

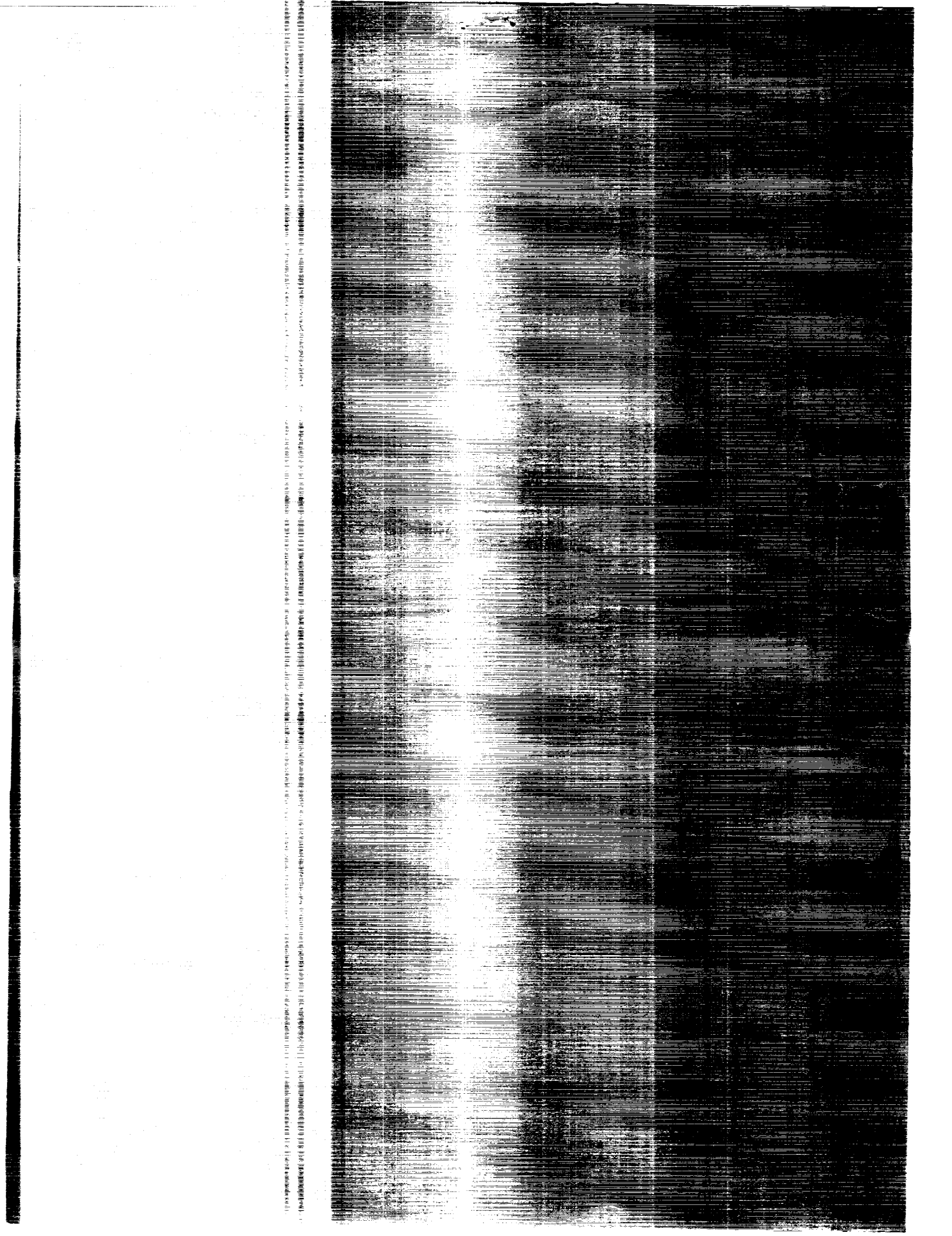
Memorandum 4268

MSFC Global Reference
Model - 1990
(GRAM-90)

Program/Data Listings

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(NASA-1M-4268-Pt-2) THE NASA/MSFC GLOBAL
REFERENCE ATMOSPHERIC MODEL: 1990 VERSION
(GRAM-90). PART 2: PROGRAM/DATA LISTINGS
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NASA Technical Memorandum 4268
Part II

The NASA/MSFC Global Reference
Atmospheric Model—1990
Version (GRAM-90)

Part II: Program / Data Listings

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PREFACE

The effort required to improve the NASA/MSFC Global Reference Atmospheric Model (GRAM) was sponsored by the Earth Science and Applications Division, Space Science Laboratory, NASA Marshall Space Flight Center, under the technical monitorship of Mr. Dale L. Johnson, the NASA COR. The modeling work was accomplished by the Georgia Institute of Technology, School of Earth and Atmospheric Sciences, under NASA grant NAG8-078. The effort was funded largely by NASA Headquarters Code M. New Technology, Inc. (NTI) coordinated the transfer of program, and program checkout, for use on the MSFC IBM computer.

This report presents the various GRAM-90 program code sequences as configured to operate on MSFC's IBM 3090 computer. Users should note that some of the code listings presented herein will require certain site-specific modifications to operate on other machines or configurations.

The first three listings start with the GRAM-90 program FORTRAN code, followed by an example of the IBM Job Control Language (JCL) code required to run the program and an example of resulting output. The next two listings start with a combined JCL and FORTRAN code sequence used to convert an individual monthly four-dimensional (4-D) data set to the direct access format required by the GRAM-90, followed by an example of the values for the variables found in each data record. Since even 1 month of the 4-D data base is extremely large, any complete listing becomes infeasible, and thus is omitted from this volume. However, the last listing is an output of the entire SCIDAT9 data base, which, though much more extensive than its predecessor, is hereby included in accordance with previous complete GRAM updates.

Key individuals who have either contributed toward the completion and testing of the GRAM-90 model (and/or report) are Steve Smith (MSFC) and Rhonda Blocker (BCSS). The technical work and user help information has been documented in part I of this report. Qualified requestors may obtain (purchase) copies of the computer program for this NASA/MSFC GRAM by contacting: COSMIC, the University of Georgia, 382 E. Broad St., Athens, GA 30602, telephone (404) 542-3265.

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TECHNICAL MEMORANDUM

THE NASA/MSFC GLOBAL REFERENCE ATMOSPHERIC MODEL—1990 VERSION (GRAM-90)

Part II: Program/Data Listings

1. GRAM-90 CODE

The following is a listing of the 1990 Global Reference Atmosphere Model (GRAM-90) FORTRAN program code. As in previous versions of the GRAM code (Justus et al. 1980), each segment of the program (main program, subroutine, function) has lines which are uniquely identified by a three- or four-character segment code coupled with a sequence number appearing at the extreme right of each line.

```

PROGRAM GRAM90                                     GRAM 1
C FIRST DATA LINE READS INITIAL HEIGHT (KM), INITIAL LATITUDE (DEG) GRAM 2
C INITIAL LONGITUDE (DEG), F10.7, MEAN F10.7, AP, MONTH, DAY, GRAM 3
C YEAR (TOTAL YEAR - 1900), GREENWICH HOUR, MINUTES, SECONDS, GRAM 4
C LATITUDE INCREMENT (DEG), LONGITUDE INCREMENT (DEG), GRAM 5
C HEIGHT DECREASE (KM), MAXIMUM NUMBER OF POSITIONS (EXCLUDING GRAM 6
C INITIAL POSITION) TO BE COMPUTED, TIME INCREMENT BETWEEN GRAM 7
C POSITIONS, TRAJECTORY OPTION, OUTPUT OPTION, MINIMUM GEOSTROPHIC GRAM 8
C LATITUDE GRAM 9
COMMON /IOTEMP/IOTEM1,IOTEM2,IUS,DD,XM,JD,PHI1,PHI, GRAM 10
NSAME,RP1, RD1, RT1, SP1, SD1, ST1, RU1, RV1, SU1, SV1, GRAM 11
$ MN, IDA, IYR, H1, PHI1R, THET1R, G, RI, H, PHIR, THETR, F10, F10B, AP, GRAM 12
IHR, MIN, NMORE, DX, HL, VL, DZ, B, EPS, IOPT, LOOK, IET, GLAT, GRAM 13
1RP1S, RD1S, RT1S, RU1S, RV1S, SP1S, SD1S, ST1S, SU1S, SV1S, GRAM 14
2UDS1, VDS1, UDL1, VDL1, UDS2, VDS2, UDL2, VDL2 GRAM 15
COMMON /CHIC/LA(4,4),NB(2),IWSYM,USH,VSH,DUSH,DVSH GRAM 16
COMMON /WINCOM/DUMSTF(14),UPRE,VPRE,DUPRE,DVPRE GRAM 17
9090 FORMAT('1 ***** GLOBAL REFERENCE ATMOSPHERIC MODEL - 1990', GRAM 18
& ' (GRAM90) *****'/) GRAM 19
PI=3.1415927 GRAM 20
FAC=0.017453293 GRAM 21
LOOK=0 GRAM 22
MONTH = 0 GRAM 23
IOPT=0 GRAM 24
H=0. GRAM 25
5 IF (IOPT.EQ.0.OR.(IOPT.GT.0.AND.H.LT.0.)) GO TO 6 GRAM 26
READ(IOPT,*)IET,H,PHI,THET GRAM 27
GO TO 5 GRAM 28
6 MN = MONTH GRAM 29
NSAME = 0 GRAM 30
READ(5,*,END=90) H1,PHI1,THET1,F10,F10B,AP,MN,IDA,IYR,IHR,MINO, GRAM 31
1 ISECO,DPHI,DTHET,DH,NMAX,INCT,IOPT,IOPT,IOPT,IOPT,IOPT,IOPT,IOPT, GRAM 32
WRITE(6,9090) GRAM 33
IF (ABS(PHI1).LE.90.)GO TO 7 GRAM 34
PHI1=SIGN(180.-ABS(PHI1),PHI1) GRAM 35
THET1=THET1+180. GRAM 36
IF (THET1.GT.360.)THET1=THET1-360. GRAM 37
7 IF (THET1.LT.0.) THET1=THET1+360 GRAM 38
GLAT = ABS(GLAT) GRAM 39
IF (GLAT.LT.5.) GLAT = 5. GRAM 40
IF (GLAT.GE.18.) GLAT = 17.999 GRAM 41
GLATF=GLAT*FAC GRAM 42
WRITE(6,9010) H1,PHI1,THET1,F10,F10B,AP,MN,IDA,IYR,IHR,MINO, GRAM 43
$ ISECO,DPHI,DTHET,DH,NMAX,INCT,IOPT,IOPT,IOPT,IOPT,IOPT,IOPT,IOPT, GRAM 44
C SET NSAME TO AVOID SETUP GRAM 45
15 IF (MN.EQ.MONTH) NSAME = 1 GRAM 46
C LOOKUP ON MULTIPLE PASSES GRAM 47
MONTH = MN GRAM 48
C CONVERT LATITUDE TO RADIANS GRAM 49
PHI1R=PHI1*FAC GRAM 50
C CONVERT LONGITUDE TO RADIANS GRAM 51
THET1R=THET1*FAC GRAM 52
C CONVERT LATITUDE INCREMENT TO RADIANS GRAM 53
DPHIR=DPHI*FAC GRAM 54

```

C	CONVERT LONGITUDE INCREMENT TO RADIAN	GRAM	55
	DTHETR=DTHET*FAC	GRAM	56
C	READ DATA FILE TO INITIALIZE ARRAYS	GRAM	57
	CALL SETUP	GRAM	58
	NT = 1	GRAM	59
	IF(IOPT.EQ.O) GO TO 18	GRAM	60
	READ(IOPT,*)IET,H,PHI,THET	GRAM	61
	IF(ABS(PHI).LE.90.) GO TO 16	GRAM	62
	PHI = SIGN(180.-ABS(PHI),PHI)	GRAM	63
	THET = THET + 180.	GRAM	64
16	IF(THET.LT.O.)THET=THET+360.	GRAM	65
	IF(THET.GT.360.) THET = THET - 360.	GRAM	66
	PHIR=PHI*FAC	GRAM	67
	THETR=THET*FAC	GRAM	68
	GO TO 19	GRAM	69
18	H = H1 - DH	GRAM	70
C....	DISPLACES POSITION BEFORE EVALUATION OF ATMOSPHERIC PARAMETERS	GRAM	71
	IET = INCT	GRAM	72
	PHIR=PHI1R+DPHIR	GRAM	73
	THETR=THET1R+DTHETR	GRAM	74
	IF (ABS(PHIR).LE.PI/2.) GO TO 17	GRAM	75
	PHIR = SIGN(PI-ABS(PHIR),PHIR)	GRAM	76
	DPHIR=-DPHIR	GRAM	77
	THETR = THETR + PI	GRAM	78
17	IF (THETR.GT.2.*PI) THETR = THETR - 2.*PI	GRAM	79
	IF (THETR.LT.O.) THETR = THETR + 2.*PI	GRAM	80
C	A=EQUATORIAL EARTH RADIUS, B=POLAR EARTH RADIUS	GRAM	81
C	EPS= EARTH ECCENTRICITY	GRAM	82
19	A = 6378.160	GRAM	83
	B = 6356.7747	GRAM	84
	EPS=(1.-(B*B)/(A*A))	GRAM	85
C....	COMPUTES RADIUS TO HEIGHT H, AND GRAVITY AT HEIGHT AND	GRAM	86
C	LATITUDE PHIR	GRAM	87
	CALL RIG	GRAM	88
	ISEC=ISECO+IET	GRAM	89
	ISEC=MOD(ISEC,60)	GRAM	90
	MIN = MIND + IET/60	GRAM	91
	IHR = IHRO + MIN / 60	GRAM	92
	MIN = MOD(MIN,60)	GRAM	93
C....	COMPUTES P,D,T,U,V AT FIRST POSITION AFTER INITIAL POSITION	GRAM	94
	IF(H1.LE.30.) LOOK=1	GRAM	95
	IF(ABS(PHIR).GT.GLATF) GO TO 195	GRAM	96
	IF((H.GE.30.O).AND.(H.LE.85.O))GOTO 195	GRAM	97
	PHI1S = PHI1R	GRAM	98
	PHIS=PHIR	GRAM	99
	DPHIS=(PHIR+GLATF)/(2.*GLATF)	GRAM	100
	PHIR=GLATF	GRAM	101
	PHI1R = PHIR + PHI1S - PHIS	GRAM	102
	CALL SCIMOD(O)	GRAM	103
	UP2=UPRE	GRAM	104
	VP2=VPRE	GRAM	105
	DUP2=DUPRE	GRAM	106
	DVP2=DVPRE	GRAM	107
	PHIR=-GLATF	GRAM	108

	CALL SCIMOD(0)	GRAM 109
	UP1=UPRE	GRAM 110
	VP1=VPRE	GRAM 111
	DUP1=DUPRE	GRAM 112
	DVP1=DVPRE	GRAM 113
	UPRE=UP1+(UP2-UP1)*DPHIS	GRAM 114
	VPRE=VP1+(VP2-VP1)*DPHIS	GRAM 115
	DUPRE=DUP1+(DUP2-DUP1)*DPHIS	GRAM 116
	DVPRE=DVP1+(DVP2-DVP1)*DPHIS	GRAM 117
	PHI1R = PHI1S	GRAM 118
	PHIR=PHIS	GRAM 119
195	CALL SCIMOD(1)	GRAM 120
20	NT = NT + 1	GRAM 121
	IF (IOPT.EQ.0) GO TO 22	GRAM 122
	READ(IOPT,*)IET,H,PHI,THET	GRAM 123
	IF(H.LT.0.)GO TO 5	GRAM 124
	IF(ABS(PHI).LE.90.)GO TO 21	GRAM 125
	PHI=SIGN(180.-ABS(PHI),PHI)	GRAM 126
	THET=THET+180.	GRAM 127
21	IF(THET.LT.0.)THET=THET+360.	GRAM 128
	IF(THET.GT.360.)THET=THET-360.	GRAM 129
	PHIR=PHI*FAC	GRAM 130
	THETR=THET*FAC	GRAM 131
	GO TO 25	GRAM 132
C	INCREMENT THE HEIGHT	GRAM 133
22	H = H1 - DH	GRAM 134
	IF (H .LT. 0.0) GO TO 5	GRAM 135
C	INCREMENT THE LATITUDE	GRAM 136
	PHIR=PHIR+DPHIR	GRAM 137
C	INCREMENT THE LONGITUDE	GRAM 138
	THETR=THETR+DTHETR	GRAM 139
C.....	READS NEW INPUT IF ABS(LAT) GTR 90 DEG	GRAM 140
	IF (ABS(PHIR).LE.PI/2) GO TO 23	GRAM 141
	PHIR=SIGN(PI-ABS(PHIR),PHIR)	GRAM 142
	DPHIR=-DPHIR	GRAM 143
	THETR=THETR+PI	GRAM 144
23	IF (THETR.GT.2.*PI) THETR = THETR - 2. * PI	GRAM 145
	IF (THETR.LT.0.) THETR = THETR + 2. * PI	GRAM 146
C	INCREMENT THE TIME	GRAM 147
	IET=IET+INCT	GRAM 148
25	MIN=MINO+IET/60	GRAM 149
	ISEC=ISECO+IET	GRAM 150
	ISEC=MOD(ISEC,60)	GRAM 151
	IHR=IHRO+MIN/60	GRAM 152
	MIN=MOD(MIN,60)	GRAM 153
C	COMPUTE RADIUS AND GRAVITY AT NEW POSITION	GRAM 154
	CALL RIG	GRAM 155
C	COMPUTE P,D,T,U,V, AT NEW POSITION	GRAM 156
	IF(H1.GE.30.0.AND.H.LT.30.0)LOOK = 1	GRAM 157
	IF(ABS(PHI).GT.75.AND.ABS(PHI1).LE.75.)LOOK = 1	GRAM 158
	IF(ABS(PHIR).GT.GLATF) GO TO 80	GRAM 159
	IF((H.GE.30.0).AND.(H.LE.85.0))GOTO 80	GRAM 160
	PHI1S = PHI1R	GRAM 161
	PHIS=PHIR	GRAM 162

```

DPHIS=(PHIR+GLATF)/(2.*GLATF)
PHIR=GLATF
PHI1R = PHIR + PHI1S - PHIS
CALL SCIMOD(0)
UP2=UPRE
VP2=VPRE
DUP2=DUPRE
DVP2=DVPRE
PHIR=-GLATF
CALL SCIMOD(0)
UP1=UPRE
VP1=VPRE
DUP1=DUPRE
DVP1=DVPRE
UPRE=UP1+(UP2-UP1)*DPHIS
VPRE=VP1+(VP2-VP1)*DPHIS
DUPRE=DUP1+(DUP2-DUP1)*DPHIS
DVPRE=DVP1+(DVP2-DVP1)*DPHIS
PHIR=PHIS
PHI1R = PHI1S
80 CALL SCIMOD(1)
C
C.....READS NEW INPUT IF NMORE = 0 OR MAX POINTS COMPUTED
IF(NMORE.EQ.O.OR.(IOPT.EQ.O.AND.NT.GE.NMAX)) GO TO 5
C CYCLE TO NEW POSITION
GO TO 20
90 STOP
9010 FORMAT(' INITIAL HEIGHT = ',F7.2,' KM',T43,' INITIAL LAT = ',
1 F6.2,' DEG',T83,' INITIAL WEST LON = ',F6.2,' DEG',/,', F10.7 = ',
2 F8.2,T43,' MEAN F10.7 = ',F7.2,T83,' AP = ',F8.2,/,', DATE = ',
3 I2,/,',I2,/,',I2,T43,' GREENWICH TIME = ',I2,/,',I2,/,',I2/,
4 ' LAT INCREMENT = ',F6.2,' DEG',T43,' WEST LON INCREMENT = ',
5 F6.2,' DEG',T83,' HEIGHT INCREMENT = ',F7.2,' KM',/,
6 ' MAXIMUM NUMBER OF POSITIONS = ',I4,T43,' TIME INCREMENT = ',
7 I4,' SEC',/2X,' TRAJECTORY OPTION = ',I4,T43,' OUTPUT OPTION = ',
8 I2,T83,' MIN GEOSTROPH LAT = ',F5.1,/)
END
COMMON/C4/DUN1(32),NG,P(16,26),D(16,26),T(16,26),SP(16,26)
$,SD(16,26),ST(16,26),DU1,DU2,HS
COMMON/ADJCOM/A(26,3), B(26), X(26), KOUNT
DIMENSION PQ(26), QQ(26), UC(26), VC(26), WC(26), U(26), V(26),
$ W(26)
C ASSUMPTIONS:
C HS IS THE SURFACE LEVEL
C ALL DATA VALUES ABOVE SURFACE LEVEL ARE IN 1 KM INCREMENTS
E1=0.075
E2=0.150
MAXIT=3
KSMAX=10
HSJ = HS
IF (HS.LT.O.) HSJ = 0.
JJ=INT(HSJ+2.)
ISS=1
CONST=28703./980.665
N=26
ITER=0

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GRAM 163
GRAM 164
GRAM 165
GRAM 166
GRAM 167
GRAM 168
GRAM 169
GRAM 709
GRAM 110
GRAM 172
GRAM 173
GRAM 174
GRAM 175
GRAM 176
GRAM 177
GRAM 178
GRAM 179
GRAM 180
GRAM 181
GRAM 182
GRAM 183
GRAM 184
GRAM 185
GRAM 186
GRAM 187
GRAM 188
GRAM 189
GRAM 190
GRAM 191
GRAM 192
GRAM 193
GRAM 194
GRAM 195
GRAM 196
GRAM 197
GRAM 198
GRAM 199
ADJU 2
ADJU 3
ADJU 4
ADJU 5
ADJU 6
ADJU 7
ADJU 8
ADJU 9
ADJU 10
ADJU 11
ADJU 12
ADJU 13
ADJU 14
ADJU 15
ADJU 16
ADJU 17
ADJU 18
ADJU 19
ADJU 20

```

UC(1)=SQRT(ABS(SP(KOUNT,1)))	ADJU	21
VC(1)=SQRT(ABS(SD(KOUNT,1)))	ADJU	22
WC(1)=SQRT(ABS(ST(KOUNT,1)))	ADJU	23
DO 5 I=JJ,N	ADJU	24
UC(I)=SQRT(ABS(SP(KOUNT,I)))	ADJU	25
VC(I)=SQRT(ABS(SD(KOUNT,I)))	ADJU	26
5 WC(I)=SQRT(ABS(ST(KOUNT,I)))	ADJU	27
NM=N-1	ADJU	28
NP=N+1	ADJU	29
C.....SETS UP QUADRATURE FACTORS	ADJU	30
PQ(1)=500.*(FLOAT(INT(HSJ+1.))-HS)/(CONST*T(KOUNT,1))	ADJU	31
QQ(1)=500.*(FLOAT(INT(HSJ+1.))-HS)/(CONST*T(KOUNT,JJ))	ADJU	32
DO 15 I=JJ,NM	ADJU	33
IP=I+1	ADJU	34
PQ(I)=500./(CONST*T(KOUNT,I))	ADJU	35
15 QQ(I)=500./(CONST*T(KOUNT,IP))	ADJU	36
GO TO 58	ADJU	37
12 NM=N-1	ADJU	38
NP=N+1	ADJU	39
DO 14 I=1,26	ADJU	40
U(I)=UC(I)*UC(I)	ADJU	41
V(I)=VC(I)*VC(I)	ADJU	42
W(I)=WC(I)*WC(I)	ADJU	43
14 CONTINUE	ADJU	44
C.....INITIALIZE A(I,J)	ADJU	45
DO 20 I=1,26	ADJU	46
DO 20 J=1,3	ADJU	47
20 A(I,J)=0.	ADJU	48
C.....SETS UP COEFFICIENTS	ADJU	49
I2=0	ADJU	50
DO 35 I=1,NM	ADJU	51
IF(I.GT.1.AND.I.LT.JJ) GO TO 35	ADJU	52
AW=1./SP(KOUNT,I)	ADJU	53
BW=1./SD(KOUNT,I)	ADJU	54
CW=1./ST(KOUNT,I)	ADJU	55
IM=I-1	ADJU	56
IF(I.EQ.JJ) IM=1	ADJU	57
IP=I+1	ADJU	58
IF (I.EQ.1) IP=JJ	ADJU	59
I2=I2+1	ADJU	60
AW1=1./SP(KOUNT,IP)	ADJU	61
BW1=1./SD(KOUNT,IP)	ADJU	62
CW1=1./ST(KOUNT,IP)	ADJU	63
IF(I.EQ.1) GO TO 25	ADJU	64
A(I2,1)=-((1.-QQ(IM))*(1.+PQ(I))/AW+(1./BW+1./CW)*PQ(I)*QQ(IM))	ADJU	65
25 A(I2,2)=-((1.-QQ(I))*2)/AW1+((1.+PQ(I))*2)/AW+(1./BW+1./CW)	ADJU	66
\$ *(PQ(I)**2)+(1./BW1+1./CW1)*QQ(I)**2	ADJU	67
IF(I.EQ.NM) GO TO 30	ADJU	68
A(I2,3)=-((1.-QQ(I))*(1.+PQ(IP))/AW1+(1./BW1+1./CW1)*	ADJU	69
\$ PQ(IP)*QQ(IP))	ADJU	70
30 B(I2)=U(IP)-U(I)-(U(I)-V(I)+W(I))*PQ(I)-(U(IP)-V(IP)+W(IP))*QQ(I)	ADJU	71
35 CONTINUE	ADJU	72
CALL DIAGEQ(I2)	ADJU	73
C.....FINDS CORRECTIONS	ADJU	74

AW=1./SP(KOUNT,1)	ADJU 75
BW=1./SD(KOUNT,1)	ADJU 76
CW=1./ST(KOUNT,1)	ADJU 77
UC(1)=SQRT(ABS(U(1)+X(1)*(1.+PQ(1))/AW))	ADJU 78
VC(1)=SQRT(ABS(V(1)-X(1)*PQ(1)/BW))	ADJU 79
WC(1)=SQRT(ABS(W(1)+X(1)*PQ(1)/CW))	ADJU 80
AW=1./SP(KOUNT,N)	ADJU 81
BW=1./SD(KOUNT,N)	ADJU 82
CW=1./ST(KOUNT,N)	ADJU 83
UC(N)=SQRT(ABS(U(N)-X(I2)*(1.-QQ(NM))/AW))	ADJU 84
VC(N)=SQRT(ABS(V(N)-X(I2)*QQ(NM)/BW))	ADJU 85
WC(N)=SQRT(ABS(W(N)+X(I2)*QQ(NM)/CW))	ADJU 86
I2=1	ADJU 87
DO 40 I=JJ,NM	ADJU 88
I2=I2+1	ADJU 89
I2M=I2-1	ADJU 90
AW=1./SP(KOUNT,I)	ADJU 91
BW=1./SD(KOUNT,I)	ADJU 92
CW=1./ST(KOUNT,I)	ADJU 93
IM=I-1	ADJU 94
IF(I.EQ.JJ)IM=1	ADJU 95
UC(I)=ABS(U(I) +(-X(I2M)*(1.-QQ(IM))+X(I2)*(1.+PQ(I)))/AW)	ADJU 96
UC(I)=SQRT(UC(I))	ADJU 97
VC(I)=ABS(V(I) -(X(I2M)*QQ(IM)+X(I2)*PQ(I))/BW)	ADJU 98
VC(I)=SQRT(VC(I))	ADJU 99
WC(I)=ABS(W(I) +(X(I2M)*QQ(IM)+X(I2)*PQ(I))/CW)	ADJU 100
40 WC(I)=SQRT(WC(I))	ADJU 101
C.....GETS ADJUSTED VALUES	ADJU 102
C..... ADJUSTS ON TRIANGLE INEQUALITIES	ADJU 103
58 K=0	ADJU 104
DO 68 I=1,N	ADJU 105
IF(I.GT.1.AND.I.LT.JJ) GO TO 68	ADJU 106
AU=UC(I)	ADJU 107
AV=VC(I)	ADJU 108
AM=WC(I)	ADJU 109
AMAX=AMAX1(AU,AV,AM)	ADJU 110
EE=E1*AMAX	ADJU 111
EF=E2*AMAX	ADJU 112
AW=SP(KOUNT,I)	ADJU 113
BW=SD(KOUNT,I)	ADJU 114
CW=ST(KOUNT,I)	ADJU 115
COR=AU+AV-AM-EE	ADJU 116
DIV=AW+BW+CW	ADJU 117
IF(COR.GT.O.) GO TO 60	ADJU 118
COR=(AU+AV-AM-EF)/DIV	ADJU 119
AU=AU-COR*AW	ADJU 120
AV=AV-COR*BW	ADJU 121
AM=AM+COR*CW	ADJU 122
GO TO 64	ADJU 123
60 COR=AU-AV+AM-EE	ADJU 124
IF(COR.GT.O.) GO TO 62	ADJU 125
COR=(AU-AV+AM-EF)/DIV	ADJU 126
AU=AU-COR*AW	ADJU 127
AV=AV+COR*BW	ADJU 128

AM=AM-COR*CW	ADJU 129
GO TO 64	ADJU 130
62 COR=-AU+AV+AM-EE	ADJU 131
IF(COR.GT.O.) GO TO 66	ADJU 132
COR=(-AU+AV+AM-EF)/DIV	ADJU 133
AU=AU+COR*AW	ADJU 134
AV=AV-COR*BW	ADJU 135
AM=AM-COR*CW	ADJU 136
64 K=K+1	ADJU 137
66 UC(I)=AU	ADJU 138
VC(I)=AV	ADJU 139
WC(I)=AM	ADJU 140
68 CONTINUE	ADJU 141
KMAX=K	ADJU 142
100 IF((ITER.EQ.O).OR.(KMAX.NE.O)) GO TO 110	ADJU 143
GO TO 112	ADJU 144
110 ITER=ITER+1	ADJU 145
IF(ITER.LE.MAXIT) GO TO 12	ADJU 146
112 IF (ISS.NE.1) GO TO 999	ADJU 147
114 ITER=1	ADJU 148
ISS=2	ADJU 149
VTA=VC(1)	ADJU 150
WTA=WC(1)	ADJU 151
DO 120 I=JJ,NM	ADJU 152
IM=I-1	ADJU 153
IF(I.EQ.JJ)IM=1	ADJU 154
VTB=VC(I)	ADJU 155
WTB=WC(I)	ADJU 156
VC(I)=(VC(I+1)+2.*VTB+VTA)*0.25	ADJU 157
WC(I)=(WC(I+1)+2.*WTB+WTA)*0.25	ADJU 158
VTA=VTB	ADJU 159
WTA=WTB	ADJU 160
120 CONTINUE	ADJU 161
GO TO 12	ADJU 162
C.....CALCULATE THE CORRECTED VARIANCES	ADJU 163
999 DO 1010 I=1,N	ADJU 164
IF(I.GT.1.AND.I.LT.JJ) GO TO 1010	ADJU 165
SP(KOUNT,I)=UC(I)**2	ADJU 166
SD(KOUNT,I)=VC(I)**2	ADJU 167
ST(KOUNT,I)=WC(I)**2	ADJU 168
1010 CONTINUE	ADJU 169
RETURN	ADJU 170
END	ADJU 171
SUBROUTINE CHECK	CHEC 1
COMMON/CHK/P(4,4,3),RHO(4,4,3),NO(2)	CHEC 2
COMMON /WINCOM/DGH,FCORY,DX5,DY5,DUMMY(14)	CHEC 3
COMMON /CHIC/LA(16),NB(2),IWSYM,USH,VSH,DUSH,DVSH	CHEC 4
NB(1) = 0	CHEC 5
NB(2) = 0	CHEC 6
CALL GROUP	CHEC 7
NS=0	CHEC 8
NR=1	CHEC 9
IF(NO(1).EQ.O.AND.NO(2).EQ.O) GO TO 1000	CHEC 10
DO 640 KL=1,2	CHEC 11

	IF (NO(KL).EQ.O) GO TO 640	CHEC 12
450	CONTINUE	CHEC 13
	NNR=4*NR	CHEC 14
	IF(NO(KL).LE.NNR) GO TO 500	CHEC 15
	NR=NR+1	CHEC 16
	GO TO 450	CHEC 17
500	CONTINUE	CHEC 18
	I1=NR	CHEC 19
	J1=NO(KL)-(NR-1)*4	CHEC 20
	SH1 = 6.	CHEC 21
	SH2 = 6.	CHEC 22
	DP = P(I1,J1,2) - P(I1,J1,1)	CHEC 23
	IF (DP) 510,520,510	CHEC 24
510	SH1 = ABS(P(I1,J1,2)/DP)	CHEC 25
520	DP = P(I1,J1,2) - P(I1,J1,3)	CHEC 26
	IF (DP) 530,540,530	CHEC 27
530	SH2 = ABS(P(I1,J1,2)/DP)	CHEC 28
540	IF(SH1.LT.4.O.OR.SH2.LT.4.O) GO TO 640	CHEC 29
	IF(SH1.GT.9.O.OR.SH2.GT.9.O) GO TO 640	CHEC 30
	NR=1	CHEC 31
	NS=NS+1	CHEC 32
640	CONTINUE	CHEC 33
	RETURN	CHEC 34
1000	IWSYM = ICHAR('**')	CHEC 35
	RETURN	CHEC 36
	END	CHEC 37
	SUBROUTINE CORLAT(A,B,C,D,E,F,G,H,AI,AJ,AK,SP1,SP2,SD1,SD2,ST1,	CORL 1
	1 ST2,SU1,SU2,SV1,SV2,UD1,UD2,VD1,VD2,RD,RT,RV)	CORL 2
	IF(SD1*ST1*SD2*ST2*RD*RT*RV.GT.O.)GO TO 5	CORL 3
C.....	DEFAULT VALUES AVOID DIVISION BY ZERO	CORL 4
	IF(SD1.LE.O.) SD1=O.OO1	CORL 5
	IF(ST1.LE.O.) ST1=O.OO1	CORL 6
	IF(SD2.LE.O.) SD2=O.OO1	CORL 7
	IF(ST2.LE.O.) ST2=O.OO1	CORL 8
	IF(RD.LE.O.) RD = .OOOO1	CORL 9
	IF(RT.LE.O.) RT = .OOOO1	CORL 10
	IF(RV.LE.O.) RV = .OOOO1	CORL 11
5	CONTINUE	CORL 12
	IF (ABS(UD1).LE.O.) UD1 = 0.001	CORL 13
	IF (ABS(VD1).LE.O.) VD1 = 0.001	CORL 14
	IF (ABS(SU1).LE.O.) SU1 = 0.001	CORL 15
	IF (ABS(SV1).LE.O.) SV1 = 0.001	CORL 16
	IF (ABS(UD1).GE.1.) UD1 = 0.99*UD1/ABS(UD1)	CORL 17
	IF (ABS(VD1).GE.1.) VD1 = 0.99*VD1/ABS(VD1)	CORL 18
	A=RD*SD2/SD1	CORL 19
	B=SD2*SQR1(1-RD*RD)	CORL 20
	TD2=(SP2*SP2-SD2*SD2-ST2*ST2)/(2*SD2*ST2)	CORL 21
	TD1=(SP1*SP1-SD1*SD1-ST1*ST1)/(2*SD1*ST1)	CORL 22
	IF(ABS(TD1).LE.O.) TD1=.OO1	CORL 23
	IF(ABS(TD2).LE.O.) TD2=.OO1	CORL 24
	IF(ABS(TD2).GE.1.O) TD2=0.99*TD2/ABS(TD2)	CORL 25
	IF(ABS(TD1).GE.1.O) TD1=0.99*TD1/ABS(TD1)	CORL 26
	C=(ST2/ST1)*(RT-RD*TD2*TD1)/(1-TD1*TD1*RD*RD)	CORL 27
	D=(RT*ST2-C*ST1)/(A*TD1*SD1)	CORL 28

E=	ST2*ST2-C*C*ST1*ST1-D*D*SD2*SD2-2*C*D*RD*TD1*ST1*SD2	CORL	29
	IF(E.GE.O.) GO TO 10	CORL	30
	E=O.	CORL	31
10	E=SQRT(E)	CORL	32
	F=(SU2/SU1)*(RV-RD*UD2*UD1)/(1-RD*RD*UD1*UD1)	CORL	33
	G=(RV*SU2-F*SU1)/(RD*UD1*SD2)	CORL	34
	H=SU2*SU2-F*F*SU1*SU1-G*G*SD2*SD2-2*F*G*RD*UD1*SD2*SU1	CORL	35
	IF(H.GE.O.) GO TO 15	CORL	36
	H=O.	CORL	37
15	H=SQRT(H)	CORL	38
	AI=(SV2/SV1)*(RV-RD*VD2*VD1)/(1-RD*RD*VD1*VD1)	CORL	39
	AJ=(RV*SV2-AI*SV1)/(RD*VD1*SD2)	CORL	40
	AK=SV2*SV2-AI*AI*SV1*SV1-AJ*AJ*SD2*SD2-2*AI*AJ*RD*VD1*SD2*SV1	CORL	41
	IF(AK.GE.O.) GO TO 25	CORL	42
	AK=O.	CORL	43
25	AK=SQRT(AK)	CORL	44
	RETURN	CORL	45
	END	CORL	46
	FUNCTION CORREL(X)	CORR	1
	DATA A,B/19.51615854,1.000416939/	CORR	2
	RHO = 1./EXP(B*X)	CORR	3
	IF(X.LT.0.05) RHO = 1. - A*X**2	CORR	4
	CORREL = RHO	CORR	5
	RETURN	CORR	6
	END	CORR	7
	SUBROUTINE DIAGEQ(N)	DIAG	1
C	A(I,J)=DIAG. TERMS, I=ROW NO., J=DIAG. NO.	DIAG	2
C	B(I)=RIGHT SIDE TERMS	DIAG	3
C	N=NO. OF ROWS	DIAG	4
C	K=NO. OF BORDER DIAGONALS, M=K+1=INDEX OF PRIN. DIAG	DIAG	5
C	2KH=TOTAL NO. OF DIAGS.	DIAG	6
C	X(I)=SOLUTION	DIAG	7
	COMMON/ADJCOM/A(26,3),B(26),X(26),KOUNT	DIAG	8
	K = 1	DIAG	9
	M=K+1	DIAG	10
	DO 30 L=1,N	DIAG	11
	ALM=A(L,M)	DIAG	12
	A(L,M)=1.	DIAG	13
	IF(L.EQ.N) GO TO 15	DIAG	14
	I2=MINO(K,N-L)	DIAG	15
	DO 10 I=1,I2	DIAG	16
	MPI=M+I	DIAG	17
10	A(L,MPI)=A(L,MPI)/ALM	DIAG	18
15	B(L)=B(L)/ALM	DIAG	19
	IF(L.EQ.N) GO TO 30	DIAG	20
	DO 25 I=1,I2	DIAG	21
	LPI=L+I	DIAG	22
	FACT=A(LPI,M-I)	DIAG	23
	DO 20 J=1,I2	DIAG	24
	MJI=M+J-I	DIAG	25
20	A(LPI,MJI)=A(LPI,MJI)-A(L,M+J)*FACT	DIAG	26
25	B(LPI)=B(LPI)-B(L)*FACT	DIAG	27
30	CONTINUE	DIAG	28
	X(N)=B(N)	DIAG	29

