	196	280	99	7	7	-13	275	305	99	7	9	-9	-314	149	99
7	1	-13	243	365	99	7	3	-14	-219	282	99	7	4	13	315	235	99	7	7	-12	-108	36	99	7	9	-8	287	85	99
7	1	-12	198	140	99	7	3	-13	387	398	99	7	5	-14	424	431	99	7	7	-11	-206	165	99	7	9	-7	701	716	99
7	1	-11	753	737	99	7	3	-12	173	36	99	7	5	-13	162	65	99	7	7	-10	253	325	99	7	9	-6	139	298	99
7	1	-10	216	181	99	7	3	-11	431	483	99	7	5	-12	-193	54	99	7	7	-9	246	367	99	7	9	-5	260	256	99
7	1	-9	302	331	99	7	3	-10	508	526	99	7	5	-11	177	98	99	7	7	-8	348	349	99	7	9	-4	281	234	99
7	1	-8	140	48	99	7	3	-9	226	200	99	7	5	-10	706	730	99	7	7	-7	380	422	99	7	9	-3	785	766	99
7	1	-7	1271	1243	99	7	3	-8	-328	217	99	7	5	-9	82	260	99	7	7	-6	567	529	99	7	9	-2	273	294	99
7	1	-6	-166	68	99	7	3	-7	947	954	99	7	5	-8	-186	218	99	7	7	-5	-92	10	99	7	9	-1	466	394	99
7	1	-5	397	358	99	7	3	-6	754	784	99	7	5	-7	168	164	99	7	7	-4	510	507	99	7	9	0	546	509	99
7	1	-4	167	199	99	7	3	-5	329	313	99	7	5	-6	841	793	99	7	7	-3	570	577	99	7	9	1	323	389	99
7	1	-3	1024	1028	99	7	3	-4	489	474	99	7	5	-5	375	407	99	7	7	-2	386	385	99	7	9	2	-181	43	99
7	1	-2	201	100	99	7	3	-3	776	790	99	7	5	-4	857	859	99	7	7	-1	241	133	99	7	9	3	579	563	99
7	1	-1	1049	1057	99	7	3	-2	438	437	99	7	5	-3	-141	73	99	7	7	0	745	713	99	7	9	4	438	472	99
7	1	0	394	410	99	7	3	-1	759	758	99	7	5	-2	652	641	99	7	7	1	157	203	99	7	9	5	382	390	99
7	1	1	786	801	99	7	3	0	1200	1208	99	7	5	-1	131	51	99	7	7	2	-248	35	99	7	9	6	155	166	99
7	1	2	187	154	99	7	3	1	203	287	99	7	5	0	1216	1188	99	7	7	3	354	312	99	7	9	7	459	480	99
7	1	3	685	731	99	7	3	2	150	155	99	7	5	1	232	225	99	7	7	4	816	816	99	7	9	8	185	179	99
7	1	4	114	324	99	7	3	3	885	869	99	7	5	2	235	166	99	7	7	5	-163	79	99	7	9	9	-29	43	99
7	1	5	130	134	99	7	3	4	640	686	99	7	5	3	239	75	99	7	7	6	262	212	99	7	9	10	157	160	99
7	1	6	195	155	99	7	3	5	220	200	99	7	5	4	1012	1035	99	7	7	7	352	281	99	7	9	11	524	512	99
7	1	7	1037	1053	99	7	3	6	699	648	99	7	5	5	-214	168	99	7	7	8	466	439	99	7	10	-12	397	472	99
7	1	8	332	317	99	7	3	7	535	475	99	7	5	6	505	501	99	7	7	9	-143	69	99	7	10	-11	87	155	99
7	1	9	186	48	99	7	3	8	434	416	99	7	5	7	-186	61	99	7	7	10	408	393	99	7	10	-10	163	166	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
7	10	-9	-314	132	99	7	12	-1	400	394	99	7	15	-6	340	339	99	7	18	4	241	94	99	8	2	-1	243	53	99
7	10	-8	687	718	99	7	12	0	216	263	99	7	15	-5	-82	169	99	7	19	-3	87	269	99	8	2	0	372	401	99
7	10	-7	113	52	99	7	12	1	496	471	99	7	15	-4	544	529	99	7	19	-2	217	110	99	8	2	1	594	573	99
7	10	-6	614	621	99	7	12	2	776	757	99	7	15	-3	192	32	99	7	19	-1	-112	223	99	8	2	2	823	825	99
7	10	-5	273	261	99	7	12	3	76	113	99	7	15	-2	299	175	99	7	19	0	348	356	99	8	2	3	149	113	99
7	10	-4	363	405	99	7	12	4	317	285	99	7	15	-1	262	180	99	7	19	1	186	214	99	8	2	4	635	663	99
7	10	-3	83	203	99	7	12	5	400	445	99	7	15	0	743	732	99	7	19	2	-50	147	99	8	2	5	280	249	99
7	10	-2	918	917	99	7	12	6	530	491	99	7	15	1	209	31	99	8	0	-12	564	529	99	8	2	6	374	334	99
7	10	-1	-37	120	99	7	12	7	218	192	99	7	15	2	14	128	99	8	0	-10	670	684	99	8	2	7	126	265	99
7	10	0	159	13	99	7	12	8	388	374	99	7	15	3	-148	51	99	8	0	-8	227	98	99	8	2	8	766	751	99
7	10	1	141	263	99	7	12	9	159	201	99	7	15	4	542	538	99	8	0	-6	939	891	99	8	2	9	155	153	99
7	10	2	677	689	99	7	12	10	315	223	99	7	15	5	198	159	99	8	0	-4	124	36	99	8	2	10	-139	125	99
7	10	3	-194	204	99	7	13	-10	371	372	99	7	15	6	510	534	99	8	0	-2	783	781	99	8	2	11	129	174	99
7	10	4	364	353	99	7	13	-9	296	147	99	7	15	7	-236	102	99	8	0	0	441	455	99	8	3	-12	-273	203	99
7	10	5	-182	116	99	7	13	-8	328	276	99	7	15	8	90	315	99	8	0	2	951	948	99	8	3	-11	467	395	99
7	10	6	557	537	99	7	13	-7	562	629	99	7	16	-8	207	30	99	8	0	4	687	673	99	8	3	-10	206	227	99
7	10	7	-180	73	99	7	13	-6	486	453	99	7	16	-7	131	146	99	8	0	6	423	411	99	8	3	-9	172	106	99
7	10	8	402	401	99	7	13	-5	264	267	99	7	16	-6	230	105	99	8	0	8	901	821	99	8	3	-8	459	419	99
7	10	9	161	89	99	7	13	-4	536	558	99	7	16	-5	434	507	99	8	0	10	94	38	99	8	3	-7	627	686	99
7	10	10	366	263	99	7	13	-3	559	510	99	7	16	-4	301	204	99	8	1	-13	-275	67	99	8	3	-6	-270	43	99
7	10	11	-251	11	99	7	13	-2	-132	133	99	7	16	-3	238	204	99	8	1	-12	-262	254	99	8	3	-5	197	273	99
7	11	-12	-299	37	99	7	13	-1	579	584	99	7	16	-2	31	46	99	8	1	-11	665	757	99	8	3	-4	764	763	99
7	11	-11	554	452	99	7	13	0	716	721	99	7	16	-1	429	426	99	8	1	-10	218	117	99	8	3	-3	507	472	99
7	11	-10	166	90	99	7	13	1	393	372	99	7	16	0	218	65	99	8	1	-9	-199	239	99	8	3	-2	361	326	99
7	11	-9	247	317	99	7	13	2	195	305	99	7	16	1	602	557	99	8	1	-8	-108	42	99	8	3	-1	675	668	99
7	11	-8	228	131	99	7	13	3	309	347	99	7	16	2	81	99	99	8	1	-7	568	514	99	8	3	0	467	514	99
7	11	-7	923	952	99	7	13	4	556	519	99	7	16	3	323	296	99	8	1	-6	237	237	99	8	3	1	193	228	99
7	11	-6	171	122	99	7	13	5	233	124	99	7	16	4	162	61	99	8	1	-5	771	770	99	8	3	2	692	706	99
7	11	-5	149	108	99	7	13	6	423	511	99	7	16	5	645	632	99	8	1	-4	250	242	99	8	3	3	913	883	99
7	11	-4	-120	233	99	7	13	7	607	546	99	7	16	6	-167	22	99	8	1	-3	508	536	99	8	3	4	153	85	99
7	11	-3	785	811	99	7	13	8	-96	113	99	7	16	7	132	51	99	8	1	-2	152	89	99	8	3	5	-118	70	99
7	11	-2	-50	12	99	7	13	9	158	58	99	7	17	-7	-263	65	99	8	1	-1	751	743	99	8	3	6	573	599	99
7	11	-1	725	714	99	7	14	-10	37	179	99	7	17	-6	317	308	99	8	1	0	104	78	99	8	3	7	517	515	99
7	11	0	169	35	99	7	14	-9	402	319	99	7	17	-5	21	117	99	8	1	1	90	141	99	8	3	8	-194	103	99
7	11	1	526	503	99	7	14	-8	216	129	99	7	17	-4	412	392	99	8	1	2	24	233	99	8	3	9	464	463	99
7	11	2	-80	281	99	7	14	-7	148	72	99	7	17	-3	129	98	99	8	1	3	913	935	99	8	3	10	294	277	99
7	11	3	729	774	99	7	14	-6	475	509	99	7	17	-2	-233	109	99	8	1	4	174	23	99	8	3	11	210	165	99
7	11	4	165	209	99	7	14	-5	723	760	99	7	17	-1	148	44	99	8	1	5	284	248	99	8	4	-12	-197	200	99
7	11	5	318	189	99	7	14	-4	203	48	99	7	17	0	693	648	99	8	1	6	70	160	99	8	4	-11	236	96	99
7	11	6	-289	68	99	7	14	-3	200	212	99	7	17	1	211	156	99	8	1	7	813	766	99	8	4	-10	328	322	99
7	11	7	620	623	99	7	14	-2	224	346	99	7	17	2	-147	76	99	8	1	8	-263	15	99	8	4	-9	530	495	99
7	11	8	220	22	99	7	14	-1	546	519	99	7	17	3	121	93	99	8	1	9	492	462	99	8	4	-8	371	305	99
7	11	9	54	101	99	7	14	0	243	56	99	7	17	4	420	481	99	8	1	10	256	68	99	8	4	-7	237	222	99
7	11	10	-289	196	99	7	14	1	717	705	99	7	17	5	191	25	99	8	1	11	174	251	99	8	4	-6	201	231	99
7	11	11	455	505	99	7	14	2	-247	193	99	7	17	6	230	300	99	8	2	-12	369	426	99	8	4	-5	727	740	99
7	12	-11	136	82	99	7	14	3	36	261	99	7	18	-6	-36	127	99	8	2	-11	184	65	99	8	4	-4	180	67	99
7	12	-10	-29	36	99	7	14	4	-186	15	99	7	18	-5	230	376	99	8	2	-10	518	494	99	8	4	-3	750	758	99
7	12	-9	463	384	99	7	14	5	626	683	99	7	18	-4	-287	248	99	8	2	-9	73	205	99	8	4	-2	605	627	99
7	12	-8	590	587	99	7	14	6	370	342	99	7	18	-3	137	209	99	8	2	-8	331	259	99	8	4	-1	111	123	99
7	12	-7	-130	115	99	7	14	7	96	213	99	7	18	-2	-404	117	99	8	2	-7	378	357	99	8	4	0	156	45	99
7	12	-6	810	768	99	7	14	8	-174	66	99	7	18	-1	404	421	99	8	2	-6	902	887	99	8	4	1	1128	1158	99
7	12	-5	142	295	99	7	14	9	422	465	99	7	18	0	121	32	99	8	2	-5	429	404	99	8	4	2	361	352	99
7	12	-4	440	483	99	7	15	-9	180	110	99	7	18	1	-201	326	99	8	2	-4	-303	74	99	8	4	3	337	374	99
7	12	-3	228	262	99	7	15	-8	184	234	99	7	18	2	363	260	99	8	2	-3	222	344	99	8	4	4	425	428	99
7	12	-2	793	759	99	7	15	-7	153	283	99	7	18	3	-110	133	99	8	2	-2	820	834	99	8	4	5	640	656	99
8	4	6	263	305	99	8	7	-11	-315	130	99	8	9	0	-89	188	99	8	12	-5	282	289	99	8	15	4	132	209	99
8	4	7	579	514	99	8	7	-10	230	73	99	8	9	1	-52	56	99	8	12	-4	30	44	99	8	15	5	-222	130	99
8	4	8	359	334	99	8	7	-9	-26	117	99	8	9	2	370	377	99	8	12	-3	200	299	99	8	16	-5	398	433	99
8	4	9	200	126	99	8	7	-8	386	394	99	8	9	3	643	651	99	8	12	-2	573	564	99	8	16	-4	85	48	99
8	4	10	225	5	99	8	7	-7	335	250	99	8	9	4	192	40	99	8	12	-1	154	197	99	8	16	-3	420	413	99
8	4	11	484	427	99	8	7	-6	-268	122	99	8	9	5	192	121	99	8	12	0	419	379	99	8	16	-2	196	62	99
8	5	-12	145	154	99	8	7	-5	206	220	99	8	9	6	176	204	99	8	12	1	69	331	99	8	16	-1	-233	215	99
8	5	-11	220	36	99	8	7	-4	516	552	99	8	9	7	407	402	99	8	12	2	646	671	99	8	16	0	185	103	99
8	5	-10	221	285	99	8	7	-3	166	161	99	8	9	8	-189	53	99	8	12	3	79	20	99	8	16	1	660	619	99
8	5	-9	290	132	99	8	7	-2	-166	275	99	8	9	9	473	460	99	8	12	4	404	435	99	8	16	2	-84	139	99
8	5	-8	575	507	99	8	7	-1	406	376	99	8	9	10	77	79	99	8	12	5	307	297	99	8	16	3	186	23	99
8	5	-7	-226	55	99	8	7	0	563	565	99	8	10	-10	486	545	99	8	12	6	-271	187	99	8	16	4	89	13	99
8	5	-6	293	262	99	8	7	1	12	53	99	8	10	-9	215	87	99	8	12	7	235	148	99	8	17	-3	-228	48	99
8	5	-5	207	18	99	8	7	2	639	651	99	8	10	-8	127	248	99	8	12	8	536	548	99	8	17	-2	308	103	99
8	5	-4	992	1003	99	8	7	3	405	417	99	8	10	-7	203	22	99	8	13	-8	334	375	99	8	17	-1	-378	129	99
8	5	-3	227	183	99	8	7	4	207	213	99	8	10	-6	613	600	99	8	13	-7	369	275	99	8	17	0	479	475	99
8	5	-2	201	287	99	8	7	5	178	234	99	8	10	-5	297	178	99	8	13	-6	323	260	99	8	17	1	-123	33	99
8	5	-1	-180	14	99	8	7	6	419	460	99	8	10	-4	-133	161	99	8	13	-5	402	355	99	9	0	-10	477	501	99
8	5	0	849	841	99	8	7	7	174	193	99	8	10	-3	139	120	99	8	13	-4	511	535	99	9	0	-8	180	138	99
8	5	1	284	244	99	8	7	8	167	118	99	8	10	-2	668	653	99	8	13	-3	327	313	99	9	0	-6	412	405	99
8	5	2	905	922	99	8	7	9	385	331	99	8	10	-1	-252	68	99	8	13	-2	185	121	99	9	0	-4	413	307	99
8	5	3	229	191	99	8	7	10	365	346	99	8	10	0	146	293	99	8	13	-1	371	454	99	9	0	-2	410	361	99
8	5	4	268	290	99	8	8	-11	-91	183	99	8	10	1	42	270	99	8	13	0	463	531	99	9	0	0	578	609	99
8	5	5	-177	112	99	8	8	-10	230	299	99	8	10	2	454	474	99	8	13	1	291	290	99	9	0	2	363	384	99
8	5	6	684	680	99	8	8	-9	371	360	99	8	10	3	141	16	99	8	13	2	306	414	99	9	0	4	601	592	99
8	5	7	136	169	99	8	8	-8	-54	57	99	8	10	4	529	511	99	8	13	3	449	405	99	9	0	6	38	173	99
8	5	8	154	240	99	8	8	-7	59	128	99	8	10	5	-147	70	99	8	13	4	25	235	99	9	0	8	584	545	99
8	5	9	135	72	99	8	8	-6	297	330	99	8	10	6	170	228	99	8	13	5	162	163	99	9	1	-11	371	328	99
8	5	10	324	389	99	8	8	-5	268	253	99	8	10	7	-261	80	99	8	13	6	200	430	99	9	1	-10	-243	60	99
8	5	11	324	214	99	8	8	-4	-104	208	99	8	10	8	590	597	99	8	13	7	469	467	99	9	1	-9	471	335	99
8	6	-12	-232	61	99	8	8	-3	531	542	99	8	10	9	-296	40	99	8	14	-8	-272	18	99	9	1	-8	-119	71	99
8	6	-11	171	88	99	8	8	-2	503	491	99	8	11	-10	-118	35	99	8	14	-7	-329	182	99	9	1	-7	-377	183	99
8	6	-10	184	54	99	8	8	-1	146	184	99	8	11	-9	-182	128	99	8	14	-6	269	247	99	9	1	-6	197	205	99
8	6	-9	404	440	99	8	8	0	30	219	99	8	11	-8	-54	125	99	8	14	-5	559	534	99	9	1	-5	465	472	99
8	6	-8	105	41	99	8	8	1	482	503	99	8	11	-7	520	528	99	8	14	-4	-191	29	99	9	1	-4	-251	109	99
8	6	-7	209	206	99	8	8	2	343	317	99	8	11	-6	49	24	99	8	14	-3	507	418	99	9	1	-3	-63	152	99
8	6	-6	76	214	99	8	8	3	178	125	99	8	11	-5	497	456	99	8	14	-2	263	273	99	9	1	-2	117	184	99
8	6	-5	529	515	99	8	8	4	476	467	99	8	11	-4	-52	113	99	8	14	-1	319	264	99	9	1	-1	631	631	99
8	6	-4	173	29	99	8	8	5	230	260	99	8	11	-3	342	371	99	8	14	0	-41	36	99	9	1	0	201	42	99
8	6	-3	803	815	99	8	8	6	192	116	99	8	11	-2	-346	40	99	8	14	1	756	671	99	9	1	1	201	87	99
8	6	-2	164	118	99	8	8	7	99	198	99	8	11	-1	633	648	99	8	14	2	347	332	99	9	1	2	145	93	99
8	6	-1	423	413	99	8	8	8	214	411	99	8	11	0	121	57	99	8	14	3	-166	57	99	9	1	3	556	559	99
8	6	0	168	222	99	8	8	9	-259	205	99	8	11	1	155	108	99	8	14	4	-290	200	99	9	1	4	95	8	99
8	6	1	813	835	99	8	8	10	249	118	99	8	11	2	248	98	99	8	14	5	358	403	99	9	1	5	462	487	99
8	6	2	157	42	99	8	9	-11	174	364	99	8	11	3	746	737	99	8	14	6	82	237	99	9	1	6	172	184	99
8	6	3	400	401	99	8	9	-10	-197	95	99	8	11	4	300	244	99	8	15	-6	125	106	99	9	1	7	241	292	99
8	6	4	342	322	99	8	9	-9	225	284	99	8	11	5	247	197	99	8	15	-5	92	67	99	9	1	8	114	21	99
8	6	5	622	581	99	8	9	-8	143	128	99	8	11	6	-163	63	99	8	15	-4	621	616	99	9	1	9	446	428	99
8	6	6	76	81	99	8	9	-7	213	387	99	8	11	7	502	508	99	8	15	-3	116	58	99	9	2	-11	-306	259	99
8	6	7	523	486	99	8	9	-6	-293	14	99	8	11	8	-187	31	99	8	15	-2	-77	135	99	9	2	-10	294	332	99
8	6	8	140	84	99	8	9	-5	310	405	99	8	11	9	412	415	99	8	15	-1	146	66	99	9	2	-9	112	191	99
8	6	9	245	232	99	8	9	-4	411	406	99	8	12	-9	411	384	99	8	15	0	626	628	99	9	2	-8	219	115	99
8	6	10	64	309	99	8	9	-3	308	283	99	8	12	-8	131	215	99	8	15	1	123	123	99	9	2	-7	437	465	99
8	6	11	361	267	99	8	9	-2	192	178	99	8	12	-7	-203	27	99	8	15	2	-156	352	99	9	2	-6	504	462	99
8	7	-12	222	192	99	8	9	-1	430	445	99	8	12	-6	566	594	99	8	15	3	138	211	99	9	2	-5	-292	18	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
9	2	-4	-276	145	99	9	5	-9	-269	58	99	9	7	8	-215	178	99	9	11	-1	542	514	99	10	1	4	117	95	99
9	2	-3	236	416	99	9	5	-8	815	779	99	9	8	-9	132	99	99	9	11	0	159	74	99	10	1	5	320	397	99
9	2	-2	396	403	99	9	5	-7	-253	5	99	9	8	-8	182	195	99	9	11	1	308	269	99	10	1	6	170	23	99
9	2	-1	336	299	99	9	5	-6	434	407	99	9	8	-7	528	541	99	9	11	2	-179	36	99	10	2	-8	213	245	99
9	2	0	517	526	99	9	5	-5	212	31	99	9	8	-6	274	313	99	9	11	3	482	502	99	10	2	-7	237	247	99
9	2	1	386	380	99	9	5	-4	535	557	99	9	8	-5	-244	145	99	9	11	4	181	62	99	10	2	-6	208	229	99
9	2	2	181	273	99	9	5	-3	-52	4	99	9	8	-4	412	418	99	9	11	5	464	489	99	10	2	-5	209	314	99
9	2	3	231	159	99	9	5	-2	837	853	99	9	8	-3	464	497	99	9	11	6	193	69	99	10	2	-4	468	433	99
9	2	4	576	601	99	9	5	-1	163	43	99	9	8	-2	287	236	99	9	12	-6	410	319	99	10	2	-3	-90	238	99
9	2	5	149	104	99	9	5	0	212	192	99	9	8	-1	227	299	99	9	12	-5	145	142	99	10	2	-2	121	79	99
9	2	6	340	185	99	9	5	1	116	110	99	9	8	0	303	387	99	9	12	-4	-202	205	99	10	2	-1	307	247	99
9	2	7	290	351	99	9	5	2	756	751	99	9	8	1	345	257	99	9	12	-3	202	209	99	10	2	0	499	488	99
9	2	8	349	379	99	9	5	3	-172	50	99	9	8	2	-179	11	99	9	12	-2	200	281	99	10	2	1	-190	28	99
9	2	9	234	147	99	9	5	4	202	123	99	9	8	3	456	395	99	9	12	-1	183	35	99	10	2	2	290	361	99
9	3	-10	135	6	99	9	5	5	-293	42	99	9	8	4	363	417	99	9	12	0	475	482	99	10	2	3	77	250	99
9	3	-9	307	243	99	9	5	6	544	528	99	9	8	5	316	265	99	9	12	1	-183	203	99	10	2	4	-125	182	99
9	3	-8	574	558	99	9	5	7	-179	59	99	9	8	6	32	145	99	9	12	2	227	203	99	10	2	5	191	90	99
9	3	-7	201	281	99	9	5	8	313	313	99	9	8	7	281	299	99	9	12	3	208	177	99	10	2	6	197	196	99
9	3	-6	55	272	99	9	5	9	-283	8	99	9	9	-8	-216	226	99	9	12	4	521	521	99	10	3	-8	267	246	99
9	3	-5	279	216	99	9	6	-10	161	241	99	9	9	-7	163	134	99	9	12	5	-131	101	99	10	3	-7	238	20	99
9	3	-4	511	444	99	9	6	-9	220	304	99	9	9	-6	356	315	99	9	13	-5	343	323	99	10	3	-6	500	487	99
9	3	-3	139	49	99	9	6	-8	-238	55	99	9	9	-5	-99	411	99	9	13	-4	158	309	99	10	3	-5	188	246	99
9	3	-2	522	550	99	9	6	-7	758	734	99	9	9	-4	240	226	99	9	13	-3	188	85	99	10	3	-4	-152	99	99
9	3	-1	555	545	99	9	6	-6	-341	226	99	9	9	-3	-59	166	99	9	13	-2	184	229	99	10	3	-3	133	278	99
9	3	0	143	194	99	9	6	-5	204	90	99	9	9	-2	366	289	99	9	13	-1	330	271	99	10	3	-2	379	411	99
9	3	1	150	137	99	9	6	-4	-210	116	99	9	9	-1	514	520	99	9	13	0	-45	120	99	10	3	-1	168	212	99
9	3	2	555	547	99	9	6	-3	779	822	99	9	9	0	140	28	99	9	13	1	287	84	99	10	3	0	-200	262	99
9	3	3	475	475	99	9	6	-2	190	150	99	9	9	1	221	243	99	9	13	2	371	350	99	10	3	1	395	425	99
9	3	4	-125	87	99	9	6	-1	314	362	99	9	9	2	355	334	99	9	13	3	185	302	99	10	3	2	310	383	99
9	3	5	210	335	99	9	6	0	-87	259	99	9	9	3	343	319	99	9	14	-3	257	383	99	10	3	3	-244	49	99
9	3	6	499	491	99	9	6	1	407	358	99	9	9	4	143	69	99	9	14	-2	188	82	99	10	3	4	331	284	99
9	3	7	160	85	99	9	6	2	-207	9	99	9	9	5	466	444	99	9	14	-1	149	81	99	10	3	5	326	315	99
9	3	8	174	192	99	9	6	3	497	577	99	9	9	6	303	277	99	9	14	0	157	111	99	10	3	6	203	208	99
9	3	9	-202	308	99	9	6	4	-212	207	99	9	9	7	-237	89	99	9	14	1	334	279	99	10	4	-7	473	477	99
9	4	-10	260	123	99	9	6	5	308	320	99	9	10	-8	132	207	99	9	14	2	54	83	99	10	4	-6	-314	92	99
9	4	-9	389	452	99	9	6	6	186	155	99	9	10	-7	-49	184	99	10	0	-8	208	187	99	10	4	-5	-111	251	99
9	4	-8	86	29	99	9	6	7	496	469	99	9	10	-6	401	349	99	10	0	-6	-171	81	99	10	4	-4	198	159	99
9	4	-7	693	644	99	9	6	8	52	81	99	9	10	-5	152	38	99	10	0	-4	627	648	99	10	4	-3	112	418	99
9	4	-6	190	115	99	9	7	-9	-75	312	99	9	10	-4	357	359	99	10	0	-2	-85	113	99	10	4	-2	285	5	99
9	4	-5	146	122	99	9	7	-8	691	627	99	9	10	-3	177	138	99	10	0	0	438	461	99	10	4	-1	449	471	99
9	4	-4	-189	122	99	9	7	-7	254	183	99	9	10	-2	302	352	99	10	0	2	507	524	99	10	4	0	188	207	99
9	4	-3	753	775	99	9	7	-6	468	431	99	9	10	-1	131	173	99	10	0	4	-244	147	99	10	4	1	157	214	99
9	4	-2	327	287	99	9	7	-5	209	346	99	9	10	0	447	482	99	10	0	6	461	460	99	10	4	2	224	175	99
9	4	-1	420	420	99	9	7	-4	138	247	99	9	10	1	-156	167	99	10	1	-8	-331	19	99	10	4	3	432	478	99
9	4	0	40	54	99	9	7	-3	-107	127	99	9	10	2	149	34	99	10	1	-7	121	202	99	10	4	4	187	125	99
9	4	1	681	674	99	9	7	-2	748	772	99	9	10	3	-171	147	99	10	1	-6	287	269	99	10	4	5	143	20	99
9	4	2	-260	13	99	9	7	-1	509	425	99	9	10	4	719	686	99	10	1	-5	560	514	99	10	4	6	173	107	99
9	4	3	541	519	99	9	7	0	-268	63	99	9	10	5	156	86	99	10	1	-4	-165	5	99	10	5	-7	143	32	99
9	4	4	365	353	99	9	7	1	196	216	99	9	10	6	297	182	99	10	1	-3	352	384	99	10	5	-6	476	530	99
9	4	5	-205	260	99	9	7	2	405	435	99	9	11	-7	171	134	99	10	1	-2	190	163	99	10	5	-5	181	89	99
9	4	6	189	72	99	9	7	3	250	227	99	9	11	-6	182	131	99	10	1	-1	127	191	99	10	5	-4	-253	123	99
9	4	7	464	508	99	9	7	4	166	137	99	9	11	-5	392	420	99	10	1	0	-142	92	99	10	5	-3	-122	76	99
9	4	8	-193	71	99	9	7	5	170	330	99	9	11	-4	-67	29	99	10	1	1	677	675	99	10	5	-2	546	576	99
9	4	9	152	10	99	9	7	6	386	407	99	9	11	-3	196	68	99	10	1	2	208	99	99	10	5	-1	57	10	99
9	5	-10	-153	7	99	9	7	7	-251	28	99	9	11	-2	146	13	99	10	1	3	109	154	99	10	5	0	198	156	99

h	k	l	Fo	Fc	sigF2
10	5	1	-272	19	99
10	5	2	481	490	99
10	5	3	-236	64	99
10	5	4	351	341	99
10	5	5	60	11	99
10	6	-6	196	111	99
10	6	-5	-27	255	99
10	6	-4	-67	118	99
10	6	-3	422	421	99
10	6	-2	296	85	99
10	6	-1	398	392	99
10	6	0	-283	159	99
10	6	1	241	214	99
10	6	2	-102	72	99
10	6	3	501	483	99
10	6	4	146	172	99
10	6	5	197	60	99
10	7	-6	252	434	99
10	7	-5	325	213	99
10	7	-4	-265	45	99
10	7	-3	-151	130	99
10	7	-2	478	519	99
10	7	-1	196	218	99
10	7	0	-177	72	99
10	7	1	78	247	99
10	7	2	410	359	99
10	7	3	171	34	99
10	7	4	213	192	99
10	8	-5	174	230	99
10	8	-4	135	336	99
10	8	-3	25	269	99
10	8	-2	197	17	99
10	8	-1	356	318	99
10	8	0	219	384	99
10	8	1	314	147	99
10	8	2	-94	218	99
10	8	3	330	302	99
10	8	4	271	223	99
10	9	-4	-308	123	99
10	9	-3	443	344	99
10	9	-2	181	270	99
10	9	-1	299	306	99
10	9	0	166	72	99
10	9	1	306	403	99
10	9	2	331	303	99
10	9	3	-398	15	99
10	10	-3	52	173	99
10	10	-2	-77	21	99
10	10	-1	-90	116	99
10	10	0	446	455	99
10	10	1	291	188	99

APPENDIX 7.IX

$[Hg(S_2CNnBu_2)_2]$

Table 7.IX.1: Crystallographic Parameters for $[Hg(S_2CN(CH_2CH_2CH_2CH_3)2)2]$

Formula	$C_{18}H_{36}HgN_2S_4$
Formula weight	609.33
Crystal morphology / colour	block / pale yellow
Crystal dimensions (mm)	0.32 x 0.36 x 0.42
Crystal system	monoclinic
Space group	*C*2/*c* (# 15)
a (Å)	23.210(6)
b (Å)	16.48(1)
c (Å)	16.285(6)
α (°)	90
β (°)	126.81(2)
γ (°)	90
V (Å^3)	4987(3)
Z	8
$\rho_{calc.}$ (g cm^{-3})	1.623
F(000)	2416
Temperature (°K)	200
μ (cm^{-1})	65.28
θ limits, cell (°)	18.4 – 20.7
θ limits, data (°)	3.0 – 27.5
hkl range	0 – 30, 0 – 21, -21 – 14
Range of transmission factors	0.966 – 1
Scan technique	ω:2θ
No. of data measured	6135
No. of unique data	5990
R_{amal}	0.103
No. of parameters	206
R (I≥0σ(I))	0.157
R_w (I≥0σ(I))	0.141
R (I≥3σ(I))	0.065
R_w (I≥3σ(I))	0.067
Maximum and minimum residual electron density (e Å^{-3})	2.99, -4.12

To refine the structure of $[Hg(S_2CNnBu_2)_2]$ the general procedure outlined in chapter 2 was followed but significant thermal motion was found, associated with some of the n-butyl groups. Despite the large thermal motion, multiple sites for these atoms were not located suggesting that the disorder is dynamic in nature. The carbon atoms of the C(11)-C(14) butyl group was refined isotropically with restrained C-C bond distances of 1.50(2) Å.

Table 7.IX.2: Fractional atomic coordinates for the non-hydrogen atoms in $[Hg(S_2CN(CH_2CH_2CH_2CH_3)_2)_2]$

Atom	*x*	*y*	*z*
Hg	0.10216(2)	0.06498(2)	0.30871(3)
S(1)	0.0551(1)	-0.0585(1)	0.2032(2)
S(2)	-0.0480(1)	0.0797(1)	0.0911(2)
S(3)	0.1419(1)	0.1957(1)	0.2731(2)
S(4)	0.2412(1)	0.0871(2)	0.4481(2)
N(1)	-0.0642(3)	-0.0700(4)	0.0160(5)
N(2)	0.2828(4)	0.2226(5)	0.4106(6)
C(1)	-0.0228(4)	-0.0210(5)	0.0966(6)
C(2)	-0.0424(5)	-0.1559(5)	0.0196(7)
C(3)	-0.0648(5)	-0.2130(6)	0.0697(8)
C(4)	-0.0348(8)	-0.2950(7)	0.079(1)
C(5)	-0.0669(8)	-0.3590(8)	0.103(1)
C(6)	-0.1337(5)	-0.0431(5)	-0.0809(6)
C(7)	-0.1988(5)	-0.0638(5)	-0.0869(6)
C(8)	-0.2667(5)	-0.0372(6)	-0.1860(8)
C(9)	-0.3333(5)	-0.0622(7)	-0.1996(9)
C(10)	0.2268(5)	0.1730(5)	0.3785(6)
C(11)	0.3533(6)	0.2132(7)	0.5073(9)
C(12)	0.3985(8)	0.1567(8)	0.497(1)
C(13)	0.4661(10)	0.163(1)	0.608(1)
C(14)	0.511(1)	0.094(1)	0.617(2)
C(15)	0.2723(5)	0.2965(5)	0.3509(7)

Table 7.IX.2: Cont.

Atom	*x*	*y*	*z*
C(16)	0.2812(6)	0.2770(6)	0.2639(8)
C(17)	0.2653(5)	0.3472(6)	0.1977(8)
C(18)	0.2770(6)	0.3290(7)	0.1173(8)

Table 7.IX.3: Anisotropic thermal parameters ($Å^2$) for the non-hydrogen atoms in $[Hg(S_2CN(CH_2CH_2CH_2CH_3)_2)_2]$

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Hg	0.0724(2)	0.0644(2)	0.0645(2)	-0.0163(2)	0.0494(2)	-0.0046(2)
S(1)	0.058(1)	0.053(1)	0.066(1)	0.005(1)	0.041(1)	-0.001(1)
S(2)	0.074(2)	0.049(1)	0.064(1)	0.008(1)	0.052(1)	0.008(1)
S(3)	0.076(2)	0.050(1)	0.069(2)	-0.007(1)	0.051(1)	0.001(1)
S(4)	0.069(2)	0.082(2)	0.076(2)	-0.013(1)	0.040(1)	0.019(1)
N(1)	0.068(4)	0.055(3)	0.055(3)	-0.012(3)	0.049(3)	-0.004(3)
N(2)	0.087(5)	0.074(5)	0.071(5)	-0.026(4)	0.056(4)	-0.009(4)
C(1)	0.058(4)	0.050(3)	0.058(4)	-0.004(3)	0.048(2)	-0.004(3)
C(2)	0.089(7)	0.056(4)	0.067(6)	-0.002(5)	0.053(5)	-0.006(5)
C(3)	0.079(7)	0.065(5)	0.089(7)	-0.016(5)	0.056(6)	0.005(6)
C(4)	0.21(1)	0.051(6)	0.22(2)	0.019(7)	0.16(1)	0.012(9)
C(5)	0.24(2)	0.080(10)	0.27(2)	-0.014(10)	0.18(2)	0.04(1)
C(6)	0.076(4)	0.071(7)	0.048(4)	-0.013(5)	0.038(4)	-0.001(4)
C(7)	0.074(5)	0.050(5)	0.062(5)	-0.005(5)	0.045(4)	-0.003(5)
C(8)	0.071(5)	0.079(7)	0.082(7)	0.004(5)	0.031(5)	0.010(6)
C(9)	0.070(7)	0.118(10)	0.14(1)	-0.015(7)	0.057(7)	-0.020(9)
C(10)	0.078(3)	0.067(5)	0.057(5)	-0.009(3)	0.053(3)	-0.012(3)
C(15)	0.085(7)	0.058(5)	0.076(7)	-0.025(5)	0.049(6)	-0.011(4)
C(16)	0.124(9)	0.071(6)	0.097(8)	-0.013(6)	0.095(8)	-0.018(5)
C(17)	0.112(8)	0.079(7)	0.091(8)	-0.032(6)	0.079(7)	-0.018(5)
C(18)	0.156(10)	0.129(10)	0.093(8)	-0.044(9)	0.110(8)	-0.038(7)

Table 7.IX.4: Fractional atomic coordinates and B_{eq} values ($Å^2$) for the hydrogen atoms in [Hg($S_2CN(CH_2CH_2CH_2CH_3)_2)_2$]*

Atom	x	y	z	B_{eq}
H(2a)	0.0094	-0.1580	0.0581	6.2566
H(2b)	-0.0649	-0.1743	-0.0502	6.2566
H(3a)	-0.1169	-0.2162	0.0277	7.1198
H(3b)	-0.0463	-0.1930	0.1372	7.1198
H(4a)	0.0170	-0.2934	0.1320	13.3150
H(4b)	-0.0435	-0.3083	0.0135	13.3150
H(5a)	-0.1182	-0.3609	0.0502	16.2200
H(5b)	-0.0455	-0.4108	0.1081	16.2200
H(5c)	-0.0574	-0.3462	0.1687	16.2200
H(6a)	-0.1383	-0.0688	-0.1384	6.1330
H(6b)	-0.1320	0.0154	-0.0866	6.1330
H(7a)	-0.1955	-0.0371	-0.0310	5.6765
H(7b)	-0.2006	-0.1221	-0.0804	5.6765
H(8a)	-0.2674	-0.0603	-0.2416	8.2625
H(8b)	-0.2661	0.0215	-0.1895	8.2625
H(9a)	-0.3342	-0.0382	-0.1459	10.5090
H(9b)	-0.3751	-0.0449	-0.2659	10.5090
H(9c)	-0.3341	-0.1212	-0.1948	10.5090
H(11a)	0.3481	0.1924	0.5580	9.6208
H(11b)	0.3765	0.2662	0.5290	9.6208
H(12a)	0.3789	0.1034	0.4771	13.7582
H(12b)	0.4073	0.1758	0.4498	13.7582

Table 7.IX.4: Cont.

Atom	x	y	z	B_{eq}
H(13a)	0.4872	0.2131	0.6210	25.4524
H(13b)	0.4514	0.1540	0.6523	25.4524
H(14a)	0.4887	0.0447	0.6051	28.7888
H(14b)	0.5246	0.1039	0.5742	28.7888
H(14c)	0.5553	0.0950	0.6885	28.7888
H(15a)	0.2242	0.3176	0.3194	6.3635
H(15b)	0.3075	0.3370	0.3968	6.3635
H(16a)	0.3306	0.2604	0.2961	7.7060
H(16b)	0.2489	0.2332	0.2219	7.7060
H(17a)	0.2153	0.3625	0.1628	7.8232
H(17b)	0.2961	0.3919	0.2396	7.8232
H(18a)	0.3270	0.3153	0.1506	9.8564
H(18b)	0.2647	0.3768	0.0743	9.8564
H(18c)	0.2466	0.2841	0.0747	9.8564

[k] H atoms were included in their calculated positions, C-H 0.97 Å.

Table 7.IX.5: Bond distances (Å) for [Hg($S_2CN(CH_2CH_2CH_2CH_3)_2$)2]

Hg — S(1)	2.457(3)	N(2) — C(15)	1.49(1)
Hg — S(2)	3.157(3)	C(2) — C(3)	1.53(2)
Hg — S(2)*	2.601(3)	C(3) — C(4)	1.49(2)
Hg — S(3)	2.544(3)	C(4) — C(5)	1.48(2)
Hg — S(4)	2.631(3)	C(6) — C(7)	1.49(2)
S(1) — C(1)	1.70(1)	C(7) — C(8)	1.49(2)
S(2) — C(1)	1.74(1)	C(8) — C(9)	1.48(2)
S(3) — C(10)	1.71(1)	C(11) — C(12)	1.49(1)
S(4) — C(10)	1.72(1)	C(12) — C(13)	1.54(1)
N(1) — C(1)	1.34(1)	C(13) — C(14)	1.48(1)
N(1) — C(2)	1.49(1)	C(15) — C(16)	1.58(2)
N(1) — C(6)	1.50(1)	C(16) — C(17)	1.47(2)
N(2) — C(10)	1.35(1)	C(17) — C(18)	1.52(2)
N(2) — C(11)	1.45(2)		

* symmetry operation: $-x$, y, $0.5 - z$

Table 7.IX.6: Bond angles (deg.) for $[Hg(S_2CN(CH_2CH_2CH_2CH_3)2)2]$

S(1) — Hg — S(2)	63.21(9)	C(10) — N(2) — C(15)	120(1)
S(1) — Hg — S(2)*	109.65(9)	C(11) — N(2) — C(15)	116(1)
S(1) — Hg — S(3)	127.7(1)	S(1) — C(1) — S(2)	121.0(7)
S(1) — Hg — S(4)	121.3(1)	S(1) — C(1) — N(1)	118.9(8)
S(2) — Hg — S(2)*	94.23(9)	S(2) — C(1) — N(1)	120.1(9)
S(2) — Hg — S(3)	89.21(9)	N(1) — C(2) — C(3)	113(1)
S(2) — Hg — S(4)	156.41(9)	C(2) — C(3) — C(4)	109(1)
S(2)* — Hg — S(3)	116.2(1)	C(3) — C(4) — C(5)	113(2)
S(2)* — Hg — S(4)	104.5(1)	N(1) — C(6) — C(7)	114.2(9)
S(3) — Hg — S(4)	69.8(1)	C(6) — C(7) — C(8)	112(1)
Hg — S(1) — C(1)	99.7(4)	C(7) — C(8) — C(9)	114(1)
Hg — S(2) — Hg*	84.94(8)	S(3) — C(10) — S(4)	119.7(7)
Hg — S(2) — C(1)	76.0(4)	S(3) — C(10) — N(2)	121.4(9)
Hg — S(2)* — C(1)*	98.8(3)	S(4) — C(10) — N(2)	118.9(9)
Hg — S(3) — C(10)	86.7(4)	N(2) — C(11) — C(12)	111(1)
Hg — S(4) — C(10)	83.8(4)	C(11) — C(12) — C(13)	96(2)
C(1) — N(1) — C(2)	120(1)	C(12) — C(13) — C(14)	103(2)
C(1) — N(1) — C(6)	123(1)	N(2) — C(15) — C(16)	111(1)
C(2) — N(1) — C(6)	116.6(9)	C(15) — C(16) — C(17)	113(1)
C(10) — N(2) — C(11)	124(1)	C(16) — C(17) — C(18)	112(1)

* symmetry operation: - x, y, 0.5 - z

Table 7.IX.7: Observed and calculated structure factors for $[Hg(S_2CN(CH_2CH_2CH_2CH_3)_2)_2]$

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
0	0	2	2993	3291	99	0	6	15	344	211	99	0	14	6	381	371	99	1	1	6	2720	2757	99	1	5	-6	195	130	99
0	0	4	387	394	99	0	6	16	-369	236	99	0	14	7	209	333	99	1	1	7	1071	1002	99	1	5	-5	1344	1327	99
0	0	6	840	876	99	0	8	0	6454	6383	99	0	14	8	819	873	99	1	1	8	2237	2214	99	1	5	-4	493	459	99
0	0	8	3247	3178	99	0	8	1	1025	1015	99	0	14	9	120	259	99	1	1	9	866	828	99	1	5	-3	2505	2577	99
0	0	10	2532	2500	99	0	8	2	2960	3066	99	0	14	10	628	614	99	1	1	10	1358	1357	99	1	5	-2	1370	1358	99
0	0	12	377	361	99	0	8	3	518	447	99	0	14	11	-280	101	99	1	1	11	-109	215	99	1	5	-1	3626	3699	99
0	0	14	235	262	99	0	8	4	569	606	99	0	14	12	-196	46	99	1	1	12	391	368	99	1	5	0	2053	1997	99
0	0	16	360	338	99	0	8	5	634	582	99	0	16	0	1216	1150	99	1	1	13	228	180	99	1	5	1	1445	1396	99
0	2	2	2633	2457	99	0	8	6	1119	1089	99	0	16	1	592	568	99	1	1	14	595	597	99	1	5	2	496	467	99
0	2	3	328	287	99	0	8	7	216	66	99	0	16	2	1186	1176	99	1	1	15	-296	139	99	1	5	3	1974	1871	99
0	2	4	232	199	99	0	8	8	2008	2096	99	0	16	3	-100	137	99	1	1	16	67	193	99	1	5	4	508	473	99
0	2	5	372	294	99	0	8	9	490	493	99	0	16	4	316	228	99	1	1	-17	236	304	99	1	5	5	2441	2404	99
0	2	6	1551	1545	99	0	8	10	1401	1460	99	0	16	5	348	230	99	1	1	-16	333	76	99	1	5	6	1683	1657	99
0	2	7	1358	1469	99	0	8	11	274	252	99	0	16	6	415	513	99	1	1	-15	203	32	99	1	5	7	2281	2289	99
0	2	8	2826	2794	99	0	8	12	313	291	99	0	16	7	47	27	99	1	1	-14	-334	29	99	1	5	8	581	488	99
0	2	9	1962	1942	99	0	8	13	116	17	99	0	16	8	684	620	99	1	1	-13	600	550	99	1	5	9	1091	1043	99
0	2	10	1595	1607	99	0	8	14	308	114	99	0	16	9	-409	281	99	1	1	-12	305	252	99	1	5	10	453	356	99
0	2	11	321	431	99	0	8	15	-232	13	99	0	16	10	369	448	99	1	1	-11	993	976	99	1	5	11	-185	161	99
0	2	12	334	196	99	0	10	0	1509	1527	99	0	16	11	237	81	99	1	1	-10	1344	1233	99	1	5	12	-228	207	99
0	2	13	-306	116	99	0	10	1	2576	2555	99	0	18	0	-284	169	99	1	1	-9	2899	2896	99	1	5	13	533	727	99
0	2	14	317	270	99	0	10	2	1188	1399	99	0	18	1	594	605	99	1	1	-8	1352	1442	99	1	5	14	337	344	99
0	2	15	227	340	99	0	10	3	410	396	99	0	18	2	369	335	99	1	1	-7	355	276	99	1	5	15	360	426	99
0	2	16	181	286	99	0	10	4	-299	62	99	0	18	3	209	179	99	1	1	-6	458	498	99	1	5	16	328	156	99
0	4	0	1008	901	99	0	10	5	-207	96	99	0	18	4	-79	68	99	1	1	-5	1076	1188	99	1	7	-16	-437	213	99
0	4	1	5107	4968	99	0	10	6	1227	1244	99	0	18	5	-308	146	99	1	1	-4	160	153	99	1	7	-15	-177	51	99
0	4	2	870	795	99	0	10	7	838	823	99	0	18	6	351	392	99	1	1	-3	1094	1166	99	1	7	-14	-402	200	99
0	4	3	385	308	99	0	10	8	1108	1082	99	0	18	7	-174	316	99	1	1	-2	630	473	99	1	7	-13	-310	41	99
0	4	4	271	77	99	0	10	9	1164	1178	99	0	18	8	234	240	99	1	1	-1	4486	4611	99	1	7	-12	642	660	99
0	4	5	985	953	99	0	10	10	935	934	99	0	18	9	332	361	99	1	1	0	2803	2706	99	1	7	-11	192	64	99
0	4	6	391	342	99	0	10	11	232	299	99	0	20	0	155	108	99	1	1	1	2836	2642	99	1	7	-10	1884	1902	99
0	4	7	2692	2714	99	0	10	12	60	87	99	0	20	1	-258	222	99	1	1	2	980	916	99	1	7	-9	-128	81	99
0	4	8	-344	125	99	0	10	13	-183	52	99	0	20	2	-133	59	99	1	1	3	2128	2066	99	1	7	-8	1576	1546	99
0	4	9	2448	2391	99	0	10	14	323	125	99	0	20	3	327	211	99	1	1	4	1251	1204	99	1	7	-7	388	408	99
0	4	10	-360	72	99	0	10	15	-273	220	99	0	20	4	421	125	99	1	1	5	2680	2623	99	1	7	-6	697	608	99
0	4	11	576	495	99	0	12	0	485	516	99	0	20	5	-146	224	99	1	1	6	706	670	99	1	7	-5	740	725	99
0	4	12	-440	196	99	0	12	1	1638	1446	99	0	20	6	-250	60	99	1	1	7	2269	2224	99	1	7	-4	1454	1509	99
0	4	13	279	265	99	0	12	2	293	362	99	1	1	-17	-479	105	99	1	1	8	538	372	99	1	7	-3	1710	1701	99
0	4	14	-371	69	99	0	12	3	289	158	99	1	1	-16	233	263	99	1	1	9	1201	1145	99	1	7	-2	4268	4250	99
0	4	15	-147	452	99	0	12	4	208	179	99	1	1	-15	261	108	99	1	1	10	139	263	99	1	7	-1	189	164	99
0	4	16	-319	42	99	0	12	5	770	824	99	1	1	-14	383	257	99	1	1	11	-243	130	99	1	7	0	4732	4864	99
0	6	0	4450	4660	99	0	12	6	258	32	99	1	1	-13	-39	64	99	1	1	12	147	180	99	1	7	1	773	844	99
0	6	1	3090	3105	99	0	12	7	885	890	99	1	1	-12	850	863	99	1	1	13	897	926	99	1	7	2	998	1011	99
0	6	2	1918	1765	99	0	12	8	271	176	99	1	1	-11	96	251	99	1	1	14	321	214	99	1	7	3	302	149	99
0	6	3	1257	1112	99	0	12	9	1162	1114	99	1	1	-10	2318	2402	99	1	1	15	361	548	99	1	7	4	744	818	99
0	6	4	400	348	99	0	12	10	263	228	99	1	1	-9	652	682	99	1	1	16	273	130	99	1	7	5	844	885	99
0	6	5	-103	395	99	0	12	11	-170	223	99	1	1	-8	2409	2395	99	1	5	-16	251	81	99	1	7	6	2223	2178	99
0	6	6	787	759	99	0	12	12	-426	85	99	1	1	-7	429	393	99	1	5	-15	-536	52	99	1	7	7	367	404	99
0	6	7	1000	1007	99	0	12	13	332	164	99	1	1	-6	907	830	99	1	5	-14	109	128	99	1	7	8	1991	1927	99
0	6	8	2334	2412	99	0	12	14	132	78	99	1	1	-5	848	847	99	1	5	-13	150	321	99	1	7	9	233	273	99
0	6	9	1371	1438	99	0	14	0	2036	2046	99	1	1	-4	2119	2145	99	1	5	-12	418	412	99	1	7	10	801	764	99
0	6	10	1217	1216	99	0	14	1	846	750	99	1	1	-3	2328	2332	99	1	5	-11	1013	1019	99	1	7	11	-40	93	99
0	6	11	227	326	99	0	14	2	809	794	99	1	1	2	884	730	99	1	5	-10	1405	1359	99	1	7	12	-458	166	99
0	6	12	124	197	99	0	14	3	683	705	99	1	1	3	-144	63	99	1	5	-9	1740	1738	99	1	7	13	352	77	99
0	6	13	197	181	99	0	14	4	239	141	99	1	1	4	1028	1006	99	1	5	-8	1546	1608	99	1	7	14	272	387	99
0	6	14	206	185	99	0	14	5	-219	103	99	1	1	5	1597	1559	99	1	5	-7	385	399	99	1	7	15	293	127	99
1	9	-15	201	4	99	1	11	9	742	766	99	1	15	10	249	277	99	2	0	8	1184	1126	99	2	4	-1	2076	2205	99
1	9	-14	315	146	99	1	11	10	196	137	99	1	15	11	-367	87	99	2	0	10	527	439	99	2	4	0	752	673	99
1	9	-13	262	60	99	1	11	11	337	258	99	1	17	-10	330	346	99	2	0	12	993	989	99	2	4	1	2714	2435	99
1	9	-12	597	632	99	1	11	12	-435	95	99	1	17	-9	-519	275	99	2	0	14	534	507	99	2	4	2	128	340	99
1	9	-11	50	437	99	1	11	13	335	462	99	1	17	-8	426	475	99	2	0	16	104	76	99	2	4	3	3579	3532	99
1	9	-10	1283	1300	99	1	11	14	-313	27	99	1	17	-7	270	78	99	2	2	-17	120	64	99	2	4	4	-265	67	99
1	9	-9	847	855	99	1	13	-13	324	74	99	1	17	-6	426	385	99	2	2	-16	-467	114	99	2	4	5	3791	3877	99
1	9	-8	1381	1347	99	1	13	-12	294	288	99	1	17	-5	221	323	99	2	2	-15	-139	271	99	2	4	6	-297	106	99
1	9	-7	617	592	99	1	13	-11	575	435	99	1	17	-4	622	545	99	2	2	-14	533	511	99	2	4	7	1234	1271	99
1	9	-6	557	436	99	1	13	-10	754	785	99	1	17	-3	571	547	99	2	2	-13	653	622	99	2	4	8	260	29	99
1	9	-5	936	917	99	1	13	-9	533	466	99	1	17	-2	763	771	99	2	2	-12	1171	1238	99	2	4	9	143	37	99
1	9	-4	1960	1928	99	1	13	-8	537	545	99	1	17	-1	710	759	99	2	2	-11	932	957	99	2	4	10	252	125	99
1	9	-3	1373	1400	99	1	13	-7	-173	307	99	1	17	0	548	558	99	2	2	-10	1968	1912	99	2	4	11	1034	1043	99
1	9	-2	2477	2611	99	1	13	-6	-327	38	99	1	17	1	541	459	99	2	2	-9	800	810	99	2	4	12	217	239	99
1	9	-1	3051	2994	99	1	13	-5	461	570	99	1	17	2	331	333	99	2	2	-8	297	190	99	2	4	13	1066	1129	99
1	9	0	3159	3080	99	1	13	-4	213	174	99	1	17	3	-10	150	99	2	2	-7	2282	2366	99	2	4	14	-85	9	99
1	9	1	734	733	99	1	13	-3	1483	1506	99	1	17	4	-196	293	99	2	2	-6	1394	1402	99	2	4	15	248	444	99
1	9	2	726	660	99	1	13	-2	893	863	99	1	17	5	280	241	99	2	2	-5	2151	2094	99	2	6	-17	143	85	99
1	9	3	761	715	99	1	13	-1	939	917	99	1	17	6	498	425	99	2	2	-4	2978	2835	99	2	6	-16	-399	191	99
1	9	4	1183	1143	99	1	13	0	1173	1151	99	1	17	7	-155	375	99	2	2	-3	6034	6110	99	2	6	-15	153	116	99
1	9	5	900	835	99	1	13	1	647	622	99	1	17	8	423	319	99	2	2	-2	3701	3733	99	2	6	-14	299	440	99
1	9	6	1600	1567	99	1	13	2	558	483	99	1	17	9	-203	292	99	2	2	-1	1360	1402	99	2	6	-13	651	588	99
1	9	7	925	970	99	1	13	3	622	505	99	1	19	-8	136	130	99	2	2	0	2650	2722	99	2	6	-12	963	1106	99
1	9	8	1264	1217	99	1	13	4	312	239	99	1	19	-7	40	198	99	2	2	1	617	674	99	2	6	-11	363	425	99
1	9	9	656	662	99	1	13	5	1191	1161	99	1	19	-6	-353	176	99	2	2	2	296	316	99	2	6	-10	1802	1836	99
1	9	10	745	711	99	1	13	6	612	571	99	1	19	-5	107	85	99	2	2	3	3719	3585	99	2	6	-9	-88	333	99
1	9	11	336	248	99	1	13	7	776	832	99	1	19	-4	278	184	99	2	2	4	2860	2790	99	2	6	-8	-259	174	99
1	9	12	-193	210	99	1	13	8	264	476	99	1	19	-3	233	426	99	2	2	5	3668	3618	99	2	6	-7	960	965	99
1	9	13	87	234	99	1	13	9	433	389	99	1	19	-2	97	54	99	2	2	6	1371	1331	99	2	6	-6	1217	1272	99
1	9	14	-283	333	99	1	13	10	-267	162	99	1	19	-1	-215	378	99	2	2	7	1722	1624	99	2	6	-5	2822	2887	99
1	9	15	294	117	99	1	13	11	241	138	99	1	19	0	-279	17	99	2	2	8	-98	120	99	2	6	-4	1774	1924	99
1	11	-15	323	16	99	1	13	12	340	182	99	1	19	1	332	204	99	2	2	9	536	449	99	2	6	-3	3456	3493	99
1	11	-14	-308	8	99	1	13	13	-249	236	99	1	19	2	-45	163	99	2	2	10	-304	132	99	2	6	-2	3642	3636	99
1	11	-13	221	271	99	1	15	-12	-164	274	99	1	19	3	444	224	99	2	2	11	577	506	99	2	6	-1	205	452	99
1	11	-12	-109	257	99	1	15	-11	269	17	99	1	19	4	251	52	99	2	2	12	766	768	99	2	6	0	1352	1326	99
1	11	-11	680	715	99	1	15	-10	593	666	99	1	19	5	155	393	99	2	2	13	703	769	99	2	6	1	679	735	99
1	11	-10	-230	353	99	1	15	-9	245	178	99	1	19	6	58	177	99	2	2	14	476	433	99	2	6	2	354	391	99
1	11	-9	1469	1457	99	1	15	-8	554	462	99	1	19	7	325	383	99	2	2	15	428	241	99	2	6	3	2797	2778	99
1	11	-8	600	588	99	1	15	-7	-164	164	99	1	21	-3	301	410	99	2	2	16	190	67	99	2	6	4	2380	2377	99
1	11	-7	-346	203	99	1	15	-6	269	164	99	1	21	-2	-341	164	99	2	4	-17	172	38	99	2	6	5	2920	2906	99
1	11	-6	729	656	99	1	15	-5	258	274	99	1	21	-1	-107	115	99	2	4	-16	324	98	99	2	6	6	1854	1825	99
1	11	-5	71	367	99	1	15	-4	1108	1060	99	1	21	0	261	265	99	2	4	-15	599	508	99	2	6	7	1484	1375	99
1	11	-4	625	645	99	1	15	-3	347	331	99	1	21	1	-61	89	99	2	4	-14	-418	61	99	2	6	8	433	416	99
1	11	-3	1129	1111	99	1	15	-2	1397	1387	99	1	21	2	-337	57	99	2	4	-13	1085	1082	99	2	6	9	-260	177	99
1	11	-2	264	196	99	1	15	-1	-138	99	99	1	21	3	-420	34	99	2	4	-12	319	61	99	2	6	10	-397	48	99
1	11	-1	2070	2019	99	1	15	0	1473	1389	99	2	0	-16	-95	49	99	2	4	-11	1898	1869	99	2	6	11	412	401	99
1	11	0	-330	157	99	1	15	1	-262	90	99	2	0	-14	571	621	99	2	4	-10	368	327	99	2	6	12	652	630	99
1	11	1	1120	1082	99	1	15	2	669	616	99	2	0	-12	1313	1281	99	2	4	-9	1268	1250	99	2	6	13	510	467	99
1	11	2	680	657	99	1	15	3	274	213	99	2	0	-10	2087	2104	99	2	4	-8	568	520	99	2	6	14	85	377	99
1	11	3	1130	1108	99	1	15	4	487	505	99	2	0	-8	-252	107	99	2	4	-7	1990	1825	99	2	6	15	232	229	99
1	11	4	275	205	99	1	15	5	338	303	99	2	0	-6	2895	2922	99	2	4	-6	149	85	99	2	8	-16	-271	11	99
1	11	5	1287	1262	99	1	15	6	949	910	99	2	0	-4	4518	4525	99	2	4	-5	3388	3465	99	2	8	-15	186	69	99
1	11	6	259	342	99	1	15	7	-370	115	99	2	0	2	4465	4339	99	2	4	-4	123	109	99	2	8	-14	-285	374	99
1	11	7	1214	1185	99	1	15	8	799	785	99	2	0	4	3903	3985	99	2	4	-3	4589	4593	99	2	8	-13	122	139	99
1	11	8	427	234	99	1	15	9	-342	65	99	2	0	6	3490	3421	99	2	4	-2	1131	1114	99	2	8	-12	997	956	99