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NM1=N-1
DO 50 L=1,NM1
NML=N-L
SUM=0.
I2=MINO(K,L)
DO 40 I=1,I2
40 SUM=SUM+A(NML,M+I)*X(NML+I)
50 X(NML)=B(NML)-SUM
RETURN
END
SUBROUTINE FAIR(PG,DG,TG,PJ,DJ,TJ,IH,P,D,T,DPXG,
& DPYG,DPXJ,DPYJ,DPX,DPY,DTXG,DTYG,DTXJ,DTYJ,DTX,DTY)
C.... FAIRS BETWEEN ZONAL MEANS AND JACCHIA VALUES 90 LE HEIGHT LE
C      120 KM
C      DIMENSION CZ(7)
C..... FAIRING VALUES
C      DATA CZ /1.0,0.9330127,0.75,0.5,0.25,0.0669873,0.0/
C      HEIGHT INDEX
C      I =(IH - 85)/5
C.... ZONAL MEAN FAIRING COEFFICIENT
C      CZI = CZ(I)
C      JACCHIA FAIRING COEFFICIENT
C      SZI = 1.0 - CZI
C      FAIRED TEMPERATURE
C      T = TG*CZI + TJ*SZI
C      FAIRED DENSITY
C      D = EXP(ALOG(DG)*CZI + ALOG(DJ)*SZI)
C..... FAIRED GAS CONSTANT
C      RG=PG/(DG*TG)
C      RJ=PJ/(DJ*TJ)
C      R=( CZI*RG ) + ( SZI * RJ )
C      P= R*D*T
C      DPX = DPXG*CZI + DPXJ*SZI
C      DP/DY FOR GEOSTROPHIC WINDS
C      DPY=DPYG*CZI+DPYJ*SZI
C      DTX = DTXG*CZI + DTXJ*SZI
C      DT/DY FOR THERMAL WINDS
C      DTY = DTYG * CZI + DTYJ * SZI
C      RETURN
C      END
SUBROUTINE FAIR5 ( DHEL1 ,DHEL2 ,DLG1 ,DLG2 ,IH ,FDHEL ,FDLG )
C*****
C** THIS SUBROUTINE FAIRS BETWEEN THE REGION ABOVE 500 KM, WHICH
C** INVOKES THE SEASONAL-LATITUDINAL VARIATION OF THE HELIUM NUMBER
C** DENSITY (SUBROUTINE SLVH ), AND THE REGION BELOW, WHICH DOES
C** NOT INVOKE ANY SEASONAL-LATITUDINAL VARIATION AT ALL.
C**
C** INPUTS:  DHEL1 = HELIUM NUMBER DENSITY BEFORE INVOKING SLVH
C**           DHEL2 = HELIUM NUMBER DENSITY AFTER INVOKING SLVH
C**           DLG1  = TOTAL DENSITY BEFORE INVOKING SLVH
C**           DLG2  = TOTAL DENSITY AFTER INVOKING SLVH
C**           IH    = HEIGHT ( KM ) -- INTEGER
C**           IBFH  = BASE FAIRING HEIGHT ( KM ) -- INTEGER

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DIAG 30
DIAG 31
DIAG 32
DIAG 33
DIAG 34
DIAG 35
DIAG 36
DIAG 37
DIAG 38
DIAG 39
FAIR 1
FAIR 2
FAIR 3
FAIR 4
FAIR 5
FAIR 6
FAIR 7
FAIR 8
FAIR 9
FAIR 10
FAIR 11
FAIR 12
FAIR 13
FAIR 14
FAIR 15
FAIR 16
FAIR 17
FAIR 18
FAIR 19
FAIR 20
FAIR 21
FAIR 22
FAIR 23
FAIR 24
FAIR 25
FAIR 26
FAIR 27
FAIR 28
FAIR 29
FAIR 30
FAIR5 1
FAIR5 2
FAIR5 3
**FAIR5 4
**FAIR5 5
**FAIR5 6
**FAIR5 7
**FAIR5 8
**FAIR5 9
**FAIR5 10
**FAIR5 11
**FAIR5 12
**FAIR5 13
**FAIR5 14

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C** OUTPUTS: FDHEL = FAIRED HELIUM NUMBER DENSITY          **FAR5 15
C**           FDLG  = FAIRED TOTAL DENSITY                 **FAR5 16
C**                                                    **FAR5 17
C*****FAR5 18
                FAR5 19
                PARAMETER (IBFH = 440)                    FAR5 20
                DIMENSION CZ ( 6 )                        FAR5 21
                DATA CZ / 1.0, 0.9045085, 0.6545085, 0.3454915, 0.0954915, 0.0 /FAR5 22
                FAR5 23
C HEIGHT INDEX                                           FAR5 24
  I = ( IH - IBFH ) /10 + 1                             FAR5 25
C NON-SLVH FAIRING COEFFICIFNT                          FAR5 26
  CZI = CZ ( I )                                         FAR5 27
C SLVH FAIRING COEFFICIENT                              FAR5 28
  SZI = 1.0 - CZI                                       FAR5 29
C FAIRED DENSITY                                         FAR5 30
  FDLG = ( DLG1 * CZI ) + ( DLG2 * SZI )                FAR5 31
C FAIRED HELIUM NUMBER DENSITY                          FAR5 32
  FDHEL = ( DHEL1 * CZI ) + ( DHEL2 * SZI )             FAR5 33
                FAR5 34
                RETURN                                     FAR5 35
                END                                       FAR5 36
                SUBROUTINE GAUSS(Z2,NMIN,R,TX,T1,T3,T4,A2)  GAUS  1
                GAUS  2
C*****GAUS  3
C** SUBDIVIDE TOTAL INTEGRATION-ALTITUDE RANGE INTO INTERVALS **GAUS  4
C** SUITABLE FOR APPLYING GAUSSIAN QUADRATURE , SET THE NUMBER **GAUS  5
C** OF POINTS FOR INTEGRATIONRFOR EACH SUB-INTERVAL , AND THEN **GAUS  6
C** PERFORM GAUSSIAN QUADRATURE.                        **GAUS  7
C*****GAUS  8
                GAUS  9
                REAL  ALTMIN (9) , C(8,6), X(8,6), MOLWT  GAUS 10
                INTEGER NG (8) , NGAUSS , NMIN , J        GAUS 11
                GAUS 12
                GAUS 13
                DATA  ALTMIN/90.,105.,125.,160.,200.,300.,500.,1500.,2500./ GAUS 14
                DATA  NG / 4 , 5 , 6 , 6 , 6 , 6 , 6 , 6 / GAUS 15
                GAUS 16
C COEFFICIENTS FOR GAUSSIAN QUADRATURE ...              GAUS 17
                GAUS 18
                DATA  C / .5555556 , .8888889 , .5555556 , .0000000 , GAUS 19
                .0000000 , .0000000 , .0000000 , .0000000 , GAUS 20
                .3478548 , .6521452 , .6521452 , .3478548 , GAUS 21
                .0000000 , .0000000 , .0000000 , .0000000 , GAUS 22
                .2369269 , .4786287 , .5688889 , .4786287 , GAUS 23
                .2369269 , .0000000 , .0000000 , .0000000 , GAUS 24
                .1713245 , .3607616 , .4679139 , .4679139 , GAUS 25
                .3607616 , .1713245 , .0000000 , .0000000 , GAUS 26
                .1294850 , .2797054 , .3818301 , .4179592 , GAUS 27
                .3818301 , .2797054 , .1294850 , .0000000 , GAUS 28
                .1012285 , .2223810 , .3137067 , .3626838 , GAUS 29
                .3626838 , .3137067 , .2223810 , .1012285 / GAUS 30
                GAUS 31
C ABSCISSAS FOR GAUSSIAN QUADRATURE ...                 GAUS 32

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DATA X / -.7745967 , .0000000 , .7745967 , .0000000 , GAUS 33
. .0000000 , .0000000 , .0000000 , .0000000 , GAUS 34
. .0000000 , .0000000 , .0000000 , .0000000 , GAUS 35
. -.8611363 , -.3399810 , .3399810 , .8611363 , GAUS 36
. .0000000 , .0000000 , .0000000 , .0000000 , GAUS 37
. -.9061798 , -.5384693 , .0000000 , .5384693 , GAUS 38
. .9061798 , .0000000 , .0000000 , .0000000 , GAUS 39
. -.9324695 , -.6612094 , -.2386192 , .2386192 , GAUS 40
. .6612094 , .9324695 , .0000000 , .0000000 , GAUS 41
. -.9491079 , -.7415312 , -.4058452 , .0000000 , GAUS 42
. .4058452 , .7415312 , .9491079 , .0000000 , GAUS 43
. -.9602899 , -.7966665 , -.5255324 , -.1834346 , GAUS 44
. .1834346 , .5255324 , .7966665 , .9602899 / GAUS 45
GRAVITY(ALT)=9.80665/((1.+ALT/6.356766E3)**2) GAUS 46
R = 0.0 GAUS 47
DO 2 K = NMIN , 8 GAUS 48
NGAUSS = NG (K) GAUS 49
A = ALTMIN (K) GAUS 50
D = AMIN1 ( Z2 , ALTMIN (K+1) ) GAUS 51
RR = 0.0 GAUS 52
DEL = 0.5 * ( D - A ) GAUS 53
J = NGAUSS - 2 GAUS 54
DO 1 I = 1 , NGAUSS GAUS 55
Z = DEL * ( X(I,J) + 1. ) + A GAUS 56
RR=RR+C(I,J)*MOLWT(Z)*GRAVITY(Z)/TEMP(Z,TX,T1,T3,T4,A2) GAUS 57
CONTINUE GAUS 58
RR = DEL * RR GAUS 59
R = R + RR GAUS 60
IF ( D .EQ. Z2 ) RETURN GAUS 61
CONTINUE GAUS 62
RR = DEL * RR GAUS 63
R = R + RR GAUS 64
IF ( D .EQ. Z2 ) RETURN GAUS 65
CONTINUE GAUS 66
RR = DEL * RR GAUS 67
R = R + RR GAUS 68
IF ( D .EQ. Z2 ) RETURN GAUS 69
CONTINUE GAUS 70
RR = DEL * RR GAUS 71
R = R + RR GAUS 72
IF ( D .EQ. Z2 ) RETURN GAUS 73
END GAUS 74
SUBROUTINE GEN4D GEN4 1
C.....GENERATES NG = 9 OR 16 4D PROFILES P,D,T AND SIGMAS SP,SD,ST AT GEN4 2
C GRID OF LATITUDES AND LONGITUDES GLAT,GLON. CURRENT LATITUDE, GEN4 3
C LONGITUDE=CLAT,CLON. PREVIOUS LATITUDE, LONGITUDE=PLAT,PLON. GEN4 4
COMMON/C4/GLAT(16),GLON(16),NG,P(16,26),D(16,26),T(16,26), GEN4 5
$ SP(16,26),SD(16,26),ST(16,26),PLON,CLON,HS GEN4 6
COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DDD,XMJD,PLAT,CLAT, GEN4 7
$ NSAME,RP1,RD1,RT1,SP1,SD1,ST1,RU1,RV1,SU1,SV1, GEN4 8
$ MN,IDA,IYR,H1,PHI1R,THET1R,GZ,RI,Z,PHIR,THETR,F10,F10B,AP, GEN4 9
$ IHR,MIN,NMORE,DX,HL,VL,DZ,B,EPS,IOPP,LOOK,DUMMY(20) GEN4 10
COMMON /PDTCOM/IU4,MONTH,IOPR, GEN4 11
PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18), GEN4 12
VSP(15,19,18), GEN4 13
PG(21,19),DG(21,19),TG(21,19),UG(21,19), GEN4 14

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. PAQ(17.5),DAQ(17.5),TAQ(17.5),UAQ(17.5),VAQ(17.5),	GEN4	15
. PDQ(17.5),DDQ(17.5),TDQ(17.5),UDQ(17.5),VDQ(17.5),	GEN4	16
. PP(29,19),DP(29,19),TR(29,19),UR(29,19),VR(29,19),	GEN4	17
51Q,DO,IQ,UQ,VQ,POA,DQA,IOA,UA,VA,IOPO	GEN4	18
*,PLP(25,10),DLP(25,10),TLP(25,10),ULP(25,10),VLP(25,10),UDL(25,	GEN4	19
+ 10),VDL(25,10),UDS(25,10),VDS(25,10)	GEN4	20
COMMON/ADJCOM/DUM(130),KOUNT	GEN4	21
COMMON/IPRI/ IPRI,NLIMIT	GEN4	22
DIMENSION NGOOD(26)	GEN4	23
IF(NSAME EQ 1) RETURN	GEN4	24
LOOK=0	GEN4	25
F = 0.017453293	GEN4	26
NG = 16	GEN4	27
DX = PION - CI0N	GEN4	28
IF(DX.GT.180.)DX = DX - 360.	GEN4	29
IF(DX.LT.-180.)DX = DX + 360.	GEN4	30
C.....LONGITUDE DISPLACEMENT FROM PREVIOUS TO CURRENT POSITION	GEN4	31
DY = CLAT - PLAT	GEN4	32
C.....LATITUDE DISPLACEMENT FROM PREVIOUS TO CURRENT POSITION	GEN4	33
IF (DY) 20,10,20	GEN4	34
10 IF (DX) 15,12,15	GEN4	35
12 K = 0	GEN4	36
GO TO 10	GEN4	37
15 THETA = 180. + SIGN(90.,DX)	GEN4	38
GO TO 30	GEN4	39
20 THETA = ATAN(DX/DY)/F	GEN4	40
IF (DY.GT.0.) THETA = THETA + 180.	GEN4	41
IF (THETA.LT.0.) THETA = THETA + 360.	GEN4	42
C.....THETA = AZIMUTH ANGLE OF TRAJECTORY, USED TO ORIENT LAT-LON GRID	GEN4	43
30 K = INT((THETA + 67.5)/45.)	GEN4	44
C INDEX USED IN COMPUTED GO TO FOR 110 THRU 180	GEN4	45
IF (K.GT.8) K=K-8	GEN4	46
C NORTH POLAR GRID	GEN4	47
40 IF (CLAT.GT.75.0)GO TO 200	GEN4	48
C SOUTH POLAR GRID	GEN4	49
IF (CLAT.LT.-75.0)GO TO 200	GEN4	50
C.....INITIAL ESTIMATE OF REFERENCE LATITUDE (LOWER LEFT GRID POINT)	GEN4	51
LATO = 5*INT(CLAT/5.)	GEN4	52
IF (CLAT.LT.0.) LATO = LATO - 5	GEN4	53
C.....INITIAL ESTIMATE OF REFERENCE LONGITUDE (LOWER LEFT GRID POINT)	GEN4	54
LONO=5*INT(CI0N/5.)	GEN4	55
C.....ADJUSTS LATO,LONO ACCORDING TO DIRECTION OF TRAJECTORY AZIMUTH	GEN4	56
IF (K.GT.0) GO TO 100	GEN4	57
LATO = LATO - 5	GEN4	58
LONO= LONO + 10	GEN4	59
GO TO 190	GEN4	60
100 GO TO (110,120,130,140,150,160,170,180),K	GEN4	61
110 LATO = LATO 10	GEN4	62
LONO = LONO + 10	GEN4	63
GO TO 190	GEN4	64
120 LATO = LATO-10	GEN4	65
LONO = LONO+15	GEN4	66
GO TO 190	GEN4	67
130 LATO = LATO-5	GEN4	68

LONO = LONO+15	GEN4 69
GO TO 190	GEN4 70
140 LONO = LONO+15	GEN4 71
GO TO 190	GEN4 72
150 LONO = LONO+10	GEN4 73
GO TO 190	GEN4 74
160 LONO = LONO+5	GEN4 75
GO TO 190	GEN4 76
170 LATO = LATO-5	GEN4 77
LONO = LONO+5	GEN4 78
GO TO 190	GEN4 79
180 LATO = LATO-10	GEN4 80
LONO = LONO+5	GEN4 81
190 -IF(LONO.GE.360)LONO = LONO - 360	GEN4 82
IF(LATO.GT.75) LATO=75	GEN4 83
DLI=1.25	GEN4 84
IF(ABS(CLAT).GE.18) GO TO 192	GEN4 85
DLI=3.0	GEN4 86
LATO=-18	GEN4 87
192 DO 195 I=1,4	GEN4 88
I12 = I+12	GEN4 89
DO 195 J=I, I12,4	GEN4 90
GLAT(J)=LATO+DLI*(J-I)	GEN4 91
C.....LATITUDE, LONGITUDE GRID AT 5 DEGREE INTERVALS	GEN4 92
195 GLON(J) = LONO - 5. * (I - 1)	GEN4 93
GO TO 400	GEN4 94
C POLAR GRID	GEN4 95
200 NG = 9	GEN4 96
DO 210 J=1,8	GEN4 97
C.....POLAR GRID LATITUDES 1-8 = +75 (N) OR -75 (S)	GEN4 98
GLAT(J) = SIGN(75.,CLAT)	GEN4 99
C.....POLAR GRID LONGITUDES 1-8 AT 45 DEG INTERVALS	GEN4 100
210 GLON(J) = 45.*(J-1)	GEN4 101
C.....POLAR GRID LATITUDE 9 = POLE +90 OR -90	GEN4 102
GLAT(9) = SIGN(90.,CLAT)	GEN4 103
C.....POLAR GRID LONGITUDE 9 = 0	GEN4 104
GLON(9) = 0.	GEN4 105
C.....GENERATES 16 PROFILES (OR 9 PROFILES FOR POLAR GRID)	GEN4 106
400 CALL GRID4D	GEN4 107
DO 390 I = 1,NG	GEN4 108
DO 330 J = 1,26	GEN4 109
NGOOD(J) = 1	GEN4 110
IF(P(I,J).LE.O.O.OR.D(I,J).LE.O.O.OR.T(I,J).LE.O.O)NGOOD(J)=0	GEN4 111
IF(NGOOD(J).EQ.O)GOTO 330	GEN4 112
RATIO = P(I,J)/(D(I,J)*T(I,J))	GEN4 113
IF(RATIO.GT.286.O.AND.RATIO.LT.288.O)GOTO 330	GEN4 114
NGOOD(J) = 0	GEN4 115
IF(IPRT.EQ.O)WRITE(6,325)I,J,RATIO	GEN4 116
325 FORMAT(' GAS LAW VIOLATION. I,J,RATIO = ',2I4,G12.4)	GEN4 117
330 CONTINUE	GEN4 118
DO 340 J = 3,26	GEN4 119
IF(NGOOD(J).EQ.O.OR.NGOOD(J-1).EQ.O)GOTO 340	GEN4 120
DENOM = 1./T(I,J)	GEN4 121
IF(ABS(T(I,J)-T(I,J-1)).GT.O.O1)DENOM=ALOG(T(I,J-1)/T(I,J))/	GEN4 122

& (T(I,J-1)-T(I,J))	GEN4 123
RATIO = ALOG(P(I,J-1)/P(I,J))/DENOM	GEN4 124
IF(RATIO.GT.30.7.AND.RATIO.LT.37.6)GOTO 340	GEN4 125
NGOOD(J) = 0	GEN4 126
IF(IPRT.EQ.O)WRITE(6,335)I,J,RATIO	GEN4 127
335 FORMAT(' HYDROSTATIC VIOLATION. I,J,RATIO = ',2I4,G12.4)	GEN4 128
IF(J.EQ.26)GO TO 345	GEN4 129
K1 = J + 1	GEN4 130
DO 336 K = K1,26	GEN4 131
336 NGOOD(K) = 0	GEN4 132
GO TO 345	GEN4 133
340 CONTINUE	GEN4 134
345 NBAD = 0	GEN4 135
DO 360 J = 1,26	GEN4 136
IF(NGOOD(J).GT.O)GOTO 360	GEN4 137
NBAD = NBAD + 1	GEN4 138
P(I,J) = O.	GEN4 139
D(I,J) = O.	GEN4 140
T(I,J) = O.	GEN4 141
360 CONTINUE	GEN4 142
IF(NBAD.LE.NLIMIT) GOTO 390	GEN4 143
WRITE(6,380)	GEN4 144
380 FORMAT(' UNABLE TO GENERATE 4-D GRID. TOO MANY TEST VIOLATIONS')	GEN4 145
STOP	GEN4 146
390 CONTINUE	GEN4 147
DO 600 I=1,NG	GEN4 148
IHV = 0	GEN4 149
SPR = 0.0004	GEN4 150
SDR = 0.0004	GEN4 151
STR = 0.0004	GEN4 152
DO 420 J = 8,26	GEN4 153
CHECK = 1.	GEN4 154
IF(P(I,J).LE.O.O.OR.SP(I,J).LE.O.O)CHECK = O.	GEN4 155
IF(D(I,J).LE.O.O.OR.SD(I,J).LE.O.O)CHECK = O.	GEN4 156
IF(T(I,J).LE.O.O.OR.ST(I,J).LE.O.O)CHECK = O.	GEN4 157
C..... FINDS INDEX IHV OF LAST HEIGHT ABOVE 6 KM WITH NON-ZERO DATA	GEN4 158
IF(CHECK.GT.O.)GO TO 420	GEN4 159
IHV = J-1	GEN4 160
GO TO 440	GEN4 161
420 CONTINUE	GEN4 162
C HEIGHT = HEIGHT INDEX - 1	GEN4 163
440 Z1 = IHV - 1.	GEN4 164
IF(IHV.EQ.O)GO TO 491'	GEN4 165
C SPR,SDR,STR=SIGMAS AT HEIGHT Z1	GEN4 166
SPR = SP(I,IHV)	GEN4 167
SDR=SD(I,IHV)	GEN4 168
STR=ST(I,IHV)	GEN4 169
IF(SPR.LE.O.O)SPR = 0.0004	GEN4 170
IF(SDR.LE.O.O)SDR = 0.0004	GEN4 171
IF(STR.LE.O.O)STR = 0.0004	GEN4 172
IF(IHV.GT.26-NLIMIT)GOTO 441	GEN4 173
WRITE(6,442)IHV	GEN4 174
442 FORMAT(' UNABLE TO GENERATE 4-D GRID. IHV = ',I3)	GEN4 175
STOP	GEN4 176

441	CONTINUE	GEN4 177
C.....	IF HEIGHT Z1 GEQ 20 KM, USE ZONAL MEAN AT 30 KM FOR INTERPOLATION,	GEN4 178
C	OTHERWISE USE ZONAL MEAN AT 25 KM	GEN4 179
	IF (IHV.GE.21) GO TO 480	GEN4 180
C.....	EVALUATES ZONAL MEANS AT 25 KM FOR INTERPOLATION AND	GEN4 181
C	FILL IN OF ZERO DATA	GEN4 182
	CALL GTERP(25, GLAT(I), P2, D2, T2, PG, DG, TG, DPY, DTY, U2, UG)	GEN4 183
	IHP = IHV + 1	GEN4 184
	DO 450 K=IHP, 26	GEN4 185
C.....	AVOIDS INTERPOLATION OF P, D, T IF ONLY SIGMAS ARE ZERO	GEN4 186
	IF(P(I, K).GT.O.O.AND.D(I, K).GT.O.O.AND.T(I, K).GT.O.O)GO TO 445	GEN4 187
	H=K-1	GEN4 188
C.....	INTERPOLATES BETWEEN 4D AT HEIGHT Z1 AND ZONAL MEAN AT 25 TO FILL	GEN4 189
C	IN MISSING DATA	GEN4 190
	CALL INTER2(P(I, IHV), D(I, IHV), T(I, IHV), Z1, P2, D2, T2, 25., PH, DH, TH, H)	GEN4 191
	IF(IPRT.EQ.O)WRITE(6, 583)I, K, PH, DH, TH	GEN4 192
	P(I, K)=PH	GEN4 193
	D(I, K)=DH	GEN4 194
	T(I, K)=TH	GEN4 195
445	SP(I, K) = SPR	GEN4 196
	SD(I, K)=SDR	GEN4 197
C.....	SETS MISSING SIGMAS EQUAL TO SIGMAS AT HEIGHT Z1	GEN4 198
450	ST(I, K)=STR	GEN4 199
	GO TO 491	GEN4 200
C.....	EVALUATES ZONAL MEANS AT 30 KM FOR INTERPRETATION AND FILL IN OF	GEN4 201
C	ZERO DATA	GEN4 202
480	CALL GTERP(30, GLAT(I), P2, D2, T2, PG, DG, TG, DPY, DTY, U2, UG)	GEN4 203
C	COMPUTE PERTURBATIONS TO ZONAL MEAN MODEL	GEN4 204
	CALL PDTUV(PSP, DSP, TSP, USP, VSP, GLAT(I), GLON(I), 30, DP, DD, DT,	GEN4 205
	\$ DPX, DPY, DTX, DTY, DU, DV)	GEN4 206
C.....	ADD STATIONARY PERTURBATIONS TO ZONAL MEAN MODEL	GEN4 207
	P2 = P2*(1. + DP)	GEN4 208
	D2 = D2*(1. + DD)	GEN4 209
	T2 = T2*(1. + DT)	GEN4 210
	IHP = IHV + 1	GEN4 211
	DO 490 K=IHP, 26	GEN4 212
C.....	AVOIDS INTERPOLATING P, D, T IF ONLY SIGMAS ARE ZERO	GEN4 213
	IF(P(I, K).GT.O.O.AND.D(I, K).GT.O.O.AND.T(I, K).GT.O.O)GO TO 485	GEN4 214
	H=K-1	GEN4 215
C.....	INTERPOLATES BETWEEN 4D AT HEIGHT Z1 AND GROVES AT 30 KM TO	GEN4 216
C	FILL IN MISSING DATA	GEN4 217
	CALL INTER2(P(I, IHV), D(I, IHV), T(I, IHV), Z1, P2, D2, T2, 30., PH, DH, TH, H)	GEN4 218
	IF(IPRT.EQ.O)WRITE(6, 583)I, K, PH, DH, TH	GEN4 219
	P(I, K)=PH	GEN4 220
	D(I, K)=DH	GEN4 221
	T(I, K)=TH	GEN4 222
485	SP(I, K) = SPR	GEN4 223
	SD(I, K)=SDR	GEN4 224
C	SET MISSING SIGMAS AT HEIGHT 1	GEN4 225
490	ST(I, K) = STR	GEN4 226
491	CONTINUE	GEN4 227
	IHP = IHV - 1	GEN4 228
	SPO = SP(I, 1)	GEN4 229
	SDO = SD(I, 1)	GEN4 230

STO = ST(I,1)	GEN4 231
IF(SPO.LE.O.O)SPO = 0.0001	GEN4 232
IF(SDO.LE.O.O)SDO = 0.0001	GEN4 233
IF(STO.LE.O.O)STO = 0.0001	GEN4 234
DO 492 K = 1,9	GEN4 235
IF(SP(I,K).LE.O.) SP(I,K) = SPO	GEN4 236
IF(SD(I,K).LE.O.) SD(I,K) = SDO	GEN4 237
492 IF(ST(I,K).LE.O.) ST(I,K) = STO	GEN4 238
DO 495 K=10,IHP	GEN4 239
C.....SETS ALL ZERO SIGMAS TO SIGMA AT HEIGHT Z1	GEN4 240
IF (SP(I,K).LE.O.O.AND.P(I,K).GT.O.) SP(I,K) = SPR	GEN4 241
IF (SD(I,K).LE.O.O.AND.D(I,K).GT.O.) SD(I,K) = SDR	GEN4 242
495 IF (ST(I,K).LE.O.O.AND.T(I,K).GT.O.) ST(I,K) = STR	GEN4 243
500 PA = P(I,1)	GEN4 244
TA = T(I,1)	GEN4 245
R =287.05	GEN4 246
G = GZ*(1.+(Z/(RI-Z)))**2	GEN4 247
K = 2	GEN4 248
510 PB = P(I,K)	GEN4 249
TB = T(I,K)	GEN4 250
IF ((PB*TB).GT.O.) GO TO 520	GEN4 251
K = K + 1	GEN4 252
GO TO 510	GEN4 253
520 IF(ABS(TA-TB).LE.O.01)GOTO 570	GEN4 254
560 IF(TA*TB.LE.O.O)GO TO 570	GEN4 255
TZ = (TA-TB) / ALOG(TA/TB)	GEN4 256
GO TO 575	GEN4 257
570 TZ = TA	GEN4 258
575 HS = K - 1.	GEN4 259
IF(PB*PA.LE.O.O)GO TO 576	GEN4 260
HS = K - 1. + 0.001*R*TZ*ALOG(PB/PA)/G	GEN4 261
576 KM = K - 2	GEN4 262
IF(ABS(K-1-HS).GT.O.1) GO TO 578	GEN4 263
GAM=TB-T(I,K+1)	GEN4 264
IF(ABS(GAM).LE.O.01)GOTO 590	GEN4 265
GO TO 582	GEN4 266
578 IF(ABS(TA-TB).LE.O.01)GOTO 590	GEN4 267
580 GAM=(TA-TB)/(K-1-HS)	GEN4 268
582 KM1=KM+1	GEN4 269
IF(ABS(GAM).GT.G) GAM=SIGN(G,GAM)	GEN4 270
DO 585 JD=1,KM1,1	GEN4 271
J=JD-1	GEN4 272
TJ=TA-GAM*(J-HS)	GEN4 273
PJ=PA*(TJ/TA)**(G/(R*GAM*0.001))	GEN4 274
DJ=PJ/(R*TJ)	GEN4 275
IF(IPRT.EQ.O)WRITE(6,583)I,J+1,PJ,DJ,TJ	GEN4 276
583 FORMAT(' NEW VALUES COMPUTED AT I,J P,D,T ',214,F9.0,F9.5,F9.2)	GEN4 277
P(I,J+1)=PJ	GEN4 278
D(I,J+1)=DJ	GEN4 279
585 T(I,J+1)=TJ	GEN4 280
GO TO 599	GEN4 281
590 KM1=KM+1	GEN4 282
DO 595 JD=1,KM1,1	GEN4 283
J=JD-1	GEN4 284

	TJ=TA	GEN4 285
	PJ=PA*EXP(-G*(J-HS)/(R*0.001*TJ))	GEN4 286
	DJ=PJ/(R*TJ)	GEN4 287
	IF(IPRT.EQ.0)WRITE(6,583)I,J+1,PJ,DJ,TJ	GEN4 288
	P(I,J+1)=PJ	GEN4 289
	D(I,J+1)=DJ	GEN4 290
595	T(I,J+1)=TJ	GEN4 291
	IF(NSAME.EQ.2) NSAME=1	GEN4 292
599	HS=0.	GEN4 293
	KOUNT = I	GEN4 294
	CALL ADJUST	GEN4 295
600	CONTINUE	GEN4 296
	RETURN	GEN4 297
	END	GEN4 298
	SUBROUTINE GETNMC	GETN 1
C		GETN 2
C	READS DATA FILE FOR NMC GRID NUMBERS,	GETN 3
C	AND WRITES SCRATCH FILE FOR USE BY SELEC4.	GETN 4
C		GETN 5
	DIMENSION IP(15)	GETN 6
	CHARACTER N*2, IDUMMY*2	GETN 7
C		GETN 8
	COMMON/IOTEMP/ IOTEM1,IOTEM2,IUS,IDUM(60)	GETN 9
C		GETN 10
	NREC=0	GETN 11
C		GETN 12
1	READ(IUS,300,END=90) N,IP	GETN 13
300	FORMAT(A2,15I7)	GETN 14
	IF(N.NE.'N') GO TO 6	GETN 15
3	DO 4 I=1,15,3	GETN 16
	M=IP(I)	GETN 17
	IF(M.LT.1) GO TO 5	GETN 18
	IJ=IP(I+1)*1000+IP(I+2)	GETN 19
	WRITE(IOTEM2) IJ	GETN 20
	NREC=NREC+1	GETN 21
4	CONTINUE	GETN 22
	GO TO 1	GETN 23
5	IF(NREC.NE.1977) GO TO 6	GETN 24
7	RETURN	GETN 25
6	WRITE(6,200) NREC,IOTEM2	GETN 26
200	FORMAT(1H1/1X,16,' RECORDS WRITTEN BY GETNMC IN SCRATCH FILE',I3)	GETN 27
	STOP	GETN 28
90	WRITE(6,400) IUS	GETN 29
400	FORMAT('1 PREMATURE END-OF-FILE FOUND ON UNIT ',I2/	GETN 30
	1'O CALLED FROM SUBROUTINE GETNMC.')	GETN 31
	STOP ' GETNMC ERROR.'	GETN 32
	END	GETN 33
	SUBROUTINE GRID4D	GRID 1
	REAL LAT,LON	GRID 2
	COMMON/C4/LAT(16),LON(16),NP,P(16,26),R(16,26),T(16,26),SP(16,26),	GRID 3
	& SR(16,26),ST(16,26),DU1,DU2,DUMMY	GRID 4
	COMMON /PDTCOM/IT,MONTH,IDUM,DUMMY1(30851),DUM2(2261)	GRID 5
	COMMON /IPRTP/IPRT,NLIMIT	GRID 6
C		GRID 7

C	SUBROUTINE TO SELECT PRESSURE, TEMPERATURE, AND DENSITY PROFILES (GRID	8
C	TOGETHER WITH THE NORMALIZED VARIABLES IN EACH	GRID 9
C	AT LAT/LONS SELECTED BY CALLING PROGRAM.	GRID 10
C		GRID 11
C	USES DISK FILES MADE FROM NASA HUNTSVILLE MSFC 4-D DATA TAPES	GRID 12
C		GRID 13
C		GRID 14
C	COMMON/IOTEMP/IOTEM1,IOTEM2,DUMMY2(61)	GRID 15
C	COMMON /POINT/ IPT(16,5),LL(16),DXY(16,2)	GRID 16
C	COMMON /ORDER/ IPTN(16,5),IREAD(65,3)	GRID 17
C	COMMON /INT/ D(208,5),IG(5),DYX(2),DLA(4),DLO(4)	GRID 18
C		GRID 19
C	NAME OF 4-D FILE TO OPEN	GRID 20
C	CHARACTER*7 NAME4D,FILES(12)	GRID 21
C	REAL DTEMP(213)	GRID 22
C		GRID 23
C	INITIALIZE	GRID 24
C		GRID 25
C	DATA FILES/'DAT4D01','DAT4D02','DAT4D03','DAT4D04','DAT4D05',	GRID 26
C	&'DAT4D06','DAT4D07','DAT4D08','DAT4D09','DAT4D10','DAT4D11',	GRID 27
C	&'DAT4D12'//	GRID 28
C	ZERO=0.0	GRID 29
C	ONE=1.0	GRID 30
C	TEN=10.0	GRID 31
C	HUNDR=100.0	GRID 32
C	THOU=1000.0	GRID 33
C		GRID 34
C		GRID 35
C	OPEN 4-D FILE FROM MONTH VALUE	GRID 36
C		GRID 37
C	NAME4D=FILES(MONTH)	GRID 38
C	OPEN(IT,FILE=NAME4D,STATUS='OLD',ACCESS='DIRECT',	GRID 39
C	IFORM='FORMATTED',RECL=1269)	GRID 40
C		GRID 41
C	APPROPRIATE 4-D INPUT FILE NOW POSITIONED - STORE NEEDED PROFILES	GRID 42
C		GRID 43
C		GRID 44
C	20 CALL SELEC4	GRID 45
C		GRID 46
C	DO 29 IRN=1,64	GRID 47
C	IF(IREAD(IRN,3).EQ.0)GOTO 29	GRID 48
C	II = IREAD(IRN,1)	GRID 49
C	JJ = IREAD(IRN,2)	GRID 50
C	IF(IPRT.EQ.0)WRITE(6,169)IRN,(IREAD(IRN,J),J=1,3),	GRID 51
C	& IPT(II,JJ),IPTN(II,JJ)	GRID 52
C	29 CONTINUE	GRID 53
C	DO 38 II = 1,NP	GRID 54
C	DO 19 I = 1,208	GRID 55
C	19 D(I,5) = 0.0	GRID 56
C	DO 31 J = 1,4	GRID 57
C	IF (IPTN(II,J) .EQ. 0)GOTO 31	GRID 58
C	IRN = IPTN(II,J) - 9000	GRID 59
C	IF(IPRT.EQ.0)WRITE(6,169)II,J,IRN	GRID 60
C	169 FORMAT(' GRID4D'.6I6)	GRID 61
C		GRID 62
C	READ IN RECORDS OF POINTS NEAR DESIRED LAT/LON	GRID 63