h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF	h	k	l	Fo	Fc	sigF
2	8	-11	275	265	99	2	10	14	-133	217	99	2	16	-11	292	141	99	3	1	-16	-303	475	99	3	3	6	289	255	99
2	8	-10	1260	1274	99	2	12	-14	-370	52	99	2	16	-10	-192	347	99	3	1	-15	318	238	99	3	3	7	771	714	99
2	8	-9	-259	17	99	2	12	-13	616	567	99	2	16	-9	-115	64	99	3	1	-14	295	537	99	3	3	8	413	296	99
2	8	-8	304	277	99	2	12	-12	-200	67	99	2	16	-8	-454	197	99	3	1	-13	397	433	99	3	3	9	589	557	99
2	8	-7	800	737	99	2	12	-11	716	804	99	2	16	-7	216	277	99	3	1	-12	1523	1460	99	3	3	10	483	435	99
2	8	-6	1749	1763	99	2	12	-10	195	386	99	2	16	-6	-262	449	99	3	1	-11	642	547	99	3	3	11	1326	1363	99
2	8	-5	144	229	99	2	12	-9	511	530	99	2	16	-5	-320	57	99	3	1	-10	1039	1029	99	3	3	12	378	321	99
2	8	-4	3475	3510	99	2	12	-8	-303	210	99	2	16	-4	1239	1130	99	3	1	-9	514	577	99	3	3	13	391	648	99
2	8	-3	670	700	99	2	12	-7	566	625	99	2	16	-3	311	207	99	3	1	-8	1495	1497	99	3	3	14	-88	166	99
2	8	-2	3223	3292	99	2	12	-6	283	35	99	2	16	-2	926	942	99	3	1	-7	1731	1657	99	3	3	15	-125	181	99
2	8	-1	912	943	99	2	12	-5	1456	1523	99	2	16	-1	507	500	99	3	1	-6	2809	2758	99	3	5	-17	272	251	99
2	8	0	1244	1173	99	2	12	-4	-94	122	99	2	16	0	514	446	99	3	1	-5	1841	1894	99	3	5	-16	429	343	99
2	8	1	68	97	99	2	12	-3	2071	2169	99	2	16	1	-168	127	99	3	1	-4	4591	4558	99	3	5	-15	601	616	99
2	8	2	1685	1560	99	2	12	-2	698	677	99	2	16	2	348	295	99	3	1	-3	1783	1632	99	3	5	-14	286	365	99
2	8	3	-238	77	99	2	12	-1	1164	1124	99	2	16	3	269	313	99	3	1	-2	1754	1611	99	3	5	-13	1076	1093	99
2	8	4	2249	2229	99	2	12	0	155	239	99	2	16	4	743	700	99	3	1	0	1560	1388	99	3	5	-12	937	986	99
2	8	5	591	571	99	2	12	1	-295	163	99	2	16	5	218	211	99	3	1	1	729	785	99	3	5	-11	964	907	99
2	8	6	2193	2247	99	2	12	2	-169	187	99	2	16	6	676	688	99	3	1	2	3572	3710	99	3	5	-10	278	367	99
2	8	7	-181	124	99	2	12	3	1718	1670	99	2	16	7	-341	215	99	3	1	3	2812	2953	99	3	5	-9	798	775	99
2	8	8	991	990	99	2	12	4	-284	135	99	2	16	8	400	361	99	3	1	4	3142	3198	99	3	5	-8	1259	1194	99
2	8	9	478	386	99	2	12	5	1526	1416	99	2	16	9	325	234	99	3	1	5	2352	2323	99	3	5	-7	2632	2673	99
2	8	10	-241	138	99	2	12	6	333	180	99	2	16	10	165	74	99	3	1	6	1289	1242	99	3	5	-6	918	1001	99
2	8	11	131	68	99	2	12	7	864	808	99	2	18	-10	-221	118	99	3	1	7	458	329	99	3	5	-5	3930	3857	99
2	8	12	451	558	99	2	12	8	-147	105	99	2	18	-9	-240	145	99	3	1	8	219	166	99	3	5	-4	1640	1688	99
2	8	13	-224	118	99	2	12	9	-110	95	99	2	18	-8	327	353	99	3	1	9	338	109	99	3	5	-3	4042	3960	99
2	8	14	-162	354	99	2	12	10	-204	104	99	2	18	-7	-219	145	99	3	1	10	878	846	99	3	5	-2	2058	2099	99
2	10	-15	152	220	99	2	12	11	425	494	99	2	18	-6	274	146	99	3	1	11	565	613	99	3	5	-1	192	301	99
2	10	-14	348	371	99	2	12	12	332	271	99	2	18	-5	524	551	99	3	1	12	997	971	99	3	5	0	475	389	99
2	10	-13	-182	322	99	2	12	13	-131	484	99	2	18	-4	406	455	99	3	1	13	258	330	99	3	5	1	2621	2613	99
2	10	-12	848	787	99	2	14	-13	-53	198	99	2	18	-3	510	591	99	3	1	14	-341	173	99	3	5	2	508	511	99
2	10	-11	868	856	99	2	14	-12	576	501	99	2	18	-2	97	236	99	3	1	15	307	90	99	3	5	3	3942	4015	99
2	10	-10	536	549	99	2	14	-11	-71	90	99	2	18	-1	-270	391	99	3	3	-18	23	39	99	3	5	4	984	984	99
2	10	-9	776	698	99	2	14	-10	603	653	99	2	18	0	31	53	99	3	3	-17	372	377	99	3	5	5	2488	2379	99
2	10	-8	664	627	99	2	14	-9	-237	182	99	2	18	1	-321	139	99	3	3	-16	-404	115	99	3	5	6	-367	308	99
2	10	-7	1300	1238	99	2	14	-8	-311	15	99	2	18	2	210	132	99	3	3	-15	747	711	99	3	5	7	511	461	99
2	10	-6	78	131	99	2	14	-7	202	191	99	2	18	3	494	439	99	3	3	-14	538	487	99	3	5	8	119	23	99
2	10	-5	1334	1249	99	2	14	-6	680	639	99	2	18	4	248	86	99	3	3	-13	1043	1114	99	3	5	9	746	765	99
2	10	-4	1896	1876	99	2	14	-5	1135	1101	99	2	18	5	199	401	99	3	3	-12	817	918	99	3	5	10	493	444	99
2	10	-3	2028	2006	99	2	14	-4	898	902	99	2	18	6	224	232	99	3	3	-11	1542	1504	99	3	5	11	1004	1027	99
2	10	-2	945	1018	99	2	14	-3	654	654	99	2	18	7	497	401	99	3	3	-10	266	311	99	3	5	12	583	579	99
2	10	-1	1554	1629	99	2	14	-2	1205	1158	99	2	18	8	129	47	99	3	3	-9	908	909	99	3	5	13	630	636	99
2	10	0	721	771	99	2	14	-1	-138	246	99	2	20	-6	329	49	99	3	3	-8	811	797	99	3	5	14	-453	64	99
2	10	1	564	516	99	2	14	0	741	785	99	2	20	-5	289	401	99	3	3	-7	3720	3770	99	3	5	15	-126	177	99
2	10	2	337	347	99	2	14	1	508	434	99	2	20	-4	-380	46	99	3	3	-6	1129	1100	99	3	7	-17	-134	29	99
2	10	3	2017	2045	99	2	14	2	706	698	99	2	20	-3	437	528	99	3	3	-5	3971	3900	99	3	7	-16	321	316	99
2	10	4	721	764	99	2	14	3	1149	1149	99	2	20	-2	-320	153	99	3	3	-4	692	735	99	3	7	-15	-453	79	99
2	10	5	1670	1720	99	2	14	4	791	809	99	2	20	-1	-334	123	99	3	3	-3	5296	5487	99	3	7	-14	508	525	99
2	10	6	799	813	99	2	14	5	1059	960	99	2	20	0	255	107	99	3	3	-2	3691	3430	99	3	7	-13	516	482	99
2	10	7	986	1010	99	2	14	6	777	805	99	2	20	1	-300	70	99	3	3	-1	784	636	99	3	7	-12	1017	1035	99
2	10	8	315	83	99	2	14	7	530	592	99	2	20	2	-79	92	99	3	3	0	1137	1020	99	3	7	-11	-277	97	99
2	10	9	522	452	99	2	14	8	289	345	99	2	20	3	315	332	99	3	3	1	3087	3117	99	3	7	-10	711	678	99
2	10	10	402	459	99	2	14	9	-222	99	99	2	20	4	-229	86	99	3	3	2	678	764	99	3	7	-9	172	274	99
2	10	11	-390	398	99	2	14	10	312	28	99	2	20	5	184	392	99	3	3	3	5247	5460	99	3	7	-8	1263	1307	99
2	10	12	-482	283	99	2	14	11	256	181	99	3	1	-18	-110	54	99	3	3	4	1061	997	99	3	7	-7	669	655	99
2	10	13	307	499	99	2	16	-12	143	373	99	3	1	-17	132	99	99	3	3	5	2362	2354	99	3	7	-6	2229	2126	99
3	7	-5	1307	1302	99	3	11	-11	695	683	99	3	15	-10	-212	141	99	3	19	5	232	278	99	4	2	12	547	375	99
3	7	-4	2868	2835	99	3	11	-10	195	74	99	3	15	-9	165	64	99	3	19	6	155	12	99	4	2	13	-385	216	99
3	7	-3	913	948	99	3	11	-9	-151	146	99	3	15	-8	286	335	99	3	21	-4	-208	194	99	4	2	14	168	103	99
3	7	-2	1704	1746	99	3	11	-8	358	302	99	3	15	-7	-152	121	99	3	21	-3	164	251	99	4	2	15	-394	32	99
3	7	-1	855	779	99	3	11	-7	2129	2067	99	3	15	-6	872	823	99	3	21	-2	304	204	99	4	4	-18	-301	41	99
3	7	0	1305	1087	99	3	11	-6	240	411	99	3	15	-5	433	368	99	3	21	-1	-36	197	99	4	4	-17	554	666	99
3	7	1	1848	1850	99	3	11	-5	2085	2114	99	3	15	-4	793	810	99	3	21	0	-244	65	99	4	4	-16	-160	67	99
3	7	2	3476	3514	99	3	11	-4	469	488	99	3	15	-3	215	16	99	3	21	1	266	308	99	4	4	-15	826	855	99
3	7	3	1019	985	99	3	11	-3	1976	1992	99	3	15	-2	572	553	99	4	0	-18	228	266	99	4	4	-14	-323	14	99
3	7	4	2862	2944	99	3	11	-2	323	124	99	3	15	-1	223	212	99	4	0	-16	732	735	99	4	4	-13	800	823	99
3	7	5	1420	1441	99	3	11	-1	567	655	99	3	15	0	524	513	99	4	0	-14	363	316	99	4	4	-12	142	325	99
3	7	6	946	920	99	3	11	0	266	81	99	3	15	1	677	593	99	4	0	-12	970	920	99	4	4	-11	265	165	99
3	7	7	620	637	99	3	11	1	1506	1473	99	3	15	2	1263	1246	99	4	0	-10	567	544	99	4	4	-10	167	203	99
3	7	8	296	132	99	3	11	2	194	83	99	3	15	3	209	204	99	4	0	-8	2977	2956	99	4	4	-9	2737	2743	99
3	7	9	582	464	99	3	11	3	2339	2364	99	3	15	4	887	840	99	4	0	-6	3508	3538	99	4	4	-8	-354	29	99
3	7	10	540	625	99	3	11	4	201	167	99	3	15	5	396	318	99	4	0	-4	3666	3447	99	4	4	-7	4464	4502	99
3	7	11	238	172	99	3	11	5	940	952	99	3	15	6	444	451	99	4	0	-2	467	601	99	4	4	-6	195	279	99
3	7	12	680	711	99	3	11	6	237	206	99	3	15	7	330	120	99	4	0	0	1681	1836	99	4	4	-5	3857	3919	99
3	7	13	170	150	99	3	11	7	-76	327	99	3	15	8	193	21	99	4	0	2	6190	6537	99	4	4	-4	493	501	99
3	7	14	134	172	99	3	11	8	-235	491	99	3	15	9	-228	261	99	4	0	4	1641	1624	99	4	4	-3	2062	2107	99
3	9	-16	281	226	99	3	11	9	551	386	99	3	15	10	-200	268	99	4	0	6	1205	1197	99	4	4	-2	479	444	99
3	9	-15	111	172	99	3	11	10	334	184	99	3	17	-11	278	131	99	4	0	8	1043	1043	99	4	4	-1	1041	1069	99
3	9	-14	514	486	99	3	11	11	591	707	99	3	17	-10	230	99	99	4	0	10	1698	1646	99	4	4	0	615	615	99
3	9	-13	289	134	99	3	11	12	248	75	99	3	17	-9	319	80	99	4	0	12	548	612	99	4	4	1	4084	4064	99
3	9	-12	989	919	99	3	11	13	436	390	99	3	17	-8	292	51	99	4	0	14	-330	96	99	4	4	2	658	627	99
3	9	-11	480	537	99	3	13	-14	301	165	99	3	17	-7	344	389	99	4	2	-18	51	210	99	4	4	3	3692	3663	99
3	9	-10	355	394	99	3	13	-13	534	527	99	3	17	-6	568	514	99	4	2	-17	474	518	99	4	4	4	222	287	99
3	9	-9	467	470	99	3	13	-12	267	383	99	3	17	-5	551	320	99	4	2	-16	211	477	99	4	4	5	228	308	99
3	9	-8	475	463	99	3	13	-11	307	176	99	3	17	-4	560	559	99	4	2	-15	448	525	99	4	4	6	-143	30	99
3	9	-7	1299	1305	99	3	13	-10	-318	227	99	3	17	-3	-111	219	99	4	2	-14	484	446	99	4	4	7	243	265	99
3	9	-6	1722	1761	99	3	13	-9	-108	283	99	3	17	-2	210	238	99	4	2	-13	748	769	99	4	4	8	246	96	99
3	9	-5	678	646	99	3	13	-8	296	460	99	3	17	-1	-224	55	99	4	2	-12	475	538	99	4	4	9	1291	1279	99
3	9	-4	2017	2010	99	3	13	-7	1099	1102	99	3	17	0	-246	228	99	4	2	-11	-137	150	99	4	4	10	161	125	99
3	9	-3	705	681	99	3	13	-6	913	901	99	3	17	1	535	533	99	4	2	-10	809	813	99	4	4	11	1125	1066	99
3	9	-2	1026	1051	99	3	13	-5	1588	1601	99	3	17	2	362	256	99	4	2	-9	1754	1719	99	4	4	12	319	58	99
3	9	-1	-168	294	99	3	13	-4	683	700	99	3	17	3	678	635	99	4	2	-8	2117	2102	99	4	4	13	-144	158	99
3	9	0	751	758	99	3	13	-3	1133	1027	99	3	17	4	355	274	99	4	2	-7	3476	3450	99	4	4	14	52	14	99
3	9	1	1071	1064	99	3	13	-2	504	501	99	3	17	5	240	357	99	4	2	-6	2140	2151	99	4	6	-17	341	277	99
3	9	2	1596	1585	99	3	13	-1	261	187	99	3	17	6	133	243	99	4	2	-5	1922	1930	99	4	6	-16	264	496	99
3	9	3	2161	2236	99	3	13	0	374	390	99	3	17	7	165	265	99	4	2	-4	1947	1854	99	4	6	-15	591	495	99
3	9	4	1095	1097	99	3	13	1	1360	1274	99	3	17	8	273	189	99	4	2	-3	360	227	99	4	6	-14	347	436	99
3	9	5	890	960	99	3	13	2	695	714	99	3	19	-9	-168	19	99	4	2	-2	1638	1443	99	4	6	-13	-150	524	99
3	9	6	807	899	99	3	13	3	1559	1480	99	3	19	-8	349	120	99	4	2	-1	3291	3207	99	4	6	-12	307	495	99
3	9	7	426	342	99	3	13	4	463	453	99	3	19	-7	273	417	99	4	2	0	2510	2398	99	4	6	-11	290	195	99
3	9	8	422	424	99	3	13	5	1098	1120	99	3	19	-6	-236	68	99	4	2	1	4857	4675	99	4	6	-10	848	870	99
3	9	9	-163	325	99	3	13	6	150	145	99	3	19	-5	563	651	99	4	2	2	2930	2847	99	4	6	-9	989	975	99
3	9	10	735	714	99	3	13	7	296	277	99	3	19	-4	-506	120	99	4	2	3	4307	4414	99	4	6	-8	2079	2106	99
3	9	11	-34	509	99	3	13	8	196	15	99	3	19	-3	-327	492	99	4	2	4	-236	269	99	4	6	-7	2056	1996	99
3	9	12	-312	470	99	3	13	9	393	412	99	3	19	-2	-270	62	99	4	2	5	372	179	99	4	6	-6	2765	2687	99
3	9	13	-394	257	99	3	13	10	265	157	99	3	19	-1	169	129	99	4	2	6	775	765	99	4	6	-5	1521	1466	99
3	9	14	-315	104	99	3	13	11	66	378	99	3	19	0	259	106	99	4	2	7	221	112	99	4	6	-4	1295	1317	99
3	11	-15	500	433	99	3	13	12	317	346	99	3	19	1	246	353	99	4	2	8	846	795	99	4	6	-3	716	662	99
3	11	-14	229	312	99	3	15	-13	242	97	99	3	19	2	-354	102	99	4	2	9	990	969	99	4	6	-2	484	551	99
3	11	-13	648	625	99	3	15	-12	444	363	99	3	19	3	402	437	99	4	2	10	900	876	99	4	6	-1	2167	2128	99
3	11	-12	61	170	99	3	15	-11	395	102	99	3	19	4	-287	134	99	4	2	11	965	1016	99	4	6	0	1892	1852	99

h	k	l	Fo	Fc	sigF
4	6	1	3271	3294	99
4	6	2	3596	3621	99
4	6	3	2241	2228	99
4	6	4	549	575	99
4	6	5	690	650	99
4	6	6	802	781	99
4	6	7	347	282	99
4	6	8	486	397	99
4	6	9	705	739	99
4	6	10	1002	1016	99
4	6	11	522	571	99
4	6	12	313	474	99
4	6	13	242	198	99
4	6	14	-194	81	99
4	8	-17	191	118	99
4	8	-16	426	463	99
4	8	-15	141	19	99
4	8	-14	542	488	99
4	8	-13	345	47	99
4	8	-12	475	465	99
4	8	-11	507	415	99
4	8	-10	519	456	99
4	8	-9	-169	104	99
4	8	-8	1703	1670	99
4	8	-7	230	100	99
4	8	-6	1950	2071	99
4	8	-5	374	362	99
4	8	-4	401	395	99
4	8	-3	1245	1248	99
4	8	-2	1504	1535	99
4	8	-1	417	415	99
4	8	0	2950	2959	99
4	8	1	561	604	99
4	8	2	3279	3319	99
4	8	3	1216	1253	99
4	8	4	1127	1118	99
4	8	5	275	482	99
4	8	6	404	442	99
4	8	7	59	120	99
4	8	8	1069	1028	99
4	8	9	275	165	99
4	8	10	998	1129	99
4	8	11	155	313	99
4	8	12	69	439	99
4	8	13	311	108	99
4	10	-16	129	193	99
4	10	-15	-114	390	99
4	10	-14	-393	291	99
4	10	-13	237	391	99
4	10	-12	129	121	99
4	10	-11	-268	13	99
4	10	-10	165	350	99
4	10	-9	1036	961	99
4	10	-8	908	925	99
4	10	-7	2287	2301	99
4	10	-6	1093	1124	99
4	10	-5	1442	1421	99
4	10	-4	779	787	99
4	10	-3	105	196	99
4	10	-2	213	190	99
4	10	-1	969	914	99
4	10	0	1344	1308	99
4	10	1	2182	2155	99
4	10	2	485	436	99
4	10	3	2361	2424	99
4	10	4	-237	98	99
4	10	5	206	155	99
4	10	6	-134	335	99
4	10	7	-102	140	99
4	10	8	824	804	99
4	10	9	631	578	99
4	10	10	-160	288	99
4	10	11	600	654	99
4	10	12	-128	90	99
4	10	13	-264	175	99
4	12	-15	-321	506	99
4	12	-14	270	48	99
4	12	-13	262	389	99
4	12	-12	311	257	99
4	12	-11	251	127	99
4	12	-10	-266	96	99
4	12	-9	1030	1032	99
4	12	-8	488	407	99
4	12	-7	2333	2402	99
4	12	-6	805	803	99
4	12	-5	1193	1399	99
4	12	-4	463	423	99
4	12	-3	757	717	99
4	12	-2	-91	16	99
4	12	-1	823	854	99
4	12	0	413	411	99
4	12	1	1904	2000	99
4	12	2	718	694	99
4	12	3	1686	1770	99
4	12	4	322	295	99
4	12	5	390	312	99
4	12	6	234	47	99
4	12	7	299	345	99
4	12	8	-307	152	99
4	12	9	445	568	99
4	12	10	-242	94	99
4	12	11	451	532	99
4	12	12	-488	164	99
4	14	-14	-59	227	99
4	14	-13	-286	180	99
4	14	-12	178	83	99
4	14	-11	275	33	99
4	14	-10	177	227	99
4	14	-9	-87	287	99
4	14	-8	881	817	99
4	14	-7	765	673	99
4	14	-6	1106	1092	99
4	14	-5	578	595	99
4	14	-4	246	191	99
4	14	-3	278	85	99
4	14	-2	265	143	99
4	14	-1	941	934	99
4	14	0	886	850	99
4	14	1	1153	1152	99
4	14	2	1473	1459	99
4	14	3	572	517	99
4	14	4	257	370	99
4	14	5	482	417	99
4	14	6	-204	178	99
4	14	7	248	228	99
4	14	8	-226	241	99
4	14	9	223	336	99
4	14	10	251	408	99
4	14	11	208	120	99
4	16	-12	-201	77	99
4	16	-11	-230	40	99
4	16	-10	187	148	99
4	16	-9	271	27	99
4	16	-8	520	493	99
4	16	-7	218	210	99
4	16	-6	622	564	99
4	16	-5	-355	43	99
4	16	-4	-310	133	99
4	16	-3	-246	147	99
4	16	-2	236	537	99
4	16	-1	248	79	99
4	16	0	1204	1168	99
4	16	1	412	426	99
4	16	2	829	767	99
4	16	3	387	428	99
4	16	4	260	421	99
4	16	5	-467	101	99
4	16	6	248	113	99
4	16	7	-264	88	99
4	16	8	420	456	99
4	16	9	-160	13	99
4	18	-10	-297	115	99
4	18	-9	-369	250	99
4	18	-8	438	214	99
4	18	-7	626	631	99
4	18	-6	342	309	99
4	18	-5	200	414	99
4	18	-4	-276	254	99
4	18	-3	70	122	99
4	18	-2	244	155	99
4	18	-1	424	217	99
4	18	0	312	312	99
4	18	1	553	650	99
4	18	2	105	111	99
4	18	3	-111	507	99
4	18	4	98	54	99
4	18	5	-284	177	99
4	18	6	-200	130	99
4	18	7	255	74	99
4	20	-7	433	488	99
4	20	-6	232	341	99
4	20	-5	209	429	99
4	20	-4	-354	108	99
4	20	-3	202	199	99
4	20	-2	228	198	99
4	20	-1	208	354	99
4	20	0	-205	39	99
4	20	1	292	386	99
4	20	2	-349	192	99
4	20	3	225	324	99
4	20	4	-258	105	99
5	1	-18	501	455	99
5	1	-17	310	327	99
5	1	-16	697	659	99
5	1	-15	117	282	99
5	1	-14	42	143	99
5	1	-13	-376	248	99
5	1	-12	440	406	99
5	1	-11	350	369	99
5	1	-10	1934	1923	99
5	1	-9	769	792	99
5	1	-8	3387	3349	99
5	1	-7	971	1082	99
5	1	-6	2301	2316	99
5	1	-5	1026	949	99
5	1	-4	4043	4047	99
5	1	-3	979	1018	99
5	1	-2	3335	3349	99
5	1	-1	3223	2825	99
5	1	0	4415	4548	99
5	1	1	2196	2290	99
5	1	2	4281	4201	99
5	1	3	1482	1427	99
5	1	4	1611	1495	99
5	1	5	986	992	99
5	1	6	1997	1926	99
5	1	7	582	541	99
5	1	8	1764	1728	99
5	1	9	790	792	99
5	1	10	1052	1093	99
5	1	11	-320	293	99
5	1	12	-362	185	99
5	1	13	333	36	99
5	1	14	227	282	99
5	3	-18	-375	148	99
5	3	-17	612	673	99
5	3	-16	-222	248	99
5	3	-15	724	716	99
5	3	-14	279	201	99
5	3	-13	193	16	99
5	3	-12	832	794	99
5	3	-11	1426	1403	99
5	3	-10	893	888	99
5	3	-9	2955	2987	99
5	3	-8	1361	1315	99
5	3	-7	5045	5051	99
5	3	-6	1137	1198	99
5	3	-5	1404	1336	99
5	3	-4	962	953	99
5	3	-3	2839	2737	99
5	3	-2	1227	1276	99
5	3	-1	1875	1939	99
5	3	0	2387	2202	99
5	3	1	4624	4733	99
5	3	2	874	927	99
5	3	3	2122	2001	99
5	3	4	-128	73	99
5	3	5	1162	1180	99
5	3	6	1036	1033	99
5	3	7	808	872	99
5	3	8	260	322	99
5	3	9	1197	1262	99
5	3	10	318	280	99
5	3	11	393	451	99
5	3	12	-549	95	99
5	3	13	184	77	99
5	3	14	-294	221	99
5	5	-18	-74	216	99
5	5	-17	260	618	99
5	5	-16	251	197	99
5	5	-15	603	613	99
5	5	-14	247	39	99
5	5	-13	-79	93	99
5	5	-12	572	594	99
5	5	-11	1055	983	99
5	5	-10	1206	1162	99
5	5	-9	2598	2622	99
5	5	-8	1182	1191	99
5	5	-7	3339	3456	99
5	5	-6	2476	2327	99
5	5	-5	1110	1078	99
5	5	-4	122	287	99
5	5	-3	1239	1210	99
5	5	-2	889	861	99
5	5	-1	2002	3060	99
5	5	0	1828	1881	99
5	5	1	4394	4365	99
5	5	2	2196	2169	99
5	5	3	1542	1510	99
5	5	4	-230	89	99
5	5	5	877	812	99
5	5	6	367	368	99
5	5	7	854	787	99
5	5	8	465	390	99
5	5	9	1001	989	99
5	5	10	354	370	99
5	5	11	502	437	99
5	5	12	-415	31	99
5	5	13	-40	137	99
5	5	14	211	128	99
5	7	-17	162	172	99
5	7	-16	194	525	99
5	7	-15	-124	347	99
5	7	-14	314	247	99
5	7	-13	266	83	99
5	7	-12	426	385	99
5	7	-11	-204	178	99
5	7	-10	1544	1507	99
5	7	-9	620	515	99
5	7	-8	2243	2257	99
5	7	-7	242	292	99
5	7	-6	1188	1209	99
5	7	-5	195	48	99
5	7	-4	2474	2439	99
5	7	-3	-133	159	99
5	7	-2	2177	2221	99
5	7	-1	1964	2018	99
5	7	0	3977	3982	99
5	7	1	420	446	99
5	7	2	2435	2384	99
5	7	3	208	179	99
5	7	4	1096	1001	99
5	7	5	353	305	99
5	7	6	1414	1391	99
5	7	7	733	686	99
5	7	8	1345	1395	99
5	7	9	313	338	99
5	7	10	976	1083	99
5	7	11	221	106	99
5	7	12	237	170	99
5	7	13	151	73	99
5	9	-17	481	285	99
5	9	-16	-213	377	99
5	9	-15	-92	234	99
5	9	-14	-350	105	99
5	9	-13	-108	146	99
5	9	-12	405	398	99
5	9	-11	-439	117	99
5	9	-10	1208	1206	99
5	9	-9	488	481	99
5	9	-8	1792	1791	99
5	9	-7	1071	1149	99
5	9	-6	911	930	99
5	9	-5	159	68	99
5	9	-4	1322	1230	99
5	9	-3	756	775	99
5	9	-2	2409	2394	99
5	9	-1	694	667	99
5	9	0	2317	2398	99
5	9	1	1987	2026	99
5	9	2	1600	1596	99
5	9	3	1015	1010	99
5	9	4	76	133	99
5	9	5	509	602	99
5	9	6	1319	1381	99
5	9	7	480	444	99
5	9	8	1061	1049	99
5	9	9	307	554	99
5	9	10	-400	480	99
5	9	11	367	354	99
5	9	12	88	45	99
5	9	13	-458	132	99
5	11	-16	-200	107	99
5	11	-15	-263	419	99
5	11	-14	157	77	99
5	11	-13	274	107	99
5	11	-12	376	302	99
5	11	-11	696	718	99
5	11	-10	293	378	99
5	11	-9	1656	1665	99
5	11	-8	368	335	99
5	11	-7	2626	2555	99
5	11	-6	154	41	99
5	11	-5	372	445	99
5	11	-4	236	235	99
5	11	-3	800	754	99
5	11	-2	875	876	99
5	11	-1	1517	1476	99
5	11	0	754	733	99
5	11	1	2040	2055	99
5	11	2	275	454	99
5	11	3	1178	1218	99
5	11	4	118	163	99
5	11	5	550	484	99
5	11	6	161	390	99
5	11	7	518	478	99
5	11	8	278	293	99
5	11	9	466	562	99
5	11	10	173	71	99
5	11	11	-468	295	99
5	11	12	308	110	99
5	13	-15	-265	318	99
5	13	-14	-390	32	99
5	13	-13	-238	3	99
5	13	-12	271	161	99
5	13	-11	313	358	99
5	13	-10	536	512	99
5	13	-9	885	910	99
5	13	-8	947	974	99
5	13	-7	1129	1012	99
5	13	-6	992	1011	99
5	13	-5	535	509	99
5	13	-4	86	135	99
5	13	-3	543	484	99
5	13	-2	86	123	99
5	13	-1	1729	1689	99
5	13	0	722	771	99
5	13	1	972	965	99
5	13	2	1137	1126	99
5	13	3	614	643	99
5	13	4	-301	43	99
5	13	5	233	208	99
5	13	6	174	119	99
5	13	7	571	573	99
5	13	8	225	192	99
5	13	9	353	358	99
5	13	10	214	228	99
5	13	11	-443	162	99
5	15	-13	338	57	99
5	15	-12	-110	168	99
5	15	-11	186	19	99
5	15	-10	432	430	99
5	15	-9	348	139	99
5	15	-8	737	697	99
5	15	-7	-373	17	99
5	15	-6	296	354	99
5	15	-5	-276	214	99
5	15	-4	512	520	99
5	15	-3	-234	122	99
5	15	-2	1267	1231	99
5	15	-1	213	240	99
5	15	0	1378	1339	99
5	15	1	-130	49	99
5	15	2	607	612	99
5	15	3	306	63	99
5	15	4	-239	15	99
5	15	5	-404	72	99
5	15	6	528	560	99
5	15	7	-370	253	99
5	15	8	493	555	99
5	15	9	196	10	99
5	17	-12	292	195	99
5	17	-11	276	45	99
5	17	-10	404	436	99
5	17	-9	169	226	99
5	17	-8	528	409	99
5	17	-7	336	384	99
5	17	-6	-165	174	99
5	17	-5	255	35	99
5	17	-4	-198	104	99
5	17	-3	416	247	99
5	17	-2	757	743	99
5	17	-1	452	379	99
5	17	0	623	688	99
5	17	1	521	589	99
5	17	2	148	169	99
5	17	3	224	276	99
5	17	4	34	15	99
5	17	5	241	156	99
5	17	6	489	476	99
5	17	7	154	203	99
5	19	-9	523	509	99
5	19	-8	-228	100	99
5	19	-7	594	545	99
5	19	-6	-265	81	99
5	19	-5	-385	271	99
5	19	-4	-164	18	99
5	19	-3	259	113	99
5	19	-2	-456	302	99
5	19	-1	581	524	99
5	19	0	290	93	99
5	19	1	386	457	99
5	19	2	-300	220	99
5	19	3	337	292	99
5	19	4	-424	80	99
5	19	5	-196	26	99
5	21	-4	-98	18	99
5	21	-3	-285	97	99
5	21	-2	279	47	99
5	21	-1	277	434	99
5	21	0	-303	229	99
6	0	-18	456	504	99
6	0	-16	519	567	99
6	0	-14	334	416	99
6	0	-12	1392	1359	99
6	0	-10	2503	2410	99
6	0	-8	2618	2608	99
6	0	-6	1192	1137	99
6	0	-4	6208	6430	99
6	0	-2	2617	2713	99
6	0	0	5231	5483	99
6	0	2	712	681	99
6	0	4	3044	3162	99
6	0	6	2927	2921	99
6	0	8	1842	1824	99
6	0	10	571	471	99
6	0	12	-45	56	99
6	0	14	262	397	99
6	2	-19	-159	341	99
6	2	-18	-165	320	99
6	2	-17	398	452	99
6	2	-16	287	195	99
6	2	-15	366	328	99
6	2	-14	802	807	99
6	2	-13	648	581	99
6	2	-12	1518	1469	99
6	2	-11	1200	1218	99
6	2	-10	1888	1877	99
6	2	-9	1677	1664	99
6	2	-8	2207	2192	99
6	2	-7	1249	1324	99
6	2	-6	158	88	99
6	2	-5	2169	2034	99
6	2	-4	4157	4224	99
6	2	-3	1263	1349	99
6	2	-2	3185	3118	99
6	2	-1	2275	2317	99
6	2	0	2727	2757	99
6	2	1	1753	1725	99
6	2	2	963	874	99
6	2	3	1283	1282	99
6	2	4	1137	1083	99
6	2	5	1594	1609	99
6	2	6	1661	1646	99
6	2	7	1267	1257	99
6	2	8	828	807	99
6	2	9	714	565	99
6	2	10	253	212	99
6	2	11	-321	16	99
6	2	12	363	157	99
6	2	13	84	177	99
6	2	14	403	356	99
6	4	-18	-251	20	99
6	4	-17	204	474	99
6	4	-16	330	14	99
6	4	-15	-376	138	99
6	4	-14	-332	43	99
6	4	-13	1062	1038	99
6	4	-12	-328	83	99
6	4	-11	1695	1648	99
6	4	-10	511	569	99
6	4	-9	2943	3014	99
6	4	-8	227	369	99
6	4	-7	2512	2553	99
6	4	-6	365	225	99
6	4	-5	2396	2340	99
6	4	-4	414	437	99
6	4	-3	2605	2769	99
6	4	-2	1139	1166	99
6	4	-1	3875	4039	99
6	4	0	1091	1079	99
6	4	1	2963	2956	99
6	4	2	288	308	99
6	4	3	245	437	99
6	4	4	148	23	99
6	4	5	1520	1522	99
6	4	6	267	77	99
6	4	7	987	982	99
6	4	8	147	97	99
6	4	9	486	496	99
6	4	10	231	41	99
6	4	11	-204	156	99
6	4	12	-369	73	99
6	4	13	283	315	99
6	6	-18	-299	331	99
6	6	-17	302	395	99
6	6	-16	-236	141	99
6	6	-15	334	337	99
6	6	-14	555	473	99
6	6	-13	215	246	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
6	6	-12	1269	1211	99	6	8	12	301	127	99	6	12	8	104	66	99	6	18	-6	391	142	99	7	1	13	276	177	99
6	6	-11	948	999	99	6	10	-17	259	326	99	6	12	9	-549	193	99	6	18	-5	292	107	99	7	3	-19	-294	328	99
6	6	-10	1362	1336	99	6	10	-16	298	104	99	6	12	10	344	39	99	6	18	-4	32	315	99	7	3	-18	238	61	99
6	6	-9	1362	1346	99	6	10	-15	254	137	99	6	12	11	226	146	99	6	18	-3	340	442	99	7	3	-17	-199	180	99
6	6	-8	1800	1844	99	6	10	-14	266	376	99	6	14	-14	89	234	99	6	18	-2	778	715	99	7	3	-16	297	236	99
6	6	-7	529	472	99	6	10	-13	262	467	99	6	14	-13	-304	38	99	6	18	-1	626	619	99	7	3	-15	583	603	99
6	6	-6	658	546	99	6	10	-12	725	786	99	6	14	-12	292	341	99	6	18	0	298	228	99	7	3	-14	495	513	99
6	6	-5	323	266	99	6	10	-11	579	563	99	6	14	-11	386	299	99	6	18	1	250	350	99	7	3	-13	1530	1456	99
6	6	-4	3172	3184	99	6	10	-10	1476	1510	99	6	14	-10	648	688	99	6	18	2	-234	121	99	7	3	-12	600	551	99
6	6	-3	1971	1940	99	6	10	-9	1247	1293	99	6	14	-9	363	265	99	6	18	3	-332	90	99	7	3	-11	1137	1089	99
6	6	-2	2795	2905	99	6	10	-8	354	353	99	6	14	-8	713	737	99	6	18	4	315	93	99	7	3	-10	622	646	99
6	6	-1	1404	1361	99	6	10	-7	1052	1009	99	6	14	-7	172	41	99	6	18	5	135	259	99	7	3	-9	1732	1751	99
6	6	0	2997	2946	99	6	10	-6	169	271	99	6	14	-6	-133	185	99	6	18	6	193	186	99	7	3	-8	405	389	99
6	6	1	329	310	99	6	10	-5	1431	1412	99	6	14	-5	402	75	99	6	20	-7	221	63	99	7	3	-7	1489	1486	99
6	6	2	129	85	99	6	10	-4	1200	1281	99	6	14	-4	1062	1080	99	6	20	-6	-292	16	99	7	3	-6	1498	1708	99
6	6	3	642	555	99	6	10	-3	1311	1293	99	6	14	-3	750	808	99	6	20	-5	-387	42	99	7	3	-5	4811	4805	99
6	6	4	1219	1125	99	6	10	-2	2173	2213	99	6	14	-2	1171	1146	99	6	20	-4	131	27	99	7	3	-4	3058	2933	99
6	6	5	1300	1251	99	6	10	-1	1523	1501	99	6	14	-1	-353	258	99	6	20	-3	299	388	99	7	3	-3	2414	2415	99
6	6	6	1106	1142	99	6	10	0	1265	1241	99	6	14	0	1257	1184	99	6	20	-2	249	30	99	7	3	-2	1289	1333	99
6	6	7	988	964	99	6	10	1	1283	1221	99	6	14	1	115	224	99	6	20	-1	298	447	99	7	3	-1	3102	3059	99
6	6	8	1116	1070	99	6	10	2	234	240	99	6	14	2	272	183	99	6	20	0	123	207	99	7	3	0	-110	43	99
6	6	9	-127	438	99	6	10	3	197	359	99	6	14	3	-199	247	99	6	20	1	-278	47	99	7	3	1	158	128	99
6	6	10	322	239	99	6	10	4	424	494	99	6	14	4	530	530	99	6	20	2	-430	214	99	7	3	2	-157	286	99
6	6	11	239	26	99	6	10	5	1094	1120	99	6	14	5	471	482	99	7	1	-19	-368	193	99	7	3	3	2096	2003	99
6	6	12	231	148	99	6	10	6	846	798	99	6	14	6	645	556	99	7	1	-18	99	349	99	7	3	4	646	599	99
6	6	13	281	211	99	6	10	7	523	682	99	6	14	7	406	355	99	7	1	-17	-480	170	99	7	3	5	1876	1888	99
6	8	-17	-234	61	99	6	10	8	479	377	99	6	14	8	208	476	99	7	1	-16	232	90	99	7	3	6	569	555	99
6	8	-16	273	338	99	6	10	9	-203	392	99	6	14	9	-297	78	99	7	1	-15	98	52	99	7	3	7	702	703	99
6	8	-15	315	22	99	6	10	10	-129	93	99	6	16	-13	315	52	99	7	1	-14	1568	1572	99	7	3	8	-450	66	99
6	8	-14	373	343	99	6	10	11	276	33	99	6	16	-12	320	389	99	7	1	-13	444	524	99	7	3	9	317	220	99
6	8	-13	217	84	99	6	10	12	287	197	99	6	16	-11	297	45	99	7	1	-12	1889	1852	99	7	3	10	-539	112	99
6	8	-12	1047	1023	99	6	12	-16	-250	27	99	6	16	-10	680	636	99	7	1	-11	493	499	99	7	3	11	243	369	99
6	8	-11	-317	62	99	6	12	-15	-94	15	99	6	16	-9	232	193	99	7	1	-10	2062	2038	99	7	3	12	-621	115	99
6	8	-10	1759	1684	99	6	12	-14	280	98	99	6	16	-8	321	254	99	7	1	-9	971	920	99	7	3	13	-129	416	99
6	8	-9	239	447	99	6	12	-13	536	483	99	6	16	-7	-405	119	99	7	1	-8	585	570	99	7	5	-19	-227	269	99
6	8	-8	1361	1395	99	6	12	-12	230	94	99	6	16	-6	-72	220	99	7	1	-7	399	173	99	7	5	-18	-312	102	99
6	8	-7	518	482	99	6	12	-11	862	893	99	6	16	-5	267	372	99	7	1	-6	3621	3533	99	7	5	-17	157	146	99
6	8	-6	751	716	99	6	12	-10	-74	388	99	6	16	-4	790	758	99	7	1	-5	1092	997	99	7	5	-16	199	216	99
6	8	-5	544	605	99	6	12	-9	1353	1325	99	6	16	-3	157	87	99	7	1	-4	5090	5173	99	7	5	-15	-235	387	99
6	8	-4	3059	3019	99	6	12	-8	521	488	99	6	16	-2	1184	1222	99	7	1	-3	521	521	99	7	5	-14	554	667	99
6	8	-3	180	103	99	6	12	-7	585	615	99	6	16	-1	-98	148	99	7	1	-2	3499	3512	99	7	5	-13	1194	1181	99
6	8	-2	2710	2866	99	6	12	-6	69	57	99	6	16	0	674	570	99	7	1	-1	98	138	99	7	5	-12	500	548	99
6	8	-1	-323	70	99	6	12	-5	460	518	99	6	16	1	300	335	99	7	1	0	2308	2252	99	7	5	-11	1437	1355	99
6	8	0	2584	2560	99	6	12	-4	-213	206	99	6	16	2	-495	160	99	7	1	1	2255	2182	99	7	5	-10	1221	1147	99
6	8	1	788	728	99	6	12	-3	1372	1366	99	6	16	3	-292	25	99	7	1	2	2142	2099	99	7	5	-9	1185	1227	99
6	8	2	-420	58	99	6	12	-2	-347	374	99	6	16	4	552	553	99	7	1	3	975	926	99	7	5	-8	937	897	99
6	8	3	220	224	99	6	12	-1	1739	1747	99	6	16	5	-174	223	99	7	1	4	2628	2645	99	7	5	-7	1702	1582	99
6	8	4	1875	1980	99	6	12	0	806	773	99	6	16	6	652	731	99	7	1	5	1328	1362	99	7	5	-6	2505	2494	99
6	8	5	156	54	99	6	12	1	682	625	99	6	16	7	215	171	99	7	1	6	2312	2272	99	7	5	-5	2369	2489	99
6	8	6	1997	2026	99	6	12	2	552	502	99	6	16	8	245	186	99	7	1	7	588	470	99	7	5	-4	2561	2411	99
6	8	7	409	389	99	6	12	3	379	87	99	6	18	-11	259	276	99	7	1	8	279	467	99	7	5	-3	3034	3051	99
6	8	8	1148	1131	99	6	12	4	57	32	99	6	18	-10	394	391	99	7	1	9	-319	50	99	7	5	-2	2126	2081	99
6	8	9	-139	201	99	6	12	5	746	782	99	6	18	-9	520	501	99	7	1	10	203	113	99	7	5	-1	1321	1314	99
6	8	10	-193	367	99	6	12	6	-132	55	99	6	18	-8	-217	95	99	7	1	11	300	100	99	7	5	0	1659	1601	99
6	8	11	-263	99	99	6	12	7	599	472	99	6	18	-7	142	188	99	7	1	12	109	285	99	7	5	1	812	689	99
7	5	2	470	431	99	7	9	-5	1351	1325	99	7	13	-6	849	870	99	7	17	3	447	407	99	8	2	3	2076	2100	99
7	5	3	2123	2160	99	7	9	-4	2788	2781	99	7	13	-5	744	791	99	7	17	4	78	412	99	8	2	4	1615	1585	99
7	5	4	756	724	99	7	9	-3	670	630	99	7	13	-4	1358	1417	99	7	17	5	218	337	99	8	2	5	1580	1599	99
7	5	5	1662	1666	99	7	9	-2	2249	2311	99	7	13	-3	1303	1299	99	7	17	6	-144	252	99	8	2	6	869	938	99
7	5	6	811	783	99	7	9	-1	821	876	99	7	13	-2	1037	1037	99	7	19	-9	327	98	99	8	2	7	286	389	99
7	5	7	631	725	99	7	9	0	809	846	99	7	13	-1	303	106	99	7	19	-8	-477	200	99	8	2	8	393	318	99
7	5	8	99	248	99	7	9	1	249	189	99	7	13	0	967	980	99	7	19	-7	283	213	99	8	2	9	464	478	99
7	5	9	144	224	99	7	9	2	1204	1115	99	7	13	1	587	583	99	7	19	-6	-313	44	99	8	2	10	156	238	99
7	5	10	-37	37	99	7	9	3	1129	1062	99	7	13	2	-239	50	99	7	19	-5	164	387	99	8	2	11	322	416	99
7	5	11	339	395	99	7	9	4	1825	1783	99	7	13	3	879	829	99	7	19	-4	202	158	99	8	2	12	218	215	99
7	5	12	-358	133	99	7	9	5	1027	1086	99	7	13	4	281	421	99	7	19	-3	487	599	99	8	4	-19	255	113	99
7	5	13	314	341	99	7	9	6	979	994	99	7	13	5	688	736	99	7	19	-2	252	203	99	8	4	-18	-134	24	99
7	7	-18	160	322	99	7	9	7	483	516	99	7	13	6	349	381	99	7	19	-1	-73	360	99	8	4	-17	262	257	99
7	7	-17	311	40	99	7	9	8	471	399	99	7	13	7	224	217	99	7	19	0	-219	45	99	8	4	-16	252	53	99
7	7	-16	-135	93	99	7	9	9	193	95	99	7	13	8	220	187	99	7	19	1	265	37	99	8	4	-15	1081	1096	99
7	7	-15	289	58	99	7	9	10	-116	63	99	7	13	9	-195	80	99	7	19	2	-233	159	99	8	4	-14	234	123	99
7	7	-14	1093	1117	99	7	9	11	-242	20	99	7	13	10	150	37	99	7	19	3	277	296	99	8	4	-13	1154	1156	99
7	7	-13	-96	115	99	7	11	-17	-168	152	99	7	15	-14	373	383	99	8	0	-18	-410	195	99	8	4	-12	476	257	99
7	7	-12	1359	1248	99	7	11	-16	-410	99	99	7	15	-13	-217	44	99	8	0	-16	886	813	99	8	4	-11	522	488	99
7	7	-11	651	566	99	7	11	-15	393	418	99	7	15	-12	514	490	99	8	0	-14	2338	2417	99	8	4	-10	235	292	99
7	7	-10	1563	1610	99	7	11	-14	56	117	99	7	15	-11	257	150	99	8	0	-12	1577	1531	99	8	4	-9	660	649	99
7	7	-9	68	222	99	7	11	-13	783	800	99	7	15	-10	681	707	99	8	0	-10	1471	1453	99	8	4	-8	611	634	99
7	7	-8	479	489	99	7	11	-12	427	490	99	7	15	-9	397	268	99	8	0	-8	1164	1115	99	8	4	-7	4709	4834	99
7	7	-7	356	319	99	7	11	-11	637	665	99	7	15	-8	-104	92	99	8	0	-6	4141	4351	99	8	4	-6	393	393	99
7	7	-6	2675	2656	99	7	11	-10	-210	152	99	7	15	-7	275	77	99	8	0	-4	4379	4350	99	8	4	-5	4945	4116	99
7	7	-5	260	136	99	7	11	-9	874	797	99	7	15	-6	793	727	99	8	0	-2	479	430	99	8	4	-4	169	62	99
7	7	-4	3169	3252	99	7	11	-8	605	538	99	7	15	-5	-381	90	99	8	0	0	1688	1658	99	8	4	-3	2082	2182	99
7	7	-3	423	459	99	7	11	-7	578	585	99	7	15	-4	1129	1106	99	8	0	2	2552	2555	99	8	4	-2	858	823	99
7	7	-2	2318	2293	99	7	11	-6	-189	148	99	7	15	-3	317	158	99	8	0	4	2726	2766	99	8	4	-1	601	539	99
7	7	-1	373	402	99	7	11	-5	2161	2170	99	7	15	-2	807	835	99	8	0	6	1084	1026	99	8	4	0	-304	123	99
7	7	0	1624	1700	99	7	11	-4	1325	1374	99	7	15	-1	204	334	99	8	0	8	499	526	99	8	4	1	2474	2447	99
7	7	1	1091	1110	99	7	11	-3	1569	1618	99	7	15	0	255	339	99	8	0	10	466	414	99	8	4	2	215	219	99
7	7	2	1608	1595	99	7	11	-2	984	996	99	7	15	1	453	354	99	8	0	12	331	508	99	8	4	3	2620	2652	99
7	7	3	926	908	99	7	11	-1	1335	1372	99	7	15	2	597	603	99	8	2	-19	220	199	99	8	4	4	184	227	99
7	7	4	2038	2047	99	7	11	0	113	217	99	7	15	3	378	351	99	8	2	-18	244	30	99	8	4	5	1617	1616	99
7	7	5	573	487	99	7	11	1	282	152	99	7	15	4	979	952	99	8	2	-17	343	189	99	8	4	6	-284	145	99
7	7	6	1789	1781	99	7	11	2	305	124	99	7	15	5	120	21	99	8	2	-16	669	621	99	8	4	7	275	154	99
7	7	7	187	99	99	7	11	3	965	1017	99	7	15	6	468	652	99	8	2	-15	984	931	99	8	4	8	334	25	99
7	7	8	489	526	99	7	11	4	-273	162	99	7	15	7	137	44	99	8	2	-14	1067	1005	99	8	4	9	555	590	99
7	7	9	-458	69	99	7	11	5	1126	1087	99	7	15	8	214	312	99	8	2	-13	1928	1003	99	8	4	10	311	144	99
7	7	10	-659	91	99	7	11	6	-401	116	99	7	17	-12	437	511	99	8	2	-12	873	833	99	8	4	11	541	530	99
7	7	11	268	244	99	7	11	7	322	348	99	7	17	-11	-258	268	99	8	2	-11	244	399	99	8	4	12	83	80	99
7	7	12	-267	318	99	7	11	8	157	58	99	7	17	-10	311	364	99	8	2	-10	553	519	99	8	6	-19	-246	89	99
7	9	-17	-451	193	99	7	11	9	-467	10	99	7	17	-9	357	435	99	8	2	-9	636	545	99	8	6	-18	-299	81	99
7	9	-16	382	129	99	7	11	10	257	148	99	7	17	-8	-250	213	99	8	2	-8	1855	1880	99	8	6	-17	123	233	99
7	9	-15	-360	212	99	7	11	11	283	287	99	7	17	-7	-351	91	99	8	2	-7	2317	2459	99	8	6	-16	400	589	99
7	9	-14	805	808	99	7	13	-15	168	115	99	7	17	-6	566	405	99	8	2	-6	3501	3536	99	8	6	-15	668	549	99
7	9	-13	539	471	99	7	13	-14	579	426	99	7	17	-5	496	387	99	8	2	-5	2247	2106	99	8	6	-14	1057	1047	99
7	9	-12	1317	1283	99	7	13	-13	116	353	99	7	17	-4	815	862	99	8	2	-4	3740	3726	99	8	6	-13	749	729	99
7	9	-11	368	341	99	7	13	-12	-384	250	99	7	17	-3	275	326	99	8	2	-3	987	1030	99	8	6	-12	555	647	99
7	9	-10	1493	1517	99	7	13	-11	598	634	99	7	17	-2	794	844	99	8	2	-2	1989	2068	99	8	6	-11	508	480	99
7	9	-9	1329	1357	99	7	13	-10	238	611	99	7	17	-1	-200	327	99	8	2	-1	697	576	99	8	6	-10	1004	944	99
7	9	-8	351	238	99	7	13	-9	334	219	99	7	17	0	307	162	99	8	2	0	514	452	99	8	6	-9	675	700	99
7	9	-7	-26	301	99	7	13	-8	-29	250	99	7	17	1	273	163	99	8	2	1	2036	2080	99	8	6	-8	337	346	99
7	9	-6	1651	1633	99	7	13	-7	149	412	99	7	17	2	409	312	99	8	2	2	1666	1660	99	8	6	-7	1669	1682	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
8	6	-6	1425	3376	99	8	10	-11	-322	281	99	8	14	-8	-256	368	99	8	20	-6	135	200	99	9	3	-4	733	651	99
8	6	-5	1865	1864	99	8	10	-10	-142	127	99	8	14	-7	394	195	99	8	20	-5	306	394	99	9	3	-3	-272	43	99
8	6	-4	2552	2581	99	8	10	-9	-195	344	99	8	14	-6	1271	1289	99	8	20	-4	250	250	99	9	3	-2	120	87	99
8	6	-3	688	680	99	8	10	-8	1263	1271	99	8	14	-5	201	332	99	8	20	-3	-271	219	99	9	3	-1	3627	3631	99
8	6	-2	1134	1153	99	8	10	-7	1422	1363	99	8	14	-4	1155	1151	99	8	20	-2	326	120	99	9	3	0	625	631	99
8	6	-1	1449	1486	99	8	10	-6	1302	1340	99	8	14	-3	160	48	99	8	20	-1	-315	99	99	9	3	1	3016	3061	99
8	6	0	310	126	99	8	10	-5	1698	1683	99	8	14	-2	-445	146	99	8	20	0	-351	145	99	9	3	2	613	544	99
8	6	1	2132	2068	99	8	10	-4	1974	1958	99	8	14	-1	702	716	99	9	1	-20	205	32	99	9	3	3	2667	2620	99
8	6	2	1155	1143	99	8	10	-3	884	874	99	8	14	0	-332	159	99	9	1	-19	249	14	99	9	3	4	695	705	99
8	6	3	1862	1860	99	8	10	-2	812	800	99	8	14	1	780	823	99	9	1	-18	225	203	99	9	3	5	859	840	99
8	6	4	1651	1718	99	8	10	-1	138	260	99	8	14	2	665	653	99	9	1	-17	348	456	99	9	3	6	318	141	99
8	6	5	796	755	99	8	10	0	255	179	99	8	14	3	797	718	99	9	1	-16	1285	1243	99	9	3	7	882	867	99
8	6	6	866	850	99	8	10	1	855	852	99	8	14	4	759	843	99	9	1	-15	768	741	99	9	3	8	271	184	99
8	6	7	-209	239	99	8	10	2	1078	1075	99	8	14	5	196	39	99	9	1	-14	1375	1349	99	9	3	9	643	576	99
8	6	8	-411	304	99	8	10	3	1258	1304	99	8	14	6	178	298	99	9	1	-13	466	409	99	9	3	10	-140	100	99
8	6	9	-67	580	99	8	10	4	582	596	99	8	14	7	-154	74	99	9	1	-12	336	361	99	9	3	11	531	510	99
8	6	10	274	100	99	8	10	5	802	903	99	8	14	8	265	18	99	9	1	-11	167	221	99	9	3	12	-199	28	99
8	6	11	377	442	99	8	10	6	343	244	99	8	16	-13	71	79	99	9	1	-10	508	483	99	9	5	-19	249	101	99
8	6	12	301	294	99	8	10	7	160	94	99	8	16	-12	521	560	99	9	1	-9	643	600	99	9	5	-18	-143	40	99
8	-18	-219	112	99	8	10	8	-359	45	99	8	16	-11	-362	200	99	9	1	-8	2500	2542	99	9	5	-17	454	639	99
8	-17	161	125	99	8	10	9	-243	207	99	8	16	-10	350	167	99	9	1	-7	1944	1876	99	9	5	-16	253	423	99
8	-16	462	575	99	8	10	10	-223	251	99	8	16	-9	405	377	99	9	1	-6	3024	3098	99	9	5	-15	970	896	99
8	-15	176	346	99	8	12	-16	163	122	99	8	16	-8	325	309	99	9	1	-5	1135	935	99	9	5	-14	156	318	99
8	-14	1312	1316	99	8	12	-15	249	429	99	8	16	-7	274	18	99	9	1	-4	3028	2772	99	9	5	-13	253	435	99
8	-13	-62	36	99	8	12	-14	-135	199	99	8	16	-6	765	695	99	9	1	-3	162	183	99	9	5	-12	220	56	99
8	-12	1295	1289	99	8	12	-13	625	550	99	8	16	-5	292	192	99	9	1	-2	1874	1803	99	9	5	-11	844	788	99
8	-11	257	53	99	8	12	-12	406	230	99	8	16	-4	794	806	99	9	1	-1	1431	1372	99	9	5	-10	715	697	99
8	-10	831	832	99	8	12	-11	269	114	99	8	16	-3	-234	125	99	9	1	0	2201	2146	99	9	5	-9	2344	2375	99
8	-9	719	699	99	8	12	-10	277	199	99	8	16	-2	125	284	99	9	1	1	730	616	99	9	5	-8	2153	2157	99
8	-8	930	921	99	8	12	-9	605	503	99	8	16	-1	321	219	99	9	1	2	2023	2063	99	9	5	-7	3761	3741	99
8	-7	93	96	99	8	12	-8	-24	186	99	8	16	0	322	232	99	9	1	3	878	868	99	9	5	-6	1630	1651	99
8	-6	2479	2421	99	8	12	-7	1501	1532	99	8	16	1	-56	164	99	9	1	4	1336	1366	99	9	5	-5	1669	1748	99
8	-5	655	699	99	8	12	-6	-181	409	99	8	16	2	631	692	99	9	1	5	304	192	99	9	5	-4	1697	1599	99
8	-4	2505	2515	99	8	12	-5	2091	2029	99	8	16	3	117	250	99	9	1	6	401	340	99	9	5	-3	191	236	99
8	-3	287	251	99	8	12	-4	553	572	99	8	16	4	224	478	99	9	1	7	617	621	99	9	5	-2	751	708	99
8	-2	637	710	99	8	12	-3	899	847	99	8	16	5	158	280	99	9	1	8	774	759	99	9	5	-1	2720	2668	99
8	-1	-182	53	99	8	12	-2	541	531	99	8	16	6	256	161	99	9	1	9	309	344	99	9	5	0	817	727	99
8	0	798	708	99	8	12	-1	133	373	99	8	16	7	256	35	99	9	1	10	-256	421	99	9	5	1	2581	2564	99
8	1	229	286	99	8	12	0	38	266	99	8	18	-11	284	144	99	9	1	11	299	339	99	9	5	2	761	709	99
8	2	2021	1994	99	8	12	1	968	897	99	8	18	-10	128	136	99	9	1	12	-202	292	99	9	5	3	2351	2287	99
8	3	-239	121	99	8	12	2	-422	58	99	8	18	-9	211	44	99	9	3	-19	287	78	99	9	5	4	1377	1406	99
8	4	1661	1684	99	8	12	3	1230	1251	99	8	18	-8	-215	280	99	9	3	-18	-191	70	99	9	5	5	265	264	99
8	5	691	770	99	8	12	4	75	379	99	8	18	-7	441	444	99	9	3	-17	607	688	99	9	5	6	92	13	99
8	6	658	558	99	8	12	5	744	713	99	8	18	-6	311	303	99	9	3	-16	224	191	99	9	5	7	819	763	99
8	7	-202	91	99	8	12	6	-310	233	99	8	18	-5	510	592	99	9	3	-15	1151	1103	99	9	5	8	111	238	99
8	8	152	169	99	8	12	7	236	89	99	8	18	-4	444	435	99	9	3	-14	-346	291	99	9	5	9	670	668	99
8	9	229	70	99	8	12	8	-136	32	99	8	18	-3	344	344	99	9	3	-13	481	499	99	9	5	10	329	58	99
8	10	351	301	99	8	12	9	345	275	99	8	18	-2	216	280	99	9	3	-12	-152	300	99	9	5	11	-171	443	99
8	11	337	100	99	8	14	-15	-305	123	99	8	18	-1	142	15	99	9	3	-11	792	738	99	9	7	-19	132	103	99
8	-17	160	92	99	8	14	-14	479	505	99	8	18	0	326	79	99	9	3	-10	864	898	99	9	7	-18	174	226	99
8	-16	-250	291	99	8	14	-13	88	342	99	8	18	1	-388	210	99	9	3	-9	2361	2393	99	9	7	-17	-188	298	99
8	-15	653	692	99	8	14	-12	-155	350	99	8	18	2	244	257	99	9	3	-8	1443	1406	99	9	7	-16	942	1001	99
8	-14	420	486	99	8	14	-11	299	154	99	8	18	3	419	498	99	9	3	-7	3921	3935	99	9	7	-15	326	192	99
8	-13	720	712	99	8	14	-10	356	353	99	8	18	4	310	66	99	9	3	-6	1709	1753	99	9	7	-14	1033	1024	99
8	-12	676	663	99	8	14	-9	284	431	99	8	20	-7	-161	308	99	9	3	-5	3178	3112	99	9	7	-13	438	416	99
9	7	-12	698	738	99	9	11	-15	629	542	99	9	15	-9	476	319	99	10	0	-4	465	423	99	10	4	-4	341	303	99
9	7	-11	-446	89	99	9	11	-14	322	96	99	9	15	-8	601	588	99	10	0	-2	3419	3499	99	10	4	-3	2928	2955	99
9	7	-10	-288	180	99	9	11	-13	-88	354	99	9	15	-7	299	75	99	10	0	0	945	996	99	10	4	-2	693	638	99
9	7	-9	596	616	99	9	11	-12	97	136	99	9	15	-6	960	970	99	10	0	2	1248	1203	99	10	4	-1	3661	3765	99
9	7	-8	1779	1799	99	9	11	-11	745	674	99	9	15	-5	-254	121	99	10	0	4	519	525	99	10	4	0	330	116	99
9	7	-7	668	690	99	9	11	-10	366	417	99	9	15	-4	474	442	99	10	0	6	1436	1363	99	10	4	1	2654	2589	99
9	7	-6	2864	2911	99	9	11	-9	1147	1163	99	9	15	-3	164	311	99	10	0	8	771	777	99	10	4	2	251	292	99
9	7	-5	220	59	99	9	11	-8	349	414	99	9	15	-2	-262	263	99	10	0	10	163	425	99	10	4	3	1847	1977	99
9	7	-4	1043	1006	99	9	11	-7	2031	2033	99	9	15	-1	248	448	99	10	2	-20	253	112	99	10	4	4	502	448	99
9	7	-3	570	592	99	9	11	-6	420	285	99	9	15	0	512	572	99	10	2	-19	349	311	99	10	4	5	724	681	99
9	7	-2	886	883	99	9	11	-5	2036	2060	99	9	15	1	356	464	99	10	2	-18	244	226	99	10	4	6	-350	81	99
9	7	-1	618	580	99	9	11	-4	260	349	99	9	15	2	690	719	99	10	2	-17	962	932	99	10	4	7	934	826	99
9	7	0	1494	1513	99	9	11	-3	-109	211	99	9	15	3	332	125	99	10	2	-16	639	612	99	10	4	8	278	15	99
9	7	1	1212	1234	99	9	11	-2	171	136	99	9	15	4	81	250	99	10	2	-15	660	612	99	10	4	9	476	526	99
9	7	2	1870	1876	99	9	11	-1	1555	1580	99	9	15	5	296	228	99	10	2	-14	255	299	99	10	4	10	-389	74	99
9	7	3	-163	139	99	9	11	0	476	371	99	9	15	6	150	119	99	10	2	-13	-88	118	99	10	4	11	338	272	99
9	7	4	1262	1201	99	9	11	1	1643	1606	99	9	15	7	-463	54	99	10	2	-12	609	548	99	10	6	-19	487	331	99
9	7	5	289	315	99	9	11	2	416	443	99	9	17	-12	150	132	99	10	2	-11	1357	1334	99	10	6	-18	90	316	99
9	7	6	473	441	99	9	11	3	1354	1368	99	9	17	-11	-258	37	99	10	2	-10	1790	1771	99	10	6	-17	738	602	99
9	7	7	-473	132	99	9	11	4	116	272	99	9	17	-10	342	363	99	10	2	-9	2520	2477	99	10	6	-16	652	643	99
9	7	8	521	596	99	9	11	5	562	465	99	9	17	-9	159	61	99	10	2	-8	1652	1569	99	10	6	-15	567	462	99
9	7	9	488	399	99	9	11	6	120	42	99	9	17	-8	358	436	99	10	2	-7	2851	2869	99	10	6	-14	322	256	99
9	7	10	531	323	99	9	11	7	499	436	99	9	17	-7	-47	348	99	10	2	-6	1251	1216	99	10	6	-13	-176	30	99
9	7	11	-463	195	99	9	11	8	162	47	99	9	17	-6	465	484	99	10	2	-5	1061	991	99	10	6	-12	307	259	99
9	9	-18	73	219	99	9	11	9	-241	359	99	9	17	-5	495	415	99	10	2	-4	1023	893	99	10	6	-11	1001	964	99
9	9	-17	178	267	99	9	13	-16	287	260	99	9	17	-4	-263	231	99	10	2	-3	1805	1892	99	10	6	-10	1615	1603	99
9	9	-16	609	593	99	9	13	-15	464	348	99	9	17	-3	264	45	99	10	2	-2	2512	2568	99	10	6	-9	1687	1744	99
9	9	-15	580	692	99	9	13	-14	232	251	99	9	17	-2	-469	110	99	10	2	-1	2305	2351	99	10	6	-8	1894	1948	99
9	9	-14	783	789	99	9	13	-13	411	383	99	9	17	-1	249	202	99	10	2	0	1706	1638	99	10	6	-7	1751	1695	99
9	9	-13	350	405	99	9	13	-12	-186	97	99	9	17	0	478	459	99	10	2	1	1446	1496	99	10	6	-6	1438	1394	99
9	9	-12	-356	253	99	9	13	-11	179	450	99	9	17	1	-324	215	99	10	2	2	944	936	99	10	6	-5	-216	28	99
9	9	-11	-308	46	99	9	13	-10	264	300	99	9	17	2	-357	368	99	10	2	3	1193	1116	99	10	6	-4	401	306	99
9	9	-10	814	813	99	9	13	-9	1045	1028	99	9	17	3	149	379	99	10	2	4	-195	69	99	10	6	-3	1215	1217	99
9	9	-9	466	337	99	9	13	-8	749	758	99	9	17	4	282	44	99	10	2	5	729	684	99	10	6	-2	2034	2000	99
9	9	-8	1630	1599	99	9	13	-7	1159	1137	99	9	17	5	-187	119	99	10	2	6	853	764	99	10	6	-1	1854	1766	99
9	9	-7	1100	1065	99	9	13	-6	1117	1028	99	9	19	-9	368	404	99	10	2	7	884	871	99	10	6	0	1302	1376	99
9	9	-6	1674	1682	99	9	13	-5	746	658	99	9	19	-8	157	141	99	10	2	8	297	429	99	10	6	1	1176	1152	99
9	9	-5	743	751	99	9	13	-4	688	755	99	9	19	-7	581	566	99	10	2	9	312	474	99	10	6	2	1734	1693	99
9	9	-4	1497	1522	99	9	13	-3	233	281	99	9	19	-6	-433	111	99	10	2	10	298	132	99	10	6	3	199	37	99
9	9	-3	136	80	99	9	13	-2	561	589	99	9	19	-5	499	454	99	10	2	11	193	311	99	10	6	4	148	221	99
9	9	-2	787	762	99	9	13	-1	1137	1133	99	9	19	-4	-250	120	99	10	4	-19	-177	294	99	10	6	5	731	695	99
9	9	-1	1190	1220	99	9	13	0	415	305	99	9	19	-3	-416	9	99	10	4	-18	-207	25	99	10	6	6	721	727	99
9	9	0	1350	1328	99	9	13	1	1250	1263	99	9	19	-2	-225	34	99	10	4	-17	877	837	99	10	6	7	704	646	99
9	9	1	259	317	99	9	13	2	588	698	99	9	19	-1	221	364	99	10	4	-16	-322	151	99	10	6	8	392	365	99
9	9	2	1375	1286	99	9	13	3	674	692	99	9	19	0	-129	153	99	10	4	-15	628	673	99	10	6	9	172	399	99
9	9	3	913	896	99	9	13	4	674	760	99	9	19	1	485	517	99	10	4	-14	-175	116	99	10	6	10	-260	228	99
9	9	4	-359	322	99	9	13	5	162	10	99	9	19	2	-328	18	99	10	4	-13	701	699	99	10	6	11	-477	174	99
9	9	5	296	371	99	9	13	6	-140	80	99	10	0	-20	189	167	99	10	4	-12	122	147	99	10	8	-16	354	515	99
9	9	6	-357	81	99	9	13	7	369	307	99	10	0	-18	569	627	99	10	4	-11	2354	2272	99	10	8	-17	-131	145	99
9	9	7	186	515	99	9	13	8	37	120	99	10	0	-16	1352	1331	99	10	4	-10	244	76	99	10	8	-16	335	360	99
9	9	8	520	457	99	9	15	-14	372	456	99	10	0	-14	432	361	99	10	4	-9	2918	2909	99	10	8	-15	196	230	99
9	9	9	-385	254	99	9	15	-13	89	89	99	10	0	-12	830	798	99	10	4	-8	165	214	99	10	8	-14	269	410	99
9	9	10	229	312	99	9	15	-12	-417	343	99	10	0	-10	1715	1692	99	10	4	-7	3144	3082	99	10	8	-13	-257	173	99
9	11	-17	342	364	99	9	15	-11	-96	225	99	10	0	-8	2172	2249	99	10	4	-6	436	464	99	10	8	-12	443	416	99
9	11	-16	113	72	99	9	15	-10	-161	210	99	10	0	-6	2079	2184	99	10	4	-5	539	565	99	10	8	-11	-187	153	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
10	8	-10	1279	1285	99	10	12	-11	1187	1157	99	10	16	-2	262	362	99	11	1	7	546	397	99	11	5	-1	2171	2181	99
10	8	-9	-138	75	99	10	12	-10	-369	190	99	10	16	-1	-232	27	99	11	1	8	549	595	99	11	5	0	848	797	99
10	8	-8	1701	1611	99	10	12	-9	1368	1411	99	10	16	0	650	627	99	11	1	9	-261	180	99	11	5	1	1301	1251	99
10	8	-7	-232	103	99	10	12	-8	383	362	99	10	16	1	-213	51	99	11	1	10	302	35	99	11	5	2	998	1008	99
10	8	-6	1512	1470	99	10	12	-7	1460	1481	99	10	16	2	92	139	99	11	1	11	161	36	99	11	5	3	52	155	99
10	8	-5	897	924	99	10	12	-6	748	763	99	10	16	3	195	240	99	11	3	-20	158	106	99	11	5	4	196	488	99
10	8	-4	365	376	99	10	12	-5	240	30	99	10	16	4	287	179	99	11	3	-19	305	444	99	11	5	5	1153	1120	99
10	8	-3	17	71	99	10	12	-4	357	273	99	10	16	5	-166	21	99	11	3	-18	-78	45	99	11	5	6	530	452	99
10	8	-2	1828	1811	99	10	12	-3	1042	1030	99	10	18	-11	310	285	99	11	3	-17	729	749	99	11	5	7	740	663	99
10	8	-1	434	339	99	10	12	-2	706	705	99	10	18	-10	297	188	99	11	3	-16	95	175	99	11	5	8	168	223	99
10	8	0	1222	1172	99	10	12	-1	1767	1749	99	10	18	-9	-369	380	99	11	3	-15	-176	150	99	11	5	9	311	258	99
10	8	1	364	349	99	10	12	0	-257	117	99	10	18	-8	-61	240	99	11	3	-14	244	225	99	11	5	10	-109	94	99
10	8	2	694	704	99	10	12	1	1474	1541	99	10	18	-7	547	559	99	11	3	-13	1382	1398	99	11	7	-19	224	268	99
10	8	3	491	492	99	10	12	2	545	531	99	10	18	-6	314	162	99	11	3	-12	794	804	99	11	7	-18	244	425	99
10	8	4	452	387	99	10	12	3	608	572	99	10	18	-5	308	115	99	11	3	-11	2804	2798	99	11	7	-17	261	152	99
10	8	5	-451	46	99	10	12	4	553	533	99	10	18	-4	-143	253	99	11	3	-10	747	722	99	11	7	-16	490	483	99
10	8	6	861	892	99	10	12	5	239	162	99	10	18	-3	328	237	99	11	3	-9	1760	1811	99	11	7	-15	59	61	99
10	8	7	-320	134	99	10	12	6	-404	10	99	10	18	-2	-348	230	99	11	3	-8	648	583	99	11	7	-14	448	442	99
10	8	8	677	650	99	10	12	7	280	462	99	10	18	-1	362	435	99	11	3	-7	2338	2303	99	11	7	-13	471	452	99
10	8	9	-412	94	99	10	12	8	-129	53	99	10	18	0	-178	397	99	11	3	-6	659	691	99	11	7	-12	1501	1522	99
10	8	10	353	278	99	10	14	-15	274	199	99	10	18	1	453	465	99	11	3	-5	1990	1897	99	11	7	-11	718	677	99
10	10	-18	-227	129	99	10	14	-14	196	238	99	10	18	2	-375	7	99	11	3	-4	1719	1732	99	11	7	-10	1857	1870	99
10	10	-17	200	466	99	10	14	-13	-248	21	99	10	18	3	-92	250	99	11	3	-3	4332	4351	99	11	7	-9	923	941	99
10	10	-16	181	104	99	10	14	-12	-500	203	99	10	20	-6	222	345	99	11	3	-2	1801	1820	99	11	7	-8	1178	1194	99
10	10	-15	517	455	99	10	14	-11	599	484	99	10	20	-5	141	69	99	11	3	-1	2230	2239	99	11	7	-7	686	623	99
10	10	-14	280	36	99	10	14	-10	585	559	99	10	20	-4	-162	22	99	11	3	0	1109	1087	99	11	7	-6	384	365	99
10	10	-13	-151	13	99	10	14	-9	641	688	99	10	20	-3	-280	206	99	11	3	1	1583	1567	99	11	7	-5	594	630	99
10	10	-12	507	365	99	10	14	-8	796	739	99	10	20	-2	44	147	99	11	3	2	136	68	99	11	7	-4	2671	2745	99
10	10	-11	1019	1052	99	10	14	-7	594	432	99	11	1	-20	-136	337	99	11	3	3	361	277	99	11	7	-3	338	252	99
10	10	-10	708	697	99	10	14	-6	707	691	99	11	1	-19	-454	318	99	11	3	4	429	481	99	11	7	-2	1749	1659	99
10	10	-9	1197	1179	99	10	14	-5	320	89	99	11	1	-18	385	461	99	11	3	5	1393	1397	99	11	7	-1	522	549	99
10	10	-8	941	936	99	10	14	-4	-236	140	99	11	1	-17	425	396	99	11	3	6	491	544	99	11	7	0	785	814	99
10	10	-7	1647	1650	99	10	14	-3	368	353	99	11	1	-16	527	528	99	11	3	7	574	733	99	11	7	1	-143	57	99
10	10	-6	205	75	99	10	14	-2	714	686	99	11	1	-15	303	25	99	11	3	8	355	152	99	11	7	2	-332	41	99
10	10	-5	1134	1078	99	10	14	-1	755	780	99	11	1	-14	528	519	99	11	3	9	443	378	99	11	7	3	211	303	99
10	10	-4	1044	1010	99	10	14	0	647	636	99	11	1	-13	407	429	99	11	3	10	266	19	99	11	7	4	1174	1189	99
10	10	-3	1173	1135	99	10	14	1	486	442	99	11	1	-12	1924	1952	99	11	3	11	-273	43	99	11	7	5	434	410	99
10	10	-2	893	914	99	10	14	2	615	717	99	11	1	-11	1318	1288	99	11	5	-19	546	464	99	11	7	6	1060	1018	99
10	10	-1	1593	1607	99	10	14	3	134	264	99	11	1	-10	1956	1909	99	11	5	-18	82	219	99	11	7	7	-419	267	99
10	10	0	1135	1121	99	10	14	4	235	66	99	11	1	-9	1175	1150	99	11	5	-17	539	617	99	11	7	8	451	449	99
10	10	1	995	976	99	10	14	5	246	252	99	11	1	-8	1229	1149	99	11	5	-16	230	273	99	11	7	9	278	47	99
10	10	2	389	268	99	10	14	6	324	249	99	11	1	-7	969	1018	99	11	5	-15	-316	184	99	11	7	10	-491	90	99
10	10	3	901	898	99	10	14	7	104	260	99	11	1	-6	374	335	99	11	5	-14	46	280	99	11	9	-18	333	282	99
10	10	4	76	345	99	10	16	-14	187	195	99	11	1	-5	156	105	99	11	5	-13	1134	1146	99	11	9	-17	304	324	99
10	10	5	208	160	99	10	16	-13	-229	165	99	11	1	-4	3783	3631	99	11	5	-12	600	625	99	11	9	-16	-432	196	99
10	10	6	410	266	99	10	16	-12	-209	88	99	11	1	-3	1391	1355	99	11	5	-11	1901	1941	99	11	9	-15	-100	156	99
10	10	7	533	559	99	10	16	-11	240	11	99	11	1	-2	3178	3181	99	11	5	-10	622	625	99	11	9	-14	-288	468	99
10	10	8	164	232	99	10	16	-10	-172	518	99	11	1	-1	1079	1077	99	11	5	-9	1978	1946	99	11	9	-13	461	425	99
10	10	9	171	361	99	10	16	-9	309	33	99	11	1	0	582	571	99	11	5	-8	-326	140	99	11	9	-12	937	933	99
10	12	-17	334	397	99	10	16	-8	624	589	99	11	1	1	453	384	99	11	5	-7	1155	1117	99	11	9	-11	922	855	99
10	12	-16	-370	164	99	10	16	-7	289	311	99	11	1	2	260	170	99	11	5	-6	-126	150	99	11	9	-10	834	812	99
10	12	-15	-92	321	99	10	16	-6	314	350	99	11	1	3	57	148	99	11	5	-5	1613	1644	99	11	9	-9	737	682	99
10	12	-14	-172	38	99	10	16	-5	348	381	99	11	1	4	1614	1497	99	11	5	-4	1939	1889	99	11	9	-8	733	782	99
10	12	-13	-411	92	99	10	16	-4	-186	188	99	11	1	5	630	643	99	11	5	-3	3070	3145	99	11	9	-7	1129	1221	99
10	12	-12	-382	25	99	10	16	-3	-117	68	99	11	1	6	1259	1303	99	11	5	-2	1848	1932	99	11	9	-6	817	795	99
11	9	-5	246	243	99	11	13	-2	825	864	99	11	19	-2	41	18	99	12	4	-15	441	305	99	12	8	-19	-512	56	99
11	9	-4	2091	2093	99	11	13	-1	1247	1193	99	11	19	-1	561	538	99	12	4	-14	220	104	99	12	8	-18	-204	66	99
11	9	-3	1012	962	99	11	13	0	577	504	99	11	19	0	291	62	99	12	4	-13	1753	1803	99	12	8	-17	-120	91	99
11	9	-2	1789	1796	99	11	13	1	213	246	99	12	0	-20	331	498	99	12	4	-12	262	36	99	12	8	-16	286	203	99
11	9	-1	285	358	99	11	13	2	532	528	99	12	0	-18	-295	78	99	12	4	-11	1481	1432	99	12	8	-15	180	95	99
11	9	0	562	587	99	11	13	3	449	299	99	12	0	-16	-151	114	99	12	4	-10	180	88	99	12	8	-14	1211	1238	99
11	9	1	-96	394	99	11	13	4	-140	128	99	12	0	-14	1438	1468	99	12	4	-9	540	560	99	12	8	-13	507	498	99
11	9	2	261	174	99	11	13	5	436	397	99	12	0	-12	2664	2658	99	12	4	-8	653	635	99	12	8	-12	1591	1617	99
11	9	3	-342	147	99	11	13	6	364	225	99	12	0	-10	1512	1482	99	12	4	-7	185	138	99	12	8	-11	251	397	99
11	9	4	904	881	99	11	13	7	336	309	99	12	0	-8	307	272	99	12	4	-6	278	248	99	12	8	-10	1051	1036	99
11	9	5	557	486	99	11	15	-15	167	42	99	12	0	-6	1065	1065	99	12	4	-5	3325	3393	99	12	8	-9	-218	97	99
11	9	6	764	830	99	11	15	-14	210	134	99	12	0	-4	4495	4542	99	12	4	-4	677	653	99	12	8	-8	-79	184	99
11	9	7	-28	315	99	11	15	-13	-336	157	99	12	0	-2	1882	1876	99	12	4	-3	3255	3273	99	12	8	-7	920	892	99
11	9	8	49	287	99	11	15	-12	445	536	99	12	0	0	437	309	99	12	4	-2	209	146	99	12	8	-6	1525	1458	99
11	9	9	-33	202	99	11	15	-11	260	188	99	12	0	2	1061	1033	99	12	4	-1	1210	1229	99	12	8	-5	173	165	99
11	11	-17	140	345	99	11	15	-10	-101	603	99	12	0	4	1581	1583	99	12	4	0	462	442	99	12	8	-4	2801	2828	99
11	11	-16	207	76	99	11	15	-9	342	318	99	12	0	6	1015	1003	99	12	4	1	-103	113	99	12	8	-3	562	583	99
11	11	-15	332	135	99	11	15	-8	563	572	99	12	0	8	433	311	99	12	4	2	501	402	99	12	8	-2	1259	1296	99
11	11	-14	254	127	99	11	15	-7	142	167	99	12	0	10	331	368	99	12	4	3	929	974	99	12	8	-1	323	280	99
11	11	-13	730	708	99	11	15	-6	-427	71	99	12	2	-20	-214	225	99	12	4	4	459	198	99	12	8	0	-389	135	99
11	11	-12	250	236	99	11	15	-5	93	183	99	12	2	-19	-173	293	99	12	4	5	1062	1072	99	12	8	1	-217	182	99
11	11	-11	1471	1479	99	11	15	-4	716	767	99	12	2	-18	-227	129	99	12	4	6	287	55	99	12	8	2	808	781	99
11	11	-10	272	210	99	11	15	-3	-321	82	99	12	2	-17	-124	184	99	12	4	7	493	498	99	12	8	3	-317	56	99
11	11	-9	1011	972	99	11	15	-2	605	563	99	12	2	-16	-387	58	99	12	4	8	242	93	99	12	8	4	1266	1198	99
11	11	-8	78	246	99	11	15	-1	-145	98	99	12	2	-15	451	389	99	12	4	9	-306	33	99	12	8	5	142	127	99
11	11	-7	925	945	99	11	15	0	331	416	99	12	2	-14	1010	1011	99	12	4	10	-377	8	99	12	8	6	693	755	99
11	11	-6	1064	1066	99	11	15	1	-485	141	99	12	2	-13	1782	1809	99	12	6	-19	93	274	99	12	8	7	103	190	99
11	11	-5	1174	1186	99	11	15	2	-314	99	99	12	2	-12	1546	1550	99	12	6	-18	232	207	99	12	8	8	129	70	99
11	11	-4	308	305	99	11	15	3	281	230	99	12	2	-11	2013	2086	99	12	6	-17	-354	106	99	12	8	9	-98	63	99
11	11	-3	2043	1987	99	11	15	4	-218	419	99	12	2	-10	404	333	99	12	6	-16	306	139	99	12	10	-18	227	54	99
11	11	-2	415	356	99	11	15	5	249	76	99	12	2	-9	627	564	99	12	6	-15	101	396	99	12	10	-17	-556	166	99
11	11	-1	1595	1576	99	11	17	-13	273	234	99	12	2	-8	1063	1005	99	12	6	-14	986	1006	99	12	10	-16	-455	125	99
11	11	0	283	341	99	11	17	-12	216	205	99	12	2	-7	611	611	99	12	6	-13	1249	1229	99	12	10	-15	324	129	99
11	11	1	861	871	99	11	17	-11	310	288	99	12	2	-6	1974	2044	99	12	6	-12	1536	1631	99	12	10	-14	337	591	99
11	11	2	450	558	99	11	17	-10	412	371	99	12	2	-5	2283	2302	99	12	6	-11	1483	1495	99	12	10	-13	1102	1169	99
11	11	3	293	94	99	11	17	-9	168	288	99	12	2	-4	3110	3150	99	12	6	-10	380	290	99	12	10	-12	-144	407	99
11	11	4	347	367	99	11	17	-8	-205	114	99	12	2	-3	2139	2136	99	12	6	-9	787	768	99	12	10	-11	1112	1108	99
11	11	5	547	571	99	11	17	-7	508	546	99	12	2	-2	1717	1701	99	12	6	-8	-360	250	99	12	10	-10	302	273	99
11	11	6	195	201	99	11	17	-6	570	479	99	12	2	-1	710	652	99	12	6	-7	158	154	99	12	10	-9	646	562	99
11	11	7	348	448	99	11	17	-5	176	28	99	12	2	0	344	280	99	12	6	-6	1033	1054	99	12	10	-8	867	809	99
11	11	8	-127	5	99	11	17	-4	558	526	99	12	2	1	240	162	99	12	6	-5	883	857	99	12	10	-7	485	358	99
11	13	-16	71	175	99	11	17	-3	388	256	99	12	2	2	869	910	99	12	6	-4	3335	3412	99	12	10	-6	1738	1692	99
11	13	-15	281	57	99	11	17	-2	506	479	99	12	2	3	587	605	99	12	6	-3	1126	1165	99	12	10	-5	1510	1543	99
11	13	-14	-259	64	99	11	17	-1	-355	202	99	12	2	4	1154	1046	99	12	6	-2	1328	1303	99	12	10	-4	1086	1133	99
11	13	-13	478	505	99	11	17	0	164	324	99	12	2	5	812	744	99	12	6	-1	562	638	99	12	10	-3	1554	1450	99
11	13	-12	287	401	99	11	17	1	-190	209	99	12	2	6	689	775	99	12	6	0	-290	362	99	12	10	-2	813	868	99
11	13	-11	778	837	99	11	17	2	306	238	99	12	2	7	254	433	99	12	6	1	459	427	99	12	10	-1	631	631	99
11	13	-10	-517	311	99	11	17	3	-123	69	99	12	2	8	-215	238	99	12	6	2	779	769	99	12	10	0	105	190	99
11	13	-9	876	919	99	11	19	-9	149	401	99	12	2	9	89	96	99	12	6	3	133	230	99	12	10	1	100	177	99
11	13	-8	455	356	99	11	19	-8	-326	138	99	12	2	10	-325	141	99	12	6	4	1094	1093	99	12	10	2	739	689	99
11	13	-7	305	200	99	11	19	-7	357	82	99	12	4	-20	269	16	99	12	6	5	641	526	99	12	10	3	351	478	99
11	13	-6	312	232	99	11	19	-6	204	427	99	12	4	-19	189	455	99	12	6	6	668	758	99	12	10	4	714	684	99
11	13	-5	664	591	99	11	19	-5	504	394	99	12	4	-18	-263	114	99	12	6	7	326	140	99	12	10	5	490	520	99
11	13	-4	746	661	99	11	19	-4	-336	98	99	12	4	-17	426	316	99	12	6	8	349	277	99	12	10	6	34	424	99
11	13	-3	908	854	99	11	19	-3	198	451	99	12	4	-16	-175	72	99	12	6	9	57	154	99	12	10	7	283	305	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
12	10	8	103	16	99	12	16	-7	486	365	99	13	3	-20	-141	88	99	13	5	5	414	435	99	13	9	3	371	214	99
12	12	-17	273	137	99	12	16	-6	661	699	99	13	3	-19	235	184	99	13	5	6	288	547	99	13	9	4	761	752	99
12	12	-16	194	183	99	12	16	-5	382	185	99	13	3	-18	237	31	99	13	5	7	161	44	99	13	9	5	319	292	99
12	12	-15	148	216	99	12	16	-4	780	763	99	13	3	-17	265	180	99	13	5	8	112	63	99	13	9	6	359	246	99
12	12	-14	242	78	99	12	16	-3	343	220	99	13	3	-16	161	296	99	13	5	9	203	334	99	13	9	7	287	135	99
12	12	-13	764	847	99	12	16	-2	463	493	99	13	3	-15	830	803	99	13	7	-19	252	3	99	13	9	8	372	125	99
12	12	-12	284	216	99	12	16	-1	340	118	99	13	3	-14	447	391	99	13	7	-18	130	190	99	13	11	-18	250	28	99
12	12	-11	861	832	99	12	16	0	242	11	99	13	3	-13	1676	1646	99	13	7	-17	246	203	99	13	11	-17	160	51	99
12	12	-10	140	58	99	12	16	1	197	141	99	13	3	-12	181	148	99	13	7	-16	594	591	99	13	11	-16	349	293	99
12	12	-9	332	258	99	12	16	2	210	406	99	13	3	-11	382	282	99	13	7	-15	498	418	99	13	11	-15	547	448	99
12	12	-8	388	410	99	12	16	3	404	39	99	13	3	-10	271	315	99	13	7	-14	1695	1719	99	13	11	-14	341	35	99
12	12	-7	476	416	99	12	16	4	414	449	99	13	3	-9	956	955	99	13	7	-13	412	105	99	13	11	-13	809	644	99
12	12	-6	206	22	99	12	18	-11	307	259	99	13	3	-8	1542	1535	99	13	7	-12	1144	1087	99	13	11	-12	148	102	99
12	12	-5	1363	1392	99	12	18	-10	91	32	99	13	3	-7	1650	1690	99	13	7	-11	371	376	99	13	11	-11	418	293	99
12	12	-4	669	592	99	12	18	-9	290	313	99	13	3	-6	940	938	99	13	7	-10	405	368	99	13	11	-10	277	243	99
12	12	-3	1498	1464	99	12	18	-8	264	410	99	13	3	-5	2851	2868	99	13	7	-9	77	334	99	13	11	-9	691	649	99
12	12	-2	143	239	99	12	18	-7	270	32	99	13	3	-4	909	892	99	13	7	-8	1040	1005	99	13	11	-8	889	888	99
12	12	-1	734	795	99	12	18	-6	607	581	99	13	3	-3	1001	990	99	13	7	-7	862	813	99	13	11	-7	887	866	99
12	12	0	267	370	99	12	18	-5	467	494	99	13	3	-2	131	106	99	13	7	-6	2401	2478	99	13	11	-6	466	523	99
12	12	1	422	259	99	12	18	-4	496	327	99	13	3	-1	69	162	99	13	7	-5	75	164	99	13	11	-5	1360	1336	99
12	12	2	260	323	99	12	18	-3	481	495	99	13	3	0	1119	1103	99	13	7	-4	2453	2503	99	13	11	-4	232	207	99
12	12	3	529	441	99	12	18	-2	427	126	99	13	3	1	1681	1638	99	13	7	-3	221	28	99	13	11	-3	810	819	99
12	12	4	235	86	99	12	18	-1	411	299	99	13	3	2	1115	1065	99	13	7	-2	483	408	99	13	11	-2	105	135	99
12	12	5	532	569	99	12	18	0	287	133	99	13	3	3	1029	1034	99	13	7	-1	374	393	99	13	11	-1	352	113	99
12	12	6	439	173	99	12	18	1	265	59	99	13	3	4	210	149	99	13	7	0	753	731	99	13	11	0	585	594	99
12	12	7	148	224	99	13	1	-20	364	215	99	13	3	5	688	585	99	13	7	1	462	364	99	13	11	1	841	856	99
12	14	-16	377	143	99	13	1	-19	258	84	99	13	3	6	47	186	99	13	7	2	1201	1167	99	13	11	2	462	412	99
12	14	-15	201	203	99	13	1	-18	330	364	99	13	3	7	462	133	99	13	7	3	206	201	99	13	11	3	605	617	99
12	14	-14	385	463	99	13	1	-17	17	123	99	13	3	8	337	35	99	13	7	4	856	861	99	13	11	4	485	249	99
12	14	-13	97	358	99	13	1	-16	689	703	99	13	3	9	140	358	99	13	7	5	309	156	99	13	11	5	484	489	99
12	14	-12	484	651	99	13	1	-15	562	655	99	13	5	-20	63	122	99	13	7	6	502	483	99	13	11	6	129	94	99
12	14	-11	598	552	99	13	1	-14	2023	1925	99	13	5	-19	236	180	99	13	7	7	261	310	99	13	11	7	120	70	99
12	14	-10	307	298	99	13	1	-13	1110	1117	99	13	5	-18	300	72	99	13	7	8	298	174	99	13	13	-16	88	115	99
12	14	-9	407	417	99	13	1	-12	1710	1676	99	13	5	-17	195	264	99	13	9	-19	104	37	99	13	13	-15	197	389	99
12	14	-8	249	175	99	13	1	-11	614	620	99	13	5	-16	181	64	99	13	9	-18	240	217	99	13	13	-14	436	429	99
12	14	-7	229	373	99	13	1	-10	328	304	99	13	5	-15	872	862	99	13	9	-17	295	59	99	13	13	-13	298	418	99
12	14	-6	342	436	99	13	1	-9	142	62	99	13	5	-14	766	762	99	13	9	-16	310	569	99	13	13	-12	258	282	99
12	14	-5	285	148	99	13	1	-8	2050	2076	99	13	5	-13	1513	1457	99	13	9	-15	304	348	99	13	13	-11	358	419	99
12	14	-4	1239	1205	99	13	1	-7	199	181	99	13	5	-12	445	443	99	13	9	-14	992	985	99	13	13	-10	140	56	99
12	14	-3	248	202	99	13	1	-6	3153	3181	99	13	5	-11	453	465	99	13	9	-13	1187	1159	99	13	13	-9	370	256	99
12	14	-2	681	689	99	13	1	-5	1297	1308	99	13	5	-10	245	217	99	13	9	-12	753	785	99	13	13	-8	266	142	99
12	14	-1	310	102	99	13	1	-4	2706	2775	99	13	5	-9	164	243	99	13	9	-11	539	502	99	13	13	-7	763	792	99
12	14	0	160	112	99	13	1	-3	440	437	99	13	5	-8	434	496	99	13	9	-10	239	204	99	13	13	-6	677	634	99
12	14	1	233	303	99	13	1	-2	759	725	99	13	5	-7	1625	1732	99	13	9	-9	286	379	99	13	13	-5	423	465	99
12	14	2	139	194	99	13	1	-1	414	100	99	13	5	-6	1299	1211	99	13	9	-8	1840	1776	99	13	13	-4	965	957	99
12	14	3	196	216	99	13	1	0	1179	1135	99	13	5	-5	2013	1964	99	13	9	-7	326	279	99	13	13	-3	264	334	99
12	14	4	470	521	99	13	1	1	661	589	99	13	5	-4	1504	1589	99	13	9	-6	1880	1861	99	13	13	-2	434	378	99
12	14	5	337	146	99	13	1	2	1849	1866	99	13	5	-3	905	866	99	13	9	-5	1208	1264	99	13	13	-1	297	387	99
12	16	-14	533	474	99	13	1	3	96	200	99	13	5	-2	334	354	99	13	9	-4	1360	1358	99	13	13	0	287	235	99
12	16	-13	373	286	99	13	1	4	1057	937	99	13	5	-1	744	692	99	13	9	-3	855	891	99	13	13	1	554	568	99
12	16	-12	322	444	99	13	1	5	403	123	99	13	5	0	504	565	99	13	9	-2	269	300	99	13	13	2	382	273	99
12	16	-11	172	170	99	13	1	6	481	553	99	13	5	1	1277	1311	99	13	9	-1	389	343	99	13	13	3	196	340	99
12	16	-10	463	464	99	13	1	7	410	37	99	13	5	2	1013	940	99	13	9	0	922	873	99	13	13	4	177	423	99
12	16	-9	124	165	99	13	1	8	541	161	99	13	5	3	821	809	99	13	9	1	255	224	99	13	13	5	142	102	99
12	16	-8	318	120	99	13	1	9	307	263	99	13	5	4	588	498	99	13	9	2	1150	1111	99	13	15	-15	311	22	99
13	15	-14	543	686	99	14	2	-19	331	149	99	14	4	6	156	184	99	14	8	4	368	419	99	14	14	-13	277	23	99
13	15	-13	316	92	99	14	2	-18	384	375	99	14	4	7	325	344	99	14	8	5	340	313	99	14	14	-12	149	140	99
13	15	-12	478	468	99	14	2	-17	528	472	99	14	4	8	-410	67	99	14	8	6	-227	33	99	14	14	-11	26	115	99
13	15	-11	264	96	99	14	2	-16	784	772	99	14	6	-20	-427	18	99	14	8	7	-414	53	99	14	14	-10	285	307	99
13	15	-10	550	114	99	14	2	-15	1026	1034	99	14	6	-19	224	126	99	14	10	-18	263	269	99	14	14	-9	631	622	99
13	15	-9	232	237	99	14	2	-14	868	910	99	14	6	-18	292	246	99	14	10	-17	367	275	99	14	14	-8	803	759	99
13	15	-8	331	472	99	14	2	-13	738	671	99	14	6	-17	511	588	99	14	10	-16	570	513	99	14	14	-7	563	512	99
13	15	-7	370	339	99	14	2	-12	121	39	99	14	6	-16	651	762	99	14	10	-15	545	625	99	14	14	-6	766	791	99
13	15	-6	803	790	99	14	2	-11	680	670	99	14	6	-15	678	709	99	14	10	-14	164	257	99	14	14	-5	207	32	99
13	15	-5	226	231	99	14	2	-10	791	820	99	14	6	-14	1244	1175	99	14	10	-13	629	640	99	14	14	-4	679	650	99
13	15	-4	954	899	99	14	2	-9	1112	1106	99	14	6	-13	191	208	99	14	10	-12	244	14	99	14	14	-3	74	191	99
13	15	-3	231	143	99	14	2	-8	1986	2016	99	14	6	-12	161	168	99	14	10	-11	330	291	99	14	14	-2	343	254	99
13	15	-2	270	253	99	14	2	-7	2059	2048	99	14	6	-11	516	378	99	14	10	-10	629	586	99	14	14	-1	371	311	99
13	15	-1	367	179	99	14	2	-6	1711	1710	99	14	6	-10	648	622	99	14	10	-9	1089	1041	99	14	14	0	551	492	99
13	15	0	326	263	99	14	2	-5	1258	1248	99	14	6	-9	1111	1101	99	14	10	-8	1207	1167	99	14	14	1	247	260	99
13	15	1	309	145	99	14	2	-4	745	777	99	14	6	-8	1537	1462	99	14	10	-7	1159	1095	99	14	14	2	198	431	99
13	15	2	429	448	99	14	2	-3	130	75	99	14	6	-7	1533	1559	99	14	10	-6	797	845	99	14	14	3	78	75	99
13	15	3	262	68	99	14	2	-2	499	568	99	14	6	-6	1894	1927	99	14	10	-5	924	928	99	14	14	4	371	297	99
13	15	4	338	406	99	14	2	-1	923	881	99	14	6	-5	642	667	99	14	10	-4	501	155	99	14	16	-14	244	269	99
13	17	-12	234	177	99	14	2	0	1810	1831	99	14	6	-4	1110	1178	99	14	10	-3	100	371	99	14	16	-13	283	226	99
13	17	-11	242	199	99	14	2	1	1340	1369	99	14	6	-3	221	168	99	14	10	-2	568	615	99	14	16	-12	458	116	99
13	17	-10	68	28	99	14	2	2	1378	1326	99	14	6	-2	606	614	99	14	10	-1	653	619	99	14	16	-11	77	131	99
13	17	-9	181	139	99	14	2	3	490	343	99	14	6	-1	905	884	99	14	10	0	891	829	99	14	16	-10	430	348	99
13	17	-8	617	730	99	14	2	4	524	513	99	14	6	0	1335	1317	99	14	10	1	939	870	99	14	16	-9	213	37	99
13	17	-7	331	131	99	14	2	5	293	178	99	14	6	1	834	822	99	14	10	2	709	758	99	14	16	-8	711	857	99
13	17	-6	596	612	99	14	2	6	142	176	99	14	6	2	840	932	99	14	10	3	433	277	99	14	16	-7	314	153	99
13	17	-5	529	496	99	14	2	7	298	146	99	14	6	3	491	406	99	14	10	4	462	321	99	14	16	-6	797	666	99
13	17	-4	272	420	99	14	2	8	297	215	99	14	6	4	317	525	99	14	10	5	403	195	99	14	16	-5	502	467	99
13	17	-3	489	477	99	14	2	9	94	322	99	14	6	5	425	201	99	14	10	6	177	126	99	14	16	-4	368	376	99
13	17	-2	42	10	99	14	4	-20	427	12	99	14	6	6	139	263	99	14	12	-17	313	310	99	14	16	-3	227	463	99
13	17	-1	192	127	99	14	4	-19	187	133	99	14	6	7	437	367	99	14	12	-16	225	96	99	14	16	-2	299	241	99
13	17	0	237	324	99	14	4	-18	59	33	99	14	6	8	183	307	99	14	12	-15	334	403	99	14	16	-1	426	72	99
13	17	1	173	37	99	14	4	-17	187	491	99	14	8	-19	408	91	99	14	12	-14	157	309	99	14	16	0	94	378	99
13	19	-8	294	180	99	14	4	-16	192	82	99	14	8	-18	315	424	99	14	12	-13	244	234	99	14	16	1	344	32	99
13	19	-7	121	353	99	14	4	-15	1098	1086	99	14	8	-17	331	24	99	14	12	-12	295	62	99	14	16	2	311	381	99
13	19	-6	168	166	99	14	4	-14	240	314	99	14	8	-16	875	931	99	14	12	-11	236	197	99	14	18	-10	113	222	99
13	19	-5	121	330	99	14	4	-13	855	818	99	14	8	-15	357	237	99	14	12	-10	55	26	99	14	18	-9	267	269	99
13	19	-4	194	100	99	14	4	-12	277	36	99	14	8	-14	1237	1256	99	14	12	-9	983	909	99	14	18	-8	301	296	99
13	19	-3	340	221	99	14	4	-11	856	863	99	14	8	-13	505	478	99	14	12	-8	155	26	99	14	18	-7	313	393	99
14	0	-20	156	225	99	14	4	-10	100	15	99	14	8	-12	225	300	99	14	12	-7	974	955	99	14	18	-6	169	179	99
14	0	-18	756	684	99	14	4	-9	1547	1622	99	14	8	-11	464	57	99	14	12	-6	197	164	99	14	18	-5	315	365	99
14	0	-16	1167	1228	99	14	4	-8	306	63	99	14	8	-10	982	970	99	14	12	-5	475	410	99	14	18	-4	284	125	99
14	0	-14	2253	2181	99	14	4	-7	2364	2448	99	14	8	-9	203	190	99	14	12	-4	342	383	99	14	18	-3	38	56	99
14	0	-12	443	449	99	14	4	-6	244	281	99	14	8	-8	2356	2405	99	14	12	-3	562	489	99	14	18	-2	234	229	99
14	0	-10	1439	1406	99	14	4	-5	1305	1322	99	14	8	-7	327	400	99	14	12	-2	281	207	99	14	18	-1	296	239	99
14	0	-8	3660	3679	99	14	4	-4	69	79	99	14	8	-6	2089	2054	99	14	12	-1	1594	1024	99	15	1	-21	190	77	99
14	0	-6	3422	3650	99	14	4	-3	584	593	99	14	8	-5	532	396	99	14	12	0	295	386	99	15	1	-20	473	431	99
14	0	-4	1827	1825	99	14	4	-2	292	243	99	14	8	-4	1297	1267	99	14	12	1	874	858	99	15	1	-19	280	133	99
14	0	-2	65	150	99	14	4	-1	1912	1959	99	14	8	-3	829	763	99	14	12	2	264	89	99	15	1	-18	601	640	99
14	0	0	1642	1617	99	14	4	0	481	463	99	14	8	-2	349	345	99	14	12	3	388	460	99	15	1	-17	327	326	99
14	0	2	1445	1460	99	14	4	1	1986	1949	99	14	8	-1	130	85	99	14	12	4	327	235	99	15	1	-16	999	947	99
14	0	4	542	595	99	14	4	2	457	25	99	14	8	0	1062	1096	99	14	12	5	233	9	99	15	1	-15	480	389	99
14	0	6	253	46	99	14	4	3	750	774	99	14	8	1	336	241	99	14	14	-16	356	368	99	15	1	-14	909	834	99
14	0	8	359	396	99	14	4	4	293	150	99	14	8	2	926	966	99	14	14	-15	294	38	99	15	1	-13	420	466	99
14	2	-20	265	13	99	14	4	5	424	273	99	14	8	3	226	65	99	14	14	-14	529	552	99	15	1	-12	1055	1020	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
15	1	-11	910	926	99	15	5	-14	476	450	99	15	9	-14	386	347	99	15	13	-6	231	208	99	16	2	-21	347	330	99
15	1	-10	1951	1989	99	15	5	-13	485	435	99	15	9	-13	183	98	99	15	13	-5	365	287	99	16	2	-20	537	442	99
15	1	-9	1389	1333	99	15	5	-12	412	284	99	15	9	-12	671	679	99	15	13	-4	223	184	99	16	2	-19	410	396	99
15	1	-8	2432	2404	99	15	5	-11	1618	1720	99	15	9	-11	710	741	99	15	13	-3	841	780	99	16	2	-18	-245	456	99
15	1	-7	822	851	99	15	5	-10	491	577	99	15	9	-10	1450	1357	99	15	13	-2	598	589	99	16	2	-17	331	365	99
15	1	-6	1036	1042	99	15	5	-9	1716	1688	99	15	9	-9	1073	1120	99	15	13	-1	573	583	99	16	2	-16	287	313	99
15	1	-5	460	476	99	15	5	-8	827	860	99	15	9	-8	1129	1169	99	15	13	0	550	568	99	16	2	-15	164	122	99
15	1	-4	-80	341	99	15	5	-7	1243	1283	99	15	9	-7	915	868	99	15	13	1	132	412	99	16	2	-14	-277	86	99
15	1	-3	-200	122	99	15	5	-6	224	208	99	15	9	-6	530	637	99	15	13	2	459	287	99	16	2	-13	986	938	99
15	1	-2	1524	1499	99	15	5	-5	336	297	99	15	9	-5	478	591	99	15	13	3	-193	11	99	16	2	-12	886	837	99
15	1	-1	559	656	99	15	5	-4	78	209	99	15	9	-4	259	139	99	15	13	4	308	185	99	16	2	-11	2104	2069	99
15	1	0	1331	1366	99	15	5	-3	1573	1643	99	15	9	-3	-261	225	99	15	15	-15	-175	181	99	16	2	-10	1284	1282	99
15	1	1	428	362	99	15	5	-2	993	1049	99	15	9	-2	1111	1059	99	15	15	-14	-197	174	99	16	2	-9	1646	1732	99
15	1	2	427	426	99	15	5	-1	1815	1807	99	15	9	-1	860	819	99	15	15	-13	280	204	99	16	2	-8	522	525	99
15	1	3	256	31	99	15	5	0	981	957	99	15	9	0	774	702	99	15	15	-12	392	243	99	16	2	-7	-83	146	99
15	1	4	197	148	99	15	5	1	745	732	99	15	9	1	307	381	99	15	15	-11	245	304	99	16	2	-6	473	507	99
15	1	5	-243	62	99	15	5	2	-37	205	99	15	9	2	-85	390	99	15	15	-10	695	719	99	16	2	-5	131	361	99
15	1	6	330	359	99	15	5	3	-399	148	99	15	9	3	-40	121	99	15	15	-9	-371	140	99	16	2	-4	953	939	99
15	1	7	-87	244	99	15	5	4	313	344	99	15	9	4	127	46	99	15	15	-8	714	767	99	16	2	-3	1807	1827	99
15	1	8	-56	273	99	15	5	5	365	340	99	15	9	5	-406	109	99	15	15	-7	308	44	99	16	2	-2	1487	1516	99
15	3	-20	-118	84	99	15	5	6	-411	92	99	15	9	6	24	248	99	15	15	-6	641	687	99	16	2	-1	1621	1671	99
15	3	-19	505	406	99	15	5	7	528	545	99	15	11	-18	-184	231	99	15	15	-5	385	431	99	16	2	0	216	254	99
15	3	-18	283	267	99	15	7	-20	244	330	99	15	11	-17	90	406	99	15	15	-4	293	121	99	16	2	1	-28	93	99
15	3	-17	621	611	99	15	7	-19	-492	99	99	15	11	-16	312	104	99	15	15	-3	315	421	99	16	2	2	38	267	99
15	3	-16	257	352	99	15	7	-18	489	499	99	15	11	-15	212	326	99	15	15	-2	336	525	99	16	2	3	335	89	99
15	3	-15	866	828	99	15	7	-17	178	219	99	15	11	-14	138	108	99	15	15	-1	-489	64	99	16	2	4	507	348	99
15	3	-14	187	10	99	15	7	-16	898	880	99	15	11	-13	182	23	99	15	15	0	368	371	99	16	2	5	-337	362	99
15	3	-13	259	133	99	15	7	-15	-258	25	99	15	11	-12	-194	80	99	15	15	1	212	13	99	16	2	6	264	428	99
15	3	-12	267	81	99	15	7	-14	638	620	99	15	11	-11	881	800	99	15	15	2	-373	258	99	16	2	7	-472	389	99
15	3	-11	1661	1746	99	15	7	-13	269	414	99	15	11	-10	-253	98	99	15	17	-12	142	142	99	16	4	-20	-276	10	99
15	3	-10	433	466	99	15	7	-12	595	597	99	15	11	-9	1008	1028	99	15	17	-11	303	302	99	16	4	-19	574	574	99
15	3	-9	1593	1603	99	15	7	-11	859	820	99	15	11	-8	-381	39	99	15	17	-10	322	358	99	16	4	-18	-440	37	99
15	3	-8	448	399	99	15	7	-10	1449	1431	99	15	11	-7	663	561	99	15	17	-9	191	353	99	16	4	-17	493	510	99
15	3	-7	1117	1127	99	15	7	-9	542	504	99	15	11	-6	-115	93	99	15	17	-8	364	342	99	16	4	-16	318	236	99
15	3	-6	184	31	99	15	7	-8	1908	1876	99	15	11	-5	-197	45	99	15	17	-7	247	351	99	16	4	-15	208	64	99
15	3	-5	191	34	99	15	7	-7	269	128	99	15	11	-4	599	728	99	15	17	-6	213	99	99	16	4	-14	-201	74	99
15	3	-4	508	542	99	15	7	-6	1316	1389	99	15	11	-3	964	991	99	15	17	-5	412	403	99	16	4	-13	1041	990	99
15	3	-3	1578	1579	99	15	7	-5	-235	100	99	15	11	-2	428	311	99	15	17	-4	-109	267	99	16	4	-12	233	211	99
15	3	-2	732	753	99	15	7	-4	205	307	99	15	11	-1	1317	1292	99	15	17	-3	147	15	99	16	4	-11	2375	2524	99
15	3	-1	2616	2536	99	15	7	-3	814	791	99	15	11	0	263	119	99	15	17	-2	338	299	99	16	4	-10	257	62	99
15	3	0	326	323	99	15	7	-2	1264	1250	99	15	11	1	710	701	99	15	17	-1	-283	272	99	16	4	-9	1066	1014	99
15	3	1	856	831	99	15	7	-1	171	211	99	15	11	2	-423	106	99	16	0	-20	604	565	99	16	4	-8	62	161	99
15	3	2	-414	209	99	15	7	0	989	993	99	15	11	3	312	183	99	16	0	-18	557	557	99	16	4	-7	393	425	99
15	3	3	341	218	99	15	7	1	146	33	99	15	11	4	-257	224	99	16	0	-16	-214	326	99	16	4	-6	189	241	99
15	3	4	-180	30	99	15	7	2	193	420	99	15	11	5	-78	200	99	16	0	-14	497	461	99	16	4	-5	1211	1208	99
15	3	5	-371	192	99	15	7	3	-241	89	99	15	13	-16	-102	307	99	16	0	-12	1963	1998	99	16	4	-4	-245	251	99
15	3	6	-154	123	99	15	7	4	204	158	99	15	13	-15	144	46	99	16	0	-10	2750	2715	99	16	4	-3	2636	2610	99
15	3	7	506	647	99	15	7	5	393	322	99	15	13	-14	419	375	99	16	0	-8	745	612	99	16	4	-2	470	473	99
15	3	8	-194	105	99	15	7	6	361	277	99	15	13	-13	-146	225	99	16	0	-6	327	269	99	16	4	-1	1976	1975	99
15	5	-20	60	127	99	15	7	7	331	115	99	15	13	-12	177	33	99	16	0	-4	728	766	99	16	4	0	-177	54	99
15	5	-19	-342	379	99	15	9	-19	-336	166	99	15	13	-11	723	687	99	16	0	-2	2450	2435	99	16	4	1	-421	109	99
15	5	-18	-313	165	99	15	9	-18	151	408	99	15	13	-10	-346	377	99	16	0	0	805	763	99	16	4	2	165	58	99
15	5	-17	634	622	99	15	9	-17	-534	302	99	15	13	-9	871	878	99	16	0	2	268	203	99	16	4	3	223	217	99
15	5	-16	499	562	99	15	9	-16	290	576	99	15	13	-8	535	505	99	16	0	4	481	311	99	16	4	4	-128	147	99
15	5	-15	568	458	99	15	9	-15	520	405	99	15	13	-7	462	458	99	16	0	6	-251	486	99	16	4	5	633	697	99
16	4	6	340	75	99	16	10	-18	-374	253	99	16	14	-6	-83	172	99	17	1	6	-202	226	99	17	5	6	114	196	99
16	4	7	636	603	99	16	10	-17	269	275	99	16	14	-5	742	727	99	17	3	-21	210	485	99	17	7	-20	315	410	99
16	6	-20	229	432	99	16	10	-16	-128	72	99	16	14	-4	242	293	99	17	3	-20	148	304	99	17	7	-19	-37	63	99
16	6	-19	449	304	99	16	10	-15	240	29	99	16	14	-3	523	523	99	17	3	-19	378	483	99	17	7	-18	-315	80	99
16	6	-18	292	386	99	16	10	-14	196	83	99	16	14	-2	734	668	99	17	3	-18	242	120	99	17	7	-17	311	183	99
16	6	-17	215	115	99	16	10	-13	553	428	99	16	14	-1	-150	253	99	17	3	-17	-425	58	99	17	7	-16	327	185	99
16	6	-16	497	419	99	16	10	-12	531	486	99	16	14	0	284	294	99	17	3	-16	161	75	99	17	7	-15	402	482	99
16	6	-15	247	363	99	16	10	-11	1321	1246	99	16	14	1	221	54	99	17	3	-15	656	641	99	17	7	-14	796	676	99
16	6	-14	117	146	99	16	10	-10	342	293	99	16	14	2	-400	89	99	17	3	-14	-133	185	99	17	7	-13	677	610	99
16	6	-13	982	963	99	16	10	-9	849	826	99	16	16	-13	89	125	99	17	3	-13	1304	1371	99	17	7	-12	1579	1647	99
16	6	-12	697	733	99	16	10	-8	123	32	99	16	16	-12	276	473	99	17	3	-12	209	101	99	17	7	-11	377	286	99
16	6	-11	1783	1823	99	16	10	-7	-318	198	99	16	16	-11	230	273	99	17	3	-11	2345	2340	99	17	7	-10	1174	1124	99
16	6	-10	1480	1467	99	16	10	-6	425	464	99	16	16	-10	-393	474	99	17	3	-10	206	446	99	17	7	-9	34	74	99
16	6	-9	1060	1058	99	16	10	-5	209	162	99	16	16	-9	333	281	99	17	3	-9	381	366	99	17	7	-8	572	542	99
16	6	-8	528	517	99	16	10	-4	949	981	99	16	16	-8	349	320	99	17	3	-8	242	297	99	17	7	-7	260	282	99
16	6	-7	-212	96	99	16	10	-3	1223	1196	99	16	16	-7	-235	259	99	17	3	-7	851	892	99	17	7	-6	654	654	99
16	6	-6	158	44	99	16	10	-2	548	459	99	16	16	-6	-325	39	99	17	3	-6	728	692	99	17	7	-5	743	747	99
16	6	-5	868	902	99	16	10	-1	999	1036	99	16	16	-5	338	346	99	17	3	-5	1329	1321	99	17	7	-4	1394	1276	99
16	6	-4	258	480	99	16	10	0	279	53	99	16	16	-4	19	421	99	17	3	-4	237	314	99	17	7	-3	386	371	99
16	6	-3	1302	1335	99	16	10	1	-391	277	99	16	16	-3	167	75	99	17	3	-3	1936	2028	99	17	7	-2	1185	1168	99
16	6	-2	1651	1649	99	16	10	2	-111	288	99	16	16	-2	428	336	99	17	3	-2	-146	56	99	17	7	-1	330	235	99
16	6	-1	1082	1082	99	16	10	3	-454	25	99	16	16	-1	283	223	99	17	3	-1	790	834	99	17	7	0	245	140	99
16	6	0	502	413	99	16	10	4	31	345	99	16	16	0	301	148	99	17	3	0	252	72	99	17	7	1	-384	71	99
16	6	1	236	32	99	16	10	5	243	240	99	16	18	-9	238	169	99	17	3	1	-426	256	99	17	7	2	314	317	99
16	6	2	-96	20	99	16	12	-17	305	278	99	16	18	-8	-129	55	99	17	3	2	386	413	99	17	7	3	-108	137	99
16	6	3	315	311	99	16	12	-16	228	218	99	16	18	-7	-338	173	99	17	3	3	266	515	99	17	7	4	251	400	99
16	6	4	-323	126	99	16	12	-15	-105	80	99	16	18	-6	164	213	99	17	3	4	192	331	99	17	7	5	-493	22	99
16	6	5	-296	330	99	16	12	-14	196	230	99	16	18	-5	-303	121	99	17	3	5	573	533	99	17	9	-19	-379	140	99
16	6	6	415	373	99	16	12	-13	490	438	99	17	1	-21	312	250	99	17	3	6	-371	113	99	17	9	-18	-409	159	99
16	8	-19	-120	14	99	16	12	-12	187	93	99	17	1	-20	433	457	99	17	5	-20	-340	311	99	17	9	-17	-83	68	99
16	8	-18	134	403	99	16	12	-11	1103	1090	99	17	1	-19	258	165	99	17	5	-19	297	358	99	17	9	-16	255	213	99
16	8	-17	133	80	99	16	12	-10	446	311	99	17	1	-18	-319	225	99	17	5	-18	367	185	99	17	9	-15	-266	298	99
16	8	-16	186	299	99	16	12	-9	646	674	99	17	1	-17	-204	96	99	17	5	-17	-229	51	99	17	9	-14	512	586	99
16	8	-15	-265	98	99	16	12	-8	250	186	99	17	1	-16	492	415	99	17	5	-16	-334	145	99	17	9	-13	496	468	99
16	8	-14	318	292	99	16	12	-7	173	51	99	17	1	-15	491	485	99	17	5	-15	571	593	99	17	9	-12	777	724	99
16	8	-13	-450	197	99	16	12	-6	222	214	99	17	1	-14	754	787	99	17	5	-14	233	86	99	17	9	-11	1088	1052	99
16	8	-12	1556	1495	99	16	12	-5	706	759	99	17	1	-13	558	630	99	17	5	-13	1282	1271	99	17	9	-10	263	216	99
16	8	-11	202	374	99	16	12	-4	116	209	99	17	1	-12	1580	1563	99	17	5	-12	506	496	99	17	9	-9	279	221	99
16	8	-10	1662	1675	99	16	12	-3	1127	1102	99	17	1	-11	1265	1231	99	17	5	-11	1826	1799	99	17	9	-8	480	380	99
16	8	-9	666	658	99	16	12	-2	504	536	99	17	1	-10	1169	1171	99	17	5	-10	692	720	99	17	9	-7	-356	65	99
16	8	-8	582	569	99	16	12	-1	750	744	99	17	1	-9	196	180	99	17	5	-9	312	136	99	17	9	-6	948	956	99
16	8	-7	-83	175	99	16	12	0	263	265	99	17	1	-8	798	756	99	17	5	-8	-216	359	99	17	9	-5	398	355	99
16	8	-6	-225	125	99	16	12	1	116	228	99	17	1	-7	227	350	99	17	5	-7	790	827	99	17	9	-4	954	961	99
16	8	-5	410	433	99	16	12	2	224	147	99	17	1	-6	1082	1134	99	17	5	-6	-384	166	99	17	9	-3	1037	1009	99
16	8	-4	753	689	99	16	12	3	272	253	99	17	1	-5	505	469	99	17	5	-5	1410	1401	99	17	9	-2	510	428	99
16	8	-3	191	299	99	16	12	4	-179	108	99	17	1	-4	1393	1386	99	17	5	-4	567	502	99	17	9	-1	505	525	99
16	8	-2	1578	1478	99	16	14	-15	328	291	99	17	1	-3	1102	1187	99	17	5	-3	1591	1554	99	17	9	0	259	170	99
16	8	-1	516	486	99	16	14	-14	-245	78	99	17	1	-2	1265	1263	99	17	5	-2	646	649	99	17	9	1	-54	117	99
16	8	0	513	413	99	16	14	-13	587	485	99	17	1	-1	757	699	99	17	5	-1	868	802	99	17	9	2	321	577	99
16	8	1	-435	57	99	16	14	-12	435	436	99	17	1	0	333	210	99	17	5	0	323	142	99	17	9	3	-403	64	99
16	8	2	274	64	99	16	14	-11	640	582	99	17	1	1	187	17	99	17	5	1	264	345	99	17	9	4	-271	346	99
16	8	3	-301	204	99	16	14	-10	681	711	99	17	1	2	393	526	99	17	5	2	248	214	99	17	11	-18	-156	39	99
16	8	4	358	250	99	16	14	-9	95	141	99	17	1	3	338	119	99	17	5	3	274	493	99	17	11	-17	-226	62	99
16	8	5	237	45	99	16	14	-8	-129	310	99	17	1	4	522	542	99	17	5	4	324	350	99	17	11	-16	250	152	99
16	8	6	-286	317	99	16	14	-7	265	75	99	17	1	5	-249	121	99	17	5	5	391	388	99	17	11	-15	-105	313	99