C	21 READ(11,22,REC=IRN) DTEMP	GRID 64
	22 FORMAT(20BF6.2,2F4.2,3F4.0)	GRID 65
	IF((DTEMP(213).NE.MONTH).OR.(DTEMP(212).NE.IPT(II,J))) GOTO 39	GRID 66
	DO 30 I=1,208	GRID 67
	30 D(I,J)=DTEMP(I)	GRID 68
	DLA(J)=DTEMP(209)*TEN	GRID 69
	DLO(J)=DTEMP(210)*TEN	GRID 70
	31 CONTINUE	GRID 71
C	IF(IPRT.EQ.O)WRITE(6,99)II,LAT(II),LON(II),LL(II),(IPT(II,J),	GRID 72
	& DLA(J),DLO(J),D(1,J)*HUNDR,D(157,J)/THOU,D(53,J),J=1,4)	GRID 73
	99 FORMAT(' 4-D DATA ',I3,2F7.2,I10/4(I5,2F7.2,F8.0,F8.5,F8.2/))	GRID 74
C	IF NECESSARY, INTERPOLATE	GRID 75
C	LALO=LL(II)	GRID 76
	DO 33 I=1,5	GRID 77
	IG(I)=IPT(II,I)	GRID 78
	33 CONTINUE	GRID 79
	IF(IG(2).NE.O) GO TO 35	GRID 80
	DO 34 I=1,208	GRID 81
	D(I,5)=D(I,1)	GRID 82
	34 CONTINUE	GRID 83
	GO TO 37	GRID 84
	35 IF(IG(5).NE.2) GO TO 36	GRID 85
	DYX(1)=DXY(II,1)	GRID 86
	DYX(2)=DXY(II,2)	GRID 87
C		GRID 88
	36 CALL INTRP4 (LALO)	GRID 89
C		GRID 90
	37 DO 38 I=1,26	GRID 91
	P(II,I)=D(I,5)*HUNDR	GRID 92
	R(II,I)=D(I+156,5)/THOU	GRID 93
	T(II,I)=D(I+52,5)	GRID 94
	DIVIDE=ONE	GRID 95
	IF(P(II,I).GT.ZERO) DIVIDE=(P(II,I)/HUNDR)**2	GRID 96
	SP(II,I)=D(I+26,5)/DIVIDE	GRID 97
	SR(II,I)=ABS(SP(II,I))	GRID 98
	DIVIDE=ONE	GRID 99
	IF(R(II,I).GT.ZERO) DIVIDE=(THOU*R(II,I))**2	GRID 100
	SR(II,I)=D(I+182,5)/DIVIDE	GRID 101
	SR(II,I)=ABS(SR(II,I))	GRID 102
	DIVIDE=ONE	GRID 103
	IF(T(II,I).GT.ZERO) DIVIDE=T(II,I)**2	GRID 104
	ST(II,I)=D(I+78,5)/DIVIDE	GRID 105
	ST(II,I)=ABS(ST(II,I))	GRID 106
	38 CONTINUE	GRID 107
	IF(IPRT.NE.O)RETURN	GRID 108
	WRITE(6,2000)(LAT(I),I=1,NP)	GRID 109
	WRITE(6,2001)(LON(I),I=1,NP)	GRID 110
	WRITE(6,2007)	GRID 111
	DO 501 I = 1,26	GRID 112
	IH = I - 1	GRID 113
	WRITE(6,2004)IH,(SQRT(SP(J,I)),J=1,NP)	GRID 114
		GRID 115
		GRID 116
		GRID 117

501	WRITE(6,2002)IH,(P(J,I),J=1,NP)	GRID 118
	WRITE(6,2003)	GRID 119
	DO 502 I = 1,26	GRID 120
	IH = I - 1	GRID 121
	WRITE(6,2004)IH,(SQRT(SR(J,I)),J=1,NP)	GRID 122
502	WRITE(6,2004)IH,(R(J,I),J=1,NP)	GRID 123
	WRITE(6,2005)	GRID 124
	DO 503 I = 1,26	GRID 125
	IH = I - 1	GRID 126
	WRITE(6,2004)IH,(SQRT(ST(J,I)),J=1,NP)	GRID 127
503	WRITE(6,2006)IH,(T(J,I),J=1,NP)	GRID 128
2000	FORMAT(' 4-D DATA READ IN FROM FILE'' LATITUDE''/3X,16F8.3)	GRID 129
2001	FORMAT(' LONGITUDE''/3X,16F8.3)	GRID 130
2007	FORMAT(' PRESSURE')	GRID 131
2002	FORMAT(1X,I2,16F8.0)	GRID 132
2003	FORMAT(' DENSITY')	GRID 133
2004	FORMAT(1X,I2,16F8.5)	GRID 134
2005	FORMAT(' TEMPERATURE')	GRID 135
2006	FORMAT(1X,I2,16F8.2)	GRID 136
	RETURN	GRID 137
39	WRITE(6,40) IT,IRN,DTEMP(213),MONTH,DTEMP(212),II,J,IPT(II,J)	GRID 138
40	FORMAT(' ***** UNIT NO. ',I3,' IN ERROR.')	GRID 139
	1 ' IRN =',I5,' DTEMP(213) =',I3,' MONTH =',I3,' DTEMP(212) =',I5,	GRID 140
	& ' IPT(',I2,',',I1,',') =',I5)	GRID 141
	STOP	GRID 142
	END	GRID 143
	SUBROUTINE GROUP	GROU 1
	DIMENSION KOU(2)	GROU 2
	COMMON/CHIC/LA(4,4),NB(2),IWSYM,USH,VSH,DUSH,DVSH	GROU 3
	COMMON /CHK/P(4,4,3),DEN(4,4,3),NO(2)	GROU 4
	COMMON/WINCOM/DGH,FCORY,DX5,DY5,DUMMY(14)	GROU 5
	FCORX = FCORY*DX5/DY5	GROU 6
	KK=1	GROU 7
	DO 100 I=1,4	GROU 8
	DO 100 J=1,4	GROU 9
	LA(I,J)=4*(I-1)+J	GROU 10
100	CONTINUE	GROU 11
200	CONTINUE	GROU 12
	DO 250 M=1,4	GROU 13
	DO 250 N=1,4	GROU 14
	IF (KK.EQ.1) GO TO 210	GROU 15
	I=5-M	GROU 16
	J=5-N	GROU 17
	NN=-1	GROU 18
	N4=-1	GROU 19
	GO TO 220	GROU 20
210	CONTINUE	GROU 21
	I=M	GROU 22
	J=N	GROU 23
	NN=1	GROU 24
	N4=1	GROU 25
220	CONTINUE	GROU 26
	IF (N.EQ.4) GO TO 225	GROU 27
	DINX=FCORX*(DEN(I,J+NN,2)+DEN(I,J,2))/2	GROU 28

	IF (ABS(DINX).LE.O.)GO TO 225	GROU 29
	VY=(P(I,J+NN,2)-P(I,J,2))/DINX	GROU 30
	IF (ABS(VY).GT.100) GO TO 225	GROU 31
	LA(I,J)=MINO(LA(I,J),LA(I,J+NN))	GROU 32
	LA(I,J+NN)=LA(I,J)	GROU 33
225	CONTINUE	GROU 34
	IF (M.EQ.4) GO TO 250	GROU 35
	DINY=FCORY* (DEN(I+N4,J,2)+DEN(I,J,2))/2	GROU 36
	IF (ABS(DINY).LE.O.)GO TO 250	GROU 37
	VX=(P(I+N4,J,2)-P(I,J,2))/DINY	GROU 38
	IF (ABS(VX).GT.100) GO TO 250	GROU 39
	LA(I,J)=MINO(LA(I,J),LA(I+N4,J))	GROU 40
	LA(I+N4,J)=LA(I,J)	GROU 41
250	CONTINUE	GROU 42
	KK=KK+1	GROU 43
	IF (KK.EQ.2) GO TO 200	GROU 44
	NO(1)=0	GROU 45
	NO(2)=0	GROU 46
	II=1	GROU 47
	DO 400 LL=1,11	GROU 48
	KOU(II)=1	GROU 49
	DO 300 I=1,4	GROU 50
	DO 300 J=1,4	GROU 51
	IF (LA(I,J).EQ.LL) KOU(II)=KOU(II)+1	GROU 52
300	CONTINUE	GROU 53
	IF (KOU(II).GE.7) NO(II)=LL	GROU 54
	IF (KOU(II).GE.7) II=2	GROU 55
400	CONTINUE	GROU 56
	RETURN	GROU 57
	END	GROU 58
	SUBROUTINE GTERP(IH,PHI,P,D,T,PG,DG,TG,DPY,DTY,U,UG)	GTER 1
C....	INTERPOLATES ZONAL MEAN DATA TO HEIGHT IH AND LATITUDE PHI	GTER 2
	DIMENSION PG(21,19),TG(21,19),DG(21,19),UG(21,19)	GTER 3
C	HEIGHT INDEX	GTER 4
	I = (IH - 15)/5	GTER 5
	IF (I.GT.21) I=21	GTER 6
C	LOWER LATITUDE INDEX	GTER 7
	J = INT((PHI + 100.)/10.)	GTER 8
	IF (J.LT.1) J = 1	GTER 9
	IF (J.GT.18) J = 18	GTER 10
C	UPPER LATITUDE INDEX	GTER 11
	JP = J + 1	GTER 12
C....	CHECK FOR DENSITY OR TEMPERATURE LEQ O	GTER 13
	CHK = DG(I,J) * TG(I,J) * DG(I,JP) * TG(I,JP)	GTER 14
	IF (CHK) 10,10,20	GTER 15
10	P = PG(I,J)	GTER 16
	D = DG(I,J)	GTER 17
	T = TG(I,J)	GTER 18
	GO TO 30	GTER 19
C....	LATITUDE DEVIATION FROM ZONAL MFAN POSITION	GTER 20
20	PHIF = (PHI + 100. - 10.*J)/10.	GTER 21
	TL= TG(I,J) + (TG(I,JP) - TG(I,J))*PHIF	GTER 22
C	LATITUDE INTERPOLATION	GTER 23
	DL= DG(I,J) + (DG(I,JP) - DG(I,J)) *PHIF	GTER 24

	U=UG(I,J)+(UG(I,JP)-UG(I,J))*PHIF	GTER	25
	R1 = PG(I,J)/(DG(I,J)*TG(I,J))	GTER	26
	R2 = PG(I,JP)/(DG(I,JP)*TG(I,JP))	GTER	27
C	INTERPOLATED GAS CONSTANT	GTER	28
	R = R1 + (R2 - R1)*PHIF	GTER	29
C	PRESSURE COMPUTED FROM INTERPOLATED GAS CONSTANT	GTER	30
	P = DL*R*TL	GTER	31
	D = DL	GTER	32
	T = TL	GTER	33
C	DP/DY FOR GEOSTOPHIC WINDS	GTER	34
30	DPY = (PG(I,JP) - PG(I,J)) * 0.5	GTER	35
C	DT/DY FOR THERMAL WINDS	GTER	36
	DTY = (TG(I,JP) - TG(I,J)) * 0.5	GTER	37
	IF (ABS(PHI)-90.) 50,40,40	GTER	38
40	DPY = 0.	GTER	39
	DTY = 0.	GTER	40
50	CONTINUE	GTER	41
	RETURN	GTER	42
	END	GTER	43
	SUBROUTINE INTERW(U1,V1,Z1,U2,V2,Z2,U,V,Z)	INTW	1
	IF (Z1 - Z2) 20,10,20	INTW	2
10	U = U1	INTW	3
C	SETS U,V = U1,V1 IF Z1 = Z2	INTW	4
	V = V1	INTW	5
	RETURN	INTW	6
20	A = (Z-Z1)/(Z2-Z1)	INTW	7
	U = U1 + (U2-U1) * A	INTW	8
	V = V1 + (V2-V1) * A	INTW	9
C.....	LINEAR INTERPOLATION BETWEEN U1,V1 AT HEIGHT Z1 AND U2,V2 AT	INTW	10
C	HEIGHT Z2. OUTPUT IS U,V AT HEIGHT Z	INTW	11
	RETURN	INTW	12
	END	INTW	13
	SUBROUTINE INTERZ(P1,D1,T1,Z1,P2,D2,T2,Z2,P,D,T,Z)	INTZ	1
5	IF (Z1 - Z2) 20,10,20	INTZ	2
10	P = P1	INTZ	3
	D = D1	INTZ	4
C	SETS P, D, T = P1,D1,T1, IF Z1 = Z2	INTZ	5
	T = T1	INTZ	6
	RETURN	INTZ	7
20	A = (Z - Z1)/ (Z2 - Z1)	INTZ	8
	T = T1 + (T2 - T1)*A	INTZ	9
	D = D1 + (D2 - D1)*A	INTZ	10
	P = P1 + (P2 - P1) * A	INTZ	11
C.....	LINEAR INTERPOLATION BETWEEN P1,D1,T1 AT HEIGHT Z1 AND P2,D2,T2	INTZ	12
C	AT HEIGHT Z2 TO OUTPUT VALUES OF P,D,T AT HEIGHT Z	INTZ	13
	RETURN	INTZ	14
	END	INTZ	15
	SUBROUTINE INTER2(P1,D1,T1,Z1,P2,D2,T2,Z2,P,D,T,Z)	INT2	1
C.....	INTERPOLATES BETWEEN P1,D1,T1 AT HEIGHT Z1 AND P2,D2,T2 AT	INT2	2
C	HEIGHT Z2 TO OUTPUT VALUES OF P,D,T AT HEIGHT Z	INT2	3
C.....	CHECKS FOR T1,D1,T2,D2 PRODUCT = 0, FOR GAS CONSTANT INTERPOLATION	INT2	4
	CHK=T1*D1*T2*D2	INT2	5
	IF (CHK) 10,10,5	INT2	6
5	IF (Z1 - Z2) 20,10,20	INT2	7

10	P = P1	INT2	8
	D = D1	INT2	9
C	SETS P,D,T = P1,D1,T1 IF Z1=Z2	INT2	10
	T = T1	INT2	11
	RETURN	INT2	12
20	IF(P1*D1*T1*P2*D2*T2.LE.O.)GO TO 30	INT2	13
	IF(D2*D1.LE.O.O)GO TO 30	INT2	14
	A=ALOG(D2/D1)/(Z2-Z1)	INT2	15
C	LINEAR INTERPOLATION ON LOG D	INT2	16
	DZ= D1*EXP(A*(Z - Z1))	INT2	17
	A=(Z-Z1)/(Z2-Z1)	INT2	18
C	LINEAR INTERPOLATION ON T	INT2	19
	TZ= T1 + A*(T2-T1)	INT2	20
	R1=P1/(D1*T1)	INT2	21
	R2=P2/(D2*T2)	INT2	22
C	LINEAR INTERPOLATION ON GAS CONSTANT R	INT2	23
	R=(R2-R1)*A+R1	INT2	24
C	PRESSURE FROM PERFECT GAS LAW	INT2	25
	P = DZ * R * TZ	INT2	26
	D = DZ	INT2	27
	T = TZ	INT2	28
	RETURN	INT2	29
30	P=0.	INT2	30
	D=0.	INT2	31
	T=0.	INT2	32
	RETURN	INT2	33
	END	INT2	34
	SUBROUTINE INTER4 (CLAT, CLON, IZ, P, D, T,	INT4	1
	\$ P4,D4,T4,DPX,DPY,DTX,DTY)	INT4	2
	COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DD, XMJD,PHI1,PHI,	INT4	3
	& NSAME,DUMMY2(55)	INT4	4
C	INTERPOLATES BETWEEN 4D ARRAYS P(I,IH),D(I,IH),T(I,IH) AT GRID	INT4	5
C	LOCATIONS LATITUDE GLAT(I) LONGITUDE GLON(I).	INT4	6
C	CLAT,CLON = CURRENT LATITUDE, LONGITUDE	INT4	7
C	IZ = HEIGHT NG = NUMBER OF 4D GRID POSITIONS	INT4	8
C	OUTPUT = P4,D4,T4, AND DERIVATIVES DPX,DPY,DTX,DTY	INT4	9
	COMMON/C4/GLAT(16),GLON(16),NG,DUMMY(2499)	INT4	10
	COMMON/CHIC/LA(4,4),NB(2),IWSYM,USH,VSH,DUSH,DVSH	INT4	11
	DIMENSION P(16,26),D(16,26),T(16,26),LAX(16)	INT4	12
	IWSYM=ICHAR('')	INT4	13
	ICLK = 0	INT4	14
C	HEIGHT INDEX = HEIGHT + 1	INT4	15
	IH = IZ + 1	INT4	16
5	IF (ICLK.GT.1) GO TO 220	INT4	17
	IF (NG.GT.9) GO TO 100	INT4	18
C	NG = 9 MEANS POLAR GRID	INT4	19
	XLON=CLON	INT4	20
	DO 10 I=10,16,1	INT4	21
	P(I,IH) = P(9,IH)	INT4	22
	D(I,IH) = D(9,IH)	INT4	23
	T(I,IH) = T(9,IH)	INT4	24
	GLAT(I) = GLAT(9)	INT4	25
C	I=10-16 ALL AT 90 DEG	INT4	26
10	GLON(I) = GLON(I-8)	INT4	27

C	LOWER RIGHT INTERPOLATION INDEX	INT4	28
	IB = INT(CLON/45) + 1	INT4	29
C	LOWER LEFT INTERPOLATION INDEX	INT4	30
	IA = IB+1	INT4	31
	IF (IA.GT.8) IA = IA-8	INT4	32
C	POSITION OUTSIDE POLAR GRID	INT4	33
	IF (ABS(CLAT).LT.75.) GO TO 20	INT4	34
C	UPPER LEFT INTERPOLATION INDEX	INT4	35
	IC = IA + 8	INT4	36
C	UPPER RIGHT INTERPOLATION INDEX	INT4	37
	ID = IB + 8	INT4	38
	GO TO 300	INT4	39
20	IF(NSAME.EQ.1) NSAME=2	INT4	40
	CALL GEN4D	INT4	41
	ICLK = ICHK + 1	INT4	42
	GO TO 5	INT4	43
100	XLON = CLON	INT4	44
	DO 105 I = 1,4	INT4	45
	DO 105 J = 1,4	INT4	46
	I16 = 4*(I-1) + J	INT4	47
	LAX(I16) = LA(I,J)	INT4	48
105	CONTINUE	INT4	49
	IF(XLON-GLON(1).GT.180.)XLON = CLON - 360.	INT4	50
C....	CHECKS FOR POSITION WITHIN 16 POINT GRID 110=GOOD. 200=POSITION	INT4	51
C	OUTSIDE GRID.	INT4	52
	IF (CLAT.GE.GLAT(1) .AND. CLAT.LT.GLAT(16) .AND. XLON.LE.GLON(1)	INT4	53
	\$.AND.XLON.GT.GLON(16)) GO TO 110	INT4	54
	GO TO 200	INT4	55
110	NDL=5	INT4	56
	IF (ABS(CLAT).LT.18) NDL=12	INT4	57
	IA = 1 + INT((GLON(1) - XLON) / 5)	INT4	58
C....	IA = LOWER LEFT (REFERENCE) INTERPOLATION INDEX	INT4	59
	IA = IA + 4 * INT((CLAT - GLAT(1)) / NDL)	INT4	60
C	LOWER RIGHT INTERPOLATION INDEX	INT4	61
	IB = IA + 1	INT4	62
C	UPPER LEFT INTERPOLATION INDEX	INT4	63
	IC = IA + 4	INT4	64
C	UPPER RIGHT INTERPOLATION INDEX	INT4	65
	ID = IA + 5	INT4	66
	GO TO 300	INT4	67
200	IF(NSAME.EQ.1)NSAME=2	INT4	68
	CALL GEN4D	INT4	69
	ICLK = ICHK + 1	INT4	70
	GO TO 5	INT4	71
220	WRITE(6,250)	INT4	72
250	FORMAT(' UNABLE TO GENERATE 4-D GRID. TOO MANY RETRIES IN INTER4')	INT4	73
	P4=0.	INT4	74
	D4=0.	INT4	75
	T4=0.	INT4	76
	RETURN	INT4	77
C....	INTERPOLATION FOR POSITION INSIDE 16 POINT GRID OR POLAR GRID	INT4	78
300	CALL INTLL(P,IA,IB,IC,ID,P4,GLAT,GLON,CLAT,XLON,IH)	INT4	79
	CALL INTLL(D,IA,IB,IC,ID,D4,GLAT,GLON,CLAT,XLON,IH)	INT4	80
	CALL INTLL(T,IA,IB,IC,ID,T4,GLAT,GLON,CLAT,XLON,IH)	INT4	81

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C.....RELATIVE LONGITUDE DISPLACEMENT FROM REFERENCE POSITION (IA)          INT4  82
      DLON = (XLON - GLON(IA))/(GLON(IB) - GLON(IA))                          INT4  83
C.....RELATIVE LATITUDE DISPLACEMENT FROM REFERENCE POSITION(IA)            INT4  84
      DLAT = (CLAT - GLAT(IA))/(GLAT(IC) - GLAT(IA))                          INT4  85
      DPX=P(IB,IH)-P(IA,IH)                                                  INT4  86
C.....DP/DX FOR GEOSTROPHIC WIND EQUATIONS                                  INT4  87
      DPX = DPX + (P(ID,IH) - P(IC,IH) - DPX)*DLAT                            INT4  88
      DTX = T(IB,IH) - T(IA,IH)                                              INT4  89
C.....DT/DX FOR THERMAL WIND EQUATIONS                                      INT4  90
      DTX = DTX + (T(ID,IH) - T(IC,IH) - DTX)*DLAT                            INT4  91
      DPY = P(IC,IH) - P(IA,IH)                                              INT4  92
C.....DP/DY FOR GEOSTROPHIC WIND EQUATIONS                                  INT4  93
      DPY = DPY + (P(ID,IH) - P(IB,IH) - DPY)*DLON                            INT4  94
      DTY = T(IC,IH) - T(IA,IH)                                              INT4  95
C.....DT/DY FOR THERMAL WIND EQUATIONS                                      INT4  96
      DTY = DTY + (T(ID,IH) - T(IB,IH) - DTY)*DLON                            INT4  97
      IF(NG.GT.9) GO TO 315                                                    INT4  98
      DPX=DPX/9.                                                              INT4  99
      DTX=DTX/9.                                                              INT4 100
      DPY=SIGN(DPY/3.,CLAT)                                                  INT4 101
      DTY=SIGN(DTY/3.,CLAT)                                                  INT4 102
315  IF(ABS(CLAT).GT.18) GO TO 312                                           INT4 103
      DPY=DPY*5./12                                                           INT4 104
      DTY=DTY*5./12                                                           INT4 105
312  RETURN                                                                    INT4 106
      END                                                                      INT4 107
      SUBROUTINE INTLL(F,IA,IB,IC,ID,FLL,GLAT,GLON,CLAT,CLON,IH)              INTL   1
C.....INTERPOLATES FUNCTION (ARRAY) F FROM VALUES OF GLAT AND GLON AT     INTL   2
C      INDEX VALUES IA, IB, IC, ID TO OUTPUT VALUE FLL AT HEIGHT IH        INTL   3
C      AND POSITION CLAT, CLON                                                 INTL   4
      DIMENSION F(16,26),GLAT(16),GLON(16)                                    INTL   5
C.....NORMALIZES LONGITUDE DISPLACEMENT                                     INTL   6
      IF(F(IA,IH)*F(IB,IH)*F(IC,IH)*F(ID,IH)) 20,10,20                      INTL   7
10  FLL=0.                                                                      INTL   8
      RETURN                                                                    INTL   9
20  X=(CLON-GLON(IB))/(GLON(IA)-GLON(IB))                                    INTL  10
C.....NORMALIZES LATITUDE DISPLACEMENT                                     INTL  11
      Y=(CLAT-GLAT(IA))/(GLAT(IC)-GLAT(IA))                                  INTL  12
C.....TWO DIMENSIONAL INTERPOLATION                                         INTL  13
      FLL=F(IB,IH)+(F(ID,IH)-F(IB,IH))*Y+(F(IA,IH)-F(IB,IH))*X              INTL  14
1  +(F(IC,IH)-F(IA,IH)-F(ID,IH)+F(IB,IH))*X*Y                                INTL  15
      RETURN                                                                    INTL  16
      END                                                                      INTL  17
      SUBROUTINE INTRP4 (LALON)                                               INTR   1
C                                                                              INTR   2
C      SUBROUTINE TO INTERPOLATE VALUES                                     INTR   3
C                                                                              INTR   4
      DIMENSION XLL(4),YLL(4),XC(4),YC(4)                                     INTR   5
C                                                                              INTR   6
      COMMON/INT/D(208,5),IG(5),DXY(2),DLA(4),DLO(4)                         INTR   7
C                                                                              INTR   8
      DEGRAD=3.14159/180.                                                    INTR   9
      LALO=IABS(LALON)                                                         INTR  10
      L1=LALO/10000                                                            INTR  11

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	L2=LALO-L1*10000	INTR	12
	XL=L1/10.	INTR	13
	YL=L2/10.	INTR	14
	IF (IG(5)-2) 30,20,10	INTR	15
	10 IF (IG(5)-3) 30,30,50	INTR	16
C		INTR	17
C	INTERPOLATE FROM NMC GRID	INTR	18
C		INTR	19
	20 CONTINUE	INTR	20
	DO 25 L=1,26	INTR	21
	DO 22 J=1,4	INTR	22
	22 IF (D(L,J).LT.O.01) GO TO 25	INTR	23
	DO 24 K=1,8	INTR	24
	I=(K-1)*26+L	INTR	25
	D(I,5)=(1.-DXY(2))*((1.-DXY(1))*D(I,1)+DXY(1)*D(I,2))	INTR	26
	1 +DXY(2)*((1.-DXY(1))*D(I,3)+DXY(1)*D(I,4))	INTR	27
	24 CONTINUE	INTR	28
	25 CONTINUE	INTR	29
	RETURN	INTR	30
C		INTR	31
C	INTERPOLATE FROM EQUATION FOR SOUTHERN HEMISPHERE GRID	INTR	32
C		INTR	33
	30 CONTINUE	INTR	34
	DO 32 J=1,2	INTR	35
	XLL(J)=DLA(J)	INTR	36
	YLL(J)=DLO(J)	INTR	37
	IF ((YL.GE.355.).AND.(YLL(J).LT.O.01)) YLL(J)=360.	INTR	38
	32 CONTINUE	INTR	39
	X=(YLL(1)-YL)/5.	INTR	40
	Y=(XL-XLL(1))/5.	INTR	41
	IF (IG(5).EQ.3) Y=-Y	INTR	42
	DO 38 L=1,26	INTR	43
	DO 36 J=1,4	INTR	44
	36 IF (D(L,J).LT.O.01) GO TO 38	INTR	45
	DO 37 K=1,8	INTR	46
	I=(K-1)*26+L	INTR	47
	D(I,5)=D(I,1)+X*(D(I,2)-D(I,1))+Y*(D(I,3)-D(I,1))+X*Y*	INTR	48
	1 (D(I,4)-D(I,3)-D(I,2)+D(I,1))	INTR	49
	37 CONTINUE	INTR	50
	38 CONTINUE	INTR	51
	RETURN	INTR	52
C		INTR	53
C	INTERPOLATE FROM ACROSS GRIDS	INTR	54
C		INTR	55
	50 CONTINUE	INTR	56
	IF (IG(5).NE.1133) GO TO 55	INTR	57
	IG(5)=3	INTR	58
	GO TO 30	INTR	59
	55 CONTINUE	INTR	60
	IF (IG(5).NE.333) GO TO 60	INTR	61
	DLO(1)=(DLO(2)+DLO(3))/2.	INTR	62
	DO 52 I=1,208	INTR	63
	52 D(I,4)=D(I,3)	INTR	64
	DLA(4)=DLA(3)	INTR	65

DLO(4)=DLO(3)	INTR 66
60 CONTINUE	INTR 67
DO 62 I=1,4	INTR 68
XLL(I)=DLA(I)	INTR 69
YLL(I)=DLO(I)	INTR 70
IF ((YL.GT.350.).AND.(YLL(I).LT.O.O1)) YLL(I)=360.	INTR 71
62 CONTINUE	INTR 72
ITH=O	INTR 73
X=YLL(1)-YL	INTR 74
Y=XL-XLL(1)	INTR 75
63 CONTINUE	INTR 76
DO 65 I=2,4	INTR 77
XC(I)=YLL(1)-YLL(I)	INTR 78
65 YC(I)=XLL(I)-XLL(1)	INTR 79
TH2=3.14159/4	INTR 80
TH3=3.14159/4	INTR 81
IF (ABS(XC(2)).GT.O.O1) TH2=ATAN(YC(2)/XC(2))	INTR 82
IF (ABS(YC(3)).GT.O.O1) TH3=ATAN(XC(3)/YC(3))	INTR 83
IF (XC(2).LT.O.) TH2=3.14159+TH2	INTR 84
IF (XC(3).LT.O.) TH3=3.14159+TH3	INTR 85
DNN=COS(TH2+TH3)	INTR 86
IF (ABS(DNN).GT.O.OO1) GO TO 66	INTR 87
ITH=ITH+1	INTR 88
IF (ITH.EQ.2) GO TO 66	INTR 89
XLL(3)=XLL(4)	INTR 90
YLL(3)=YLL(4)	INTR 91
DO 61 I=1,208	INTR 92
61 D(I,3)=D(I,4)	INTR 93
GO TO 63	INTR 94
66 CONTINUE	INTR 95
ZA=SQRT(XC(2)**2+YC(2)**2)	INTR 96
IF (ITH.LT.2) GO TO 69	INTR 97
Z=SQRT(X**2+Y**2)	INTR 98
E=O.	INTR 99
Z4=O.	INTR 100
GO TO 71	INTR 101
69 CONTINUE	INTR 102
EB=SQRT(XC(3)**2+YC(3)**2)	INTR 103
Z4=(XC(4)*COS(TH3)-YC(4)*SIN(TH3))/DNN	INTR 104
E4=(YC(4)*COS(TH2)-XC(4)*SIN(TH2))/DNN	INTR 105
Z=(X*COS(TH3)-Y*SIN(TH3))/DNN	INTR 106
E=(Y*COS(TH2)-X*SIN(TH2))/DNN	INTR 107
B=O.	INTR 108
C=O.	INTR 109
DD=O.	INTR 110
C	INTR 111
71 CONTINUE	INTR 112
DO 70 L=1,26	INTR 113
DO 68 J=1,4	INTR 114
68 IF (D(L,J).LT.O.O1) GO TO 70	INTR 115
DO 67 K=1,8	INTR 116
I=(K-1)*26+L	INTR 117
A=D(I,1)	INTR 118
IF (ZA.GT.O.O1) B=(D(I,2)-D(I,1))/ZA	INTR 119

IF (EB.GT.0.01) C=(D(I,3)-D(I,1))/EB	INTR 120
IF ((ABS(Z4).GT.0.01).AND.(ABS(E4).GT.0.01))	INTR 121
1 DD=(D(I,4)-A-B*Z4-C*E4)/(Z4+E4)	INTR 122
D(I,5)=A+B*Z+C*E+DD*Z+E	INTR 123
67 CONTINUE	INTR 124
70 CONTINUE	INTR 125
RETURN	INTR 126
END	INTR 127
SUBROUTINE INTRUV(UR,VR,H,PHI,SUH,SVH)	INUV 1
C.....FINDS RANDOM WIND STANDARD DEVIATION AT HEIGHT H (KM), LATITUDE	INUV 2
C PHI (DEGREES), FROM UR AND VR ARRAYS	INUV 3
DIMENSION UR(29,19),VR(29,19)	INUV 4
C.....I - LOWER HEIGHT INDEX	INUV 5
I=1+INT(H)/5	INUV 6
IF (H.GE.125) I=25+(INT(H)-120)/20	INUV 7
IF (I.GT.29) I=29	INUV 7A
C UPPER HEIGHT INDEX	INUV 8
IP=I+1	INUV 9
IF (IP.GT.29) IP=29	INUV 10
C LOWER LATITUDE INDEX	INUV 11
J=INT(PHI+100.)/10	INUV 12
C UPPER LATITUDE INDEX	INUV 13
JP=J+1	INUV 14
IF (JP.GT.19) JP=19	INUV 15
C.....PHI1 - LOWER LATITUDE FOR UR AND VR ARRAY VALUES	INUV 16
PHI1=-100.+10.*J	INUV 17
C.....PHI2 - UPPER LATITUDE FOR UR AND VR ARRAY VALUES	INUV 18
PHI2=-100.+10.*JP	INUV 19
IF (I.GT.25) GO TO 10	INUV 20
C LOWER HEIGHT FOR UR AND VR ARRAY VALUES	INUV 21
Z1=5.*(I-1)	INUV 22
GO TO 20	INUV 23
10 Z1=20.*(I-19)	INUV 24
20 IF(IP.GT.25) GO TO 30	INUV 25
C UPPER HEIGHT FOR UR AND VR ARRAY VALUES	INUV 26
Z2=5.*(IP-1)	INUV 27
GO TO 40	INUV 28
30 Z2=20.*(IP-19)	INUV 29
C INTERPOLATE ON LATITUDE AT LOWER HEIGHT	INUV 30
40 CALL INTERW(UR(I,J),VR(I,J),PHI1,UR(I,JP),VR(I,JP),PHI2,U1,V1,	INUV 31
\$PHI)	INUV 32
C INTERPOLATE ON LATITUDE AT UPPER HEIGHT	INUV 33
CALL INTERW(UR(IP,J),VR(IP,J),PHI1,UR(IP,JP),VR(IP,JP),PHI2,U2,V2,	INUV 34
\$PHI)	INUV 35
C INTERPOLATE ON HEIGHT	INUV 36
CALL INTERW(U1,V1,Z1,U2,V2,Z2,SUH,SVH,H)	INUV 37
RETURN	INUV 38
END	INUV 39
SUBROUTINE INTRW(WR,H,SWH)	INRW 1
C.....FINDS RANDOM WIND STANDARD DEVIATION AT HEIGHT H (KM),	INRW 2
C FROM WR ARRAYS	INRW 3
DIMENSION WR(29)	INRW 4
C.....I - LOWER HEIGHT INDEX	INRW 5
I=1+INT(H)/5	INRW 6
IF (H.GE.125) I=25+(INT(H)-120)/20	INRW 7

	IF (I.GT.29) I=29	INRW	8
C	UPPER HEIGHT INDEX	INRW	9
	IP=I+1	INRW	10
	IF (IP.GT.29) IP=29	INRW	11
	IF (I.EQ.IP) GO TO 50	INRW	12
	IF (I.GT.25) GO TO 10	INRW	13
C	LOWER HEIGHT FOR WR ARRAY VALUES	INRW	14
	Z1=5.*(I-1)	INRW	15
	GO TO 20	INRW	16
10	Z1=20.*(I-19)	INRW	17
20	IF(IP.GT.25) GO TO 30	INRW	18
C	UPPER HEIGHT FOR WR ARRAY VALUES	INRW	19
	Z2=5.*(IP-1)	INRW	20
	GO TO 40	INRW	21
30	Z2=20.*(IP-19)	INRW	22
C	INTERPOLATE ON HEIGHT	INRW	23
40	A=(H-Z1)/(Z2-Z1)	INRW	24
	SWH=WR(I) + (WR(IP)-WR(I))*A	INRW	25
	RETURN	INRW	26
50	SWH=WR(I)	INRW	27
	RETURN	INRW	28
	END	INRW	29
	SUBROUTINE INTR25(UR,VR,H,PHI,SUH,SVH)	IN25	1
C.....	FINDS LARGE SCALE FRACTIONAL VARIANCES AT HEIGHT H (KM),LATITUDE	IN25	2
C	PHI (DEGREES), FROM UR AND VR ARRAYS	IN25	3
	DIMENSION UR(25,10),VR(25,10)	IN25	4
C.....	I - LOWER HEIGHT INDEX	IN25	5
	IF (H.LT.95.) I = 1 + INT(H) / 5	IN25	6
	IF (H.GE.95.) I=19+(INT(H)-80)/20	IN25	7
	IF (I.GT.25) I = 25	IN25	8
C	UPPER HEIGHT INDEX	IN25	9
	IP=I+1	IN25	10
	IF (IP.GT.25) IP=25	IN25	11
C	LOWER LATITUDE INDEX	IN25	12
	J=INT(PHI+110.)/20	IN25	13
C	UPPER LATITUDE INDEX	IN25	14
	JP=J+1	IN25	15
	IF (JP.GT.10) JP=10	IN25	16
C.....	PHI1 - LOWER LATITUDE FOR UR AND VR ARRAY VALUES	IN25	17
	PHI1=-110.+20.*J	IN25	18
C.....	PHI2 - UPPER LATITUDE FOR UR AND VR ARRAY VALUES	IN25	19
	PHI2=-110.+20.*JP	IN25	20
	IF (I.GT.19) GO TO 10	IN25	21
C	LOWER HEIGHT FOR UR AND VR ARRAY VALUES	IN25	22
	Z1=5.*(I-1)	IN25	23
	GO TO 20	IN25	24
10	Z1=20.*(I-15)	IN25	25
20	IF (IP.GT.19) GO TO 30	IN25	26
C	UPPER HEIGHT FOR UR AND VR ARRAY VALUES	IN25	27
	Z2=5.*(IP-1)	IN25	28
	GO TO 40	IN25	29
30	Z2 = 20. * (IP - 15)	IN25	30
C	INTERPOLATE ON LATITUDE AT LOWER HEIGHT	IN25	31
40	CALL INTERW(UR(I,J),VR(I,J),PHI1,UR(I,JP),VR(I,JP),PHI2,U1,V1,	IN25	32