h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2	h	k	l	Fo	Fc	sigF2
17	11	-14	-357	179	99	17	17	-8	188	131	99	18	4	-12	344	349	99	18	8	-8	1310	1268	99	18	14	-15	532	444	99
17	11	-13	738	711	99	17	17	-7	271	51	99	18	4	-11	1243	1208	99	18	8	-7	214	59	99	18	14	-14	361	381	99
17	11	-12	-174	29	99	17	17	-6	-223	404	99	18	4	-10	-228	80	99	18	8	-6	1463	1494	99	18	14	-13	173	188	99
17	11	-11	1153	1171	99	17	17	-5	319	194	99	18	4	-9	826	843	99	18	8	-5	93	318	99	18	14	-12	517	556	99
17	11	-10	321	272	99	17	17	-4	-314	290	99	18	4	-8	91	44	99	18	8	-4	1136	1082	99	18	14	-11	202	113	99
17	11	-9	-146	266	99	18	0	-20	256	261	99	18	4	-7	938	895	99	18	8	-3	463	497	99	18	14	-10	250	71	99
17	11	-8	-225	227	99	18	0	-18	246	382	99	18	4	-6	-221	131	99	18	8	-2	166	107	99	18	14	-9	-72	136	99
17	11	-7	446	446	99	18	0	-16	1005	965	99	18	4	-5	1380	1411	99	18	8	-1	285	265	99	18	14	-8	71	290	99
17	11	-6	492	513	99	18	0	-14	1075	1069	99	18	4	-4	257	276	99	18	8	0	533	522	99	18	14	-7	614	586	99
17	11	-5	990	981	99	18	0	-12	990	969	99	18	4	-3	547	606	99	18	8	1	291	99	99	18	14	-6	345	472	99
17	11	-4	296	46	99	18	0	-10	577	544	99	18	4	-2	308	281	99	18	8	2	691	649	99	18	14	-5	-269	411	99
17	11	-3	882	964	99	18	0	-8	1638	1635	99	18	4	-1	309	168	99	18	8	3	-254	106	99	18	14	-4	326	487	99
17	11	-2	364	332	99	18	0	-6	1946	1875	99	18	4	0	-122	62	99	18	8	4	210	331	99	18	14	-3	-300	47	99
17	11	-1	474	445	99	18	0	-4	1609	1599	99	18	4	1	797	730	99	18	10	-18	-230	75	99	18	14	-2	-326	175	99
17	11	0	318	245	99	18	0	-2	-321	54	99	18	4	2	325	16	99	18	10	-17	271	272	99	18	14	-1	-338	55	99
17	11	1	-175	143	99	18	0	0	727	692	99	18	4	3	636	676	99	18	10	-16	282	331	99	18	14	0	-163	171	99
17	11	2	-203	332	99	18	0	2	785	826	99	18	4	4	166	75	99	18	10	-15	467	438	99	18	16	-12	269	72	99
17	11	3	399	382	99	18	0	4	297	497	99	18	4	5	-471	190	99	18	10	-14	514	452	99	18	16	-11	-341	253	99
17	13	-16	296	48	99	18	0	6	341	45	99	18	6	-20	182	230	99	18	10	-13	768	772	99	18	16	-10	90	144	99
17	13	-15	419	421	99	18	2	-21	-262	332	99	18	6	-19	-370	12	99	18	10	-12	-271	62	99	18	16	-9	184	63	99
17	13	-14	-469	44	99	18	2	-20	332	240	99	18	6	-18	94	242	99	18	10	-11	778	771	99	18	16	-8	460	475	99
17	13	-13	741	674	99	18	2	-19	-184	52	99	18	6	-17	231	311	99	18	10	-10	331	360	99	18	16	-7	-367	36	99
17	13	-12	514	517	99	18	2	-18	-149	161	99	18	6	-16	-69	281	99	18	10	-9	180	294	99	18	16	-6	618	610	99
17	13	-11	582	597	99	18	2	-17	444	460	99	18	6	-15	745	745	99	18	10	-8	584	582	99	18	16	-5	-248	188	99
17	13	-10	320	181	99	18	2	-16	570	534	99	18	6	-14	716	774	99	18	10	-7	629	617	99	18	16	-4	274	330	99
17	13	-9	-195	186	99	18	2	-15	806	790	99	18	6	-13	816	787	99	18	10	-6	781	740	99	18	16	-3	294	293	99
17	13	-8	159	41	99	18	2	-14	741	769	99	18	6	-12	1191	1221	99	18	10	-5	1024	1033	99	19	1	-21	-609	36	99
17	13	-7	468	408	99	18	2	-13	1110	1176	99	18	6	-11	-184	105	99	18	10	-4	224	130	99	19	1	-20	-287	27	99
17	13	-6	213	51	99	18	2	-12	494	528	99	18	6	-10	-141	51	99	18	10	-3	600	632	99	19	1	-19	231	217	99
17	13	-5	935	914	99	18	2	-11	903	858	99	18	6	-9	605	554	99	18	10	-2	213	372	99	19	1	-18	709	745	99
17	13	-4	338	320	99	18	2	-10	-324	197	99	18	6	-8	1138	1073	99	18	10	-1	-240	149	99	19	1	-17	145	233	99
17	13	-3	585	515	99	18	2	-9	781	732	99	18	6	-7	1199	1137	99	18	10	0	550	587	99	19	1	-16	779	803	99
17	13	-2	374	497	99	18	2	-8	1217	1291	99	18	6	-6	659	671	99	18	10	1	157	268	99	19	1	-15	215	322	99
17	13	-1	425	310	99	18	2	-7	1129	1212	99	18	6	-5	1072	1049	99	18	10	2	316	443	99	19	1	-14	827	840	99
17	13	0	-402	57	99	18	2	-6	1203	1221	99	18	6	-4	934	955	99	18	10	3	441	352	99	19	1	-13	244	338	99
17	13	1	218	140	99	18	2	-5	1532	1509	99	18	6	-3	402	412	99	18	12	-17	249	225	99	19	1	-12	65	40	99
17	13	2	-99	88	99	18	2	-4	565	427	99	18	6	-2	265	160	99	18	12	-16	209	69	99	19	1	-11	-27	159	99
17	15	-14	117	307	99	18	2	-3	1010	998	99	18	6	-1	257	91	99	18	12	-15	566	586	99	19	1	-10	1459	1402	99
17	15	-13	-366	193	99	18	2	-2	418	261	99	18	6	0	295	471	99	18	12	-14	249	32	99	19	1	-9	851	915	99
17	15	-12	548	635	99	18	2	-1	-345	41	99	18	6	1	-234	325	99	18	12	-13	755	723	99	19	1	-8	1812	1835	99
17	15	-11	189	128	99	18	2	0	615	569	99	18	6	2	583	617	99	18	12	-12	269	501	99	19	1	-7	900	827	99
17	15	-10	358	354	99	18	2	1	84	290	99	18	6	3	-648	184	99	18	12	-11	276	355	99	19	1	-6	1651	1618	99
17	15	-9	262	47	99	18	2	2	699	753	99	18	6	4	-95	390	99	18	12	-10	225	203	99	19	1	-5	756	732	99
17	15	-8	-184	54	99	18	2	3	373	449	99	18	6	5	-147	52	99	18	12	-9	-105	187	99	19	1	-4	494	448	99
17	15	-7	154	281	99	18	2	4	403	385	99	18	8	-19	-363	81	99	18	12	-8	-444	118	99	19	1	-3	268	28	99
17	15	-6	307	411	99	18	2	5	-331	128	99	18	8	-18	-291	321	99	18	12	-7	728	702	99	19	1	-2	663	692	99
17	15	-5	153	406	99	18	2	6	-24	43	99	18	8	-17	113	12	99	18	12	-6	393	84	99	19	1	-1	-384	86	99
17	15	-4	245	579	99	18	4	-20	178	95	99	18	8	-16	670	597	99	18	12	-5	772	798	99	19	1	0	878	882	99
17	15	-3	328	68	99	18	4	-19	176	151	99	18	8	-15	266	35	99	18	12	-4	-113	282	99	19	1	1	-509	281	99
17	15	-2	154	339	99	18	4	-18	-249	56	99	18	8	-14	844	875	99	18	12	-3	241	340	99	19	1	2	778	802	99
17	15	-1	117	69	99	18	4	-17	111	427	99	18	8	-13	-163	235	99	18	12	-2	353	340	99	19	1	3	333	153	99
17	15	0	-352	34	99	18	4	-16	-282	86	99	18	8	-12	458	575	99	18	12	-1	-261	80	99	19	1	4	323	228	99
17	17	-11	297	438	99	18	4	-15	981	922	99	18	8	-11	431	411	99	18	12	0	250	72	99	19	1	5	-345	8	99
17	17	-10	81	25	99	18	4	-14	255	80	99	18	8	-10	538	433	99	18	12	1	347	388	99	19	3	-21	301	259	99
17	17	-9	-274	81	99	18	4	-13	1359	1417	99	18	8	-9	306	196	99	18	12	2	41	44	99	19	3	-20	191	131	99
19	3	-19	372	317	99	19	7	-15	-340	162	99	19	11	-5	352	431	99	20	2	-14	481	398	99	20	6	-8	1218	1193	99
19	3	-18	75	230	99	19	7	-14	817	794	99	19	11	-4	-420	217	99	20	2	-13	181	54	99	20	6	-7	388	254	99
19	3	-17	698	712	99	19	7	-13	72	179	99	19	11	-3	-352	28	99	20	2	-12	578	575	99	20	6	-6	363	326	99
19	3	-16	146	419	99	19	7	-12	212	51	99	19	11	-2	350	440	99	20	2	-11	848	819	99	20	6	-5	-260	321	99
19	3	-15	774	786	99	19	7	-11	490	331	99	19	11	-1	378	340	99	20	2	-10	937	907	99	20	6	-4	175	81	99
19	3	-14	485	489	99	19	7	-10	1247	1272	99	19	11	0	151	247	99	20	2	-9	1166	1126	99	20	6	-3	582	411	99
19	3	-13	1077	1071	99	19	7	-9	512	491	99	19	11	1	556	404	99	20	2	-8	965	964	99	20	6	-2	255	380	99
19	3	-12	101	84	99	19	7	-8	1633	1555	99	19	13	-16	173	121	99	20	2	-7	670	632	99	20	6	-1	480	507	99
19	3	-11	-430	123	99	19	7	-7	534	535	99	19	13	-15	390	469	99	20	2	-6	402	178	99	20	6	0	731	740	99
19	3	-10	218	347	99	19	7	-6	1139	1176	99	19	13	-14	338	387	99	20	2	-5	-450	169	99	20	6	1	337	202	99
19	3	-9	1319	1348	99	19	7	-5	180	19	99	19	13	-13	-210	69	99	20	2	-4	-81	210	99	20	6	2	-86	273	99
19	3	-8	647	623	99	19	7	-4	627	577	99	19	13	-12	599	413	99	20	2	-3	154	393	99	20	6	3	-405	60	99
19	3	-7	966	976	99	19	7	-3	272	153	99	19	13	-11	-364	218	99	20	2	-2	668	633	99	20	8	-19	199	53	99
19	3	-6	403	341	99	19	7	-2	247	365	99	19	13	-10	-275	13	99	20	2	-1	540	553	99	20	8	-18	209	603	99
19	3	-5	828	848	99	19	7	-1	260	322	99	19	13	-9	436	435	99	20	2	0	711	635	99	20	8	-17	239	166	99
19	3	-4	180	163	99	19	7	0	786	757	99	19	13	-8	61	241	99	20	2	1	-115	531	99	20	8	-16	254	336	99
19	3	-3	-483	27	99	19	7	1	-207	96	99	19	13	-7	471	569	99	20	2	2	-343	181	99	20	8	-15	327	158	99
19	3	-2	442	431	99	19	7	2	650	629	99	19	13	-6	327	305	99	20	2	3	480	73	99	20	8	-14	309	110	99
19	3	-1	445	503	99	19	7	3	-267	8	99	19	13	-5	-385	212	99	20	2	4	248	61	99	20	8	-13	194	194	99
19	3	0	548	462	99	19	7	4	341	189	99	19	13	-4	-218	225	99	20	4	-20	-252	43	99	20	8	-12	727	669	99
19	3	1	687	766	99	19	9	-19	-261	47	99	19	13	-3	-84	155	99	20	4	-19	528	605	99	20	8	-11	-143	104	99
19	3	2	282	274	99	19	9	-18	-59	445	99	19	13	-2	-40	54	99	20	4	-18	303	127	99	20	8	-10	1394	1388	99
19	3	3	114	321	99	19	9	-17	-328	234	99	19	13	-1	295	277	99	20	4	-17	709	729	99	20	8	-9	122	204	99
19	3	4	286	56	99	19	9	-16	592	563	99	19	13	0	225	221	99	20	4	-16	179	26	99	20	8	-8	1479	1393	99
19	3	5	63	42	99	19	9	-15	136	184	99	19	15	-13	183	267	99	20	4	-15	-141	477	99	20	8	-7	315	543	99
19	5	-20	-229	11	99	19	9	-14	486	472	99	19	15	-12	-391	53	99	20	4	-14	261	305	99	20	8	-6	-46	280	99
19	5	-19	313	225	99	19	9	-13	458	458	99	19	15	-11	290	204	99	20	4	-13	232	295	99	20	8	-5	-382	180	99
19	5	-18	-297	325	99	19	9	-12	-522	182	99	19	15	-10	331	451	99	20	4	-12	203	312	99	20	8	-4	149	279	99
19	5	-17	624	599	99	19	9	-11	-235	114	99	19	15	-9	211	69	99	20	4	-11	896	894	99	20	8	-3	-214	140	99
19	5	-16	394	237	99	19	9	-10	851	785	99	19	15	-8	692	716	99	20	4	-10	-386	57	99	20	8	-2	696	712	99
19	5	-15	852	836	99	19	9	-9	691	610	99	19	15	-7	292	57	99	20	4	-9	1357	1264	99	20	8	-1	-530	20	99
19	5	-14	586	645	99	19	9	-8	1229	1228	99	19	15	-6	552	460	99	20	4	-8	-122	104	99	20	8	0	763	765	99
19	5	-13	750	771	99	19	9	-7	742	694	99	19	15	-5	264	111	99	20	4	-7	279	476	99	20	8	1	308	346	99
19	5	-12	775	706	99	19	9	-6	782	798	99	19	15	-4	190	249	99	20	4	-6	-298	94	99	20	8	2	401	277	99
19	5	-11	277	307	99	19	9	-5	724	727	99	19	15	-3	220	222	99	20	4	-5	288	150	99	20	10	-18	251	356	99
19	5	-10	263	329	99	19	9	-4	-126	22	99	20	0	-20	270	345	99	20	4	-4	305	36	99	20	10	-17	-452	339	99
19	5	-9	979	984	99	19	9	-3	-404	258	99	20	0	-18	918	887	99	20	4	-3	450	528	99	20	10	-16	433	373	99
19	5	-8	552	531	99	19	9	-2	500	491	99	20	0	-16	567	500	99	20	4	-2	-265	148	99	20	10	-15	172	276	99
19	5	-7	993	973	99	19	9	-1	-293	98	99	20	0	-14	296	128	99	20	4	-1	706	677	99	20	10	-14	49	30	99
19	5	-6	142	376	99	19	9	0	637	732	99	20	0	-12	852	872	99	20	4	0	-161	201	99	20	10	-13	233	91	99
19	5	-5	639	773	99	19	9	1	222	332	99	20	0	-10	2066	2029	99	20	4	1	496	430	99	20	10	-12	116	345	99
19	5	-4	65	206	99	19	9	2	354	392	99	20	0	-8	1940	1964	99	20	4	2	-440	84	99	20	10	-11	519	474	99
19	5	-3	-349	147	99	19	9	3	-519	174	99	20	0	-6	784	822	99	20	4	3	330	213	99	20	10	-10	545	550	99
19	5	-2	244	58	99	19	11	-17	334	422	99	20	0	-4	598	535	99	20	6	-20	-213	247	99	20	10	-9	878	888	99
19	5	-1	578	485	99	19	11	-16	289	219	99	20	0	-2	738	731	99	20	6	-19	320	273	99	20	10	-8	542	433	99
19	5	0	251	405	99	19	11	-15	533	598	99	20	0	0	989	1003	99	20	6	-18	657	660	99	20	10	-7	331	526	99
19	5	1	514	590	99	19	11	-14	-545	70	99	20	0	2	113	446	99	20	6	-17	-194	278	99	20	10	-6	313	11	99
19	5	2	378	410	99	19	11	-13	520	531	99	20	0	4	-338	35	99	20	6	-16	300	407	99	20	10	-5	-178	53	99
19	5	3	306	184	99	19	11	-12	363	376	99	20	2	-21	-297	50	99	20	6	-15	-276	48	99	20	10	-4	230	225	99
19	5	4	150	33	99	19	11	-11	263	34	99	20	2	-20	-201	330	99	20	6	-14	352	444	99	20	10	-3	185	176	99
19	7	-20	374	55	99	19	11	-10	456	264	99	20	2	-19	266	440	99	20	6	-13	477	359	99	20	10	-2	505	498	99
19	7	-19	260	138	99	19	11	-9	687	572	99	20	2	-18	712	694	99	20	6	-12	364	443	99	20	10	-1	227	419	99
19	7	-18	576	642	99	19	11	-8	146	275	99	20	2	-17	494	363	99	20	6	-11	797	616	99	20	10	0	222	244	99
19	7	-17	-308	93	99	19	11	-7	653	671	99	20	2	-16	484	554	99	20	6	-10	1193	1054	99	20	10	1	355	350	99
19	7	-16	501	514	99	19	11	-6	222	32	99	20	2	-15	273	267	99	20	6	-9	820	811	99	20	12	-16	296	60	99

20	12	-15	-177	305	99	21	1	3	-28	99	99	21	7	-12	805	804	99	21	13	-12	220	150	99	22	4	-16	-275	30	99
20	12	-14	168	287	99	21	3	-20	-185	140	99	21	7	-11	378	381	99	21	13	-11	476	458	99	22	4	-15	911	944	99
20	12	-13	253	117	99	21	3	-19	584	601	99	21	7	-10	1213	1204	99	21	13	-10	540	514	99	22	4	-14	-210	44	99
20	12	-12	315	302	99	21	3	-18	412	296	99	21	7	-9	158	61	99	21	13	-9	207	155	99	22	4	-13	898	845	99
20	12	-11	71	338	99	21	3	-17	226	364	99	21	7	-8	892	869	99	21	13	-8	513	491	99	22	4	-12	90	96	99
20	12	-10	-345	62	99	21	3	-16	-242	222	99	21	7	-7	569	550	99	21	13	-7	227	193	99	22	4	-11	1061	1068	99
20	12	-9	537	597	99	21	3	-15	-165	155	99	21	7	-6	472	420	99	21	13	-6	132	30	99	22	4	-10	250	356	99
20	12	-8	347	254	99	21	3	-14	467	305	99	21	7	-5	426	423	99	21	13	-5	-239	390	99	22	4	-9	328	374	99
20	12	-7	207	274	99	21	3	-13	561	609	99	21	7	-4	538	425	99	21	13	-4	209	31	99	22	4	-8	-214	197	99
20	12	-6	92	157	99	21	3	-12	422	484	99	21	7	-3	442	409	99	21	13	-3	339	461	99	22	4	-7	913	811	99
20	12	-5	-345	168	99	21	3	-11	1116	1032	99	21	7	-2	799	723	99	21	15	-11	-41	98	99	22	4	-6	296	90	99
20	12	-4	165	109	99	21	3	-10	331	284	99	21	7	-1	-271	85	99	21	15	-10	510	514	99	22	4	-5	966	945	99
20	12	-3	172	405	99	21	3	-9	1065	1068	99	21	7	0	601	557	99	21	15	-9	241	260	99	22	4	-4	213	79	99
20	12	-2	265	136	99	21	3	-8	219	190	99	21	7	1	-180	130	99	21	15	-8	-328	308	99	22	4	-3	332	583	99
20	12	-1	215	409	99	21	3	-7	-162	154	99	21	7	2	-386	24	99	21	15	-7	257	222	99	22	4	-2	385	86	99
20	12	0	-331	198	99	21	3	-6	-241	91	99	21	9	-18	464	401	99	21	15	-6	170	85	99	22	4	-1	106	276	99
20	14	-14	-87	163	99	21	3	-5	803	820	99	21	9	-17	238	251	99	22	0	-20	466	489	99	22	4	0	156	105	99
20	14	-13	-410	373	99	21	3	-4	183	237	99	21	9	-16	191	111	99	22	0	-18	273	142	99	22	4	1	-168	252	99
20	14	-12	259	138	99	21	3	-3	633	608	99	21	9	-15	201	42	99	22	0	-16	149	264	99	22	6	-19	174	75	99
20	14	-11	317	366	99	21	3	-2	-148	205	99	21	9	-14	430	325	99	22	0	-14	765	726	99	22	6	-18	379	333	99
20	14	-10	319	532	99	21	3	-1	656	644	99	21	9	-13	242	184	99	22	0	-12	957	969	99	22	6	-17	282	193	99
20	14	-9	140	207	99	21	3	0	-626	40	99	21	9	-12	685	700	99	22	0	-10	786	770	99	22	6	-16	284	224	99
20	14	-8	610	650	99	21	3	1	-155	67	99	21	9	-11	464	428	99	22	0	-8	255	272	99	22	6	-15	562	573	99
20	14	-7	233	8	99	21	3	2	-274	109	99	21	9	-10	905	860	99	22	0	-6	1044	1072	99	22	6	-14	446	415	99
20	14	-6	-136	208	99	21	3	3	318	346	99	21	9	-9	613	658	99	22	0	-4	700	679	99	22	6	-13	579	570	99
20	14	-5	298	164	99	21	5	-20	293	283	99	21	9	-8	372	366	99	22	0	-2	675	700	99	22	6	-12	643	599	99
20	14	-4	-228	36	99	21	5	-19	453	489	99	21	9	-7	-142	178	99	22	0	0	-352	137	99	22	6	-11	638	478	99
20	14	-3	171	325	99	21	5	-18	457	431	99	21	9	-6	315	299	99	22	0	2	-49	216	99	22	6	-10	788	812	99
20	16	-9	346	267	99	21	5	-17	274	301	99	21	9	-5	301	239	99	22	2	-20	135	290	99	22	6	-9	193	178	99
20	16	-8	394	482	99	21	5	-16	-69	267	99	21	9	-4	456	478	99	22	2	-19	222	254	99	22	6	-8	-304	219	99
20	16	-7	207	258	99	21	5	-15	287	414	99	21	9	-3	247	216	99	22	2	-18	268	266	99	22	6	-7	694	796	99
21	1	-21	-146	42	99	21	5	-14	-257	25	99	21	9	-2	405	500	99	22	2	-17	207	32	99	22	6	-6	685	579	99
21	1	-20	528	519	99	21	5	-13	660	645	99	21	9	-1	448	433	99	22	2	-16	270	184	99	22	6	-5	815	793	99
21	1	-19	147	133	99	21	5	-12	425	425	99	21	9	0	-56	229	99	22	2	-15	420	522	99	22	6	-4	288	239	99
21	1	-18	663	686	99	21	5	-11	1007	978	99	21	9	1	-470	277	99	22	2	-14	758	703	99	22	6	-3	519	493	99
21	1	-17	-261	61	99	21	5	-10	534	590	99	21	11	-17	206	305	99	22	2	-13	714	689	99	22	6	-2	492	453	99
21	1	-16	189	152	99	21	5	-9	868	816	99	21	11	-16	-156	28	99	22	2	-12	760	725	99	22	6	-1	200	120	99
21	1	-15	-193	195	99	21	5	-8	660	707	99	21	11	-15	-284	29	99	22	2	-11	627	599	99	22	6	0	95	80	99
21	1	-14	284	390	99	21	5	-7	194	299	99	21	11	-14	54	229	99	22	2	-10	603	614	99	22	6	1	237	146	99
21	1	-13	389	352	99	21	5	-6	-160	62	99	21	11	-13	276	370	99	22	2	-9	321	295	99	22	8	-19	-330	60	99
21	1	-12	1151	1120	99	21	5	-5	826	857	99	21	11	-12	-77	257	99	22	2	-8	353	229	99	22	8	-18	108	238	99
21	1	-11	579	536	99	21	5	-4	-282	97	99	21	11	-11	635	556	99	22	2	-7	875	851	99	22	8	-17	-273	133	99
21	1	-10	1386	1373	99	21	5	-3	701	662	99	21	11	-10	-286	175	99	22	2	-6	-98	486	99	22	8	-16	257	245	99
21	1	-9	549	491	99	21	5	-2	269	176	99	21	11	-9	546	604	99	22	2	-5	804	776	99	22	8	-15	-242	28	99
21	1	-8	1045	986	99	21	5	-1	594	543	99	21	11	-8	255	177	99	22	2	-4	378	351	99	22	8	-14	465	501	99
21	1	-7	-109	213	99	21	5	0	359	382	99	21	11	-7	238	27	99	22	2	-3	624	577	99	22	8	-13	-413	35	99
21	1	-6	497	513	99	21	5	1	257	27	99	21	11	-6	283	97	99	22	2	-2	-450	237	99	22	8	-12	675	726	99
21	1	-5	698	654	99	21	5	2	-25	35	99	21	11	-5	267	363	99	22	2	-1	263	386	99	22	8	-11	272	243	99
21	1	-4	637	658	99	21	7	-19	-436	24	99	21	11	-4	-492	167	99	22	2	0	179	64	99	22	8	-10	293	527	99
21	1	-3	167	249	99	21	7	-18	508	540	99	21	11	-3	464	463	99	22	2	1	-140	146	99	22	8	-9	245	424	99
21	1	-2	774	765	99	21	7	-17	-324	72	99	21	11	-2	226	87	99	22	2	2	322	171	99	22	8	-8	168	221	99
21	1	-1	468	430	99	21	7	-16	-147	65	99	21	11	-1	-403	347	99	22	4	-20	0	97	99	22	8	-7	225	36	99
21	1	0	660	597	99	21	7	-15	263	304	99	21	13	-15	105	257	99	22	4	-19	360	405	99	22	8	-6	740	668	99
21	1	1	255	189	99	21	7	-14	62	272	99	21	13	-14	-220	61	99	22	4	-18	81	48	99	22	8	-5	314	14	99
21	1	2	-427	63	99	21	7	-13	361	349	99	21	13	-13	501	452	99	22	4	-17	-205	82	99	22	8	-4	554	540	99
22	8	-3	281	105	99	23	1	-7	520	535	99	23	7	-15	279	217	99	24	0	-18	316	355	99	24	6	-14	-89	257	99
22	8	-2	486	419	99	23	1	-6	659	681	99	23	7	-14	409	408	99	24	0	-16	734	661	99	24	6	-13	-328	32	99
22	8	-1	-256	226	99	23	1	-5	65	372	99	23	7	-13	-130	81	99	24	0	-14	-236	245	99	24	6	-12	98	225	99
22	8	0	252	50	99	23	1	-4	318	343	99	23	7	-12	422	459	99	24	0	-12	286	101	99	24	6	-11	442	374	99
22	10	-17	262	112	99	23	1	-3	121	240	99	23	7	-11	273	288	99	24	0	-10	777	732	99	24	6	-10	-308	139	99
22	10	-16	129	176	99	23	1	-2	-268	72	99	23	7	-10	201	123	99	24	0	-8	946	871	99	24	6	-9	456	559	99
22	10	-15	404	303	99	23	1	-1	-429	10	99	23	7	-9	433	427	99	24	0	-6	355	469	99	24	6	-8	643	670	99
22	10	-14	316	372	99	23	1	0	439	297	99	23	7	-8	738	722	99	24	0	-4	238	30	99	24	6	-7	401	483	99
22	10	-13	395	391	99	23	1	1	238	154	99	23	7	-7	311	282	99	24	0	-2	406	452	99	24	6	-6	466	442	99
22	10	-12	412	427	99	23	3	-20	-116	56	99	23	7	-6	668	670	99	24	0	0	428	435	99	24	6	-5	306	212	99
22	10	-11	449	514	99	23	3	-19	226	98	99	23	7	-5	-392	294	99	24	2	-20	279	44	99	24	6	-4	197	74	99
22	10	-10	-276	199	99	23	3	-18	178	118	99	23	7	-4	150	354	99	24	2	-19	-123	52	99	24	6	-3	256	197	99
22	10	-9	131	202	99	23	3	-17	550	535	99	23	7	-3	152	62	99	24	2	-18	379	399	99	24	6	-2	-303	108	99
22	10	-8	-203	145	99	23	3	-16	201	289	99	23	7	-2	233	146	99	24	2	-17	589	571	99	24	6	-1	245	191	99
22	10	-7	363	389	99	23	3	-15	1049	1043	99	23	7	-1	250	95	99	24	2	-16	300	486	99	24	8	-18	271	310	99
22	10	-6	281	216	99	23	3	-14	178	302	99	23	9	-18	-255	110	99	24	2	-15	651	588	99	24	8	-17	-279	29	99
22	10	-5	-506	459	99	23	3	-13	747	644	99	23	9	-17	-76	47	99	24	2	-14	103	276	99	24	8	-16	276	449	99
22	10	-4	271	239	99	23	3	-12	375	182	99	23	9	-16	323	388	99	24	2	-13	206	153	99	24	8	-15	-58	111	99
22	10	-3	471	452	99	23	3	-11	712	697	99	23	9	-15	-221	310	99	24	2	-12	181	45	99	24	8	-14	337	157	99
22	10	-2	-143	36	99	23	3	-10	162	50	99	23	9	-14	230	408	99	24	2	-11	-188	35	99	24	8	-13	-219	47	99
22	10	-1	-436	238	99	23	3	-9	355	355	99	23	9	-13	-352	134	99	24	2	-10	466	447	99	24	8	-12	-309	109	99
22	12	-16	-203	84	99	23	3	-8	-225	64	99	23	9	-12	131	284	99	24	2	-9	636	658	99	24	8	-11	-334	215	99
22	12	-15	193	453	99	23	3	-7	1139	1146	99	23	9	-11	-43	311	99	24	2	-8	643	655	99	24	8	-10	531	508	99
22	12	-14	-328	12	99	23	3	-6	298	189	99	23	9	-10	155	160	99	24	2	-7	723	708	99	24	8	-9	-274	101	99
22	12	-13	654	581	99	23	3	-5	664	703	99	23	9	-9	257	126	99	24	2	-6	416	292	99	24	8	-8	309	656	99
22	12	-12	-340	134	99	23	3	-4	268	28	99	23	9	-8	375	439	99	24	2	-5	438	362	99	24	8	-7	306	132	99
22	12	-11	623	530	99	23	3	-3	208	416	99	23	9	-7	501	443	99	24	2	-4	186	54	99	24	8	-6	251	400	99
22	12	-10	316	467	99	23	3	-2	259	121	99	23	9	-6	-402	448	99	24	2	-3	179	9	99	24	8	-5	193	184	99
22	12	-9	233	20	99	23	3	-1	285	37	99	23	9	-5	220	346	99	24	2	-2	188	250	99	24	8	-4	-135	105	99
22	12	-8	271	259	99	23	3	0	-59	123	99	23	9	-4	210	145	99	24	2	-1	-69	207	99	24	8	-3	-249	125	99
22	12	-7	-225	342	99	23	3	1	122	257	99	23	9	-3	183	337	99	24	2	0	-208	228	99	24	8	-2	261	281	99
22	12	-6	309	53	99	23	5	-19	230	58	99	23	9	-2	262	108	99	24	4	-19	320	323	99	24	10	-16	-221	240	99
22	12	-5	253	457	99	23	5	-18	196	12	99	23	11	-16	245	120	99	24	4	-18	134	19	99	24	10	-15	431	423	99
22	12	-4	-379	53	99	23	5	-17	587	534	99	23	11	-15	570	560	99	24	4	-17	840	851	99	24	10	-14	-119	158	99
22	12	-3	194	386	99	23	5	-16	403	461	99	23	11	-14	-252	119	99	24	4	-16	364	170	99	24	10	-13	-157	257	99
22	14	-12	363	379	99	23	5	-15	818	852	99	23	11	-13	520	557	99	24	4	-15	801	818	99	24	10	-12	119	259	99
22	14	-11	158	51	99	23	5	-14	68	305	99	23	11	-12	-144	73	99	24	4	-14	-397	37	99	24	10	-11	-75	158	99
22	14	-10	336	401	99	23	5	-13	652	591	99	23	11	-11	158	426	99	24	4	-13	458	338	99	24	10	-10	426	454	99
22	14	-9	351	365	99	23	5	-12	365	402	99	23	11	-10	442	349	99	24	4	-12	194	161	99	24	10	-9	225	412	99
22	14	-8	-404	49	99	23	5	-11	416	404	99	23	11	-9	-264	267	99	24	4	-11	91	168	99	24	10	-8	210	273	99
22	14	-7	261	299	99	23	5	-10	588	534	99	23	11	-8	56	132	99	24	4	-10	225	204	99	24	10	-7	546	479	99
22	14	-6	-191	172	99	23	5	-9	512	545	99	23	11	-7	545	528	99	24	4	-9	872	885	99	24	10	-6	242	90	99
23	1	-20	-59	205	99	23	5	-8	222	128	99	23	11	-6	191	26	99	24	4	-8	173	129	99	24	10	-5	318	296	99
23	1	-19	-329	106	99	23	5	-7	1006	939	99	23	11	-5	424	449	99	24	4	-7	862	875	99	24	10	-4	-188	174	99
23	1	-18	214	65	99	23	5	-6	253	347	99	23	11	-4	170	42	99	24	4	-6	133	98	99	24	12	-14	-263	149	99
23	1	-17	-207	127	99	23	5	-5	716	703	99	23	11	-3	249	288	99	24	4	-5	291	464	99	24	12	-13	114	243	99
23	1	-16	498	571	99	23	5	-4	-128	108	99	23	13	-13	226	344	99	24	4	-4	-312	102	99	24	12	-12	272	298	99
23	1	-15	297	334	99	23	5	-3	-120	285	99	23	13	-12	195	391	99	24	4	-3	-385	19	99	24	12	-11	264	153	99
23	1	-14	663	638	99	23	5	-2	252	192	99	23	13	-11	303	5	99	24	4	-2	-419	100	99	24	12	-10	-139	187	99
23	1	-13	171	156	99	23	5	-1	242	97	99	23	13	-10	258	308	99	24	4	-1	-299	208	99	24	12	-9	271	424	99
23	1	-12	465	454	99	23	5	0	-379	63	99	23	13	-9	-143	390	99	24	5	-19	233	150	99	24	12	-8	240	96	99
23	1	-11	95	113	99	23	7	-19	-438	44	99	23	13	-8	-239	107	99	24	6	-18	251	350	99	24	12	-7	422	449	99
23	1	-10	173	26	99	23	7	-18	-349	29	99	23	13	-7	185	392	99	24	6	-17	265	323	99	25	1	-20	-144	196	99
23	1	-9	163	255	99	23	7	-17	190	190	99	23	13	-6	230	174	99	24	6	-16	576	593	99	25	1	-19	-227	116	99
23	1	-8	816	812	99	23	7	-16	430	500	99	24	0	-20	269	14	99	24	6	-15	376	377	99	25	1	-18	540	544	99