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$PHI)
C INTERPOLATE ON LATITUDE AT UPPER HEIGHT IN25 33
CALL INTERW(UR(IP,J),VR(IP,J),PHI1,UR(IP,JP),VR(IP,JP),PHI2,U2,V2, IN25 34
$PHI) IN25 35
C INTERPOLATE ON HEIGHT IN25 36
CALL INTERW(U1,V1,Z1,U2,V2,Z2,SUH,SVH,H) IN25 37
RETURN IN25 38
END IN25 39
SUBROUTINE JAC(Z,T,TZ,AN,AO2,AO,AA,AHE,AH,EM,DENS,DL) JAC 1
JAC 2
C*****JAC 3
C** **JAC 4
C** 'JAC' CALCULATES THE TEMPERATURE TZ , THE TOTAL DENSITY DENS AND **JAC 5
C** ITS LOGARITHM DL, THE MEAN MOLECULAR WEIGHT EM, THE INDIVIDUAL **JAC 6
C** SPECIE NUMBER DENSITIES FOR N, O2, O, A, HE AND H (EACH PRECEDED **JAC 7
C** WITH AN 'A') AT ALTITUDE Z GIVEN THE EXOSPHERIC TEMPERATURE T. **JAC 8
C** THIS SUBROUTINE USES THE SUBROUTINE 'GAUSS' AND THE FUNCTION **JAC 9
C** SUBPROGRAMS 'TEMP' AND 'MOLWT'. **JAC 10
C** **JAC 11
C*****JAC 12
PARAMETER (AV = 6.02257E23) JAC 13
PARAMETER (QN = .78110) JAC 14
PARAMETER (QO2 = .20955) JAC 15
PARAMETER (QA = .009343) JAC 16
PARAMETER (QHE = 1.289E-05) JAC 17
PARAMETER (RGAS = 8.31432) JAC 18
PARAMETER (PI = 3.14159265) JAC 19
PARAMETER (TO = 183.) JAC 20
DIMENSION ALPHA(6) , EI(6) , DI(6) , DIT(6) JAC 21
REAL MOLWT JAC 22
JAC 23
JAC 24
JAC 25
JAC 26
DATA ALPHA / 0.0 , 0.0 , 0.0 , 0.0 , -.380 , 0.0 / JAC 27
DATA EI/28.0134,31.9988,15.9994,39.948,4.0026,1.00797/ JAC 28
JAC 29
JAC 30
TX = 444.3807 + .02385 * T - 392.8292 * EXP ( -.0021357 * T ) JAC 31
A2 = 2. * (T-TX) / PI JAC 32
TXTO = TX - TO JAC 33
T1 = 1.9 * TXTO / ( 35. JAC 34
T3 = -1.7 * TXTO / ( 35.**3 ) JAC 35
T4 = -0.8 * TXTO / ( 35.**4 ) JAC 36
TZ = TEMP ( Z : TX , T1 , T3 , T4 , A2 ) JAC 37
JAC 38
JAC 39
JAC 40
C** SECTION 1 JAC 41
C** ----- JAC 42
D = AMIN1 ( Z , 105. ) JAC 43
JAC 44
C INTEGRATE GM/T FROM 90 TO MINIMUM OF Z OR 105 KM :- JAC 45
JAC 46

```

CALL GAUSS(D,1,R,TX,T1,T3,T4,A2)	JAC	47
	JAC	48
	JAC	49
C THE NUMBER 2.1926E-8 = DENSITY X TEMPERATURE/MEAN MOLECULAR WEIGHT	JAC	50
C AT 90 KM.	JAC	51
EM = MOLWT (D)	JAC	52
TD = TEMP (D , TX , T1 , T3 , T4 , A2)	JAC	53
	JAC	54
DENS = 2.1926E-8 * EM * EXP(-R / RGAS) / TD	JAC	55
	JAC	56
FACTOR = AV * DENS	JAC	57
PAR = FACTOR / EM	JAC	58
FACTOR = FACTOR / 28.96	JAC	59
	JAC	60
	JAC	61
C FOR ALTITUDES BELOW AND AT 105 KM CALCULATE THE INDIVIDUAL SPECIE	JAC	62
C NUMBER DENSITIES FROM THE MEAN MOLECULAR WEIGHT AND TOTAL DENSITY.	JAC	63
	JAC	64
IF (Z. LE. 105) THEN	JAC	65
	JAC	66
DL = ALOG10 (DENS)	JAC	67
AN = ALOG10 (QN * FACTOR)	JAC	68
AA = ALOG10 (QA * FACTOR)	JAC	69
AHE = ALOG10 (QHE * FACTOR)	JAC	70
AO = ALOG10 (2. * PAR * (1.-EM / 28.96))	JAC	71
AO2 = ALOG10 (PAR * (EM * (1.+QO2) / 28.96-1.))	JAC	72
AH = 0.	JAC	73
	JAC	74
C	JAC	75
C** RETURN TO CALLING PROGRAM	JAC	76
C	JAC	77
RETURN	JAC	78
	JAC	79
	JAC	80
	JAC	81
	JAC	82
	JAC	83
C** SECTION 2 : THIS SECTION IS ONLY PERFORMED FOR ALTITUDES	JAC	84
C** ----- ABOVE 105 KM.	JAC	85
	JAC	86
C NOTE THAT HAVING REACHED THIS SECTION MEANS THAT D IN SECTION 1 IS	JAC	87
C 105 KM.	JAC	88
	JAC	89
C CALCULATE INDIVIDUAL SPECIE NUMBER DENSITIES FROM THE TOTAL DENSITY	JAC	90
C AND MEAN MOLECULAR WEIGHT AT 105 KM ALTITUDE.	JAC	91
	JAC	92
DI(1) = QN * FACTOR	JAC	93
DI(2) = PAR * (EM * (1.+QO2) / 28.96-1.)	JAC	94
DI(3) = 2. * PAR * (1.- EM / 28.96)	JAC	95
DI(4) = QA * FACTOR	JAC	96
DI(5) = QHE * FACTOR	JAC	97
	JAC	98
C INTEGRATE G/T FROM 105 KM TO Z KM :-	JAC	99
	JAC	100

	CALL GAUSS(Z,2,R,TX,T1,T3,T4,A2)	JAC 101
		JAC 102
	DO 41 I = 1, 5	JAC 103
	DIT(I) = DI(I)*(TD/TZ)**(1.+ALPHA(I))*EXP(-EI(I)*R/RGAS)	JAC 104
	IF (DIT(I). LE. O.) DIT(I) = 1.E-6	JAC 105
41	CONTINUE	JAC 106
		JAC 107
		JAC 108
		JAC 109
		JAC 110
	C** THIS SECTION CALCULATES ATOMIC HYDROGEN DENSITIES ABOVE 500 KM	JAC 111
	C** ALTITUDE. BELOW THIS ALTITUDE , H DENSITIES ARE SET TO 10**-6.	JAC 112
		JAC 113
	C** SECTION 3	JAC 114
	C** -----	JAC 115
		JAC 116
	IF (Z .GT. 500.) THEN	JAC 117
		JAC 118
	A1 = 500.	JAC 119
	S = TEMP (A1 , TX , T1 , T3 , T4 , A2)	JAC 120
		JAC 121
	DI(6)=10.**(73.13-39.4*ALOG10(S)+5.5*ALOG10(S)*ALOG10(S))	JAC 122
		JAC 123
	CALL GAUSS(Z,7,R,TX,T1,T3,T4,A2)	JAC 124
		JAC 125
	DIT(6) = DI(6) * (S/TZ) * EXP (-EI(6) * R / RGAS)	JAC 126
		JAC 127
	ELSE	JAC 128
		JAC 129
	DIT (6) = 1.0	JAC 130
		JAC 131
	END IF	JAC 132
		JAC 133
		JAC 134
		JAC 135
	C FOR ALTITUDES GREATER THAN 105 KM , CALCULATE TOTAL DENSITY AND	JAC 136
	C MEAN MOLECULAR WEIGHT FROM INDIVIDUAL SPECIE NUMBER DENSITIES.	JAC 137
		JAC 138
	DENS=0	JAC 139
	DO 42 I = 1, 6	JAC 140
	DENS = DENS + EI(I) * DIT(I) / AV	JAC 141
42	CONTINUE	JAC 142
		JAC 143
	EM=DENS*AV/(DIT(1)+DIT(2)+DIT(3)+DIT(4)+DIT(5)+DIT(6))	JAC 144
	DL = ALOG10 (DENS)	JAC 145
		JAC 146
	AN = ALOG10(DIT(1))	JAC 147
	AO2 = ALOG10(DIT(2))	JAC 148
	AO = ALOG10(DIT(3))	JAC 149
	AA = ALOG10(DIT(4))	JAC 150
	AHE = ALOG10(DIT(5))	JAC 151
	AH = ALOG10(DIT(6))	JAC 152
		JAC 153
		JAC 154

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                RETURN                                JAC 155
                END                                  JAC 156
    SUBROUTINE JACCH(Z,PHIR,THET,PH,DH,TH)           JACC 1
    COMMON/IOTEMP/ID1, ID2, ID3, D5, D6, D7, D8,     JACC 2
    & ID9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, JACC 3
    & M, IDA, IYR, D20, D21, D22, D23, D24, D25, D26, D27, F10, F10B, AP, JACC 4
    & IHR, MIN, D28, D29, D30, D31, D32, DUMMY(24)   JACC 5
    REAL INDATA(12), OUTDATA(12)                   JACC 6
    PI=3.14159265                                   JACC 7
    INDATA(1)=Z                                      JACC 8
    INDATA(2)=PHIR*180./PI                          JACC 9
    INDATA(3)=-THET                                  JACC 10
    INDATA(4)=FLOAT(IYR)                             JACC 11
    INDATA(5)=FLOAT(M)                               JACC 12
    INDATA(6)=FLOAT(IDA)                             JACC 13
    INDATA(7)=FLOAT(IHR)                             JACC 14
    INDATA(8)=FLOAT(MIN)                             JACC 15
    INDATA(9)=2.                                      JACC 16
    INDATA(10)=F10                                    JACC 17
    INDATA(11)=F10B                                  JACC 18
    INDATA(12)=AP                                     JACC 19
    CALL J70(INDATA, OUTDATA)                         JACC 20
    PH=OUTDATA(12)                                    JACC 21
    DH=OUTDATA(10)                                    JACC 22
    TH=OUTDATA(2)                                     JACC 23
    RETURN                                             JACC 24
    END                                               JACC 25
    SUBROUTINE J70 ( INDATA, OUTDATA )                J70 1
                                                    J70 2
C*****J70 3
C** **J70 4
C** J70 DEVELOPED FROM J70MM BY **J70 5
C** MIKE P. HICKEY **J70 6
C** UNIVERSITIES SPACE RESEARCH ASSOCIATION **J70 7
C** AT **J70 8
C** NASA / MARSHALL SPACE FLIGHT CENTER, ED44, **J70 9
C** HUNTSVILLE, ALABAMA, 35812, USA. **J70 10
C** TEL. (205) 544-5692 **J70 11
C** **J70 12
C** **J70 13
C** INPUT DATA: **J70 14
C** ----- **J70 15
C** Z -- ALTITUDE = INDATA (1) **J70 16
C** XLAT -- LATITUDE = INDATA (2) **J70 17
C** XLNG -- LONGITUDE = INDATA (3) **J70 18
C** IYR -- YEAR (YY) = INDATA (4) **J70 19
C** MN -- MONTH (MM) = INDATA (5) **J70 20
C** IDA -- DAY (DD) = INDATA (6) **J70 21
C** IHR -- HOUR (HH) = INDATA (7) **J70 22
C** MIN -- MINS (MM) = INDATA (8) **J70 23
C** I1 -- GEOMAGNETIC INDEX = INDATA (9) **J70 24
C** F10 -- SOLAR RADIO NOISE FLUX = INDATA (10) **J70 25
C** F10B -- 162-DAY AVERAGE F10 = INDATA (11) **J70 26
C** GI -- GEOMAGNETIC ACTIVITY INDEX = INDATA (12) **J70 27

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C**
C**
C**
C**
C**          T-- EXOSPHERIC TEMPERATURE          = OUTDATA ( 1)          **J70  28
C**          TZZ-- TEMPERATURE AT ALTITUDE Z    = OUTDATA ( 2)          **J70  29
C**          A(1)-- N2 NUMBER DENSITY           = OUTDATA ( 3)          **J70  30
C**          A(2)-- O2 NUMBER DENSITY           = OUTDATA ( 4)          **J70  31
C**          A(3)-- O  NUMBER DENSITY           = OUTDATA ( 5)          **J70  32
C**          A(4)-- A  NUMBER DENSITY           = OUTDATA ( 6)          **J70  33
C**          A(5)-- HE NUMBER DENSITY           = OUTDATA ( 7)          **J70  34
C**          A(6)-- H  NUMBER DENSITY           = OUTDATA ( 8)          **J70  35
C**          EM-- AVERAGE MOLECULAR WEIGHT      = OUTDATA ( 9)          **J70  36
C**          DENS-- TOTAL DENSITY               = OUTDATA (10)          **J70  37
C**          DL-- LOG10 ( TOTAL DENSITY )       = OUTDATA (11)          **J70  38
C**          P-- TOTAL PRESSURE                 = OUTDATA (12)          **J70  39
C**
C**          NB. INPUT THROUGH ARRAY 'INDATA'    **J70  40
C**          OUTPUT THROUGH ARRAY 'OUTDATA'     **J70  41
C*****
C**          PARAMETER (RGAS = 8.31432E3)        J70  42
C**          PARAMETER (BFH = 440.0)           J70  43
C**          DIMENSION A ( 6 )                 J70  44
C**
C**          REAL INDATA ( 12 ), OUTDATA ( 12 ) J70  45
C**
C CALCULATIONS PERFORMED FOR ONLY ONE LATITUDE , ONE LONGITUDE J70  46
C AND ONE ALTITUDE                                           J70  47
C
C** SET PARAMETERS TO INDATA VALUES                          J70  48
C
C          Z          = INDATA ( 1)                       J70  49
C          XLAT = INDATA ( 2)                             J70  50
C          XLNG = INDATA ( 3)                             J70  51
C          IYR  = INT ( INDATA ( 4 ) ) + 1900             J70  52
C          MN   = INT ( INDATA ( 5 ) )                   J70  53
C          IDA  = INT ( INDATA ( 6 ) )                   J70  54
C          IHR  = INT ( INDATA ( 7 ) )                   J70  55
C          MIN  = INT ( INDATA ( 8 ) )                   J70  56
C          I1   = INT ( INDATA ( 9 ) )                   J70  57
C          F10  = INDATA (10)                             J70  58
C          F10B = INDATA (11)                             J70  59
C          GI   = INDATA (12)                             J70  60
C
C          CALL TME(MN,IDA,IYR,IHR,MIN,XLAT,XLNG,SDA,SHA,DD,DY) J70  61
C
C          CALL TINF ( F10 , F10B , GI , XLAT , SDA , SHA , DY , I1 , TE ) J70  62
C
C          CALL JAC(Z,TE,TZ,A(1),A(2),A(3),A(4),A(5),A(6),EM,DENS,DL) J70  63
C
C          DENLG = 0.                                     J70  64

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          DUMMY = DL
          DEN = DL
          J70 82
          J70 83
          J70 84
          IF ( Z .LE. 170. ) THEN
          J70 85
          CALL SLV ( DUMMY , Z , XLAT , DD )
          J70 86
          DENLG = DUMMY
          J70 87
          END IF
          J70 88
          J70 89
C
          J70 90
C** 'FAIR' HELIUM NUMBER DENSITY BETWEEN BASE FAIRING HEIGHT ( BFH )
          J70 91
C AND 500 KM.
          J70 92
          J70 93
          IF ( Z .GE. 500. ) THEN
          J70 94
          CALL SLVH ( DEN , A(5) , XLAT , SDA )
          J70 95
          DL = DEN
          J70 96
          ELSE IF ( Z .GT. BFH ) THEN
          J70 97
          DHEL1 = A ( 5 )
          J70 98
          DHEL2 = A ( 5 )
          J70 99
          DLG1 = DL
          J70 100
          DLG2 = DL
          J70 101
          CALL SLVH ( DLG2 , DHEL2 , XLAT , SDA )
          J70 102
          IH = Z
          J70 103
          CALL FAIR5(DHEL1,DHEL2,DLG1,DLG2,IH,FDHEL,FDLG)
          J70 104
          DL = FDLG
          J70 105
          A ( 5 ) = FDHEL
          J70 106
          END IF
          J70 107
          J70 108
          DL = DL + DENLG
          J70 109
          DENS = 10.**DL
          J70 110
          XLAT = XLAT * 57.29577951
          J70 111
          J70 112
          J70 113
C FILL OUTDATA ARRAY
          J70 114
          OUTDATA (1) = TE
          J70 115
          OUTDATA (2) = TZ
          J70 116
          J70 117
          DO 80 I = 1, 6
          J70 118
          OUTDATA (I+2) = 1.E6 * ( 10. ** A(I) )
          J70 119
80 CONTINUE
          J70 120
          J70 121
          OUTDATA (9) = EM
          J70 122
          OUTDATA (10) = DENS * 1000.
          J70 123
          OUTDATA (11) = DL
          J70 124
          P = OUTDATA (10) * RGAS * TZ / EM
          J70 125
          OUTDATA (12) = P
          J70 126
          J70 127
          RETURN
          J70 128
          END
          J70 129
          REAL FUNCTION MOLWT( A )
          MOWT 1
          MOWT 2
C*****
          MOWT 3
C**
          ** MOWT 4
C** 'MOLWT' CALCULATES THE MOLECULAR WEIGHT FOR ALTITUDES BETWEEN
          ** MOWT 5
C** 90 AND 105 KM ACCORDING TO EQUATION (1) OF SAO REPORT 313.
          ** MOWT 6

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C** OTHERWISE, MOLWT IS SET TO UNITY. ** MOWT 7
C** ** MOWT 8
C***** MOWT 9
          MOWT 10
          DIMENSION B (7) MOWT 11
          DATA B / 28.15204 , -0.085586, 1.284E-4, -1.0056E-5, -1.021E-5, MOWT 12
                  1.5044E-6, 9.9826E-8 / MOWT 13
          MOWT 14
          IF ( A. GT. 105. ) THEN MOWT 15
              MOLWT = 1. MOWT 16
          MOWT 17
          ELSE MOWT 18
              U = A - 100. MOWT 19
              MOLWT = B (1) MOWT 20
          MOWT 21
          DO 1 I = 2 , 7 MOWT 22
              MOWT 23
              MOLWT = MOLWT + B (I) * U ** ( I-1 ) MOWT 24
          MOWT 25
          MOWT 26
1      CONTINUE MOWT 27
          MOWT 28
          END IF MOWT 29
          MOWT 30
          END MOWT 31
          SUBROUTINE PDTUV (PSP,DSP,TSP,USP,VSP,CLAT,CLON,IH,PS,DS,TS,
          & DPX,DPY,DTX,DTY,US,VS) PDTU 1
C..... INTERPOLATES STATIONARY PERTURBATIONS ON LATITUDE AND LONGITUDE PDTU 2
C          AT HEIGHT IH PDTU 3
          DIMENSION PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18), PDTU 4
          & VSP(15,19,18) PDTU 5
C          HEIGHT INDEX K PDTU 6
          10 K=(IH-15)/5 PDTU 7
          30 XLON = CLON PDTU 8
C          LOWER LONGITUDE INDEX J PDTU 9
          C..... DLON - RELATIVE LONGITUDE DEVIATION FROM CORNER REFERENCE LOCATION PDTU 10
          IF(XLON .LE. 180.)THEN PDTU 11
              J=INT((200.-XLON)/20.) PDTU 12
              DLON=(200.-XLON-20.*J)/20. PDTU 13
          ELSE PDTU 14
              J=INT((560.-XLON)/20.) PDTU 15
              DLON=(560.-XLON-20.*J)/20. PDTU 16
          END IF PDTU 17
C          UPPER LONGITUDE INDEX JP PDTU 18
          JP = J+1 PDTU 19
          IF(JP .GT. 18) JP=1 PDTU 20
C          LOWER LATITUDE INDEX I PDTU 21
          I=INT((CLAT+100.)/10.) PDTU 22
C          UPPER LATITUDE INDEX IP PDTU 23
          IP = I+1 PDTU 24
          IF(IP .GT. 19)IP=19 PDTU 25
C..... DLAT - RELATIVE LATITUDE DEVIATION FROM CORNER REFERENCE LOCATION PDTU 26
          DLAT=(CLAT -10.*I+100.)/10. PDTU 27
C          PRESSURE LAT-LON INTERPOLATION PDTU 28
          PDTU 29

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      PS=PSP(K,I,J)+(PSP(K,IP,J)-PSP(K,I,J))*DLAT+(PSP(K,I,JP)-PSP(K,I,JPDTU 30
1))*DLON+(PSP(K,IP,JP)-PSP(K,I,JP)-PSP(K,IP,J)+PSP(K,I,J))*DLAT*  PDTU 31
2DLON  PDTU 32
C      DENSITY LAT-LON INTERPOLATION  PDTU 33
      DS=DSP(K,I,J)+(DSP(K,IP,J)-DSP(K,I,J))*DLAT+(DSP(K,I,JP)-DSP(K,I,JPDTU 34
1))*DLON+(DSP(K,IP,JP)-DSP(K,I,JP)-DSP(K,IP,J)+DSP(K,I,J))*DLAT*  PDTU 35
2DLON  PDTU 36
C      TEMPERATURE LAT-LON INTERPOLATION  PDTU 37
      TS=TSP(K,I,J)+(TSP(K,IP,J)-TSP(K,I,J))*DLAT+(TSP(K,I,JP)-TSP(K,I,JPDTU 38
1))*DLON+(TSP(K,IP,JP)-TSP(K,I,JP)-TSP(K,IP,J)+TSP(K,I,J))*DLAT*  PDTU 39
2DLON  PDTU 40
C..... ZONAL WIND LAT-LON INTERPOLATION  PDTU 41
      US=USP(K,I,J)+(USP(K,IP,J)-USP(K,I,J))*DLAT+(USP(K,I,JP)-USP(K,I,JPDTU 42
1))*DLON+(USP(K,IP,JP)-USP(K,I,JP)-USP(K,IP,J)+USP(K,I,J))*DLAT*  PDTU 43
2DLON  PDTU 44
C..... MERIDIONAL WIND LAT-LON INTERPOLATION  PDTU 45
      VS=VSP(K,I,J)+(VSP(K,IP,J)-VSP(K,I,J))*DLAT+(VSP(K,I,JP)-VSP(K,I,JPDTU 46
1))*DLON+(VSP(K,IP,JP)-VSP(K,I,JP)-VSP(K,IP,J)+VSP(K,I,J))*DLAT*  PDTU 47
2DLON  PDTU 48
C..... DPX - DP/DX FOR GEOSTROPHIC WINDS  PDTU 49
      DPX = (PSP(K,I,J)-PSP(K,I,JP))/4.  PDTU 50
      DPX = DPX + ((PSP(K,IP,J)-PSP(K,IP,JP))/4. - DPX)*DLAT  PDTU 51
C..... DPY - DP/DY FOR GEOSTROPHIC WINDS  PDTU 52
      DPY=(PSP(K,IP,J)-PSP(K,I,J))/2.  PDTU 53
      DPY= DPY + ((PSP(K,IP,JP)-PSP(K,I,JP))/2. - DPY)*DLON  PDTU 54
C..... DTX - DT/DX FOR THERMAL WINDS  PDTU 55
      DTX = (TSP(K,I,J)-TSP(K,I,JP))/4.  PDTU 56
      DTX = DTX + ((TSP(K,IP,J)-TSP(K,IP,JP))/4. - DTX)*DLAT  PDTU 57
C..... DTY - DT/DY FOR THERMAL WINDS  PDTU 58
      DTY=(TSP(K,IP,J)-TSP(K,I,J))/2.  PDTU 59
      DTY= DTY + ((TSP(K,IP,JP)-TSP(K,I,JP))/2. - DTY)*DLON  PDTU 60
      RETURN  PDTU 61
      END  PDTU 62
      SUBROUTINE PERTRB  PERT 1
      COMMON /IOTEMP/IOTEM1,IOTEM2,IUS,DD,XMJD,PHI1,PHI,NSAME,  PERT 2
      $PL1,DL1,TL1,SPL1,SDL1,STL1,UL1,VL1,SUL1,SVL1,MN,IDA,IYR,  PERT 3
      1PH,PLAT,  PERT 4
      * PLON,G,R,CH,CLAT,CLON,F10,F10B,AP,IHR,MIN,NMORE,DX,HL,VL,DZ,  PERT 5
      2B,EPS,IOPP,LOOK,IET,FLAT,PS1,DS1,TS1,US1,VS1,SPS1,SDS1,  PERT 6
      3STS1,SUS1,SVS1,UDS1,VDS1,UDL1,VDL1,UDS2,VDS2,UDL2,VDL2  PERT 7
      COMMON /COMPER/SP2,SD2,ST2,P2,D2,T2,U2,V2,SU2,SV2,CP,  PERT 8
      1PS2,DS2,TS2,US2,VS2,  PERT 9
      2PL2,DL2,TL2,UL2,VL2,  PERT 10
      3SPS2,SDS2,STS2,SUS2,SVS2,  PERT 11
      4SPL2,SDL2,STL2,SUL2,SVL2  PERT 12
      COMMON /VERT/W1,SW1,W2,SW2,WR(29)  PERT 13
      COMMON /WINCOM/DUM(8),T,DUMMY2(9)  PERT 14
      COMMON /RAND/IX,IY,IZ  PERT 15
      DLON = ABS(CLON-PLON)  PERT 16
      PI = 3.1415927  PERT 17
      IF(DLON.GT.PI) DLON = 2.*PI - DLON  PERT 18
      DX = R*SQRT((CLAT-PLAT)**2 + (COS(CLAT)*(DLON  ))**2)  PERT 19
      IF(ABS(DX).LT.O.O1.AND.ABS(DZ).LT.O.O1)DX = 0.01  PERT 20
C.....DX IS HORIZONTAL DISTANCE BETWEEN POSITIONS PLAT,PLON AND CLAT,CLOPERT 21

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	AH = 900.	PERT 22
	BH = 6.	PERT 23
	HORIZONTAL WAVELENGTH, KM	PERT 24
	HLL = AH + BH*CH	PERT 25
	DPHI = (90. - ABS(CLAT)) / 0.017453293)**2	PERT 26
	DHGT = 0.22 + 0.00258*(SQRT(ABS(CH)**3))	PERT 27
	IF (DHGT.GT.5.) DHGT = 5.	PERT 28
	VDS = (11.0 - 2.102E-4*DPHI)*DHGT	PERT 29
	VTS = (3.0 + 5.146E-4*DPHI)*DHGT	PERT 30
	VUS = (6.2 - 3.615E-4*DPHI)*DHGT	PERT 31
	VDL = (20.7 - 1.346E-3*DPHI)*DHGT	PERT 32
	VTL = 7.3*DHGT	PERT 33
	VUL = (31.2 - 3.503E-3*DPHI)*DHGT	PERT 34
	HLS = 20. + .0125*CH*CH	PERT 35
	IF(HLS.GT.400.) HLS = 400.	PERT 36
	HLS = (DX/HLS)**2	PERT 37
	HLL = (DX/HLL)**2	PERT 38
	RDS = SQRT(HLS+(DZ/VDS)**2)	PERT 39
	IF(RDS.LE. 50.)GO TO 10	PERT 40
	RDS=0.	PERT 41
	GO TO 20	PERT 42
10	RDS = CORREL(RDS)	PERT 43
20	RTS = SQRT(HLS+(DZ/VTS)**2)	PERT 44
	IF(RTS.LE. 50.)GO TO 30	PERT 45
	RTS=0.	PERT 46
	GO TO 40	PERT 47
30	RTS = CORREL(RTS)	PERT 48
40	RVS = SQRT(HLS+(DZ/VUS)**2)	PERT 49
	IF(RVS.LE. 50.)GO TO 50	PERT 50
	RVS=0.	PERT 51
	GO TO 60	PERT 52
50	RVS = CORREL(RVS)	PERT 53
60	RDL = SQRT(HLL+(DZ/VDL)**2)	PERT 54
	IF(RDL.LE. 50.)GO TO 70	PERT 55
	RDL=0.	PERT 56
	GO TO 80	PERT 57
70	RDL = CORREL(RDL)	PERT 58
80	RTL = SQRT(HLL+(DZ/VTL)**2)	PERT 59
	IF(RTL.LE. 50.)GO TO 90	PERT 60
	RTL=0.	PERT 61
	GO TO 100	PERT 62
90	RTL = CORREL(RTL)	PERT 63
100	RVL = SQRT(HLL+(DZ/VUL)**2)	PERT 64
	IF(RVL.LE. 50.)GO TO 110	PERT 65
	RVL=0.	PERT 66
	GO TO 120	PERT 67
110	RVL = CORREL(RVL)	PERT 68
120	CONTINUE	PERT 69
	CALL CORLAT(AS,BS,CS,DS,ES,FS,GS,HS,AIS,AJS,AKS,SPS1,SPS2,SDS1,	PERT 70
	1 SDS2,STS1,STS2,SUS1,SUS2,SVS1,SVS2,UDS1,UDS2,VDS1,VDS2,RDS,RTS,	PERT 71
	2RVS)	PERT 72
	CALL CORLAT(AL,BL,CL,DL,EL,FL,GL,HL,AJL,AJL,AKL,SPL1,SPL2,SDL1,	PERT 73
	1 SDL2,STL1,STL2,SUL1,SUL2,SVL1,SVL2,UDL1,UDL2,VDL1,VDL2,	PERT 74
	2RDL,RTL,RVL)	PERT 75

	IF(SW1 .LE. 0.)SW1=0.001	PERT 76
	IF(SW2 .LE. 0.)SW2=0.001	PERT 77
	AW=RVS*SW2/SW1	PERT 78
	BW=SW2*SQRT(1.-RVS*RVS)	PERT 79
	Z2 = RANDOM(L)	PERT 80
	ZD = PPND(Z2,L)	PERT 81
	Z2 = RANDOM(L)	PERT 82
	ZT = PPND(Z2,L)	PERT 83
	DS2=AS*DS1+BS*ZD	PERT 84
	TS2=CS*TS1+DS*DS2+ES*ZT	PERT 85
	PS2=DS2+TS2	PERT 86
	Z2 = RANDOM(L)	PERT 87
	ZD = PPND(Z2,L)	PERT 88
	Z2 = RANDOM(L)	PERT 89
	ZT = PPND(Z2,L)	PERT 90
	US2=FS*US1+GS*DS2+HS*ZD	PERT 91
	VS2=AIS*VS1+AJS*DS2+AKS*ZT	PERT 92
	Z2 = RANDOM(L)	PERT 93
	ZD = PPND(Z2,L)	PERT 94
	Z2 = RANDOM(L)	PERT 95
	ZT = PPND(Z2,L)	PERT 96
	DL2=AL*DL1+BL*ZD	PERT 97
	TL2=CL*TL1+DL*DL2+EL*ZT	PERT 98
	PL2=DL2+TL2	PERT 99
	Z2 = RANDOM(L)	PERT 100
	ZD = PPND(Z2,L)	PERT 101
	Z2 = RANDOM(L)	PERT 102
	ZT = PPND(Z2,L)	PERT 103
	UL2=FL*UL1+GL*DL2+HL*ZD	PERT 104
	VL2=AIL*VL1+AJL*DL2+AKL*ZT	PERT 105
	Z2=RANDOM(L)	PERT 106
	ZD=PPND(Z2,L)	PERT 107
	W2=AW*W1+BW*ZD	PERT 108
	P2=PS2+PL2	PERT 109
	D2=DS2+DL2	PERT 110
	T2=TS2+TL2	PERT 111
	IF(P2.LT.-0.9) P2= -0.9	PERT 112
	IF(D2.LT.-0.9) D2= -0.9	PERT 113
	IF(T2.LT.-0.9) T2= -0.9	PERT 114
	U2=US2+UL2	PERT 115
	V2=VS2+VL2	PERT 116
	UDL1=UDL2	PERT 117
	UDS1=UDS2	PERT 118
	VDL1=VDL2	PERT 119
	VDS1=VDS2	PERT 120
	RETURN	PERT 121
	END	PERT 122
	SUBROUTINE PHASE(D1,X1,D2,X2,D,X)	PHAS 1
	PER = 870.	PHAS 2
	IF (X2-X1) 20, 10, 20	PHAS 3
10	D = D1	PHAS 4
	RETURN	PHAS 5
20	DA = D1	PHAS 6
	DB = D2	PHAS 7

	PER2 = PER/2.	PHAS	8
	IF (ABS(DB-DA).LE.PER2)GO TO 30	PHAS	9
	IF (DA.LT.PER2) DA = DA + PER	PHAS	10
	IF (DB.LT.PER2) DB = DB + PER	PHAS	11
30	DA = DA + (DB - DA)*(X - X1)/(X2 - X1)	PHAS	12
	IF (DA.GT.PER) DA = DA - PER	PHAS	13
	IF(DA.LT.O.)DA=DA+PER	PHAS	14
	D = DA	PHAS	15
	RETURN	PHAS	16
	END	PHAS	17
	DOUBLE PRECISION FUNCTION PPND(P, IFAULT)	PPND	1
C		PPND	2
C	ALGORITHM AS 111 APPL. STATIST. (1977) VOL. 26, P. 118	PPND	3
C		PPND	4
C	PRODUCES NORMAL DEVIATE CORRESPONDING TO LOWER TAIL AREA OF P.	PPND	5
C	RETURNS IFAULT = 1 IN INPUT P >= 1 OR <= 0, IFAULT = 0	PPND	6
C	OTHERWISE. IF IFAULT = 1, PPND VALUE IS SET TO 0.	PPND	7
C	SINGLE PRECISION VERSION WITH ERROR EPSILON = 2 ** (-31).	PPND	8
C	FOR DOUBLE PRECISION VERSION, CHANGE REAL TO DOUBLE PRECISION	PPND	9
C	IN THE FUNCTION STATEMENT AND THE DECLARATION OF VARIABLES;	PPND	10
C	CHANGE EO TO DO IN THE DATA STATEMENTS AND CHANGE ABS, ALOG	PPND	11
C	AND SQRT TO DABS, DLOG AND DSQRT IN THE ASSIGNMENT STATEMENTS.	PPND	12
C	THE HASH SUMS ARE THE SUMS OF THE MODULI OF THE COEFFICIENTS.	PPND	13
C	THEY HAVE NO INHERENT MEANINGS, BUT ARE INCLUDED FOR USE IN	PPND	14
C	CHECKING TRANSPOSITIONS.	PPND	15
C		PPND	16
C	DOUBLE PRECISION ZERO, SPLIT, HALF, ONE, A0, A1, A2, A3,	PPND	17
&	B1, B2, B3, B4, C0, C1, C2, C3, D1, D2, P, Q, R	PPND	18
C		PPND	19
C	DATA ZERO, HALF, ONE, SPLIT /0.0D0, 0.5D0, 1.0D0, 0.42D0/	PPND	20
		PPND	21
	DATA A0 / 2.50662823884D0/,	PPND	22
&	A1 / -18.61500062529D0/,	PPND	23
&	A2 / 41.39119773534D0/,	PPND	24
&	A3 / -25.44106049637D0/,	PPND	25
&	B1 / -8.47351093090D0/,	PPND	26
&	B2 / 23.08336743743D0/,	PPND	27
&	B3 / -21.06224101826D0/,	PPND	28
&	B4 / 3.13082909833D0/	PPND	29
C		PPND	30
C	HASH SUM FOR A & B = 143.70383558076	PPND	31
C		PPND	32
C	DATA C0 / -2.78718931138D0/,	PPND	33
&	C1 / -2.29796479134D0/,	PPND	34
&	C2 / 4.85014127135D0/,	PPND	35
&	C3 / 2.32121276858D0/,	PPND	36
&	D1 / 3.54388924762D0/,	PPND	37
&	D2 / 1.63706781897D0/	PPND	38
C		PPND	39
C	HASH SUM FOR C & D = 17.43746520924	PPND	40
C		PPND	41
C		PPND	42
C	IFault = 0	PPND	43
	Q = P - HALF	PPND	44

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        IF(DABS(Q) .GT. SPLIT) GOTO 1
        R = Q * Q
        PPND = Q * (((A3 * R + A2) * R + A1) * R + AO) /
&      (((B4 * R + B3) * R + B2) * R + B1) * R + ONE)
        RETURN
1      R = P
        IF (Q .GT. ZERO) R = ONE - P
        IF (R .LE. ZERO) GOTO 2
        R = DSQRT(-DLOG(R))
        PPND = (((C3 * R + C2) * R + C1) * R + CO) /
&      ((D2 * R + D1) * R + ONE)
        IF (Q .LT. ZERO) PPND = -PPND
        RETURN
2      IFAULT = 1
        PPND = ZERO
        RETURN
    END
    SUBROUTINE QBOGEN
C..... COMPUTES QBO VALUES PQ,DQ,TQ,UQ,VQ AT HEIGHT H, LATITUDE PHI
C      ON JULIAN DAY XMJD FROM ARRAYS OF AMPLITUDES PAQ,DAQ,TAQ,
C      UAQ,VAQ AND PHASES PDQ,DDQ,TDQ,UDQ,VDQ.
    COMMON /IOTEMP/ IOTEM1,IOTEM2,IUS,DDD, XMJD,PHI1,PHI,
&      NSAME,RP1, RD1, RT1, SP1, SD1, ST1, RU1, RV1, SU1, SV1,
$ MN, IDA, IYR, H1, PHI1R,THET1R,G,RI,H,PHIR,THETR,F10,F10B,AP,
& IHR,MIN,NMORE,DX,HL,VL,DZ,DUMMY2(24)
    COMMON /PDTCOM/IU4,MONTH,IOPR,
&      PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18),
&      VSP(15,19,18),