h	k	l	Fo	Fc	sigF2
25	1	-17	234	296	99
25	1	-16	376	372	99
25	1	-15	181	121	99
25	1	-14	-75	95	99
25	1	-13	241	69	99
25	1	-12	543	532	99
25	1	-11	53	154	99
25	1	-10	794	801	99
25	1	-9	-311	244	99
25	1	-8	623	573	99
25	1	-7	213	288	99
25	1	-6	161	118	99
25	1	-5	-221	9	99
25	1	-4	307	352	99
25	1	-3	155	216	99
25	1	-2	482	469	99
25	1	-1	272	113	99
25	3	-19	151	432	99
25	3	-18	282	213	99
25	3	-17	642	700	99
25	3	-16	-67	45	99
25	3	-15	395	379	99
25	3	-14	198	32	99
25	3	-13	-195	97	99
25	3	-12	-178	296	99
25	3	-11	432	392	99
25	3	-10	484	443	99
25	3	-9	774	792	99
25	3	-8	252	249	99
25	3	-7	500	485	99
25	3	-6	-180	58	99
25	3	-5	173	145	99
25	3	-4	291	112	99
25	3	-3	-301	283	99
25	3	-2	-151	120	99
25	5	-19	359	325	99
25	5	-18	257	317	99
25	5	-17	478	489	99
25	5	-16	113	288	99
25	5	-15	404	303	99
25	5	-14	-40	71	99
25	5	-13	263	221	99
25	5	-12	-162	58	99
25	5	-11	386	461	99
25	5	-10	98	336	99
25	5	-9	672	622	99
25	5	-8	519	429	99
25	5	-7	170	406	99
25	5	-6	280	322	99
25	5	-5	303	25	99
25	5	-4	118	67	99
25	5	-3	408	278	99
25	5	-2	-241	88	99
25	7	-18	498	499	99
25	7	-17	177	74	99
29	3	-13	153	42	99
29	3	-12	-203	60	99
29	3	-11	190	254	99
29	3	-10	194	157	99
29	3	-9	181	372	99
29	5	-14	201	235	99
29	5	-13	291	33	99
29	5	-12	-273	22	99
29	5	-11	338	284	99
29	5	-10	194	42	99
30	0	-14	-265	10	99
30	0	-12	71	187	99
30	2	-13	-278	88	99
30	2	-12	272	190	99