&      PG(21,19),DG(21,19),TG(21,19),UG(21,19),
&      PAQ(17,5),DAQ(17,5),TAQ(17,5),UAQ(17,5),VAQ(17,5),
&      PDQ(17,5),DDQ(17,5),TDQ(17,5),UDQ(17,5),VDQ(17,5),
&      PR(29,19),DR(29,19),TR(29,19),UR(29,19),VR(29,19)
&      ,PQ,DQ,TQ,UQ,VQ
&      ,PA,DA,TA,UA,VA,IOPQ,DUMMY(2250)
C      IF (XMJD.GT.O.AND.IOPQ.EQ.1) GO TO 10
C      SETS QBO VALUES TO ZERO FOR ANNUAL MEAN
    PQ=0.
    DQ=0.
    TQ=0.
    UQ=0.
    VQ=0.
    RETURN
C      LOWER HEIGHT INDEX
10  IH = INT((H-5.)/5.)
    IF (IH.LT.1) IH=1
C      UPPER HEIGHT INDEX
    IP = IH + 1
    IF (IP.GT.17) IP = 17
    PHA = ABS(PHI)
C      LOWER LATITUDE INDEX
    JL = INT(( PHA + 10.)/20.)
C      UPPER LATITUDE INDEX
    JP = JL + 1

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	IF (JL.LE.O) JL=1	QBOG 38
	IF (JP.G1.5) JP=5	QBOG 39
C	JULIAN DAY FOR JAN O, 1966	QBOG 40
	XMJDO = 2439126	QBOG 41
C	TIME RELATIVE TO JAN O, 1966	QBOG 42
	TMJD = XMJD-XMJDO	QBOG 43
C	2*PI/PERIOD,PERIOD = 870 DAYS	QBOG 44
	PER = 870.	QBOG 45
	TP = 6.2831853/PER	QBOG 46
C	LOWER HEIGHT	QBOG 47
	HI = 5. + 5.*IH	QBOG 48
C	LOWER LATITUDE	QBOG 49
	PHIJ = 20.*JL - 10.	QBOG 50
C	UPPER LATITUDE	QBOG 51
	PHIP = 20.*JP-10.	QBOG 52
C	INTERPOLATES QBO P,D,T AMPLITUDE ON LATITUDE AT LOWER HEIGHT	QBOG 53
	CALL INTERZ(PAQ(IH,JL),DAQ(IH,JL),TAQ(IH,JL),PHIJ,PAQ(IH,JP),	QBOG 54
	1DAQ(IH,JP),TAQ(IH,JP),PHIP,PA1,DA1,TA1,PHA)	QBOG 55
C	UPPER HEIGHT	QBOG 56
	HP = 5.+5.*IP	QBOG 57
C	INTERPOLATES QBO P,D,T AMPLITUDE ON LATITUDE AT UPPER HEIGHT	QBOG 58
	CALL INTERZ(PAQ(IP,JL),DAQ(IP,JL),TAQ(IP,JL),PHIJ,PAQ(IP,JP),	QBOG 59
	2DAQ(IP,JP),TAQ(IP,JP),PHIP,PA2,DA2,TA2,PHA)	QBOG 60
C	INTERPOLATES QBO P,D,T AMPLITUDE ON HEIGHT AT LATITUDE PHI	QBOG 61
	CALL INTERZ(PA1,DA1,TA1,HI,PA2,DA2,TA2,HP,PA,DA,TA,H)	QBOG 62
C	INTERPOLATES QBO P,D,T,U,V PHASE ON LATITUDE AND HEIGHT	QBOG 63
	CALL PHASE(PDQ(IH,JL),PHIJ,PDQ(IH,JP),PHIP,PD1,PHA)	QBOG 64
	CALL PHASE(DDQ(IH,JL),PHIJ,DDQ(IH,JP),PHIP,DD1,PHA)	QBOG 65
	CALL PHASE(TDQ(IH,JL),PHIJ,TDQ(IH,JP),PHIP,TD1,PHA)	QBOG 66
	CALL PHASE(PDQ(IP,JL),PHIJ,PDQ(IP,JP),PHIP,PD2,PHA)	QBOG 67
	CALL PHASE(DDQ(IP,JL),PHIJ,DDQ(IP,JP),PHIP,DD2,PHA)	QBOG 68
	CALL PHASE(TDQ(IP,JL),PHIJ,TDQ(IP,JP),PHIP,TD2,PHA)	QBOG 69
	CALL PHASE(PD1,HI,PD2,HP,PD,H)	QBOG 70
	CALL PHASE(DD1,HI,DD2,HP,DD,H)	QBOG 71
	CALL PHASE(TD1,HI,TD2,HP,TD,H)	QBOG 72
	CALL PHASE(UDQ(IH,JL),PHIJ,UDQ(IH,JP),PHIP,UD1,PHA)	QBOG 73
	CALL PHASE(VDQ(IH,JL),PHIJ,VDQ(IH,JP),PHIP,VD1,PHA)	QBOG 74
	CALL PHASE(UDQ(IP,JL),PHIJ,UDQ(IP,JP),PHIP,UD2,PHA)	QBOG 75
	CALL PHASE(VDQ(IP,JL),PHIJ,VDQ(IP,JP),PHIP,VD2,PHA)	QBOG 76
	CALL PHASE(UD1,HI,UD2,HP,UD,H)	QBOG 77
	CALL PHASE(VD1,HI,VD2,HP,VD,H)	QBOG 78
C	INTERPOLATES QBO WIND AMPLITUDE ON LATITUDE AT LOWER HEIGHT	QBOG 79
	CALL INTERW(UAQ(IH,JL),VAQ(IH,JL),PHIJ,UAQ(IH,JP),VAQ(IH,JP),	QBOG 80
	5PHIP,UA1,VA1,PHA)	QBOG 81
C	INTERPOLATES QBO WIND AMPLITUDES ON LATITUDE AT UPPER HEIGHT	QBOG 82
	CALL INTERW(UAQ(IP,JL),VAQ(IP,JL),PHIJ,UAQ(IP,JP),VAQ(IP,JP),	QBOG 83
	6PHIP,UA2,VA2,PHA)	QBOG 84
C	INTERPOLATES QBO WIND AMPLITUDES ON HEIGHT AT LATITUDE PHI	QBOG 85
	CALL INTERW(UA1,VA1,HI,UA2,VA2,HP,UA,VA,H)	QBOG 86
C	EVALUATES QBO VALUES FROM INTERPOLATED AMPLITUDES AND PHASES	QBOG 87
	PQ=PA*COS(TP*(TMJD-PD))	QBOG 88
	DQ=DA*COS(TP*(TMJD-DD))	QBOG 89
	TQ=TA*COS(TP*(TMJD-TD))	QBOG 90
	UQ=UA*COS(TP*(TMJD-UD))	QBOG 91

VQ=VA*COS(TP*(TMJD-VD))	QBOG	92
RETURN	QBOG	93
END	QBOG	94
DOUBLE PRECISION FUNCTION RANDOM(L)	RAND	1
	RAND	2
ALGORITHM AS 183 APPL. STATIST. (1982) VOL. 31, P.188	RAND	3
	RAND	4
RETURNS A PSEUDO-RANDOM NUMBER RECTANGULARLY DISTRIBUTED	RAND	5
BETWEEN 0 AND 1.	RAND	6
	RAND	7
IX, IY AND IZ SHOULD BE SET TO INTEGER VALUES BETWEEN	RAND	8
1 AND 30,000 BEFORE FIRST ENTRY.	RAND	9
	RAND	10
INTEGER ARITHMETIC UP TO 30323 IS REQUIRED.	RAND	11
	RAND	12
RETURNS L = 0 UNLESS RANDOM = 0 OR RANDOM = 1, IN WHICH	RAND	13
CASE L = 1	RAND	14
	RAND	15
DOUBLE PRECISION ONE,ZERO	RAND	16
COMMON /RAND/ IX, IY, IZ	RAND	17
DATA ONE,ZERO/1.000,0.000/	RAND	18
IX = 171 * MOD(IX, 177) - 2 * (IX / 177)	RAND	19
IY = 172 * MOD(IY, 176) - 35 * (IY / 176)	RAND	20
IZ = 170 * MOD(IZ, 178) - 63 * (IZ / 178)	RAND	21
	RAND	22
IF (IX .LT. 0) IX = IX + 30269	RAND	23
IF (IY .LT. 0) IY = IY + 30307	RAND	24
IF (IZ .LT. 0) IZ = IZ + 30323	RAND	25
	RAND	26
IF INTEGER ARITHMETIC UP TO 5,212,632 IS AVAILABLE,	RAND	27
THE PRECEDING 6 STATEMENTS MAY BE REPLACED BY	RAND	28
	RAND	29
IX = MOD(171 * IX, 30269)	RAND	30
IY = MOD(172 * IY, 30307)	RAND	31
IZ = MOD(170 * IZ, 30323)	RAND	32
	RAND	33
ON SOME MACHINES, THIS MAY SLIGHTLY INCREASE THE SPEED.	RAND	34
THE RESULTS SHOULD BE IDENTICAL.	RAND	35
	RAND	36
RANDOM =DMOD(DFLOAT(IX) /30269.000+DFLOAT(IY) /30307.000+	RAND	37
& DFLOAT(IZ) /30323.000.ONE)	RAND	38
L = 0	RAND	39
IF (RANDOM .LE. ZERO .OR. RANDOM .GE. ONE)L = 1	RAND	40
RETURN	RAND	41
END	RAND	42
SUBROUTINE RIG	RIG	1
COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DD,XMJD,PHI1,PHI,	RIG	2
NSAME,RP1, RD1, RT1, SP1, SD1, ST1, RU1, RV1, SU1, SV1,	RIG	3
\$ MN, IDA, IYR, H1, PHI1R,THET1R,G,RI,H,PHIR,THETR,F10,F10B,AP,	RIG	4
\$ IHR,MIN,NMORE,DX,HL,VL,DZ,B,EPS,IOPP,LOOK,IET,GLAT,	RIG	5
1RP1S,RD1S,RT1S,RU1S,RV1S,SP1S,SD1S,ST1S,SU1S,SV1S,	RIG	6
2UDS1,VDS1,UDL1,VDL1,UDS2,VDS2,UDL2,VDL2	RIG	7
C.....GRAVITY G AT H, LATITUDE PHIR (RADIANS)	RIG	8
C.....RADIUS RI FROM CENTER OF EARTH TO HEIGHT H	RIG	9

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C.....B = POLAR EARTH RADIUS, EPS = ECCENTRICITY          RIG 10
      CPHI2 = COS(PHIR) ** 2                                RIG 11
C      EARTH RADIUS                                         RIG 12
      RI = B / SQRT(1. - EPS * CPHI2)                      RIG 13
C      C2PHI = COS(2*PHIR)                                  RIG 14
      C2PHI = 2. * CPHI2 - 1.                              RIG 15
C      C4PHI = COS(4*PHIR)                                  RIG 16
      C4PHI = 8. * CPHI2 * (CPHI2 - 1.) + 1.              RIG 17
C.....G AT SURFACE                                         RIG 18
      G = 9.80616 * (1. - 0.0026373 * C2PHI + 0.0000059 * C2PHI * C2PHI) RIG 19
C.....EFFECTIVE RADIUS                                     RIG 20
      RE = 2. * G / (3.085462E-3 + C2PHI * 2.27E-6 - C4PHI * 2.E-9) RIG 21
C      G AT HEIGHT H                                       RIG 22
      G = G / (1. + (H / RE)) ** 2                        RIG 23
C      RADIUS AT HEIGHT H                                   RIG 24
      RI = RI + H                                          RIG 25
      END                                                  RIG 26
      SUBROUTINE RTERP(H,PHI,PR,DR,TR,P,D,T)                RTER 1
C..... COMPUTES RANDOM PERTURBATION STANDARD DEVIATIONS P,D,T AT RTER 2
      HEIGHT H (KM), LATITUDE PHI(DEGREES) FROM SIGMA ARRAYS RTER 3
C      PR,DR,AND TR                                         RTER 4
      DIMENSION PR(29,19),DR(29,19),TR(29,19)            RTER 5
C..... I = LOWER HEIGHT INDEX                             RTER 6
      IF(H .LT. 120.) I=INT((H+5.)/5.)                   RTER 7
      IF(H .GE. 120.) I=25+INT((H-120.)/20.)             RTER 8
      IF(I .LT. 1) I = 1                                   RTER 9
      IF(I .GT. 29) I = 29                                 RTER 9A
      IP = I+1                                             RTER 10
      IF(IP .GT. 29) IP=29                                  RTER 11
C      LOWER LATITUDE INDEX                                 RTER 12
      J=INT((PHI+100.)/10.)                                RTER 13
      JP = J+1                                             RTER 14
      IF(JP .GT. 19) JP=19                                  RTER 15
      IF(I .GT. 25) GOTO 10                                 RTER 16
C      LOWER HEIGHT FOR PR,TR,DR ARRAYS                    RTER 17
      Z1=5.*I-5.                                           RTER 18
      GO TO 20                                              RTER 19
10     Z1=120.+20.*(I-25)                                   RTER 20
20     IF(IP .GT. 25) GOTO 30                               RTER 21
C      UPPER HEIGHT FOR PR,DR,TR ARRAYS                   RTER 22
      Z2=5.*IP-5.                                           RTER 23
      GO TO 40                                              RTER 24
30     Z2=120.+20.*(IP-25)                                   RTER 25
40     PHI1=-100.+10.*J                                     RTER 26
      PHI2=-100.+10.*JP                                     RTER 27
C..... INTERPOLATE ON LATITUDE AT LOWER HEIGHT           RTER 28
      CALL INTERZ(PR(I,J),DR(I,J),TR(I,J),PHI1,PR(I,JP),DR(I,JP), RTER 29
1       TR(I,JP),PHI2,P1,D1,T1,PHT)                       RTER 30
C..... INTERPOLATE ON LATITUDE AT UPPER HEIGHT           RTER 31
      CALL INTERZ(PR(IP,J),DR(IP,J),TR(IP,J),PHI1,PR(IP,JP),DR(IP,JP), RTER 32
1       TR(IP,JP),PHI2,P2,D2,T2,PHT)                       RTER 33
C..... INTERPOLATION ON HEIGHT USING LATITUDE INTERPOLATED VALUES RTER 34
      CALL INTERZ(P1,D1,T1,Z1,P2,D2,T2,Z2,P,D,T,H)         RTER 35
      RETURN                                               RTER 36
      END                                                  RTER 37

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SUBROUTINE RTRAN                                RTRA  1
COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DUMMY(60)      RTRA  2
CHARACTER*2 I1                                  RTRA  3
COMMON/COTRAN/NDATA(19),I2,I3,I5,I4(10)        RTRA  4
COMMON/COTRAN1/I1                               RTRA  5
C..... ENTRY POINT TO READ STATIONARY PERTURBATION DATA RTRA  6
CHARACTER IWHERE*10                             RTRA  7
IWHERE='RTRAN.'                                 RTRA  8
READ(IUS,10,END=3) I1,I2,I3,NDATA              RTRA  9
10  FORMAT(A2,2I15)                             RTRA 10
I5 = 0                                          RTRA 11
RETURN                                          RTRA 12
ENTRY RTRAN1                                    RTRA 13
C..... ENTRY POINT TO READ ZONAL MEAN DATA & RANDOM PERTURBATION DATA IN RTRA 14
C  SETUP                                        RTRA 15
IWHERE='RTRAN1.'                               RTRA 16
READ(IUS,200,END=3) I1,I2,I3,NDATA,I5         RTRA 17
200  FORMAT(A2,I4,I5,19I6,I4)                 RTRA 18
RETURN                                          RTRA 19
ENTRY RTRAN2                                    RTRA 20
C..... ENTRY POINT TO READ QBO PARAMETERS AND LARGE/SMALL SCALE FRACTIONS RTRA 21
C..... AND CORRELATIONS IN SETUP              RTRA 22
IWHERE='RTRAN2.'                               RTRA 23
READ(IUS,300,END=3) I1,NDATA                 RTRA 24
300  FORMAT(A2,19I7)                          RTRA 25
I2=NDATA(1)                                   RTRA 26
I3=NDATA(2)                                   RTRA 27
I5=0                                          RTRA 28
DO 2 I = 1,10                                 RTRA 29
2    I4(I) = NDATA(1+I)                       RTRA 30
RETURN                                          RTRA 31
3  WRITE(6,250) IUS,IWHERE                    RTRA 32
250  FORMAT('1 PREMATURE END-OF-FILE FOUND ON UNIT ',I2/ RTRA 33
      'O CALLED FROM SUBROUTINE ',A10)         RTRA 34
      STOP ' RTRAN ERROR.'                    RTRA 35
      END                                       RTRA 36
SUBROUTINE SCIMOD(NPOP)                        SCIM  1
C..... COMPUTES VALUES P,D,T,U,V AND SHEAR DUH,DVH FROM INPUT AND SCIM  2
C  ARRAYS IN COMMON PDTCOM. INPUT TO SCIMOD IS% SCIM  3
C  G = GRAVITY AT POSITION RI = RADIUS AT HEIGHT H SCIM  4
C  PHIR = LATITUDE (RADIAN) THETR = LONGITUDE (RADIAN) SCIM  5
C  F10 = F10.7 SOLAR FLUX F10B = MEAN F10.7 FLUX SCIM  6
C  AP = SOLAR-GEOMAGNETIC A SUB P INDEX SCIM  7
C  MN/IDA/IYR = DATA (IYR = FULL YEAR-1900) SCIM  8
C  IHR%MIN = TIME H1 = PREVIOUS HEIGHT SCIM  9
C  PHI1R = PREVIOUS LATITUDE THETR = PREVIOUS LONGITUDE SCIM 10
C  RP1,RD1,RT1 = PREVIOUS RANDOM PERTURBATIONS SCIM 11
C  SP1,SD1,ST1 = PREVIOUS RANDOM STANDARD DEVIATIONS (SIGMAS) SCIM 12
C  RU1,RV1 = PREVIOUS RANDOM WINDS SCIM 13
C  SU1,SV1 = PREVIOUS RANDOM WIND SIGMAS SCIM 14
COMMON/IPRTP/ IPRT,NLIMIT                      SCIM 15
COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DD,XMJD,PHI1,PHI, SCIM 16
      .NSAME,RP1L,RD1L,RT1L,SP1L,SD1L,ST1L,RU1L,RV1L,SU1L,SV1L, SCIM 17
      $ MN, IDA, IYR, H1, PHI1R,THETR,G,RI,H,PHIR,THETR,F10,F10B,AP. SCIM 18

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	. IHR,MIN,NMORE,DX,HL,VL,DZ,B,EPS,IOPP,LOOK,IET,FLAT,	SCIM 19
	1RP1S,RD1S,RT1S,RU1S,RV1S,SP1S,SD1S,ST1S,SU1S,SV1S,	SCIM 20
	2UDS1,VDS1,UDL1,VDL1,UDS2,VDS2,UDL2,VDL2	SCIM 21
	COMMON /PDTCDM/IU4,MONTH,IOPR,	SCIM 22
	. PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18),	SCIM 23
	. VSP(15,19,18),	SCIM 24
	. PG(21,19),DG(21,19),TG(21,19),UG(21,19),	SCIM 25
	. PAQ(17,5),DAQ(17,5),TAQ(17,5),UAQ(17,5),VAQ(17,5),	SCIM 26
	. PDQ(17,5),DDQ(17,5),TDQ(17,5),UDQ(17,5),VDQ(17,5),	SCIM 27
	. PR(29,19),DR(29,19),TR(29,19),UR(29,19),VR(29,19)	SCIM 28
	. PQ,DQ,TQ,UQ,VQ,PQA,DQA,TQA,UA,VA,IOPQ,	SCIM 29
	1PLP(25,10),DLP(25,10),TLP(25,10),	SCIM 30
	2VLP(25,10),VLP(25,10),UDL(25,10),	SCIM 31
	3VDL(25,10),UDS(25,10),VDS(25,10)	SCIM 32
	COMMON /C4/ GLAT(16),GLON(16),NG,P4D(16,26),D4D(16,26),T4D(16,26),	SCIM 33
	. SP4(16,26),SD4(16,26),ST4(16,26),THET1,THET,DUMMY	SCIM 34
	COMMON/COMPER/SPH,SDH,STH,PRH,DRH,TRH,URH,VRH,SUH,SVH,CP,	SCIM 35
	1PRHS,DRHS,TRHS,URHS,VRHS,PRHL,DRHL,TRHL,URHL,VRHL,	SCIM 36
	2SPHS,SDHS,STHS,SUHS,SVHS,SPHL,SDHL,STHL,SUHL,SVHL	SCIM 37
	COMMON/WINCOM/DH,FCORY,DX5,DY5,DPX,DPY,UGH,VGH,	SCIM 38
	\$ TH,DTX,DTY,DUH,DVH,PH,UPRE,VPRE,DUPRE,DVPRE	SCIM 39
	COMMON/CHK/PCK(4,4,3),DCK(4,4,3),NO(2)	SCIM 40
	COMMON /CHIC/LA(4,4),NB(2),IWSYM,USH,VSH,DUSH,DVSH	SCIM 41
	COMMON /VERT/RW1,SW1,WRH,SWH,WR(29)	SCIM 42
C	FACTOR FOR RADIANS TO DEGREES	SCIM 43
	FAC = 57.2957795	SCIM 44
	IWSYM=ICHAR(' ')	SCIM 45
	IF(NPOP.NE.O) GO TO 6	SCIM 46
	UPRE=O.	SCIM 47
	VPRE=O.	SCIM 48
	DUPRE=O.	SCIM 49
	DVPRE=O.	SCIM 50
6	PQ=O.	SCIM 51
	DQ=O.	SCIM 52
	TQ=O.	SCIM 53
	PRH=O.	SCIM 54
	DRH=O.	SCIM 55
	TRH=O.	SCIM 56
	URH=O.	SCIM 57
	VRH=O.	SCIM 58
	WRH = O.	SCIM 59
	UQ=O.	SCIM 60
	VQ=O.	SCIM 61
	PQA=O.	SCIM 62
	DQA=O.	SCIM 63
	TQA=O.	SCIM 64
	UA=O.	SCIM 65
	VA=O.	SCIM 66
	PSH=O.	SCIM 67
	DSH=O.	SCIM 68
	TSH=O.	SCIM 69
	SPU = O.	SCIM 70
	SPV = O.	SCIM 71
	MONTH=MN	SCIM 72

C	PRESENT LATITUDE, DEG	SCIM 73
	PHI = PHIR*FAC	SCIM 74
C	PRESENT LONGITUDE, DEG	SCIM 75
	THET = THETR*FAC	SCIM 76
C	PREVIOUS LATITUDE, DEG	SCIM 77
	PHI1 = PHI1R*FAC	SCIM 78
C	PREVIOUS LONGITUDE, DEG	SCIM 79
	THET1 = THET1R*FAC	SCIM 80
C.....	FCORY = NORTH COMPONENT CORIOLIS FACTOR TIMES DISTANCE FOR	SCIM 81
C	5 DEGREES OF LATITUDE	SCIM 82
	DY5 = 5000.*RI/FAC	SCIM 83
	DX5 = DY5*COS(PHIR)	SCIM 84
	FCORY = DY5*SIN(PHIR)/(120.*FAC)	SCIM 85
C.....	IN JACCHIA OR MIXED ZONAL MEAN-JACCHIA HEIGHT RANGE	SCIM 86
	B IF(H.GT.90.0) GO TO 10	SCIM 87
C.....	IN 4-D DATA HEIGHT RANGE	SCIM 88
	IF (H.LE.25.0) GO TO 500	SCIM 89
C.....	IN ZONAL MEAN OR MIXED ZONAL MEAN 4D HEIGHT RANGE	SCIM 90
	GO TO 200	SCIM 91
C.....	IN MIXED JACCHIA-ZONAL MEAN RANGE, NEED TO FAIR DATA	SCIM 92
	10 IF (H.LT.120.) GO TO 20	SCIM 93
C.....	FOLLOWING IS THE PURE JACCHIA HEIGHT RANGE SECTION	SCIM 94
C.....	JACCHIA VALUES AT CURRENT POSITION	SCIM 95
	CALL JACCH(H,PHIR,THET,PH,DH,TH)	SCIM 96
	PHIN = PHIR + 5. / FAC	SCIM 97
	THETE = THET - 5.	SCIM 98
C.....	JACCHIA VALUES AT CURRENT POSITION+5 DEGREES LAT, FOR DP/DY AND	SCIM 99
C	DT/DY	SCIM 100
	CALL JACCH(H,PHIN,THETE,PHN,DHN,THN)	SCIM 101
C.....	JACCHIA VALUES AT CURRENT POSITION-5 DEGREES LON, FOR DP/DX AND	SCIM 102
C	DT/DX	SCIM 103
	CALL JACCH(H,PHIR,THETE,PHE,DHE,THE)	SCIM 104
C	DP/DY FOR GEOSTROPHIC WIND	SCIM 105
	DPY=PHN-PH	SCIM 106
C	DP/DX FOR GEOSTROPHIC WIND	SCIM 107
	DPX=PHE-PH	SCIM 108
C	DT/DX FOR THERMAL WIND SHEAR	SCIM 109
	DTX = THE - TH	SCIM 110
C	DT/DY FOR THERMAL WIND SHEAR	SCIM 111
	DTY = THN - TH	SCIM 112
C	CHANGE NOTATION FOR OUTPUT	SCIM 113
	PGH=PH	SCIM 114
	DGH=DH	SCIM 115
	TGH=TH	SCIM 116
	CALL WIND	SCIM 117
	UH = UGH	SCIM 118
	VH = VGH	SCIM 119
	HB = H + 5.	SCIM 120
	CP = 7.*PH/(2.*DH*TH)	SCIM 121
	CALL JACCH(HB,PHIR,THET,PB,DB,TB)	SCIM 122
	DTZ = (TB - TH)/5000.	SCIM 123
C.....	VERTICAL MEAN WIND	SCIM 124
	WGH = -CP*(UH*DTX/DX5 + VH*DTY/DY5)/(G + CP*DTZ + UH*DUH+VH*DVH)	SCIM 125
C	GO TO RANDOM PERTURBATIONS SECTION	SCIM 126

GO TO 800	SCIM 127
C.... FOLLOWING IS THE MIXED JACCHIA-ZONAL MEAN HEIGHT RANGE SECTION	SCIM 128
C LOWER HEIGHT INDEX	SCIM 129
20 IHA = 5*(INT(H)/5)	SCIM 130
C UPPER HEIGHT INDEX	SCIM 131
IHB = IHA + 5	SCIM 132
C LOWER HEIGHT FOR INTERPOLATION	SCIM 133
HA = IHA*1.	SCIM 134
C UPPER HEIGHT FOR INTERPOLATION	SCIM 135
HB = IHB*1.	SCIM 136
C..... JACCHIA VALUES AT LOWER HEIGHT, CURRENT LAT-LON	SCIM 137
CALL JACCH(HA,PHIR,THET,PJA,DJA,TJA)	SCIM 138
PHIN = PHIR + 5. / FAC	SCIM 139
THETE = THET - 5.	SCIM 140
C..... JACCHIA VALUES AT LOWER HEIGHT, CURRENT LON-LAT+5 DEGREES	SCIM 141
C LAT, FOR DP/DY AND DT/DY	SCIM 142
CALL JACCH(HA,PHIN,THET,PJN,DJN,TJN)	SCIM 143
C..... JACCHIA VALUES AT LOWER HEIGHT, CURRENT LAT-LON-5 DEGREES	SCIM 144
C LON, FOR DP/DX, AND DT/DX	SCIM 145
CALL JACCH(HA,PHIR,THETE,PJE,DJE,TJE)	SCIM 146
C JACCHIA DP/DY AT LOWER HEIGHT	SCIM 147
DPXJA=PJE-PJA	SCIM 148
C JACCHIA DP/DY AT LOWER HEIGHT	SCIM 149
DPYJA=PJN-PJA	SCIM 150
C JACCHIA DT/DX AT LOWER HEIGHT	SCIM 151
DTXJA = TJE - TJA	SCIM 152
C JACCHIA DT/DY AT LOWER HEIGHT	SCIM 153
DTYJA = TJN - TJA	SCIM 154
C..... JACCHIA VALUES AT UPPER HEIGHT, CURRENT LAT-LON	SCIM 155
CALL JACCH(HB,PHIR,THET,PJB,DJB,TJB)	SCIM 156
PHIN = PHIR + 5. / FAC	SCIM 157
THETE=THET-5.	SCIM 158
C..... JACCHIA VALUES AT UPPER HEIGHT, CURRENT LON-LAT+5 DEGREES	SCIM 159
C LAT, FOR DP/DY AND DT/DY	SCIM 160
CALL JACCH(HB,PHIN,THET,PJN,DJN,TJN)	SCIM 161
C..... JACCHIA VALUES AT UPPER HEIGHT, CURRENT LAT-LON-5 DEGREES	SCIM 162
C LON, FOR DP/DX AND DT/DX	SCIM 163
CALL JACCH(HB,PHIR,THETE,PJE,DJE,TJE)	SCIM 164
C JACCHIA DP/DX FOR GEOSTROPHIC WINDS	SCIM 165
DPXJB = PJE - PJB	SCIM 166
C JACCHIA DP/DY FOR GEOSTROPHIC WINDS	SCIM 167
DPYJB = PJN - PJB	SCIM 168
C JACCHIA DT/DX FOR THERMAL WIND SHEAR	SCIM 169
DTXJB = TJE - TJB	SCIM 170
C JACCHIA DT/DY FOR THERMAL WIND SHEAR	SCIM 171
DTYJB = TJN - TJB	SCIM 172
C..... ZONAL MEAN AT LOWER HEIGHT, TO BE FAIRED WITH JACCHIA	SCIM 173
CALL GTERP(IHA,PHI,PGA,DGA,TGA,PG,DG,TG,DPYGA,DTYGA,UGA,UG)	SCIM 174
C..... ZONAL MEAN AT UPPER HEIGHT, TO BE FAIRED WITH JACCHIA	SCIM 175
CALL GTERP(IHB,PHI,PGB,DGB,TGB,PG,DG,TG,DPYGB,DTYGB,UGB,UG)	SCIM 176
C..... FAIRED RESULTS AT LOWER HEIGHT	SCIM 177
IHSB = 90	SCIM 178
CALL PDTUV(PSP,DSP,TSP,USP,VSP,PHI,THET,IHSB,PSH,DSH,TSH,	SCIM 179
& DPXSB,DPYSB,DTXSB,DTYSB,SPU,SPV)	SCIM 180

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PGA = PGA*(1. + PSH) SCIM 181
DGA = DGA*(1. + DSH) SCIM 182
TGA = TGA*(1. + TSH) SCIM 183
PGB = PGB*(1. + PSH) SCIM 184
DGB = DGB*(1. + DSH) SCIM 185
TGB = TGB*(1. + TSH) SCIM 186
UGA=UGA+SPU SCIM 187
VGA=SPV SCIM 188
UGB=UGB+SPU SCIM 189
VGB=SPV SCIM 190
DTXGA = DTXSB * TGA SCIM 191
DTXGB = DTXSB * TGB SCIM 192
DTYGA = TGA*DTYSB + DTYGA*(1. + TSH + DTYSB) SCIM 193
DTYGB = TGB*DTYSB + DTYGB*(1. + TSH + DTYSB) SCIM 194
DPXGA = DPXSB * PGA SCIM 195
DPXGB = DPXSB * PGB SCIM 196
DPYGA = PGA*DPYSB + DPYGA*(1. + PSH + DPYSB) SCIM 197
DPYGB = PGB*DPYSB + DPYGB*(1. + PSH + DPYSB) SCIM 198
CALL FAIR(PGA,DGA,TGA,PJA,DJA,TJA,IHA,P1,D1,T1,DPXGA,DPYGA, SCIM 199
& DPXJA,DPYJA,DPXA,DPYA,DTXGA,DTYGA,DTXJA,DTYJA,DTXA,DTYA) SCIM 200
C.....FAIRED RESULTS AT UPPER HEIGHT SCIM 201
CALL FAIR(PGB,DGB,TGB,PJB,DJB,TJB,IHB,P2,D2,T2,DPXGB,DPYGB, SCIM 202
& DPXJB,DPYJB,DPXB,DPYB,DTXGB,DTYGB,DTXJB,DTYJB,DTXB,DTYB) SCIM 203
C.....HEIGHT INTERPOLATION ON FAIRED P,D,T SCIM 204
CALL INTER2(P1,D1,T1,HA,P2,D2,T2,HB,PH,DH,TH,H) SCIM 205
C.....HEIGHT INTERPOLATION ON FAIRED DP/DX,DP/DY SCIM 206
CALL INTERW(DPXJA,DPYJA,HA,DPXJB,DPYJB,HB,DPX,DPY,H) SCIM 207
C.....HEIGHT INTERPOLATION ON FAIRED DT/DX,DT/DY SCIM 208
CALL INTERW(DTXJA,DTYJA,HA,DTXJB,DTYJB,HB,DTX,DTY,H) SCIM 209
C.....HEIGHT INTERPOLATION OF WIND SCIM 210
CALL INTERW(UGA,VGA,HA,UGB,VGB,HB,USH,VSH,H) SCIM 211
DUSH=(UGB-UGA)/5000. SCIM 212
DVSH=(VGB-VGA)/5000. SCIM 213
C CHANGE OF VARIABLES FOR OUTPUT SCIM 214
PGH=PH SCIM 215
DGH=DH SCIM 216
TGH=TH SCIM 217
CALL WIND SCIM 218
UH=UGH SCIM 219
VH=VGH SCIM 220
CP = 7.*PH/(2.*DH*TH) SCIM 221
DTZ = (T2 - T1)/5000. SCIM 222
C.....VERTICAL MEAN WIND SCIM 223
WGH = -CP*(UH*DTX/DX5 + VH*DTY/DY5)/(G + CP*DTZ + UH*DUH + VH*DVH) SCIM 224
C GO TO RANDOM PERTURBATIONS SECTION SCIM 225
GO TO 800 SCIM 226
C..... THE FOLLOWING SECTION IS FOR ZONAL MEAN OR MIXED ZONAL MEAN 4D SCIM 227
C HEIGHTS SCIM 228
C UPPER HEIGHT INDEX SCIM 229
200 IHGB = 5*(INT(H)/5) + 5 SCIM 230
C UPPER HEIGHT SCIM 231
HGB = IHGB*1. SCIM 232
C..... ZONAL MEAN AT UPPER HEIGHT SCIM 233
CALL GTERP(IHGB,PHI,PGB,DGB,TGB,PG,DG,TG,DPYGB,DTYGB,UGB,UG) SCIM 234

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	IHSB = 5*(INT(H)/5) + 5	SCIM 235
	IF (IHSB .GT. 90)IHSB = 90	SCIM 236
C	UPPER STATIONARY PERTURBATION HEIGHT	SCIM 237
230	HSB = IHSB*1.	SCIM 238
C	STATIONARY PERTURBATIONS AT UPPER HEIGHT	SCIM 239
	CALL PDTUV(PSP,DSP,TSP,USP,VSP,PHI,THET,IHSB,PSB,DSB,TSB,	SCIM 240
	\$ DPXSB,DPYSB,DTXSB,DTYSB,USB,VSB)	SCIM 241
C	LOWER HEIGHT INDEX	SCIM 242
	IHGA = IHGB - 5	SCIM 243
C	LOWER HEIGHT INDEX	SCIM 244
	HGA = IHGA*1.	SCIM 245
C	ZONAL MEAN AT LOWER HEIGHT	SCIM 246
	CALL GTERP(IHGA,PHI,PGA,DGA,TGA,PG,DG,TG,DPYGA,DTYGA,UGA,UG)	SCIM 247
	IHSA=IHSB - 5	SCIM 248
C	LOWER STATIONARY PERTURBATION HEIGHT	SCIM 249
250	HSA = IHSA*1.	SCIM 250
C	STATIONARY PERTURBATIONS AT LOWER HEIGHT	SCIM 251
	CALL PDTUV(PSP,DSP,TSP,USP,VSP,PHI,THET,IHSA,PSA,DSA,TSA,	SCIM 252
	\$ DPXSA,DPYSA,DTXSA,DTYSA,USA,VSA)	SCIM 253
	CALL INTERW(UGA,O.,HGA,UGB,O.,HGB,UGH,VGH,H)	SCIM 254
	CALL INTERW(USA,VSA,HSA,USB,VSB,HSB,SPU,SPV,H)	SCIM 255
	USH=UGH+SPU	SCIM 256
	VSH=SPV	SCIM 257
	DUSH=((UGB-UGA)/(HGB-HGA)+(USB-USA)/(HSB-HSA))* .001	SCIM 258
	DVSH=.001*(VSB-VSA)/(HSB-HSA)	SCIM 259
C	FOR MIXED ZONAL MEAN - 4D SECTION	SCIM 260
	IF(H.LT.30.0) GO TO 300	SCIM 261
C	ZONAL MEAN VALUES HEIGHT INTERPOLATIONS	SCIM 262
	CALL INTER2(PGA,DGA,TGA,HGA,PGB,DGB,TGB,HGB,PGH,DGH,TGH,H)	SCIM 263
C	STATIONARY PERTURBATION HEIGHT INTERPOLATION	SCIM 264
	CALL INTERZ(PSA,DSA,TSA,HSA,PSB,DSB,TSB,HSB,PSH,DSH,TSH,H)	SCIM 265
C	QUASI-BIENNIAL VALUES	SCIM 266
	CALL QBOGEN	SCIM 267
C	HEIGHT INTERPOLATION OF ZONAL MEAN DP/DY AND DT/DY	SCIM 268
	CALL INTERW(DPYGA,DTYGA,HGA,DPYGB,DTYGB,HGB,DPYG,	SCIM 269
	\$ DTYG,H)	SCIM 270
C	HEIGHT INTERPOLATION OF STATIONARY PERTURBATION DP/DX AND DP/DY	SCIM 271
	CALL INTERW(DPXSA,DPYSA,HSA,DPXSB,DPYSB,HSB,DPXS,DPYS,H)	SCIM 272
C	HEIGHT INTERPOLATION OF STATIONARY PERTURBATION DT/DX AND DT/DY	SCIM 273
	CALL INTERW(DTXSA,DTYSA,HSA,DTXSB,DTYSB,HSB,DTXS,DTYS,H)	SCIM 274
C	UNPERTURBED (MONTHLY MEAN) VALUES FOR OUTPUT	SCIM 275
	TGH = TGH * (1. + TSH)	SCIM 276
	PGH = PGH * (1. + PSH)	SCIM 277
	DGH = DGH * (1. + DSH)	SCIM 278
C	TOTAL DT/DX	SCIM 279
	DTX = DTXS * TGH	SCIM 280
C	TOTAL DT/DY	SCIM 281
	DTY = TGH*DTYS + DTYG*(1. + TSH + DTYS)	SCIM 282
C	TOTAL DP/DX	SCIM 283
	DPX = DPXS * PGH	SCIM 284
C	TOTAL DP/DY	SCIM 285
	DPY = PGH*DPYS + DPYG*(1. + PSH + DPYS)	SCIM 286
C	UNPERTURBED VALUES PLUS QBO PERTURBATIONS	SCIM 287
	PH = (1. + PQ) * PGH	SCIM 288

	DH = DGH * (1. + DQ)	SCIM 289
	TH = (1. + TQ) * TGH	SCIM 290
	CALL WIND	SCIM 291
C	GEOSTROPHIC WIND PLUS QBO WIND PERTURBATIONS	SCIM 292
	UH=UGH+UQ	SCIM 293
	VH=VGH+VQ	SCIM 294
	CP = 7.*PGH/(2.*DGH*TGH)	SCIM 295
	DTZ = (TGB*(1.+TSB) - TGA*(1.+TSA))/5000.	SCIM 296
C	VERTICAL MEAN WIND	SCIM 297
	WGH=-CP*(UGH*DTX/DX5+VGH*DTY/DY5)/(G+CP*DTZ+VGH*DUH+VGH*DVH)	SCIM 298
C	GO TO RANDOM PERTURBATIONS SECTION	SCIM 299
	GO TO 800	SCIM 300
C	THE FOLLOWING IS THE MIXED ZONAL MEAN-4D SECTION	SCIM 301
C	GENERATE GRID OF 4D PROFILES IF PREVIOUS HEIGHT GE 30	SCIM 302
300	IF (LOOK.EQ.1)CALL GEN4D	SCIM 303
	IHCK = 24	SCIM 304
	DO 310 KND = 1,3	SCIM 305
	IKND = IHCK + KND	SCIM 306
	IF (IKND.GT.26)IKND=26	SCIM 307
	DO 310 IND = 1,4	SCIM 308
	DO 310 JND = 1,4	SCIM 309
	PCK(IND,JND,KND) = P4D(4*(IND-1)+JND,IKND)	SCIM 310
	DCK(IND,JND,KND) = D4D(4*(IND-1)+JND,IKND)	SCIM 311
310	CONTINUE	SCIM 312
C	LAT-LON INTERPOLATION OF 4D DATA AT 25 KM	SCIM 313
	CALL INTER4(PHI,THET,25, P4D,D4D,T4D,P4A,D4A,T4A, \$ DPX4,DPY4,DTX4,DTY4)	SCIM 314
C	ZONAL MEAN PLUS STATIONARY PERTURBATIONS	SCIM 315
	PB = PGB*(1. + PSB)	SCIM 316
C	P,D,T	SCIM 317
	DB = DGB*(1. + DSB)	SCIM 318
	TB = TGB*(1. + TSB)	SCIM 319
	DPXB = PGB*DPXSB	SCIM 320
	DPYB = PGB*DPYSB + DPYGB*(1. + PSB + DPYSB)	SCIM 321
	DTXB = TGB*DTXSB	SCIM 322
	DTYB = TGB*DTYSB + DTYGB*(1. + TSB + DTYSB)	SCIM 323
C	HEIGHT INTERPOLATION BETWEEN 4D AT 25 AND ZONAL MEAN AT UPPER	SCIM 324
C	HEIGHT DP/DX AND DP/DY	SCIM 325
	CALL INTERW(DPX4,DPY4,25.,DPXB,DPYB,HSB,DPX,DPY,H)	SCIM 326
C	HEIGHT INTERPOLATION BETWEEN 4D AT 25 AND ZONAL MEAN AT UPPER	SCIM 327
C	HEIGHT P,D,T	SCIM 328
	CALL INTER2(P4A,D4A,T4A,25.,PB,DB,TB,HGB,PGH,DGH,TGH,H)	SCIM 329
C	HEIGHT INTERPOLATION BETWEEN 4D AT 25 AND ZONAL MEAN AT UPPER	SCIM 330
C	HEIGHT DT/DX AND DT/DY	SCIM 331
	CALL INTERW(DTX4,DTY4,25.,DTXB,DTYB,HSB,DTX,DTY,H)	SCIM 332
	IF (IOPQ.EQ.2) GO TO 350	SCIM 333
C	QUASI BIENNIAL PERTURBATIONS	SCIM 334
	CALL QBOGEN	SCIM 335
C	ADD QBO PERTURBATIONS TO P,D,T	SCIM 336
350	PH=PGH*(1.+PQ)	SCIM 337
	DH=DGH*(1.+DQ)	SCIM 338
	TH=TGH*(1.+TQ)	SCIM 339
	CALL WIND	SCIM 340
C	ADD QBO WIND PERTURBATIONS	SCIM 341
		SCIM 342

UH=UGH+UQ	SCIM 343
VH=VGH+VQ	SCIM 344
CP = 7.*PGH/(2.*DGH*TGH)	SCIM 345
DTZ = (TB - T4A)/(1000.*(HGB - 25.))	SCIM 346
C.....VERTICAL MEAN WIND	SCIM 347
WGH=-CP*(UGH*DTX/DX5+VGH*DTY/DY5)/(G+CP*DTZ+UGH*DUH+VGH*DVH)	SCIM 348
C GO TO RANDOM PERTURBATIONS SECTION	SCIM 349
2000 FORMAT(' 4-D DATA AFTER ADJUSTMENTS''/ LATITUDE'/3X,16F8.3)	SCIM 350
2001 FORMAT(' LONGITUDE'/3X,16F8.3)	SCIM 351
2007 FORMAT(' PRESSURE')	SCIM 352
2002 FORMAT(1X,I2,16F8.0)	SCIM 353
2003 FORMAT(' DENSITY')	SCIM 354
2005 FORMAT(' TEMPERATURE')	SCIM 355
2004 FORMAT(1X,I2,16F8.5)	SCIM 356
2006 FORMAT(1X,I2,16F8.2)	SCIM 357
GO TO 800	SCIM 358
500 IF (H.GE.O.O) GO TO 510	SCIM 359
IF (H.LT.-O.O15) GO TO 505	SCIM 360
C IF -15 METER LE H LT O , H IS SET TO O	SCIM 361
H = O.	SCIM 362
GO TO 510	SCIM 363
C NO MORE COMPUTATIONS TO BE MADE IF HEIGHT LT -5 M	SCIM 364
505 NMORE = O	SCIM 365
RETURN	SCIM 366
C.....GENERATE GRID OF 4D PROFILES IF PREVIOUS HEIGHT GE 30	SCIM 367
510 IF (LOOK.EQ.1)CALL GEN4D	SCIM 368
C LOWER HEIGHT INDEX	SCIM 369
IHA=INT(H)	SCIM 370
C LOWER HEIGHT INDEX	SCIM 371
HA = IHA*1.	SCIM 372
IWSX = IWSYM	SCIM 373
IHCK=IHA-1	SCIM 374
DO 511 KND=1,3	SCIM 375
IKND = IHCK + KND	SCIM 376
IF (IKND.LT.1)IKND = 1	SCIM 377
IF (IKND.GT.26)IKND = 26	SCIM 378
DO 511 IND=1,4	SCIM 379
DO 511 JND = 1,4	SCIM 380
PCK(IND,JND,KND)=P4D(4*(IND-1)+JND,IKND)	SCIM 381
DCK(IND,JND,KND)=D4D(4*(IND-1)+JND,IKND)	SCIM 382
511 CONTINUE	SCIM 383
C UPPER HEIGHT INDEX	SCIM 384
IHB = IHA + 1	SCIM 385
IF(IHB.LE.25) GO TO 513	SCIM 386
IHA=24	SCIM 387
HA=24.	SCIM 388
IHB=25	SCIM 389
C UPPER HEIGHT	SCIM 390
513 HB = IHB*1.	SCIM 391
C.....LAT-LON INTERPOLATION OF 4D VALUES AT UPPER HEIGHT	SCIM 392
515 CALL INTER4(PHI,THET,IHB, P4D,D4D,T4D,PB,DB,TB,	SCIM 393
\$ DPX4B,DPY4B,DTX4B,DTY4B)	SCIM 394
IF (IHA.EQ.O.AND.PB*DB*TB.LE.O.)GO TO 520	SCIM 395
GO TO 540	SCIM 396

520	IHB=IHB+1	SCIM 397
C.....	LOOP TO FIND LOWEST VALID HEIGHT	SCIM 398
	HB=HB+1.	SCIM 399
	GO TO 515	SCIM 400
540	IF(IHA.GT.O)CALL INTER4(PHI,THET,IHA, P4D,D4D,T4D,	SCIM 401
	\$ PA,DA,TA,DPX4A,DPY4A,DTX4A,DTY4A)	SCIM 402
	IF(IWSYM.EQ.ICHR('**')) IWSX=IWSYM	SCIM 403
	IF(IHA.EQ.O.OR.(PA*DA*TA.LE.O.AND.IHA.LT.10.AND.PB*DB*TB.GT.O.))	SCIM 404
	1GO TO 550	SCIM 405
	GO TO 600	SCIM 406
C.....	LAT-LON INTERPOLATION OF 4D VALUES AT LOWER HEIGHT	SCIM 407
550	CALL INTER4(PHI,THET,O, P4D,D4D,T4D,	SCIM 408
	\$ PA,DA,TA,DPX4A,DPY4A,DTX4A,DTY4A)	SCIM 409
	IF(IWSYM.EQ.ICHR('**')) IWSX=IWSYM	SCIM 410
	IF(TA-TB)560,570,560	SCIM 411
56Q	IF(TA*TB.LE.O.O) GO TO 570	SCIM 412
	TZ = (TA-TB) / ALOG(TA/TB)	SCIM 413
	GO TO 575	SCIM 414
570	TZ=TA	SCIM 415
C...	COMPUTES HEIGHT OF SURFACE	SCIM 416
575	HA = HB	SCIM 417
	IF(PB*PA.LE.O.O)GO TO 576	SCIM 418
	HA = HB + 0.28705*TZ*ALOG(PB/PA)/G	SCIM 419
576	IF(H.GT.HA - 0.04)GO TO 600	SCIM 420
	PH=O.	SCIM 421
	DH=O.	SCIM 422
	TH=O.	SCIM 423
	PGH=O.	SCIM 424
	DGH=O.	SCIM 425
	TGH=O.	SCIM 426
	GO TO 800	SCIM 427
C.....	HEIGHT INTERPOLATION OF P,D,T	SCIM 428
600	CALL INTER2(PA,DA,TA,HA,PB,DB,TB,HB,PGH,DGH,TGH,H)	SCIM 429
C.....	HEIGHT INTERPOLATION OF DP/DX AND DP/DY	SCIM 430
	CALL INTERW(DPX4A,DPY4A,HA,DPX4B,DPY4B,HB,DPX,DPY,H)	SCIM 431
C.....	HEIGHT INTERPOLATION OF DT/DX AND DT/DY	SCIM 432
	CALL INTERW(DTX4A,DTY4A,HA,DTX4B,DTY4B,HB,DTX,DTY,H)	SCIM 433
C	CHANGE OF NOTATION FOR OUTPUT	SCIM 434
	PH = PGH	SCIM 435
	DH = DGH	SCIM 436
	TH = TGH	SCIM 437
	IF(PH*DH*TH.LE.O.) GO TO 800	SCIM 438
	CALL WIND	SCIM 439
C	CHANGE OF NOTATION FOR OUTPUT	SCIM 440
	UH = UGH	SCIM 441
	VH = VGH	SCIM 442
	CP = 7.*PGH/(2.*DGH*TGH)	SCIM 443
	DTZ = (TB - TA)/(1000.*(HB - HA))	SCIM 444
C.....	VERTICAL MEAN WIND	SCIM 445
	WGH = -CP*(UGH*DTX/DX5 + VGH*DTY/DY5)/(G+CP*DTZ+UH*DUH+VH*DVH)	SCIM 446
C	QBO=O IF H LT 10	SCIM 447
	IF (H.LT.10.) GO TO 800	SCIM 448
	IF (IOPQ.EQ.2) GO TO 650	SCIM 449
C	COMPUTES QUASI BIENNIAL PERTURBATIONS	SCIM 450

	CALL QBOGEN	SCIM 451
C	ADDS QBO PERTURBATIONS TO P,D,T	SCIM 452
650	PH=PGH*(1.+PQ)	SCIM 453
	DH=DGH*(1.+DQ)	SCIM 454
	TH=TGH*(1.+TQ)	SCIM 455
C	ADDS QBO WIND PERTURBATIONS TO U,V	SCIM 456
	UH=UGH+UQ	SCIM 457
	VH=VGH+VQ	SCIM 458
C.....	THE FOLLOWING IS THE RANDOM PERTURBATIONS SECTION	SCIM 459
C.....	NO RANDOM PERTURBATIONS IF IOPR GT 1	SCIM 460
800	CONTINUE	SCIM 461
	IF(H.GE.30.)GOTO 512	SCIM 462
	IF(IPRT.NE.0)GOTO 512	SCIM 463
	WRITE(6,2000) (GLAT(I),I=1,NG)	SCIM 464
	WRITE(6,2001) (GLON(I),I=1,NG)	SCIM 465
	WRITE(6,2007)	SCIM 466
	DO 504 I=1,26	SCIM 467
	IH=I-1	SCIM 468
	WRITE(6,2004)IH,(SP4(J,I),J=1,NG)	SCIM 469
	WRITE(6,2002) IH,(P4D(J,I),J=1,NG)	SCIM 470
504	CONTINUE	SCIM 471
	WRITE(6,2003)	SCIM 472
	DO 507 I = 1,26	SCIM 473
	IH = I - 1	SCIM 474
	WRITE(6,2004)IH,(SD4(J,I),J=1,NG)	SCIM 475
507	WRITE(6,2004)IH,(D4D(J,I),J=1,NG)	SCIM 476
	WRITE(6,2005)	SCIM 477
	DO 506 I = 1,26	SCIM 478
	IH = I - 1	SCIM 479
	WRITE(6,2004)IH,(ST4(J,I),J=1,NG)	SCIM 480
506	WRITE(6,2006)IH,(T4D(J,I),J=1,NG)	SCIM 481
	IPRT=IPRT+1	SCIM 482
512	CONTINUE	SCIM 483
	IF(NPOP.EQ.0)GO TO 840	SCIM 484
	IF (IOPR.GT.1) GO TO 830	SCIM 485
C.....	INTERPOLATES RANDOM WIND MAGNITUDES TO HEIGHT H, LATITUDE PHI	SCIM 486
	CALL INTRUV(UR,VR,H,PHI,SUH,SVH)	SCIM 487
	CALL INTR25(PLP,DLP,H,PHI,PLPH,DLPH)	SCIM 488
	CALL INTR25(TLP,DLP,H,PHI,TLPH,DLPH)	SCIM 489
	CALL INTR25(ULP,VLP,H,PHI,ULPH,VLPH)	SCIM 490
	CALL INTR25(UDL,VDL,H,PHI,UDL2,VDL2)	SCIM 491
	CALL INTR25(UDS,VDS,H,PHI,UDS2,VDS2)	SCIM 492
	CALL INTRW(WR,H,SWH)	SCIM 493
	SUHL=SQRT(ULPH*ABS(SUH))	SCIM 494
	SUHS=SQRT((1.-ULPH)*ABS(SUH))	SCIM 495
	SVHL=SQRT(VLPH*ABS(SVH))	SCIM 496
	SVHS=SQRT((1.-VLPH)*ABS(SVH))	SCIM 497
	SUH = SQRT(ABS(SUH))	SCIM 498
	SVH = SQRT(ABS(SVH))	SCIM 499
	IF(H.GE.25.)GOTO 805	SCIM 500
C.....	IF H LE 20 USE 4D DATA RANDOM P,D,T SIGMAS	SCIM 501
	IF(H.LE.20.)GOTO 810	SCIM 502
C.....	INTERPOLATE PR,DR,TR ARRAYS TO GET P,D,T SIGMAS AT HEIGHT H,	SCIM 503
C	LATITUDE PHI	SCIM 504

	CALL RTERP(25.,PHI,PR,DR,TR,SPHG,SDHG,STHG)	SCIM 505
	GO TO 810	SCIM 506
805	CONTINUE	SCIM 507
	CALL RTERP(H,PHI,PR,DR,TR,SPH,SDH,STH)	SCIM 508
	GO TO 820	SCIM 509
C.....	LAT-LON INTERPOLATION ON P,D,T SIGMAS AT LOWER HEIGHT	SCIM 510
	810 CALL INTER4(PHI,THET,IHA, SP4,SD4,ST4,PA,DA,TA,	SCIM 511
	\$ DPX,DPY,DTX,DTY)	SCIM 512
C.....	LAT-LON INTERPOLATION ON P,D,T SIGMAS AT UPPER HEIGHT	SCIM 513
	CALL INTER4(PHI,THET,IHB, SP4,SD4,ST4,PB,DB,TB,	SCIM 514
	\$ DPX,DPY,DTX,DTY)	SCIM 515
C.....	HEIGHT INTERPOLATION OF SIGMAS	SCIM 516
	CALL INTERZ(PA,DA,TA, HA,PB,DB,TB, HB,SPH,SDH,STH,H)	SCIM 517
	IF(PH.LE.O.O.OR.DH.LE.O.O.OR.TH.LE.O.O)GO TO 825	SCIM 518
	IF(H.LE.20.)GOTO 820	SCIM 519
	FH = 1. - 0.2*(25. - H)	SCIM 520
	SPH = FH*SPHG + (1. - FH)*SPH	SCIM 521
	SDH = FH*SDHG + (1. - FH)*SDH	SCIM 522
	STH = FH*STHG + (1. - FH)*STH	SCIM 523
C.....	HEIGHT DISPLACEMENT BETWEEN PREVIOUS AND CURRENT POSITION	SCIM 524
	820 DZ = HI - H	SCIM 525
	SPHL=SQRT(PLPH*ABS(SPH))	SCIM 526
	SPHS=SQRT((1.-PLPH)*ABS(SPH))	SCIM 527
	SDHL=SQRT(DLPH*ABS(SDH))	SCIM 528
	SDHS=SQRT((1.-DLPH)*ABS(SDH))	SCIM 529
	STHL=SQRT(TLPH*ABS(STH))	SCIM 530
	STHS=SQRT((1.-TLPH)*ABS(STH))	SCIM 531
	SPH = SQRT(ABS(SPH))	SCIM 532
	SDH = SQRT(ABS(SDH))	SCIM 533
	STH = SQRT(ABS(STH))	SCIM 534
C.....	COMPUTES HORIZONTAL DISPLACEMENT DX BETWEEN PREVIOUS AND CURRENT	SCIM 535
C	POSITION, HORIZONTAL SCALE HL, AND VERTICAL SCALE VL	SCIM 536
C.....	COMPUTES PERTURBATION VALUES PRH,DRH,TRH,URH,VRH AND WRH	SCIM 537
	CALL PERTRB	SCIM 538
C	ADDS RANDOM PERTURBATIONS TO PH,DH,TH	SCIM 539
	PH = PH*(1. + PRH)	SCIM 540
	DH = DH*(1. + DRH)	SCIM 541
	TH = TH*(1. + TRH)	SCIM 542
C	ADDS RANDOM WINDS TO UH,VH,WH	SCIM 543
	UH=UH+URH	SCIM 544
	VH=VH+VRH	SCIM 545
	WH=WGH+WRH	SCIM 546
C.....	SETS PREVIOUS RANDOM PERTURBATION IN P,D,T TO CURRENT	SCIM 547
C	PERTURBATIONS, FOR NEXT CYCLE	SCIM 548
	825 RP1S= PRHS	SCIM 549
	RD1S= DRHS	SCIM 550
	RT1S= TRHS	SCIM 551
	RP1L=PRHL	SCIM 552
	RD1L=DRHL	SCIM 553
	RT1L=TRHL	SCIM 554
C.....	SETS PREVIOUS MAGNITUDES TO CURRENT VALUES, FOR NEXT CYCLE	SCIM 555
	SP1S=SPHS	SCIM 556
	SD1S=SDHS	SCIM 557
	ST1S=STHS	SCIM 558

	SP1L=SPHL	SCIM 559
	SD1L=SDHL	SCIM 560
	ST1L=STHL	SCIM 561
C.....	SETS PREVIOUS WIND PERTURBATION VALUES TO CURRENT VALUES,	SCIM 562
C	FOR NEXT CYCLE	SCIM 563
	RU1S=URHS	SCIM 564
	RV1S=VRHS	SCIM 565
	RU1L=URHL	SCIM 566
	RV1L=VRHL	SCIM 567
	RW1=WRH	SCIM 568
C.....	SETS PREVIOUS WIND PERTURBATION MAGNITUDES TO CURRENT VALUES,	SCIM 569
C	FOR NEXT CYCLE	SCIM 570
	SU1S=SUHS	SCIM 571
	SV1S=SVHS	SCIM 572
	SU1L=SUHL	SCIM 573
	SV1L=SVHL	SCIM 574
	SW1=SWH	SCIM 575
C.....	SETS PREVIOUS HEIGHT TO CURRENT HEIGHT, FOR NEXT CYCLE	SCIM 576
	830 H1 = H	SCIM 577
C.....	SETS PREVIOUS LATITUDE TO CURRENT LATITUDE, FOR NEXT CYCLE	SCIM 578
	PH1R=PHIR	SCIM 579
C.....	SETS PREVIOUS LONGITUDE TO CURRENT LONGITUDE, FOR NEXT CYCLE	SCIM 580
	TH1R=THETR	SCIM 581
C	SETS NMORE TO COMPUTE MORE DATA ON NEXT CYCLE	SCIM 582
	840 NMORE = 1	SCIM 583
C.....	NO MORE DATA IF P, D, OR T LEQ 0	SCIM 584
	IF (PH*DH*TH.LE.O.) RETURN	SCIM 585
	CALL STDATM(H,TS,PS,DS)	SCIM 586
	IF ((PS*DS*TS).GT.O.) GO TO 870	SCIM 587
	PGHP=0.	SCIM 588
	DGHP=0.	SCIM 589
	TGHP=0.	SCIM 590
	PHP=0.	SCIM 591
	DHP=0.	SCIM 592
	THP=0.	SCIM 593
	GO TO 880	SCIM 594
	870 PGHP=100.*(PGH-PS)/PS	SCIM 595
	DGHP=100.*(DGH-DS)/DS	SCIM 596
	TGHP=100.*(TGH-TS)/TS	SCIM 597
	PHP=100.*(PH-PS)/PS	SCIM 598
	DHP=100.*(DH-DS)/DS	SCIM 599
	THP=100.*(TH-TS)/TS	SCIM 600
C	CONVERTS QBO P,D,T TO PERCENT	SCIM 601
	880 PQ=100.*PQ	SCIM 602
	DQ=100.*DQ	SCIM 603
	TQ=100.*TQ	SCIM 604
C	CONVERTS RANDOM P,D,T TO PERCENT	SCIM 605
	PRH=100.*PRH	SCIM 606
	DRH=100.*DRH	SCIM 607
	TRH=100.*TRH	SCIM 608
	PRHS=100.*PRHS	SCIM 609
	DRHS=100.*DRHS	SCIM 610
	TRHS=100.*TRHS	SCIM 611
	PRHL=100.*PRHL	SCIM 612

	DRHL = 100.*DRHL	SCIM 613
	TRHL = 100.*TRHL	SCIM 614
	SPHS = 100.*SPHS	SCIM 615
	SDHS = 100.*SDHS	SCIM 616
	STHS = 100.*STHS	SCIM 617
	SPHL = 100.*SPHL	SCIM 618
	SDHL = 100.*SDHL	SCIM 619
	STHL = 100.*STHL	SCIM 620
C	CONVERTS WIND SHEAR TO M/S/KM	SCIM 621
	DUH = DUH * 1000.	SCIM 622
	DVH = DVH * 1000.	SCIM 623
	FQA=PQA*100.	SCIM 624
	DQA=DQA*100.	SCIM 625
	TQA=TQA*100.	SCIM 626
	SPH=SPH*100.	SCIM 627
	SDH=SDH*100.	SCIM 628
	STH=STH*100.	SCIM 629
	PSH=PSH*100.	SCIM 630
	DSH=DSH*100.	SCIM 631
	TSH=TSH*100.	SCIM 632
	IF(NPOP.NE.O) GO TO 920	SCIM 633
	UPRE=UGH	SCIM 634
	VPRE=VGH	SCIM 635
	DUPRE=DUH/1000.	SCIM 636
	DVPRE=DVH/1000.	SCIM 637
	RETURN	SCIM 638
920	IF (IOPP.NE.O)	SCIM 639
	* WRITE (IOPP,951)H,PHI,THET,DGHP,TGH,UGH,VGH,WGH,SDHL,STHL,	SCIM 640
	& SUHL,SVHL	SCIM 641
951	FORMAT(F5.1,7F7.2,4F6.2)	SCIM 642
	WRITE(6,900) H,PHI,THET,PGH,DGH,TGH,UGH,CHAR(IWSYM),	SCIM 643
	1 VGH,PH,DH,TH,UH,CHAR(IWSYM),VH,DUH,	SCIM 644
	\$ DVH,SWH,IET,PGHP,DGHP,TGHP,WGH,PHP,DHP,THP,WH,PSH,DSH,TSH,	SCIM 645
	\$ SPU,SPV,PQ,DQ,TQ,UQ,	SCIM 646
	\$ VQ,PQA,DQA,TQA,UA,VA,PRHS,DRHS,TRHS,URHS,VRHS,SPHS,SDHS,STHS,	SCIM 647
	1SUHS,SVHS,PRHL,DRHL,TRHL,URHL,VRHL,SPHL,SDHL,STHL,SUHL,SVHL,	SCIM 648
	2PRH,DRH,TRH,URH,VRH,SPH,SDH,STH,SUH,SVH	SCIM 649
900	FORMAT(1X,F6.2,2F7.2,2(2E9.3,2F6.0,A1,F5.0),2F5.1,23X,F6.2/1X,	SCIM 650
	1 I5,14X,2(F8.1,'%'),F6.1,'%',E10.2,1X,	SCIM 651
	& 2(F8.1,'%'),F6.1,'%',F10.2,11X,	SCIM 652
	23F5.1,2F5.0,' SP'/102X,3F5.1,2F5.0,' QBO'/102X,3F5.1,2F5.0,' MAG'/	SCIM 653
	3 102X,3F5.1,2F5.0,' RANS'/102X,3F5.1,2F5.0,' SIGS'/	SCIM 654
	4102X,3F5.1,2F5.0,' RANL'./	SCIM 655
	5102X,3F5.1,2F5.0,' SIGL'./	SCIM 656
	6102X,3F5.1,2F5.0,' RANT'./	SCIM 657
	7102X,3F5.1,2F5.0,' SIGT'./)	SCIM 658
	RETURN	SCIM 659
	END	SCIM 660
	SUBROUTINE SELEC4	SELE 1
	INTEGER IOTEM2	SELE 2
	COMMON/C4/XL(16),YL(16),NP,DUMMY(2499)	SELE 3
C		SELE 4
C	SUBROUTINE TO SELECT POINTS FOR INTERPOLATION	SELE 5
C		SELE 6

	COMMON/IOTEMP/IOTEM1,IOTEM2,DUMMY2(61)	SELE	7
	COMMON /POINT/ IPT(16,5),LL(16),DXY(16,2)	SELE	8
	COMMON /ORDER/ IPTN(16,5),IREAD(65,3)	SELE	9
C		SELE	10
	DIMENSION IC(4),IL(2),JL(2),LIML(51),LIMU(51)	SELE	11
C		SELE	12
	DATA LIML/15,14,13,12,11,10,9,8,7,6,5,4,3,2,23*1,2,3,4,5,6,7,8,9,	SELE	13
	110,11,12,13,14,15/	SELE	14
	DATA LIMU/33,34,35,36,37,38,39,40,41,42,43,44,45,46,23*47,46,45,	SELE	15
	144,43,42,41,40,39,38,37,36,35,34,33/	SELE	16
	DATA PI/3.14159/	SELE	17
C		SELE	18
C	INITIALIZE	SELE	19
C		SELE	20
	PI4=PI/4.	SELE	21
	DEGRAD=PI/180.	SELE	22
	DO 1 I=1,16	SELE	23
	DO 1 J=1,5	SELE	24
	1 IPT(I,J)=0	SELE	25
C		SELE	26
C	MAJOR LOOP FOR POINTS	SELE	27
C		SELE	28
	DO 100 II=1,NP	SELE	29
C		SELE	30
	LA=ABS(XL(II))*10.+5	SELE	31
	LO=YL(II)*10.+5	SELE	32
	IF(LO.LT.O) LO = LO + 3600	SELE	33
	LL(II)=LA*10000+LO	SELE	34
	IF (XL(II).LT.O.) LL(II)=-LL(II)	SELE	35
C		SELE	36
	IF (XL(II)-15.1) 15,30,30	SELE	37
	15 IF (XL(II)) 50,40,40	SELE	38
C		SELE	39
C	NMC GRID	SELE	40
C		SELE	41
	30 IPT(II,5)=2	SELE	42
	YEL = YL(II)	SELE	43
	IF(YEL.LT.O.)YEL = YEL + 360.	SELE	44
	EL = (350-YEL)*DEGRAD	SELE	45
	PHI=XL(II)*DEGRAD	SELE	46
	R=31.204359052*(SIN(PI4-PHI/2.)/COS(PI4-PHI/2.))	SELE	47
	XX=R*COS(EL)+24.	SELE	48
	YY=R*SIN(EL)+26.	SELE	49
	I=XX	SELE	50
	J=YY	SELE	51
	DX=XX-I	SELE	52
	DY=YY-J	SELE	53
	DXY(II,1)=DX	SELE	54
	DXY(II,2)=DY	SELE	55
	IF (XL(II).GT.17.18) GO TO 31	SELE	56
	IF ((J.LT.1).OR.(J.GT.51)) GO TO 70	SELE	57
	IF ((I.LT.LIML(J)).OR.(I.GT.LIMU(J))) GO TO 70	SELE	58
	31 IC(1)=I*1000+J	SELE	59
	IF ((ABS(DX).GT..1).OR.(ABS(DY).GT..1)) GO TO 32	SELE	60

	IP=1	SELE 61
	GO TO 35	SELE 62
32	CONTINUE	SELE 63
	IF (XL(II).GT.17.18) GO TO 34	SELE 64
	IF (((I.GT.(LIMU(J)-1)).AND.((J.GE.15).AND.(J.LE.37)))	SELE 65
	1 .OR.(J.GT.50)) GO TO 70	SELE 66
	IF ((I+1.GT.LIMU(J+1)).OR.(I.LT.LIML(J+1))) GO TO 80	SELE 67
	IF ((I.EQ.LIMU(J)).OR.(I.EQ.LIML(J))) GO TO 80	SELE 68
34	IP=4	SELE 69
	IC(2)=(I+1)*1000+J	SELE 70
	IC(3)=I*1000+J+1	SELE 71
	IC(4)=(I+1)*1000+J+1	SELE 72
35	CONTINUE	SELE 73
	REWIND IOTEM2	SELE 74
	DO 38 IPG=1,1977	SELE 75
	READ(IOTEM2) IJ	SELE 76
	DO 38 K=1,IP	SELE 77
38	IF(IC(K).EQ.IJ) IPT(II,K)=IPG	SELE 78
	GO TO 100	SELE 79
C		SELE 80
C	EQUATORIAL GRID	SELE 81
C		SELE 82
40	IPT(II,5)=1	SELE 83
	L1=XL(II)	SELE 84
	L2=YL(II)	SELE 85
	IF(L2.LT.0)L2 = L2 + 360	SELE 86
	IL(1)=L1/5	SELE 87
	IL(2)=IL(1)+1	SELE 88
	JL(1)=(L2/5)+1	SELE 89
	JL(2)=JL(1)-1	SELE 90
	DO 45 K1=1,2	SELE 91
	DO 45 K2=1,2	SELE 92
	DLON = ABS(YL(II) - 5.*JL(K2))	SELE 93
	IF (DLON .GT. 180.) DLON = ABS(360. - DLON)	SELE 94
	IF ((ABS(XL(II))-5.*IL(K1)).GT.0.1).OR.(DLON.GT.0.1))GOTO 45	SELE 95
	IF (JL(K2).EQ.72) JL(K2)=0	SELE 96
	IPT(II,1)=JL(K2)*4+IL(K1)+1	SELE 97
	GO TO 100	SELE 98
45	CONTINUE	SELE 99
	IF (JL(1).EQ.72) JL(1)=0	SELE 100
	IPT(II,1)=JL(1)*4+IL(1)+1	SELE 101
	IPT(II,2)=JL(2)*4+IL(1)+1	SELE 102
	IPT(II,3)=JL(1)*4+IL(2)+1	SELE 103
	IPT(II,4)=JL(2)*4+IL(2)+1	SELE 104
	GO TO 100	SELE 105
C		SELE 106
C	SOUTHERN HEMISPHERE	SELE 107
C		SELE 108
50	IPT(II,5)=3	SELE 109
	L1=XL(II)	SELE 110
	L2=YL(II)	SELE 111
	IF(L2.LT.0)L2 = L2 + 360	SELE 112
	IF (ABS(XL(II)).LT.85.0) GO TO 51	SELE 113
	IPI(II,1)=1	SELE 114

	IF (ABS(XL(II)+90.) .LT. 0.11) GO TO 100	SELE 115
51	CONTINUE	SELE 116
	IL(1)=(L1/5)-1	SELE 117
	JL(1)=(L2/5)+1	SELE 118
	IL(2)=IL(1)+1	SELE 119
	JL(2)=JL(1)-1	SELE 120
	DO 52 K1=1,2	SELE 121
	DO 52 K2=1,2	SELE 122
	DLON = ABS(YL(II) - 5.*JL(K2))	SELE 123
	IF(DLON .GT. 180.) DLON = ABS(360. - DLON)	SELE 124
	IF ((ABS(XL(II)-5.*IL(K1)) .GT. 0.1) .OR. (DLON .GT. 0.1)) GOTO 52	SELE 125
	IF (JL(K2) .EQ. 72) JL(K2)=0	SELE 126
	IP1(II,1)=JL(K2)*17-IL(K1)+1	SELE 127
	IF(IL(K1) .NE. 0) GO TO 100	SELE 128
	IP1(II,1)=JL(K2)*4+1	SELE 129
	IP1(II,5)=1	SELE 130
	GO TO 100	SELE 131
52	CONTINUE	SELE 132
	IF (JL(1) .EQ. 72) JL(1)=0	SELE 133
	IF (IP1(II,1) .EQ. 1) GO TO 54	SELE 134
	IP1(II,1)=JL(1)*17-IL(1)+1	SELE 135
	IP1(II,2)=JL(2)*17-IL(1)+1	SELE 136
	IF (IL(2)) 55,53,55	SELE 137
53	IP1(II,3)=JL(1)*4+1	SELE 138
	IP1(II,4)=JL(2)*4+1	SELE 139
	IP1(II,5)=1133	SELE 140
	GO TO 100	SELE 141
54	IP1(II,2)=JL(1)*17-IL(2)+1	SELE 142
	IP1(II,3)=JL(2)*17-IL(2)+1	SELE 143
	IP1(II,5)=333	SELE 144
	GO TO 100	SELE 145
55	CONTINUE	SELE 146
	IP1(II,3)=JL(1)*17-IL(2)+1	SELE 147
	IP1(II,4)=JL(2)*17-IL(2)+1	SELE 148
	GO TO 100	SELE 149
C		SELE 150
C	BORDERLINE POINTS	SELE 151
C		SELE 152
70	CONTINUE	SELE 153
C	TWO NMC, TWO EQUATORIAL	SELE 154
	IP1(II,5)=2211	SELE 155
	L=YL(II)	SELE 156
	IP1(II,1)=((L/5)+2)*4	SELE 157
	IP1(II,2)=IP1(II,1)-4	SELE 158
	IF (L .GE. 355) IP1(II,1)=4	SELE 159
C		SELE 160
	IF (J .LT. 1) J=1	SELE 161
	IF (J .GT. 51) J=51	SELE 162
	IF (I .LT. LIML(J)) I=LIML(J)	SELE 163
	IF (I .GT. LIMU(J)) I=LIMU(J)	SELE 164
	IC(1)=I*1000+J	SELE 165
	IF ((J .LT. 15) .OR. (J .GT. 37)) GO TO 72	SELE 166
	IC(2)=I*1000+J+1	SELE 167
	GO TO 76	SELE 168

72	IF ((J.NE.1).AND.(J.NE.51)) GO TO 74	SELE 169
	IF (I.EQ.LIMU(J)) GO TO 73	SELE 170
	IC(2)=(I+1)*1000+J	SELE 171
	GO TO 76	SELE 172
73	IC(2)=(I-1)*1000+J	SELE 173
	GO TO 76	SELE 174
74	IF (I.EQ.LIML(J)) GO TO 75	SELE 175
	IC(2)=LIMU(J+1)*1000+J+1	SELE 176
	GO TO 76	SELE 177
75	IC(2)=LIML(J+1)*1000+J+1	SELE 178
C		SELE 179
76	REWIND IOTEM2	SELE 180
	DO 77 IPG=1,1977	SELE 181
	READ(IOTEM2) IJ	SELE 182
	DO 77 K=1,2	SELE 183
77	IF (IC(K).EQ.IJ) IPT(II,K+2)=IPG	SELE 184
	GO TO 100	SELE 185
C		SELE 186
80	CONTINUE	SELE 187
C	THREE NMC, ONE EQUATORIAL	SELE 188
	IPT(II,5)=2212	SELE 189
	IC(2) = 0	SELE 190
	L=YL(II)	SELE 191
	IPT(II,2)=((L/5)+1)*4	SELE 192
	IF (L.GE.355) IPT(II,2)=4	SELE 193
	IF (I.EQ.LIML(J)) GO TO 84	SELE 194
	IF (J.GT.37) GO TO 82	SELE 195
	IC(1)=I*1000+J	SELE 196
	IC(3)=I*1000+J+1	SELE 197
	IC(4)=(I+1)*1000+J+1	SELE 198
	GO TO 88	SELE 199
82	IC(1)=(I+1)*1000+J	SELE 200
	IC(3)=I*1000+J	SELE 201
	IC(4)=I*1000+J+1	SELE 202
	GO TO 88	SELE 203
84	IF (J.GT.37) GO TO 86	SELE 204
	IC(1)=(I-1)*1000+J+1	SELE 205
	IC(3)=I*1000+J+1	SELE 206
	IC(4)=I*1000+J	SELE 207
	GO TO 88	SELE 208
86	IC(1)=(I+1)*1000+J+1	SELE 209
	IC(3)=(I+1)*1000+J	SELE 210
	IC(4)=I*1000+J	SELE 211
C		SELE 212
88	REWIND IOTEM2	SELE 213
	DO 89 IPG=1,1977	SELE 214
	READ(IOTEM2) IJ	SELE 215
	DO 89 K=1,4	SELE 216
	IF (IC(K).EQ.0) GO TO 89	SELE 217
	IF (IC(K).EQ.IJ) IPT(II,K)=IPG	SELE 218
89	CONTINUE	SELE 219
C		SELE 220
100	CONTINUE	SELE 221
	DO 150 I=1,16	SELE 222

DO 150 J=1,5	SELE 223
150 IPTN(I,J)=IPT(1,J)	SELE 224
CALL SORT4(NP)	SELE 225
RETURN	SELE 226
END	SELE 227
SUBROUTINE SETUP	SETU 1
CHARACTER*2 IC	SETU 2
COMMON /COTRAN/NDATA(19),MI,IH,IEX,IX(10)	SETU 3
COMMON /COTRAN1/IC	SETU 4
COMMON /IPRTP/IPRT,NLIMIT	SETU 5
DIMENSION IP(5),ID(5),IT(5),IDAY(12),XWR(29)	SETU 6
COMMON /IOTEMP/IOTEM1,IOTEM2,IUS,DD,XMJD,PHI1,PHI,	SETU 7
.NSAME,RP1L,RD1L,RT1L,SP1L,SD1L,ST1L,RU1L,RV1L,SU1L,SV1L,	SETU 8
\$ MN, IDD, IYR, H1, PHI1R,THETA1R,DUMS(21),RP1S,RD1S	SETU 9
1,RT1S,RU1S,RV1S,SP1S,SD1S,ST1S,SU1S,SV1S,UDS1,VDS1,	SETU 10
2UDL1,VDL1,UDS2,VDS2,UDL2,VDL2	SETU 11
COMMON /PDTCOM/IU4,MONTH,IOPR,	SETU 12
.PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18),	SETU 13
.VSP(15,19,18),	SETU 14
.PG(21,19),DG(21,19),TG(21,19),UG(21,19),	SETU 15
.PAQ(17,5),DAQ(17,5),TAQ(17,5),UAQ(17,5),VAQ(17,5),	SETU 16
.PDQ(17,5),DDQ(17,5),TDQ(17,5),UDQ(17,5),VDQ(17,5),	SETU 17
.PR(29,19),DR(29,19),TR(29,19),UR(29,19),VR(29,19),	SETU 18
*PQ,DQ,TQ,UQ,VQ,PQA,DQA,	SETU 19
.TQA,UA,VA,IOPQ,PLP(25,10),DLP(25,10),TLP(25,10)	SETU 20
1,ULP(25,10),VLP(25,10),UDL(25,10),VDL(25,10),UDS(25,10)	SETU 21
2,VDS(25,10)	SETU 22
COMMON /CHIC/DUM(18),IWSYM,USH,VSH,DUSH,DVSH	SETU 23
COMMON /RAND/IXX,IY,IZ	SETU 24
COMMON /VERT/RW1,SW1,WRH,SWH,WR(29)	SETU 25
DIMENSION IDUM(9)	SETU 26
DATA IDAY/0,31,59,90,120,151,181,212,243,273,304,334/	SETU 27
DATA XWR/.87,.15,.14,.08,.04,.04,.05,.07,.11,.14,.22,	SETU 28
& .34,.46,.73,1.30,2.11,3.40,6.30,9.58,10.55,11.51,11.32,11.13,	SETU 29
& 10.94,10.75,10.85,11.76,11.86,12.06/	SETU 30
DO 1 I = 1,29	SETU 31
1 WR(I) = XWR(I)	SETU 32
XMJD = 0.	SETU 33
IF (MN.GT.12) GO TO 2	SETU 34
IDA = IDAY(MN) + IDD	SETU 35
DD = IDA	SETU 36
IF (MOD(IYR,4).EQ.0.AND.MN.GT.2) IDA = IDA + 1	SETU 37
XMJD = 2439856. + 365. * (IYR - 68.) + IDA + INT((IYR - 65.)	SETU 38
\$ / 4.)	SETU 39
C.....SECOND DATA LINE READS, FREE FIELD, THE FOLLOWING DATA:	SETU 40
C..... IUS = UNIT NUMBER FOR SCIDAT DATA	SETU 41
C..... IU4 = UNIT FOR 4-D INPUT P,D,T 0-25KM DATA	SETU 42
C..... IOPR = RANDOM OUTPUT OPTION	SETU 43
C.....IOPR=1 RANDOM OUTPUT IOPR=2 NO RANDOM OUTPUT	SETU 44
C..... IOPQ = QBO OUTPUT OPTION IOPQ=2 NO QBO OUTPUT	SETU 45
C.....IOPQ=1 QBO OUTPUT IOPQ=2 NO QBO OUTPUT	SETU 46
C..... NR1 = STARTING RANDOM NUMBER	SETU 47
C.....IOTEM1=UNIT FOR 4-D P, D, T DATA (SCRATCH FILE, DOES NOT NEED TO	SETU 48
C..... BE ASSIGNED)	SETU 49

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C.....IOTEM2=UNIT FOR NMC GRID POINTS (SCRATCH FILE, DOES NOT NEED TO   SETU 50
C      BE ASSIGNED)                                                       SETU 51
C      IPRT = 0 FOR 4-D DIAGNOSTIC OUTPUT, = 1 FOR NONE                     SETU 52
C      NLIMIT = MAXIMUM NUMBER OF TEST VIOLATIONS ALLOWED IN 4D           SETU 53
C      DATA (12 LE NLIMIT LE 25)                                         SETU 54
2  READ(5,*) IUS,IU4,IOPR,IOPQ,NR1,IOTEM1,IOTEM2,IPRT,NLIMIT             SETU 55
   IF(NLIMIT.LT.12) NLIMIT=12                                             SETU 56
   IF(NLIMIT.GT.25) NLIMIT=25                                             SETU 57
   WRITE(6,9000) IUS,IU4,IOPR,IOPQ,NR1,IOTEM1,IOTEM2                     SETU 58
   $ ,XMJD                                                                  SETU 59
   IF (IOPR.LT.1.OR.IOPR.GT.2) GO TO 666                                  SETU 60
   IF (IOPQ.LT.1.OR.IOPQ.GT.2) GO TO 666                                  SETU 61
   MONTH=MN                                                                  SETU 62
   RPSCALE = 1.0                                                            SETU 63
   IF (IOPR.EQ.2) GO TO 7                                                  SETU 64
   IF(NR1 .LE. 0 .OR. NR1 .GE. 30000)STOP 'FIRST RANDOM NUMBER OUT OF   SETU 65
   $ RANGE'                                                                  SETU 66
   IXX = NR1                                                                  SETU 67
   IY = 172 * MOD(IXX, 176) - 35 * (IXX / 176)                             SETU 68
   IZ = 170 * MOD(IXX, 178) - 63 * (IXX / 178)                             SETU 69
   IF (IY .LT. 0) IY = IY + 30307                                           SETU 70
   IF (IZ .LT. 0) IZ = IZ + 30323                                           SETU 71
   R = RANDOM(L)                                                            SETU 72
   IF(L .EQ. 1)STOP 'BAD CALL TO RANDOM ON FIRST TRY'                       SETU 73
C.....THIRD DATA LINE READS FREE FIELD, THE FOLLOWING DATA             SETU 74
C      EACH FOR LARGE SCALE (L) AND SMALL SCALE (S) COMPONENTS           SETU 75
C      RP1L,RP1S = INITIAL RANDOM PRESSURE PERTURBATION, PERCENT          SETU 76
C      RD1L,RD1S = INITIAL RANDOM DENSITY PERTURBATION, PERCENT           SETU 77
C      RT1L,RT1S = INITIAL RANDOM TEMPERATURE PERTURBATION, PERCENT       SETU 78
C      RU1L,RU1S = INITIAL EASTWARD WIND PERTURBATION, W/S                SETU 79
C      RV1L,RV1S = INITIAL NORTHWARD WIND PERTURBATION, W/S              SETU 80
C      RPSCALE = RANDOM PERTURBATION SCALE, NOMINAL=1.0                   SETU 81
C      MAXIMUM=2.0 , MINIMUM=0.0                                           SETU 82