h	k	l	Fo	Fc	sigF2
25	7	-16	460	374	99
25	7	-15	-188	17	99
25	7	-14	-375	91	99
25	7	-13	-357	149	99
25	7	-12	417	387	99
25	7	-11	-80	167	99
25	7	-10	601	573	99
25	7	-9	219	51	99
25	7	-8	464	544	99
25	7	-7	68	19	99
25	7	-6	169	162	99
25	7	-5	-360	189	99
25	7	-4	381	363	99
25	7	-3	186	126	99
25	9	-16	-374	203	99
25	9	-15	-174	215	99
25	9	-14	154	79	99
25	9	-13	-487	70	99
25	9	-12	575	542	99
25	9	-11	-201	47	99
25	9	-10	479	511	99
25	9	-9	435	280	99
25	9	-8	338	366	99
25	9	-7	161	270	99
25	9	-6	-204	14	99
25	9	-5	217	96	99
25	11	-14	-250	158	99
25	11	-13	117	31	99
25	11	-12	369	298	99
25	11	-11	290	330	99
25	11	-10	266	181	99
25	11	-9	406	451	99
25	11	-8	64	41	99
25	11	-7	174	353	99
26	0	-18	569	540	99
26	0	-16	269	36	99
26	0	-14	478	393	99
26	0	-12	710	692	99
26	0	-10	603	615	99
26	0	-8	259	269	99
26	0	-6	385	273	99
26	0	-4	595	563	99
26	2	-19	221	363	99
26	2	-18	-333	283	99
26	2	-17	302	301	99
26	2	-16	288	35	99
26	2	-15	193	29	99
26	2	-14	128	303	99
26	2	-13	272	280	99
26	2	-12	655	643	99
26	2	-11	424	313	99
26	2	-10	452	526	99
26	2	-9	180	277	99
26	2	-8	261	223	99
26	2	-7	-121	79	99

h	k	l	Fo	Fc	sigF2
26	2	-6	192	114	99
26	2	-5	245	259	99
26	2	-4	-393	296	99
26	2	-3	343	272	99
26	4	-19	284	350	99
26	4	-18	-45	119	99
26	4	-17	291	336	99
26	4	-16	-152	137	99
26	4	-15	-325	97	99
26	4	-14	213	43	99
26	4	-13	532	542	99
26	4	-12	-124	32	99
26	4	-11	531	585	99
26	4	-10	291	33	99
26	4	-9	501	461	99
26	4	-8	-304	144	99
26	4	-7	-261	135	99
26	4	-6	228	192	99
26	4	-5	272	243	99
26	4	-4	-117	68	99
26	4	-3	-219	260	99
26	6	-18	139	394	99
26	6	-17	112	128	99
26	6	-16	158	78	99
26	6	-15	65	86	99
26	6	-14	317	258	99
26	6	-13	249	275	99
26	6	-12	565	562	99
26	6	-11	-182	123	99
26	6	-10	243	480	99
26	6	-9	-239	81	99
26	6	-8	442	404	99
26	6	-7	178	161	99
26	6	-6	-315	12	99
26	6	-5	145	286	99
26	6	-4	-301	344	99
26	8	-16	218	52	99
26	8	-15	205	174	99
26	8	-14	451	301	99
26	8	-13	204	69	99
26	8	-12	546	562	99
26	8	-11	-348	45	99
26	8	-10	458	423	99
26	8	-9	-48	160	99
26	8	-8	257	202	99
26	8	-7	-173	204	99
26	8	-6	370	237	99
26	10	-14	-376	348	99
26	10	-13	156	194	99
26	10	-12	372	395	99
26	10	-11	270	304	99
26	10	-10	288	249	99
26	10	-9	271	322	99
26	10	-8	-342	77	99
27	1	-18	375	234	99

h	k	l	Fo	Fc	sigF2
27	1	-17	33	63	99
27	1	-16	58	267	99
27	1	-15	-207	88	99
27	1	-14	563	550	99
27	1	-13	160	141	99
27	1	-12	546	568	99
27	1	-11	-63	45	99
27	1	-10	209	314	99
27	1	-9	-55	30	99
27	1	-8	-164	37	99
27	1	-7	-378	136	99
27	1	-6	496	476	99
27	1	-5	-344	251	99
27	1	-4	371	371	99
27	3	-18	-256	33	99
27	3	-17	161	20	99
27	3	-16	179	197	99
27	3	-15	377	462	99
27	3	-14	173	294	99
27	3	-13	533	589	99
27	3	-12	399	322	99
27	3	-11	259	265	99
27	3	-10	-190	91	99
27	3	-9	-207	147	99
27	3	-8	-68	70	99
27	3	-7	239	211	99
27	3	-6	-261	192	99
27	3	-5	296	457	99
27	5	-17	-94	17	99
27	5	-16	165	64	99
27	5	-15	378	401	99
27	5	-14	-157	335	99
27	5	-13	559	469	99
27	5	-12	526	383	99
27	5	-11	-366	130	99
27	5	-10	-229	163	99
27	5	-9	-144	8	99
27	5	-8	76	228	99
27	5	-7	134	352	99
27	5	-6	132	144	99
27	5	-5	350	384	99
27	7	-16	211	175	99
27	7	-15	290	176	99
27	7	-14	444	477	99
27	7	-13	229	72	99
27	7	-12	285	448	99
27	7	-11	-377	57	99
27	7	-10	104	263	99
27	7	-9	-167	197	99
27	7	-8	317	56	99
27	7	-7	-137	246	99
27	9	-14	489	435	99
27	9	-13	-293	184	99
27	9	-12	222	344	99
27	9	-11	265	137	99

h	k	l	Fo	Fc	sigF2
27	9	-10	121	147	99
27	9	-9	258	186	99
28	0	-18	91	37	99
28	0	-16	87	401	99
28	0	-14	548	525	99
28	0	-12	275	289	99
28	0	-10	-335	53	99
28	0	-8	265	169	99
28	0	-6	-214	432	99
28	2	-17	178	94	99
28	2	-16	-77	360	99
28	2	-15	392	397	99
28	2	-14	438	429	99
28	2	-13	282	297	99
28	2	-12	182	211	99
28	2	-11	-239	58	99
28	2	-10	-165	21	99
28	2	-9	-194	85	99
28	2	-8	-376	149	99
28	2	-7	208	328	99
28	2	-6	274	323	99
28	4	-17	302	254	99
28	4	-16	234	12	99
28	4	-15	586	667	99
28	4	-14	-301	159	99
28	4	-13	300	373	99
28	4	-12	181	56	99
28	4	-11	228	107	99
28	4	-10	-237	74	99
28	4	-9	320	169	99
28	4	-8	-221	94	99
28	4	-7	413	471	99
28	6	-16	115	289	99
28	6	-15	-189	299	99
28	6	-14	467	479	99
28	6	-13	216	140	99
28	6	-12	193	210	99
28	6	-11	-126	102	99
28	6	-10	-344	51	99
28	6	-9	70	262	99
28	6	-8	-195	67	99
28	8	-12	294	193	99
28	8	-11	274	109	99
29	1	-16	49	395	99
29	1	-15	104	237	99
29	1	-14	254	261	99
29	1	-13	-45	97	99
29	1	-12	-219	23	99
29	1	-11	-396	83	99
29	1	-10	-148	180	99
29	1	-9	208	68	99
29	1	-8	183	265	99
29	3	-16	139	133	99
29	3	-15	505	492	99
29	3	-14	-290	32	99