C      READ(5,*)RP1L,RP1S,RD1L,RD1S,RT1L,RT1S,RU1L,RU1S,                 SETU 83
   &      RV1L,RV1S,RPSCALE                                                 SETU 84
   IF((RPSCALE.LT.0.0).OR.(RPSCALE.GT.2.0)) RPSCALE=1.0                  SETU 85
   RW1=0.                                                                    SETU 86
   RP1=RP1L+RP1S                                                            SETU 87
   RD1=RD1S+RD1L                                                            SETU 88
   RT1=RT1S+RT1L                                                            SETU 89
   RU1=RU1L+RU1S                                                            SETU 90
   RV1=RV1L+RV1S                                                            SETU 91
C      AVOIDS FILE SEARCH IF CURRENT MONTH IS SAME AS PREVIOUS MONTH     SETU 92
   IF(NSAME.GT.0) GO TO 621                                                 SETU 93
7  IF (NSAME.EQ.1) GO TO 621                                               SETU 94
   CALL GETNMC                                                                SETU 95
C.....LOADS NMC GRID DATA FROM INPUT UNIT TO SCRATCHFILE UNIT IOTEM2   SETU 96
   IF(MONTH.LT. 1 .OR. MONTH .GT. 12)GOTO 666                             SETU 97
13 DO 100 I=1,252                                                           SETU 98
   CALL RTRAN1                                                                SETU 99
C..... READS ZONAL PRESSURE DATA                                         SETU 100
   IF(IC .NE. 'ZP')GOTO 666                                               SETU 101
   IF(MI .NE. MONTH)GO TO 100                                             SETU 102
50  IH=(IH-15)/5                                                            SETU 103

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TENX=10.**IEX	SETU 104
DO 60 J=1,19	SETU 105
60 PG(IH,J)=NDATA(J)*TENX	SETU 106
C....CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 107
100 CONTINUE	SETU 108
DO 200 I=1,252	SETU 109
CALL RTRAN1	SETU 110
C.... READS ZONAL DENSITY DATA	SETU 111
IF(IC .NE. 'ZD')GO TO 666	SETU 112
IF(MI .NE. MONTH)GO TO 200	SETU 113
150 IH=(IH-15)/5	SETU 114
TENX=10.**IEX	SETU 115
DO 160 J=1,19	SETU 116
160 DG(IH,J)=NDATA(J)*TENX	SETU 117
C....CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 118
200 CONTINUE	SETU 119
DO 300 I=1,252	SETU 120
CALL RTRAN1	SETU 121
C.... READS ZONAL MEAN TEMPERATURE DATA	SETU 122
IF(IC .NE. 'ZT')GO TO 666	SETU 123
IF(MI .NE. MONTH)GOTO 300	SETU 124
250 IH=(IH-15)/5	SETU 125
TENX=10.**IEX	SETU 126
DO 260 J=1,19	SETU 127
260 TG(IH,J) = NDATA(J)*TENX	SETU 128
C....CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 129
300 CONTINUE	SETU 130
DO 305 I=1,252	SETU 131
CALL RTRAN1	SETU 132
C.... READS ZONAL AVG. ZONAL WIND DATA	SETU 133
IF(IC .NE. 'ZU')GO TO 666	SETU 134
IF(MI .NE. MONTH)GOTO 305	SETU 135
IH=(IH-15)/5	SETU 136
TENX=10.**IEX	SETU 137
DO 304 J=1,19	SETU 138
304 UG(IH,J)=NDATA(J)*TENX	SETU 139
C.... CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 140
305 CONTINUE	SETU 141
308 DO 360 I=1,3060	SETU 142
CALL RTRAN	SETU 143
C.... READS STATIONARY PERTURBATION DATA FOR PRESSURE (TO BE STORED IN	SETU 144
C PSP ARRAY)	SETU 145
IF(IC .NE. 'SP')GO TO 666	SETU 146
IF(MI .EQ. MONTH) GO TO 320	SETU 147
GO TO 360	SETU 148
320 ISH=(IH-15)/5	SETU 149
K=(NDATA(1)+100)/10	SETU 150
DO 350 L=1,18	SETU 151
350 PSP(ISH,K,L)=NDATA(L+1)/1000.	SETU 152
C.... CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 153
360 CONTINUE	SETU 154
DO 365 I=1,3060	SETU 155
CALL RTRAN	SETU 156
C.... READS STATIONARY PERTURBATION DATA FOR DENSITY (TO BE STORED IN	SETU 157

C	DSP ARRAY)	SETU 158
	IF (IC .NE. 'SD')GO TO 666	SETU 159
	IF (MI .EQ. MONTH)GOTO 362	SETU 160
	GO TO 365	SETU 161
362	ISH = (IH-15)/5	SETU 162
	K = (NDATA(1)+100)/10	SETU 163
	DO 364 L=1,18	SETU 164
364	DSP(ISH,K,L)=NDATA(L+1)/1000.	SETU 165
C....	CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 166
365	CONTINUE	SETU 167
	DO 370 I=1,3060	SETU 168
	CALL RTRAN	SETU 169
C....	READS STATIONARY PERTURBATION DATA FOR TEMPERATURE(TO BE STORED IN	SETU 170
C	TSP ARRAY)	SETU 171
	IF (IC .NE. 'ST')GO TO 666	SETU 172
	IF (MI .EQ. MONTH)GOTO 367	SETU 173
	GO TO 370	SETU 174
367	ISH = (IH-15)/5	SETU 175
	K = (NDATA(1)+100)/10	SETU 176
	DO 369 L=1,18	SETU 177
369	TSP(ISH,K,L)=NDATA(L+1)/1000.	SETU 178
C....	CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 179
370	CONTINUE	SETU 180
	DO 375 I=1,3060	SETU 181
	CALL RTRAN	SETU 182
C....	READS STATIONARY PERTURBATION DATA FOR ZONAL WIND(TO BE STORED IN	SETU 183
C	USP ARRAY)	SETU 184
	IF (IC .NE. 'SU')GO TO 666	SETU 185
	IF (MI .EQ. MONTH)GOTO 372	SETU 186
	GO TO 375	SETU 187
372	ISH = (IH-15)/5	SETU 188
	K = (NDATA(1)+100)/10	SETU 189
	DO 374 L=1,18	SETU 190
374	USP(ISH,K,L)=NDATA(L+1)/10.	SETU 191
C....	CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 192
375	CONTINUE	SETU 193
	DO 380 I=1,3060	SETU 194
	CALL RTRAN	SETU 195
C....	READS STATIONARY PERTURBATION DATA FOR MERIDIONAL WIND(TO BE	SETU 196
C	STORED IN VSP ARRAY)	SETU 197
	IF (IC .NE. 'SV')GO TO 666	SETU 198
	IF (MI .EQ. MONTH)GOTO 377	SETU 199
	GO TO 380	SETU 200
377	ISH = (IH-15)/5	SETU 201
	K = (NDATA(1)+100)/10	SETU 202
	DO 379 L=1,18	SETU 203
379	VSP(ISH,K,L)=NDATA(L+1)/10.	SETU 204
C....	CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 205
380	CONTINUE	SETU 206
C....	ZERO STATIONARY PERTURBATIONS AT LATITUDE +90 AND -90	SETU 207
	DO 382 I=1,15	SETU 208
	DO 382 L=1,18	SETU 209
	DO 382 K=1,19,18	SETU 210
	PSP(I,K,L)=0.	SETU 211

	DSP(I,K,L)=0.	SETU 212
	TSP(I,K,L)=0.	SETU 213
	USP(I,K,L)=0.	SETU 214
	VSP(I,K,L)=0.	SETU 215
382	CONTINUE	SETU 216
	DO 430 I=1,300	SETU 217
C....	READS RANDOM PERTURBATIONS IN PRESSURE	SETU 218
	CALL RTRAN1	SETU 219
	IF(IC .NE. 'RP')GO TO 666	SETU 220
	IF(MI .EQ. MONTH)GO TO 410	SETU 221
	GO TO 430	SETU 222
410	IHR = (IH+5)/5	SETU 223
	IF(IH .GT. 120)IHR=19+IH/20	SETU 224
	DO 420 K=1,19	SETU 225
420	PR(IHR,K)=(NDATA(K)*RPSCALE/1000.0)**2	SETU 226
430	CONTINUE	SETU 227
	DO 445 I=1,300	SETU 228
C....	READS RANDOM PERTURBATIONS IN DENSITY	SETU 229
	CALL RTRAN1	SETU 230
	IF(IC .NE. 'RD')GO TO 666	SETU 231
	IF(MI .EQ. MONTH)GO TO 435	SETU 232
	GO TO 445	SETU 233
435	IHR = (IH+5)/5	SETU 234
	IF(IH .GT. 120)IHR=19+IH/20	SETU 235
	DO 440 K=1,19	SETU 236
440	DR(IHR,K)=(NDATA(K)*RPSCALE/1000.0)**2	SETU 237
445	CONTINUE	SETU 238
	DO 460 I=1,300	SETU 239
C....	READS RANDOM PERTURBATIONS IN TEMPERATURE	SETU 240
	CALL RTRAN1	SETU 241
	IF(IC .NE. 'RT')GO TO 666	SETU 242
	IF(MI .EQ. MONTH)GO TO 450	SETU 243
	GO TO 460	SETU 244
450	IHR = (IH+5)/5	SETU 245
	IF(IH .GT. 120)IHR=19+IH/20	SETU 246
	DO 455 K=1,19	SETU 247
455	TR(IHR,K)=(NDATA(K)*RPSCALE/1000.0)**2	SETU 248
460	CONTINUE	SETU 249
	DO 475 I=1,348	SETU 250
C....	READS RANDOM PERTURBATIONS IN ZONAL WIND	SETU 251
	CALL RTRAN1	SETU 252
	IF(IC .NE. 'RU')GO TO 666	SETU 253
	IF(MI .EQ. MONTH)GO TO 465	SETU 254
	GO TO 475	SETU 255
465	IHR = (IH+5)/5	SETU 256
	IF(IH .GT. 120)IHR=19+IH/20	SETU 257
	DO 470 K=1,19	SETU 258
470	UR(IHR,K)=(NDATA(K)*RPSCALE/10.0)**2	SETU 259
475	CONTINUE	SETU 260
	DO 490 I=1,348	SETU 261
C....	READS RANDOM PERTURBATIONS IN MERIDIONAL WIND	SETU 262
	CALL RTRAN1	SETU 263
	IF(IC .NE. 'RV')GO TO 666	SETU 264
	IF(MI .EQ. MONTH)GO TO 480	SETU 265

	GO TO 490	SETU 266
480	IHR = (IH+5)/5	SETU 267
	IF(IH .GT. 120)IHR=19+IH/20	SETU 268
	DO 485 K=1,19	SETU 269
485	VR(IHR,K)=(NDATA(K)*RPSCALE/10.0)**2	SETU 270
490	CONTINUE	SETU 271
C....	RANDOM SIGMAS ARE ZEROED IF IOPR=2	SETU 272
	IF(IOPR .EQ. 1)GO TO 500	SETU 273
	DO 495 I=1,29	SETU 274
	DO 495 J=1,19	SETU 275
	PR(I,J) = 0.	SETU 276
	DR(I,J) = 0.	SETU 277
	TR(I,J)=0.	SETU 278
	UR(I,J)=0.	SETU 279
495	VR(I,J)=0.	SETU 280
500	DO 840 I=1,25	SETU 281
	CALL RTRAN2	SETU 282
	DO 810 K=1,5	SETU 283
	IP(K)=NDATA(2+K)	SETU 284
	ID(K)=NDATA(7+K)	SETU 285
810	IT(K)=NDATA(12+K)	SETU 286
820	IF(IH.GT.90) IH=70+(IH/4)	SETU 287
	IH=1+(IH/5)	SETU 288
	IF(IC .NE. 'P ' .OR. IH .NE. I)GOTO 666	SETU 289
	DO 830 J=1,5	SETU 290
	PLP(I,J+5)=IP(J)/1000.	SETU 291
	PLP(I,6-J)=IP(J)/1000.	SETU 292
	DLP(I,J+5)=ID(J)/1000.	SETU 293
	DLP(I,6-J)=ID(J)/1000.	SETU 294
	TLP(I,J+5)=IT(J)/1000.	SETU 295
830	TLP(I,6-J)=IT(J)/1000.	SETU 296
840	CONTINUE	SETU 297
	DO 865 I=1,25	SETU 298
	CALL RTRAN2	SETU 299
	DO 850 K=1,5	SETU 300
	IP(K)=NDATA(2+K)	SETU 301
850	ID(K)=NDATA(7+K)	SETU 302
855	IF(IH.GT.90) IH=70+(IH/4)	SETU 303
	IH=1+(IH/5)	SETU 304
	IF(I.NE.IH.OR.IC.NE.'PW') GO TO 666	SETU 305
	DO 860 J=1,5	SETU 306
	ULP(I,J+5)=IP(J)/1000.	SETU 307
	ULP(I,6-J)=IP(J)/1000.	SETU 308
	VLP(I,J+5)=ID(J)/1000.	SETU 309
860	VLP(I,6-J)=ID(J)/1000.	SETU 310
865	CONTINUE	SETU 311
	DO 888 I=1,25	SETU 312
	CALL RTRAN2	SETU 313
	DO 875 K=1,5	SETU 314
	IP(K)=NDATA(2+K)	SETU 315
875	ID(K)=NDATA(7+K)	SETU 316
880	IF(IH.GT.90) IH=70+(IH/4)	SETU 317
	IH=1+(IH/5)	SETU 318
	IF(IH.NE.I.OR.IC.NE.'CS') GO TO 666	SETU 319

DO 885 J=1,5	SETU 320
UDS(I,J+5)=(IP(J)/1000.)	SETU 321
UDS(I,6-J)=(IP(J)/1000.)	SETU 322
VDS(I,J+5)=(ID(J)/1000.)	SETU 323
885 VDS(I,6-J)=(ID(J)/1000.)	SETU 324
888 CONTINUE	SETU 325
DO 898 I=1,25	SETU 326
CALL RTRAN2	SETU 327
DO 892 K=1,5	SETU 328
IP(K)=NDATA(2+K)	SETU 329
892 ID(K)=NDATA(7+K)	SETU 330
894 IF(IH.GT.90) IH= 70+(IH/4)	SETU 331
IH=1+(IH/5)	SETU 332
IF(IH.NE.I.OR.IC.NE.'CL') GO TO 666	SETU 333
DO 896 J=1,5	SETU 334
UDL(I,J+5)=(IP(J)/1000.)	SETU 335
UDL(I,6-J)=(IP(J)/1000.)	SETU 336
VDL(I,J+5)=(ID(J)/1000.)	SETU 337
896 VDL(I,6-J)=(ID(J)/1000.)	SETU 338
898 CONTINUE	SETU 339
IF(IOPR.EQ.1)GO TO 910	SETU 340
DO 905 I=1,25	SETU 341
DO 905 J=1,10	SETU 342
PLP(I,J)=0.	SETU 343
DLP(I,J)=0.	SETU 344
TLP(I,J)=0.	SETU 345
ULP(I,J)=0.	SETU 346
VLP(I,J)=0.	SETU 347
UDS(I,J)=0.	SETU 348
UDL(I,J)=0.	SETU 349
VDS(I,J)=0.	SETU 350
VDL(I,J)=0.	SETU 351
905 CONTINUE	SETU 352
910 DO 530 I=1,16	SETU 353
CALL RTRAN2	SETU 354
IH=MI	SETU 355
527 IF (IC.NE.'QP') GO TO 666	SETU 356
IH = (IH-5)/5	SETU 357
DO 530 J=1,5	SETU 358
C.....CONVERT FROM INTEGER PER MIL - QBO PRESSURE AMPLITUDE	SETU 359
PAQ(IH,J) = IX(2*J-1)/1000.	SETU 360
C.....QBO PRESSURE PHASE (DAYS PAST JAN O. 1966)	SETU 361
530 PDQ(IH,J) = IX(2*J)*1.	SETU 362
DO 531 I = 1,5	SETU 363
PAQ(1,I) = 0.	SETU 364
531 CALL PHASE(PDQ(2,I),15.,PDQ(3,I),20.,PDQ(1,I),10.)	SETU 365
DO 540 I=1,16	SETU 366
CALL RTRAN2	SETU 367
IH=MI	SETU 368
537 IF (IC.NE.'QD') GO TO 666	SETU 369
IH=(IH-5)/5	SETU 370
DO 540 J=1,5	SETU 371
C...CONVERT FROM INTEGER PER MIL - QBO DENSITY AMPLITUDE	SETU 372
DAQ(IH,J) = IX(2*J-1)/1000.	SETU 373

C.....QBO DENSITY PHASE (DAYS PAST JAN O, 1966)	SETU 374
540 DDQ(IH,J)=IX(2*J)*1.	SETU 375
DO 541 I = 1,5	SETU 376
DAQ(1,I) = 0.	SETU 377
541 CALL PHASE(DDQ(2,I), 15.,DDQ(3,I),20.,DDQ(1,I), 10.)	SETU 378
DO 550 I=1,16	SETU 379
CALL RTRAN2	SETU 380
IH=MI	SETU 381
547 IF (IC.NE.'QT') GO TO 666	SETU 382
IH = (IH- 5)/5	SETU 383
DO 550 J=1,5	SETU 384
C.....CONVERTS FROM INTEGER PER MIL - QBO TEMPERATURE AMPLITUDE	SETU 385
TAQ(IH,J) = IX(2*J-1)/1000.	SETU 386
C.....QBO TEMPERATURE PHASE	SETU 387
550 TDQ(IH,J) = IX(2*J)*1.	SETU 388
DO 551 I = 1,5	SETU 389
TAQ(1,I) = 0.	SETU 390
551 CALL PHASE(TDQ(2,I), 15.,TDQ(3,I),20.,TDQ(1,I), 10.)	SETU 391
DO 560 I=1,16	SETU 392
CALL RTRAN2	SETU 393
IH=MI	SETU 394
557 IF (IC.NE.'QU') GO TO 666	SETU 395
IH=(IH- 5)/5	SETU 396
DO 560 J=1,5	SETU 397
C.....EASTWARD WIND QBO AMPLITUDE - CONVERTED TO M/S	SETU 398
UAQ(IH,J) = IX(2 * J - 1) / 10.	SETU 399
C.....EASTWARD WIND QBO PHASE (DAYS PAST JAN O, 1966)	SETU 400
560 UDQ(IH,J)=IX(2*J)*1.	SETU 401
DO 561 I = 1,5	SETU 402
UAQ(1,I) = 0.	SETU 403
561 CALL PHASE(UDQ(2,I), 15.,UDQ(3,I),20.,UDQ(1,I), 10.)	SETU 404
DO 570 I=1,16	SETU 405
CALL RTRAN2	SETU 406
IH=MI	SETU 407
567 IF (IC.NE.'QV') GO TO 666	SETU 408
IH=(IH- 5)/5	SETU 409
DO 570 J=1,5	SETU 410
C.....NORTHWARD WIND QBO AMPLITUDE - CONVERTED TO M/S	SETU 411
VAQ(IH,J) = IX(2 * J - 1) / 10.	SETU 412
C.....NORTHWARD WIND QBO PHASE (DAYS PAST JAN O,1966)	SETU 413
570 VDQ(IH,J)=IX(2*J)*1.	SETU 414
DO 571 I = 1,5	SETU 415
VAQ(1,I) = 0.	SETU 416
571 CALL PHASE(VDQ(2,I), 15.,VDQ(3,I),20.,VDQ(1,I), 10.)	SETU 417
IF(IOPQ .EQ. 1)GOTO 611	SETU 418
C.....ZEROS QBO PARAMETERS IF IOPQ=2	SETU 419
600 DO 610 I=1,17	SETU 420
DO 610 J=1,5	SETU 421
PAQ(I,J) = 0.	SETU 422
DAQ(I,J) = 0.	SETU 423
TAQ(I,J) = 0.	SETU 424
PDQ(I,J) = 0.	SETU 425
DDQ(I,J) = 0.	SETU 426
TDQ(I,J) = 0.	SETU 427

UAQ(I,J)=0.	SETU 428
UDQ(I,J)=0.	SETU 429
VAQ(I,J)=0.	SETU 430
VDQ(I,J)=0.	SETU 431
610 CONTINUE	SETU 432
C.... REWINDS FILE UNIT IUS	SETU 433
611 REWIND IUS	SETU 434
C	SETU 435
621 R=H1	SETU 436
IF(H1.LT.25.) R=25.	SETU 437
CALL RTERP(R,PHI1,PR,DR,TR,SP1,SD1,ST1)	SETU 438
CALL INTR25(PLP,DLP,H1,PHI1,PLP1,DLP1)	SETU 439
CALL INTR25(TLP,DLP,H1,PHI1,TLP1,R)	SETU 440
CALL INTRW(WR,H1,SW1)	SETU 441
SP1L=SQRT(PLP1*ABS(SP1))*100.	SETU 442
SP1S=SQRT((1.-PLP1)*ABS(SP1))*100.	SETU 443
SD1L=SQRT(DLP1*ABS(SD1))*100.	SETU 444
SD1S=SQRT((1.-DLP1)*ABS(SD1))*100.	SETU 445
ST1L=SQRT(TLP1*ABS(ST1))*100.	SETU 446
ST1S=SQRT((1.-TLP1)*ABS(ST1))*100.	SETU 447
CALL INTRUV(UR,VR,H1,PHI1,SU1,SV1)	SETU 448
CALL INTR25(ULP,VLP,H1,PHI1,ULP1,VLP1)	SETU 449
SU1L=SQRT(ULP1*ABS(SU1))	SETU 450
SU1S=SQRT((1.-ULP1)*ABS(SU1))	SETU 451
SV1L=SQRT(VLP1*ABS(SV1))	SETU 452
SV1S=SQRT((1.-VLP1)*ABS(SV1))	SETU 453
CALL INTR25(UDL,VDL,H1,PHI1,UDL1,VDL1)	SETU 454
CALL INTR25(UDS,VDS,H1,PHI1,UDS1,VDS1)	SETU 455
UDL1=UDL1*100.	SETU 456
VDL1=VDL1*100.	SETU 457
UDS1=UDS1*100.	SETU 458
VDS1=VDS1*100.	SETU 459
WRITE(6,9001) RP1L,RD1L,RT1L,SP1L,SD1L,ST1L,RU1L,RV1L,SU1L,SV1L,	SETU 460
1 'LARGE'	SETU 461
WRITE(6,9001)RP1S,RD1S,RT1S,SP1S,SD1S,ST1S,RU1S,RV1S	SETU 462
1,SU1S,SV1S,'SMALL'	SETU 463
WRITE(6,9002)UDL1,VDL1,UDS1,VDS1	SETU 464
WRITE(6,9870)RPSCALE,IPRT,NLIMIT	SETU 465
WRITE(6,9003)	SETU 466
RP1L=RP1L/100.	SETU 467
RD1L=RD1L/100.	SETU 468
RT1L=RT1L/100.	SETU 469
SP1L=(SP1L/100.)	SETU 470
SD1L=(SD1L/100.)	SETU 471
ST1L=(ST1L/100.)	SETU 472
RP1S=RP1S/100.	SETU 473
RD1S=RD1S/100.	SETU 474
RT1S=RT1S/100.	SETU 475
SP1S=SP1S/100.	SETU 476
SD1S=SD1S/100.	SETU 477
ST1S=ST1S/100.	SETU 478
UDL1=UDL1/100.	SETU 479
VDL1=VDL1/100.	SETU 480
UDS1=UDS1/100.	SETU 481

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VDS1=VDS1/100. SETU 482
WRITE(6,630) SETU 483
RETURN SETU 484
666 WRITE(6,700)IUS,IOPR,IOPQ,NR1,IOTEM1,IOTEM2. SETU 485
$MONTH,IC,MI,IH,IX,IEX,IP,ID,IT,SD1,NDATA SETU 486
700 FORMAT(' ERROR IN SETUP INPUT',/,3I5,I10,3I3,1X,A2,I3,I4,/,11I4, SETU 487
$,15I4,/,F10.1,/,19I6) SETU 488
STOP SETU 489
630 FORMAT(27X,'UNPERTURBED (MONTHLY MEAN)',11X,'MEAN PLUS PERTURBATIOSETU 490
1NS',9X,'THERMAL',/,23X,2(34('-''),2X),3X,'WIND',6X,'PERTURBATION VASETU 491
2LUES',/, ' HEIGHT LAT WEST PRES. DENS. TEMP MEAN SETU 492
3 PRES. DENS. TEMP TOTAL SHEAR',/,2X,'(KM)',11X,'LOSETU 493
4N',4X,'(NT/ (KG/ (DEG WIND (M/S) (NT/ (KG/ (DEG SETU 494
5WIND (M/S) (M/S/KM) ',.28('-''),/, ' TIME (DEG) (DEG)',.2(' M**SETU 495
62) M**3) KEL- ',.10('-''),.2X,8('-''), ' P D T U V SETU 496
7 SIGW'/' (SEC)',.35X,'VIN) E-W N-S',20X,'VIN) E-W N-S E-W SETU 497
8 N-S (%) (%) (%) M/S M/S M/S'/45X,2(5X,'VERT.',26X)) SETU 498
9000 FORMAT(' SCIDAT INPUT UNIT = ',I2,T43,'4-D INPUT UNIT = ',I2./ SETU 499
& ' RANDOM OPTION = ',I2,T43,'QBO OPTION = ',I2,/, SETU 500
& ' FIRST RANDOM NUMBER = ',I5,/, SETU 501
& ' 4-D P,D,T DATA SCRATCH UNIT = ',I2,T43, SETU 502
& 'NMC GRID POINTS SCRATCH UNIT = ',I2,T83,'JULIAN DATE = ', SETU 503
5F9.1,/) SETU 504
9001 FORMAT(' INITIAL P,D,T = ',3(F6.2,' % '),T60,'SIGMA P,D,T = ', SETU 505
13(F6.2,' % '),/, ' INITIAL U,V = ',2(F7.2,' M/S '),T60,'SIGMA SETU 506
2U,V = ',2(F7.2,' M/S '), 7X,A5,1X,'SCALE'/) SETU 507
9003 FORMAT('// ** PERCENT DEVIATIONS FROM 1976 US STANDARD ' SETU 508
1 ' ATMOSPHERE APPEAR BELOW PRESSURE, DENSITY AND TEMPERATURE ', SETU 509
2 'VALUES **'//) SETU 510
9002 FORMAT(' INITIAL UDL,VDL = ',2(F6.2,' % '), SETU 511
1T60,'INITIAL UDS,VDS = ',2(F6.2,' % ')) SETU 512
9870 FORMAT('// RANDOM PERTURBATION SCALING FACTOR = ',F7.3,T60, SETU 513
& '4-D DIAGNOSTICS PRINT OPTION = ',I2,/, SETU 514
& ' MAX. NUMBER OF 4-D TEST VIOLATIONS = ',I4) SETU 515
END SETU 516
SUBROUTINE SLV ( DEN , ALT , XLAT , DAY ) SLV 1
SLV 2
C*****SLV 3
C** 'SLV' COMPUTES THE SEASONAL-LATITUDINAL VARIATION OF DENSITY IN THE*SLV 4
C** LOWER THERMOSPHERE IN ACCORDANCE WITH L. JACCHIA, SAO 332, 1971. **SLV 5
C** THIS AFFECTS THE DENSITIES BETWEEN 90 AND 170 KM. 'SLV' NEED NOT **SLV 6
C** CALLED FOR DENSITIES ABOVE 170 KM, BECAUSE NO EFFECT IS OBSERVED. **SLV 7
C** **SLV 8
C** THE VARIATION SHOULD BE COMPUTED AFTER THE CALCULATION OF DENSITY **SLV 9
C** DUE TO TEMPERATURE VARIATIONS AND THE DENSITY(DEN) MUST BE IN THE **SLV 10
C** FORM OF A BASE 10 LOG. NO ADJUSTMENTS ARE MADE TO THE TEMPERATURE**SLV 11
C** OR CONSTITUENT NUMBER DENSITIES IN THE REGION AFFECTED BY THIS **SLV 12
C** VARIATION. **SLV 13
C** **SLV 14
C** DEN = DENSITY (LOG10) **SLV 15
C** ALT = ALTITUDE (KM) **SLV 16
C** XLAT = LATITUDE (RAD) **SLV 17
C** DAY = DAY NUMBER **SLV 18
C** **SLV 19

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C*****SLV 20
C** INITIALIZE DENSITY (DEN) = 0.0 SLV 21
C SLV 22
C DEN = 0.0 SLV 23
C SLV 24
C** CHECK IF ALTITUDE EXCEEDS 170 KM SLV 25
C SLV 26
C IF ( ALT. GT. 170. ) RETURN SLV 27
C SLV 28
C** COMPUTE DENSITY CHANGE IN LOWER THERMOSPHERE SLV 29
C SLV 30
C Z = ALT - 90. SLV 31
C X = -0.0013 * Z * Z SLV 32
C Y = 0.0172 * DAY + 1.72 SLV 33
C P = SIN ( Y ) SLV 34
C SP = ( SIN ( XLAT ) ) **2 SLV 35
C S = 0.014 * Z * EXP ( X ) SLV 36
C D = S * P * SP SLV 37
C SLV 38
C** CHECK TO COMPUTE ABSOLUTE VALUE OF 'XLAT' SLV 39
C SLV 40
C IF ( XLAT. LT. 0. ) D = -D SLV 41
C DEN = D SLV 42
C SLV 43
C RETURN SLV 44
C END SLV 45
SUBROUTINE SLVH ( DEN , DENHE , XLAT , SDA ) SLV 46
SLVH 1
SLVH 2
C*****SLVH 3
C** 'SLVH' COMPUTES THE SEASONAL-LATITUDINAL VARAITION OF THE HELIUM **SLVH 4
C** NUMBER DENSITY ACCORDING TO L. JACCHIA, SAO 332, 1971. THIS **SLVH 5
C** CORRECTION IS NOT IMPORTANT BELOW ABOUT 500 KM. **SLVH 6
C** **SLVH 7
C** DEN = DENSITY (LOG10) **SLVH 8
C** DENHE = HELIUM NUMBER DENSITY (LOG10) **SLVH 9
C** XLAT = LATITUDE (RAD) **SLVH 10
C** SDA = SOLAR DECLINATION ANGLE (RAD) **SLVH 11
C*****SLVH 12
C DO = 10. ** DENHE SLVH 13
C A = ABS ( 0.65 * ( SDA / 0.40909079 ) ) SLVH 14
C SLVH 15
C B = 0.5 * XLAT SLVH 16
C SLVH 17
C** CHECK TO COMPUTE ABSOLUTE VALUE OF 'B' SLVH 18
C SLVH 19
C IF ( SDA. LT. 0. ) B = -B SLVH 20
C SLVH 21
C** COMPUTE X, Y, DHE AND DENHE SLVH 22
C SLVH 23
C X = 0.7854 - B SLVH 24
C Y = ( SIN ( X ) ) ** 3 SLVH 25
C DHE= A * ( Y - 0.35356 ) SLVH 26
C SLVH 27

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	DENHE = DENHE + DHE	SLVH 28
C		SLVH 29
C**	COMPUTE HELIUM NUMBER DENSITY CHANGE	SLVH 30
C		SLVH 31
	D1 = 10. ** DENHE	SLVH 32
	DEL= D1 - DO	SLVH 33
	RHO= 10. ** DEN	SLVH 34
	DRHO = (6.646E-24) * DEL	SLVH 35
	RHO = RHO + DRHO	SLVH 36
	DEN = ALOG10 (RHO)	SLVH 37
		SLVH 38
	RETURN	SLVH 39
	END	SLVH 40
	SUBROUTINE SORT4(NP)	SORT 1
C		SORT 2
C	SORTS POINTS FOR SEQUENTIAL FILE READING	SORT 3
C		SORT 4
C	ASSIGNS POINT NUMBERS BY ORDER ON FILE, NOT BY GRID	SORT 5
C		SORT 6
	COMMON /ORDER/ IPT (16,5),IREAD(65,3)	SORT 7
C		SORT 8
	DO 1 I=1,65	SORT 9
	DO 1 J=1,3	SORT 10
1	IREAD(I,J)=0	SORT 11
	DO 9 I=1,NP	SORT 12
	IF(IPT(I,5).LT.1) GO TO 10	SORT 13
	IF(IPT(I,5).EQ.1) GO TO 9	SORT 14
	IF(IPT(I,5).EQ.2) GO TO 2	SORT 15
	IF(IPT(I,5).EQ.3) GO TO 4	SORT 16
	IF(IPT(I,5).EQ.1133)GO TO 6	SORT 17
	IF(IPT(I,5).EQ.2211) GO TO 7	SORT 18
	IF(IPT(I,5).EQ.2212)GO TO 8	SORT 19
	IF (IPT(I,5).EQ.333) GO TO 4	SORT 20
	GO TO 10	SORT 21
2	DO 3 J=1,4	SORT 22
	IF(IPT(I,J).LT.1) GO TO 3	SORT 23
	IPT(I,J)=IPT(I,J)+288	SORT 24
3	CONTINUE	SORT 25
	GO TO 9	SORT 26
4	DO 5 J=1,4	SORT 27
	IF(IPT(I,J).LT.1) GO TO 5	SORT 28
	IPT(I,J)=IPT(I,J)+2265	SORT 29
5	CONTINUE	SORT 30
	GO TO 9	SORT 31
6	IF(IPT(I,1).GT.0)IPT(I,1)=IPT(I,1)+2265	SORT 32
	IF(IPT(I,2).GT.0)IPT(I,2)=IPT(I,2)+2265	SORT 33
	GO TO 9	SORT 34
7	IF(IPT(I,3).GT.0)IPT(I,3)=IPT(I,3)+288	SORT 35
	IF(IPT(I,4).GT.0)IPT(I,4)=IPT(I,4)+288	SORT 36
	GO TO 9	SORT 37
8	IF(IPT(I,1).GT.0)IPT(I,1)=IPT(I,1)+288	SORT 38
	IF(IPT(I,3).GT.0)IPT(I,3)=IPT(I,3)+288	SORT 39
	IF(IPT(I,4).GT.0)IPT(I,4)=IPT(I,4)+288	SORT 40
9	CONTINUE	SORT 41

C		SORT	42
C	REORDERS POINT NUMBERS FOR READ	SORT	43
C		SORT	44
	10 IR=0	SORT	45
	DO 13 K=1,NP	SORT	46
	DO 13 L=1,4	SORT	47
	MP=IPT(K,L)	SORT	48
	IF(MP.LT.1) GO TO 13	SORT	49
	11 II=K	SORT	50
	JJ=L	SORT	51
	DO 12 I=1,NP	SORT	52
	DO 12 J=1,4	SORT	53
	IF (IPT(I,J).LT.1) GO TO 12	SORT	54
	IF(IPT(I,J).GT.3490) GO TO 12	SORT	55
	IF(IPT(I,J).GE.MP) GO TO 12	SORT	56
	II=I	SORT	57
	JJ=J	SORT	58
	MP=IPT(I,J)	SORT	59
	12 CONTINUE	SORT	60
	IF(IPT(II,JJ).GT.3490) GO TO 14	SORT	61
	IR=IR+1	SORT	62
	IREAD(IR,1)=II	SORT	63
	IREAD(IR,2)=JJ	SORT	64
	IREAD(IR,3)=IPT(II,JJ)	SORT	65
	IPT(II,JJ)=IPT(II,JJ)+9000	SORT	66
	MP=IPT(K,L)	SORT	67
	IF(MP.GT.3490) GO TO 13	SORT	68
	GO TO 11	SORT	69
	13 CONTINUE	SORT	70
	14 RETURN	SORT	71
	END	SORT	72
	SUBROUTINE STDATM(Z,T,P,D)	STDA	1
	DIMENSION ZS(49),TMS(49),WMS(49),PS(49)	STDA	2
	DATA (ZS(I),I=1,49)/0., 11.019, 20.063, 32.162, 47.35,	STDA	3
	& 51.413,71.802,86.,91.,94.,97.,100.,103.,106.,108.,110.,	STDA	4
	& 112.,115.,120.,125.,130.,135.,140.,145.,150.,155.,160.,165.,	STDA	5
	& 170.,180.,190.,210.,230.,265.,300.,350.,400.,450.,	STDA	6
	& 500.,550.,600.,650.,700.,750.,800.,850.,900.,950.,1000./	STDA	7
	DATA (TMS(I),I=1,49)/288.15,216.65,216.65,228.65,270.65,270.65,	STDA	8
	& 214.65,186.95,186.87,187.74,190.40,195.08,202.23,212.89,223.29,	STDA	9
	& 240.0,264.0,300.00,360.00,417.23,469.27,516.59,559.63,598.78,	STDA	10
	& 634.39, 666.80, 696.29, 723.13, 747.57, 790.07, 825.31,	STDA	11
	& 878.84, 915.78, 955.20, 976.01, 990.06, 995.83, 998.22,	STDA	12
	& 999.24, 999.67, 999.85, 999.93, 999.97, 999.99, 999.99,	STDA	13
	& 1000., 1000., 1000., 1000./	STDA	14
	DATA (WMS(I),I=1,49)/28.9644,28.9644,28.9644,28.9644,28.9644,	STDA	15
	& 28.9644,28.9644,28.9522,28.889,28.783,28.620,28.395,28.104,	STDA	16
	& 27.765,27.521,27.268,27.020,26.680,26.205,25.803,25.436,25.087,	STDA	17
	& 24.749, 24.422, 24.103, 23.792, 23.488, 23.192, 22.902,	STDA	18
	& 22.342, 21.809, 20.825, 19.952, 18.688, 17.726, 16.735,	STDA	19
	& 15.984, 15.247, 14.330, 13.092, 11.505, 9.718, 7.998,	STDA	20
	& 6.579, 5.543, 4.849, 4.404, 4.122, 3.940/	STDA	21
	DATA (PS(I),I=1,49)/1013.25, 226.32, 54.7487, 8.68014, 1.10905,	STDA	22
	& .66938, .039564, 3.7338E-3, 1.5381E-3, 9.0560E-4, 5.3571E-4,	STDA	23

& 3.2011E-4, 1.9742E-4, 1.2454E-4, 9.3188E-5, 7.1042E-5, 5.5547E-5,	STDA	24
& 4.0096E-5, 2.5382E-5, 1.7354E-5, 1.25054E-5, 9.3568E-6,	STDA	25
& 7.2028E-6, 5.6691E-6, 4.5422E-6, 3.6930E-6, 3.0395E-6,	STDA	26
& 2.5278E-6, 2.1210E-6, 1.5271E-6, 1.1266E-6, 6.4756E-7,	STDA	27
& 3.9276E-7, 1.7874E-7, 8.7704E-8, 3.4498E-8, 1.4518E-8,	STDA	28
& 6.4468E-9, 3.0236E-9, 1.5137E-9, 8.2130E-10, 4.8865E-10,	STDA	29
& 3.1908E-10, 2.2599E-10, 1.7036E-10, 1.3415E-10, 1.0873E-10.	STDA	30
& 8.9816E-11, 7.5138E-11/	STDA	31
IF(Z.LT.O.) GO TO 81	STDA	32
RO=6356.766	STDA	33
GO=9.80665	STDA	34
WMO=28.9644	STDA	35
RS=8314.32	STDA	36
ZM=Z*1000.	STDA	37
ROM=RO*1000.	STDA	38
IF(Z.GE.86.) GO TO 6	STDA	39
DO 3 I=1,7	STDA	40
IF(ZS(I).LE.Z.AND.Z.LT.ZS(I+1)) GO TO 5	STDA	41
3 CONTINUE	STDA	42
5 ZL=RO*ZS(I)/(RO+ZS(I))	STDA	43
ZU=RO*ZS(I+1)/(RO+ZS(I+1))	STDA	44
ZLM=ZL*1000.	STDA	45
ZUM=ZU*1000.	STDA	46
WM=WMO	STDA	47
HT=(RO*Z)/(RO+Z)	STDA	48
HM=HT*1000.	STDA	49
G=(TMS(I+1)-TMS(I))/(ZU-ZL)	STDA	50
GM=G*.001	STDA	51
IF(G.LT.O..OR.G.GT.O.) GO TO 12	STDA	52
P=PS(I)*EXP(-(GO*WMO*(HM-ZLM))/(RS*TMS(I)))*100.	STDA	53
GO TO 13	STDA	54
12 P=PS(I)*((TMS(I)/(TMS(I)+G*(HT-ZL)))*((GO*WMO)/(RS*GM)))*100.	STDA	55
13 T=TMS(I)+G*(HT-ZL)	STDA	56
GO TO 25	STDA	57
6 DO 7 I=8,48	STDA	58
IF(ZS(I).LE.Z.AND.Z.LT.ZS(I+1)) GO TO 8	STDA	59
7 CONTINUE	STDA	60
I=48	STDA	61
IF(Z.LE.1000.)GO TO 8	STDA	62
81 T=0.	STDA	63
P=0.	STDA	64
D=0.	STDA	65
RETURN	STDA	66
8 IF(I.NE.8)GOTO 31	STDA	67
T = TMS(9)	STDA	68
GOTO 39	STDA	69
31 IF(I.LT.16.OR.I.GE.19)GOTO 32	STDA	70
T = 240.+12.O*(Z-110.O)	STDA	71
GO TO 39	STDA	72
32 IF(I.GE.19)GOTO 33	STDA	73
T = 263.1905 - 76.3232*SQRT(1. - ((Z-91.)/19.9429)**2)	STDA	74
GOTO 39	STDA	75
33 XI = (Z-120.)*(RO + 120.)/(RO + Z)	STDA	76
T = 1000. - 640.*EXP(-O.O1875*XI)	STDA	77

```

39  J = I                                STDA 78
    IF(I.EQ.48)J = I - 1                 STDA 79
    ZO = ZS(J)                           STDA 80
    Z1 = ZS(J+1)                         STDA 81
    Z2 = ZS(J+2)                         STDA 82
    WMA=WMS(J)*(Z-Z1)*(Z-Z2)/((ZO-Z1)*(ZO-Z2)) + WMS(J+1)*(Z-ZO) STDA 83
    & *(Z-Z2)/((Z1-ZO)*(Z1-Z2)) + WMS(J+2)*(Z-ZO)*(Z-Z1)/ STDA 84
    & ((Z2-ZO)*(Z2-Z1))                  STDA 85
    ALPO = ALOG(PS(J))                   STDA 86
    ALP1 = ALOG(PS(J+1))                 STDA 87
    ALP2 = ALOG(PS(J+2))                 STDA 88
    ALPA = ALPO*(Z-Z1)*(Z-Z2)/((ZO-Z1)*(ZO-Z2)) + ALP1*(Z-ZO) STDA 89
    & *(Z-Z2)/((Z1-ZO)*(Z1-Z2)) + ALP2*(Z-ZO)*(Z-Z1)/ STDA 90
    & ((Z2-ZO)*(Z2-Z1))                  STDA 91
    ALPB = ALPA                           STDA 92
    WMB = WMA                             STDA 93
    IF(I.EQ.8.OR.I.EQ.48)GOTO 24         STDA 94
    J = J - 1                             STDA 95
    ZO = ZS(J)                           STDA 96
    Z1 = ZS(J+1)                         STDA 97
    Z2 = ZS(J+2)                         STDA 98
    ALPO = ALOG(PS(J))                   STDA 99
    ALP1 = ALOG(PS(J+1))                 STDA 100
    ALP2 = ALOG(PS(J+2))                 STDA 101
    ALPB = ALPO*(Z-Z1)*(Z-Z2)/((ZO-Z1)*(ZO-Z2)) + ALP1*(Z-ZO) STDA 102
    & *(Z-Z2)/((Z1-ZO)*(Z1-Z2)) + ALP2*(Z-ZO)*(Z-Z1)/ STDA 103
    & ((Z2-ZO)*(Z2-Z1))                  STDA 104
    WMB=WMS(J)*(Z-Z1)*(Z-Z2)/((ZO-Z1)*(ZO-Z2)) + WMS(J+1)*(Z-ZO) STDA 105
    & *(Z-Z2)/((Z1-ZO)*(Z1-Z2)) + WMS(J+2)*(Z-ZO)*(Z-Z1)/ STDA 106
    & ((Z2-ZO)*(Z2-Z1))                  STDA 107
24  P= 100.*EXP((ALPA+ALPB)/2.)         STDA 108
    WM = (WMA+WMB)/2.                    STDA 109
25  D=(WM*P)/(RS*T)                     STDA 110
26  RETURN                                STDA 111
    END                                    STDA 112
    FUNCTION TEMP ( ALT , TX , T1 , T3 , T4 , A2 ) TEMP 1
                                                    TEMP 2
C*****TEMP 3
C** **TEMP 4
C** 'TEMP' CALCULATES THE TEMPERATURE AT ALTITUDE ALT USING EQUATION **TEMP 5
C** (10) FOR ALTITUDES BETWEEN 90 AND 125 KM AND EQUATION (13) **TEMP 6
C** FOR ALTITUDES GREATER THAN 125 KM , FROM SAO REPORT 313. **TEMP 7
C** **TEMP 8
C*****TEMP 9
    PARAMETER (BB = 4.5E-6)              TEMP 10
    U = ALT - 125.                       TEMP 11
    IF ( U .GT. 0. ) THEN                 TEMP 12
        TEMP = TX+A2*ATAN(T1*U*(1.+BB*(U**2.5))/A2) TEMP 13
    ELSE                                  TEMP 14
        TEMP = TX + T1 * U + T3 * (U**3) + T4 * (U**4) TEMP 15
    END IF                                TEMP 16
                                                    TEMP 17
                                                    TEMP 18
                                                    TEMP 19

```

```

END
SUBROUTINE TINF(F10,F10B,GI,XLAT,SDA,SHA,DY,I1,TE)
TEMP 20
TINF 1
TINF 2
C*****TINF 3
C** SUBROUTINE 'TINF' CALCULATES THE EXOSPHERIC TEMPERATURE ACCORDING **TINF 4
C** TO L. JACCHIA SAO 313, 1970 **TINF 5
C** **TINF 6
C** F10 = SOLAR RADIO NOISE FLUX ( X E-22 WATTS / M2 ) **TINF 7
C** F10B= 162-DAY AVERAGE F10 **TINF 8
C** GI = GEOMAGNETIC ACTIVITY INDEX **TINF 9
C** XLAT= GEOGRAPHIC LATITUDE AT PERIGEE ( IN RAD ) **TINF 10
C** SDA = SOLAR DECLINATION ANGLE ( IN RAD ) **TINF 11
C** SHA = SOLAR HOUR ANGLE **TINF 12
C** DY = D / Y ( DAY NUMBER / TROPICAL YEAR ) ; 1 **TINF 13
C** I1 = GEOMAGNETIC EQUATION INDEX ( 1--GI=KP , 2--GI=AP ) **TINF 14
C** RE = DIURNAL FACTOR KP, F10B, AVG **TINF 15
C** **TINF 16
C** CONSTANTS -- C = SOLAR ACTIVITY VARIATION **TINF 17
C** -- BETA , ETC = DIURNAL VARIATION **TINF 18
C** -- D = GEOMAGNETIC VARIATION **TINF 19
C** -- E = SEMIANNUAL VARIATION **TINF 20
C** **TINF 21
C*****TINF 22
TINF 23
PARAMETER (PI = 3.14159265 , TPI = 6.28318531) TINF 24
PARAMETER (XM = 2.5 , XNN = 3.0) TINF 25
C TINF 26
C** CI ARE SOLAR ACTIVITY VARIATION VARIABLES TINF 27
C TINF 28
PARAMETER (C1 = 383.0 , C2 = 3.32 , C3 = 1.80) TINF 29
C TINF 30
C** DI ARE GEOMAGNETIC VARIATION VARIABLES TINF 31
C TINF 32
PARAMETER (D1=28.0,D2=0.03,D3=1.0,D4=100.0,D5 = -0.08) TINF 33
C TINF 34
C** EI ARE SEMIANNUAL VARIATION VARIABLES TINF 35
C TINF 36
PARAMETER (E1=2.41,E2=0.349,E3=0.206,E4=6.2831853) TINF 37
PARAMETER (E5=3.9531708,E6=12.5663706,E7=4.3214352) TINF 38
PARAMETER (E8 = 0.1145 , E9 = 0.5 , E10 = 6.2831853) TINF 39
PARAMETER (E11 = 5.9742620 , E12 = 2.16) TINF 40
TINF 41
PARAMETER (BETA=-0.6457718,GAMMA=0.7504916,P=0.1047198) TINF 42
PARAMETER (RE = 0.31) TINF 43
C TINF 44
C** SOLAR ACTIVITY VARIATION TINF 45
C TINF 46
TC = C1 + C2 * F10B + C3 * ( F10 - F10B ) TINF 47
C TINF 48
C** DIURNAL VARIATION TINF 49
C TINF 50
ETA = 0.5 * ABS ( XLAT - SDA ) TINF 51
THETA = 0.5 * ABS ( XLAT + SDA ) TINF 52
TAU = SHA + BETA + P * SIN ( SHA + GAMMA ) TINF 53

```

```

IF ( TAU. GT. PI ) TAU = TAU - TPI
IF ( TAU. LT. -PI ) TAU = TAU + TPI

A1 = ( SIN ( THETA ) )**XM
A2 = ( COS ( ETA ) )**XM
A3 = ( COS ( TAU / 2. ) )**XNN
B1 = 1.0 + RE * A1
B2 = ( A2 - A1 ) / B1
TV = B1 * ( 1. + RE * B2 * A3 )
TL = TC * TV
C
C** GEOMAGNETIC VARIATION
C
IF ( I1.EQ.1 ) THEN
    TG = D1 * GI + D2 * EXP(GI)
ELSE
    TG = D3 * GI + D4 * ( 1 - EXP ( D5 * GI ) )
END IF
C
C** SEMIANNUAL VARIATION
C
G3 = 0.5 * ( 1.0 + SIN ( E10 * DY + E11 ) )
G3 = G3 ** E12
TAU1 = DY + E8 * ( G3 - E9 )
G1 = E2 + E3 * ( SIN ( E4 * TAU1 + E5 ) )
G2 = SIN ( E6 * TAU1 + E7 )
TS = E1 + F10B * G1 * G2
C
C** EXOSPHERIC TEMPERATURE
C
TE = TL + TG + TS

RETURN
END
SUBROUTINE TME ( MN , IDA , IYR , IHR , MIN , XLAT , XLNG ,
                SDA , SHA , DD , DY )

C*****TME
C** 'TME' PERFORMS THE CALCULATIONS OF THE SOLAR DECLINATION **TME
C** ANGLE AND SOLAR HOUR ANGLE. **TME
C** **TME
C** INPUTS: MN = MONTH **TME
C** IDA = DAY **TME
C** IYR = YEAR **TME
C** IHR = HOUR **TME
C** MIN = MINUTE **TME
C** XLAT= LATITUDE ( INPUT-GEOCENTRIC LATITUDE ) **TME
C** XLNG= LONGITUDE (INPUT-GEOCENTRIC LONGITUDE, -180,+180) **TME
C** **TME
C** OUTPUTS: SDA = SOLAR DECLINATION ANGLE (RAD) **TME
C** SHA = SOLAR HOUR ANGLE (RAD) **TME
C** DD = DAY NUMBER FROM 1 JAN. **TME
C** DY = DD / TROPICAL YEAR **TME

```

```

C*****TME 20
PARAMETER (YEAR = 365.2422)TME 21
PARAMETER (A1 = 99.6909833 , A2 = 36000.76892)TME 22
PARAMETER (A3 = 0.00038708 , A4 = 0.250684477)TME 23
PARAMETER (B1 = 0.0172028 , B2 = 0.0335 , B3 = 1.407)TME 24
PARAMETER (PI = 3.14159265 , TPI = 6.28318531)TME 25
PARAMETER (PI2 = 1.57079633 , PI32 = 4.71238898)TME 26
PARAMETER (PI180 = 0.017453293)TME 27
TME 28
DIMENSION IDAY(12)TME 29
TME 30
DATA IDAY / 31,28,31 ,30,31,30 ,31,31,30 ,31,30,31 /TME 31
TME 32
XLAT = XLAT / 57.29577951TME 33
YR = IYRTME 34
TME 35
IF ( MOD(IYR,4) .EQ. 0 ) THENTME 36
IF ( MOD(IYR,100) .NE. 0 ) IDAY(2) = 29TME 37
ELSETME 38
IDAY(2) = 28TME 39
END IFTME 40
ID = 0TME 41
IF ( MN. GT. 1 ) THENTME 42
DO 20 I = 1 , MN-1TME 43
ID = ID + IDAY(I)TME 44
20 CONTINUETME 45
END IFTME 46
ID = ID + IDATME 47
DD = IDTME 48
DY = DD/YEARTME 49
TME 50
C TME 51
C** COMPUTE MEAN JULIAN DATE TME 52
CTME 53
XMJD = 2415020. + 365. * ( YR - 1900. ) + DD TME 54
+ FLOAT ( ( IYR - 1901 ) / 4 ) TME 55
CTME 56
C** COMPUTE GREENWICH MEAN TIME IN MINUTES GMT TME 57
CTME 58
XHR = IHR TME 59
XMIN = MINTME 60
GMT = 60 * XHR + XMIN TME 61
FMJD = XMJD - 2435839. + GMT / 1440. TME 62
TME 63
C** COMPUTE GREENWICH MEAN POSITION - GP ( IN RAD ) TME 64
CTME 65
XJ = ( XMJD - 2415020.5 ) / ( 36525.0 ) TME 66
GP = AMOD ( A1 + A2 * XJ + A3 * XJ * XJ + A4 * GMT , 360. ) TME 67
TME 68
CTME 69
C** COMPUTE RIGHT ASCENSION POINT - RAP ( IN RAD ) TME 70
CTME 71
C** 1ST CONVERT GEOCENTRIC LONGITUDE TO DEG LONGITUDE - WEST , + EAST TME 72
CTME 73
IF ( XLNG .GT. 180. ) XLNG = XLNG - 360.

```


	RAP = AMOD (GP + XLNG , 360.)	TME 74
		TME 75
		TME 76
C		TME 77
C**	COMPUTE CELESTIAL LONGITUDE - XLS (IN RAD) - - ZERO TO 2PI	TME 78
C		TME 79
	Y1 = B1 * FMJD	TME 80
	Y2 = 0.017202 * (FMJD - 3.)	TME 81
	XLS = AMOD (Y1 + B2 * SIN(Y2) - B3 , TPI)	TME 82
		TME 83
C		TME 84
C**	COMPUTE SOLAR DECLINATION ANGLE - SDA (IN RAD)	TME 85
C		TME 86
	B4 = PI180 * (23.4523 - 0.013 * XJ)	TME 87
	SDA = ASIN (SIN (XLS) * SIN (B4))	TME 88
		TME 89
C		TME 90
C**	COMPUTE RIGHT ASCENSION OF SUN - RAS (IN RAD) - - ZERO TO 2PI	TME 91
C		TME 92
	ARG = TAN (SDA) / TAN (B4)	TME 93
	IF (ARG .GT. 1.0) ARG = 1.0	TME 94
	IF (ARG .LT. -1.) ARG = -1.0	TME 95
	RAS = ASIN (ARG)	TME 96
		TME 97
C		TME 98
C**	PUT RAS IN SAME QUADRANT AS XLS	TME 99
C		TME 100
	RAS = ABS (RAS)	TME 101
	TEMP = ABS (XLS)	TME 102
		TME 103
	IF (TEMP.LE.PI .AND. TEMP.GT.PI2) THEN	TME 104
	RAS = PI - RAS	TME 105
	ELSE IF (TEMP.LE.PI32 .AND. TEMP.GT.PI) THEN	TME 106
	RAS = PI + RAS	TME 107
	ELSE IF (TEMP.GT.PI32) THEN	TME 108
	RAS = TPI - RAS	TME 109
	END IF	TME 110
	IF (XLS .LT. 0.) RAS = -RAS	TME 111
		TME 112
		TME 113
C		TME 114
C**	COMPUTE SOLAR HOUR ANGLE - SHA (IN RAD) - -	TME 115
C		TME 116
	SHA = RAP * PI180 - RAS	TME 117
	IF (SHA.GT.PI) SHA = SHA - TPI	TME 118
	IF (SHA.LT.-PI) SHA = SHA + TPI	TME 119
		TME 120
	RETURN	TME 121
	END	TME 122
	SUBROUTINE WIND	WIND 1
	COMMON/WINCOM/RHO,FCDRY,DX5,DY5,PX,PY,U,V,T,TX,TY,	WIND 2
	\$ DU,DV,P,UPRE,VPRE,DUPRE,DVPRE	WIND 3
	COMMON/IOTEMP/DUM1(6),PHI,DUM2(11),MN,DM2A(5),G,R,H,PHIR,	WIND 4
	& THETR,DUM3(15),FLAT,DUMMY(18)	WIND 5
	COMMON/CHIC/DUM(18),IWSYM,USH,VSH,DUSH,DVSH	WIND 6
	ABSPHI = ABS(PHIR)	WIND 7
	BETA = 1.458E-6	WIND 8

	SVAL = 110.4	WIND 9
	SHZ1=25.	WIND 10
	SHZ2=120.	WIND 11
	IF (ABSPHI.LT.O.017453293*FLAT)GO TO 40	WIND 12
	IF (RHO.GT.O.O.AND.T.GT.O.O.AND.ABS(FCORY).GT.O.)GO TO 20	WIND 13
	IF (RHO.GT.O.O.AND.ABSPHI.GT.O.) GO TO 20	WIND 14
	U = 0.	WIND 16
	V = 0.	WIND 16
	DU=0.	WIND 17
	DV=0.	WIND 18
	IF (ABS(FCORY).LE.O.)GO TO 31	WIND 19
	RETURN	WIND 20
20	FCORX = FCORY*DX5/DY5	WIND 21
	IF (H.GE.90.)GOTO 25	WIND 22
	U = - PY/(FCORY*RHO)	WIND 23
	V = PX/(FCORX*RHO)	WIND 24
	DU = -(G*TY)/(FCORY*T)	WIND 25
	DV = (G*TX)/(FCORX*T)	WIND 26
	GO TO 31	WIND 27
25	VISC = BETA*(T**1.5)/(T+SVAL)	WIND 28
	VLS = 5.3 + 0.0622*(H**1.5)	WIND 29
	IF (VLS.GT.H)VLS = H	WIND 30
	VISCFAC = VISC/(1.0E6*RHO*VLS**2)	WIND 31
	CORIOL = FCORY/DY5	WIND 32
	DPDX = PX/(DX5*RHO)	WIND 33
	DPDY = PY/(DY5*RHO)	WIND 34
	DENOM = CORIOL**2 + VISCFAC**2	WIND 35
	U = (-CORIOL*DPDY - VISCFAC*DPDX)/DENOM	WIND 36
	V = (CORIOL*DPDX - VISCFAC*DPDY)/DENOM	WIND 37
	DTDX = G*TX/(DX5*T)	WIND 38
	DTDY = G*TY/(DY5*T)	WIND 39
	DU = (-CORIOL*DTDY - VISCFAC*DTDX)/DENOM	WIND 40
	DV = (CORIOL*DTDX - VISCFAC*DTDY)/DENOM	WIND 41
31	IF (H.GT.SHZ1.AND.H.LT.SHZ2)GOTO 99	WIND 42
	IF (ABSPHI.GE.O.017453293*FLAT)RETURN	WIND 43
40	CONTINUE	WIND 44
	U=UPRE	WIND 45
	V=VPRE	WIND 46
	DU=DUPRE	WIND 47
	DV=DVPRE	WIND 48
	IF (H.GT.SHZ1.AND.H.LT.SHZ2)GO TO 99	WIND 49
	RETURN	WIND 50
99	IH=INT(H)	WIND 51
	IF (IH.LT.SHZ1+5) GOTO 130	WIND 52
	IF (IH.GE.SHZ2-30)GOTO 140	WIND 53
	U=USH	WIND 54
	V=VSH	WIND 55
	DU=DUSH	WIND 56
	DV=DVSH	WIND 57
	RETURN	WIND 58
C...	LOW ALTITUDE FAIRING	WIND 59
130	FACS=(H-SHZ1)/5.	WIND 60
	FACG=1.-FACS	WIND 61
	U=FACG*U+FACS*USH	WIND 62

```

V=FACG*V+FACS*VSH
DU=FACG*DU+FACS*DUSH
DV=FACG*DV+FACS*DVSH
RETURN
C...HIGH ALTITUDE FAIRING
140 FACS=(H+30.-SHZ2)/30.
FACG=1.-FACS
U=FACS*U+FACG*USH
V=FACS*V+FACG*VSH
DU=FACS*DU+FACG*DUSH
DV=FACS*DV+FACG*DVSH
RETURN
END

```

```

WIND 63
WIND 64
WIND 65
WIND 66
WIND 67
WIND 68
WIND 69
WIND 70
WIND 71
WIND 72
WIND 73
WIND 74
WIND 75

```

2. JCL CODE

The following is a sample listing of the Job Control Language (JCL) code needed to run the GRAM-90 on MSFC's IBM 3090 computer.

```
//CWEJ412T JOB (6E551500466), 'JEFFRIES/5449136',
// MSGLEVEL=1,MSGCLASS=X,CLASS=A,REGION=2048K
//*JOBPARM F=9700,R=412
//GRM90TST EXEC VSF2CLG.FVLNSPC='3200.(200,50)',
//      PARM.FORT='SDUMP(ISN)'
//-----
/** THIS RUN STREAM WILL COMPILE THE VS FORTRAN SOURCE PROGRAM
/** WHICH IS MEMBER GRAM90 IN THE CATALOGED PARTITIONED DATA SET
/** CWEJ412.ATMOSMDL.FORT - A VERSION OF THE GRAM.
/**
/** LAST MOD: 10 SEP 1990
/**-----
//FORT.SYSIN DD DSN=CWEJ412.ATMOSMDL.FORT(GRAM90),DISP=SHR
/**
/** INPUT UNIT FOR DATA LINES(SEE INPUT DATA BELOW).
/**
//GO.FTO5FOO1 DD DDNAME=SYSIN
/**
/** OUTPUT PRINT UNIT.
/**
//GO.FTO6FOO1 DD SYSOUT=X
/**
/** OUTPUT DATA SET. IF USED, IT WILL STORE THE RAW OUTPUT DATA
/** IN THE CHOSEN DATA SET FOR FUTURE PLOTTING/OTHER HANDLING.
/** CHANGE AS REQUIRED.
/**
/**O.FTO7FOO1 DD DSN=CWEJ412.PLOT.DATA(GRM90TST),DISP=SHR
/**O.FTO7FOO1 DD DSN=CWEJ412.STSMET.DATA(G8STS28A),DISP=SHR
/**
/** INPUT DATA SETS(1 SCIDAT AND 1 4-D SETS):
/**
/** DSN CWEJ412.GRAMOD90.DATA(SCIDAT9) INPUTS SCIDAT DATA.
/**
//GO.FTO3FOO1 DD DSN=CWEJ412.GRAMOD90.DATA(SCIDAT9),DISP=SHR
/**
/** DSN CWEJ412.GRAMOD90.DAT4DXX, A SERIES OF DIRECT ACCESS (DA) FILES.
/** INPUTS 4D DATA, WHERE XX IS THE NUMBER OF THE DESIRED MONTH.
/** CHANGE THE DSN NAME XX AS DESIRED (OR IN ACCORDANCE WITH AN
/** ALTERNATE DA FILE NAME):
/** JAN,FEB,MAR,APR,MAY,JUN,JUL,AUG,SEP,OCT,NOV,DEC.
/** 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12.
/** BUT THE FOLLOWING "GO" NAME MUST BE COMPATIBLE WITH THE "OPEN"
/** STATEMENT FILE NAME IN THE FORTRAN PROGRAM.
/**
//GO.DAT4D09 DD DSN=CWEJ412.GRAMOD90.DAT4D09.
//      DCB=(RECFM=F,DSORG=DA,LRECL=1269),DISP=SHR
/**
/** THE FOLLOWING UNITS ARE ASSIGNED TO INTERNAL SCRATCH FILES.
/** LRECL OF 852 = 213 (SIZE, I.E. NUMBER OF WORDS, ALLOCATED FOR INPUT
/** FILE IN SUBROUTINE GRID4D) X 4 (BYTES/WORD), AND BLKSIZE = LRECL
/** X 10.
/**
//GO.FT12FOO1 DD UNIT=SYSDA,SPACE=(TRK,(20,20)),
//      DCB=(RECFM=FB,LRECL=852,BLKSIZE=8520)
```

```

//GO.FT13FOO1 DD UNIT=SYSDA,SPACE=(TRK,(20,20)),
//   DCB=(RECFM=FB,LRECL=852,BLKSIZE=8520)
//*
//* INPUT DATA:
//*   LINE 1: INITIAL ALT(KM),INITIAL LAT,INITIAL WEST LON,
//*           F10.7,MEAN F10.7,AP,MONTH,DAY,YR(2 DIGITS),
//*           HR(24 HR CLOCK),MIN,SEC,LAT INCREMENT,W. LON
//*           INCREMENT,ALT INCREMENT,MAX # POSITIONS,TIME
//*           INCREMENT,TRAJECTORY OPTION,OUTPUT OPTION(SHOULD
//*           EQUAL 7 IF ACTIVATED), MIN GEOSTROPHIC LAT.
//*           NOTE: FOR STS SUPPORT:
//*                 INIT ALT=122.8 KM (403K FT)
//*                 ALT INCR=.9 KM (3K FT)
//*                 MAX # POS=138 (TO SFC)
//*           USUALLY IN AN OPERATIONAL SITUATION, THE ONLY
//*           DATA ITEMS WHICH NEED TO BE CHANGED ARE THE:
//*                 F10.7,MEAN F10.7,AP,MONTH,DAY,YR,HR, AND MIN.
//*   LINE 2: INPUT UNITS FOR DATA FROM SCIDAT (NMC,GROVES/STA PERT,
//*           RANDOM,P/PW/CS/CL,QBO,SP),4D,RANDOM OPTION,QBO
//*           OPTION,FIRST RANDOM #,4D/P/D/T SCRATCH UNIT,
//*           NMC SCRATCH UNIT, AND DIAGNOSTIC OUTPUT SWITCH, IPRT
//*           (0 ACTIVATES OUTPUT, 1 DE-ACTIVATES IT), ALSO
//*           NLIMIT(MAX NUMBER OF TEST VIOLATIONS IN 4D DATA - 12
//*           TO 25).
//*   LINE 3: INITIAL PL,PS,DL,DS,TL,TS,UL,US,VL,VS,RANDOM
//*           PERT SCALING FACTOR--INCLUDE ONLY IF RANDOM
//*           OPTION=1(IF 2, RANDOM PERT NOT COMPUTED - SAME
//*           FOR QBO OPTION).
//*   LINES 4 OR MORE: ONLY REQUIRED IF TRAJECTORY OPTION .NE.
//*                   ZERO. EACH LINE HAS TIME(SEC),ALT(KM),LAT,W.LON.
//*                   LAST LINE HAS ANY NEGATIVE ALTITUDE VALUE.
//*
//GO.SYSIN DD *
600.0,28.45,80.53,150.,150.,15.,9,1,89,00,00,0, 0., 0.,20.,31,0,0,0,18.,
 3, 4, 1, 1, 1,12,13,1,12,
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,1,0,
//*
//

```

3. OUTPUT

The following is the sample output, from MSFC's IBM 3090 computer, resulting from the input submitted through the foregoing JCL listing. As in a similar example listed in Volume I (Justus et al. 1990), the first 18 lines merely repeat the input data for ease in comparison and reference.

***** GLOBAL REFERENCE ATMOSPHERIC MODEL - 1990 (GRAM90) *****

INITIAL HEIGHT = 600.00 KM
 F10.7 = 150.00
 DATE = 9/ 1/89
 LAT INCREMENT = 0.00 DEG
 MAXIMUM NUMBER OF POSITIONS = 31
 TRAJECTORY OPTION = 0
 INITIAL LAT = 28.45 DEG
 MEAN F10.7 = 150.00
 GREENWICH TIME = 0: 0: 0
 WEST LON INCREMENT = 0.00 DEG
 TIME INCREMENT = 0 SEC
 OUTPUT OPTION = 0
 INITIAL WEST LON = 80.53 DEG
 AP = 15.00
 HEIGHT INCREMENT = 20.00 KM
 MIN GEOSTROPH LAT = 18.0

SCIDAT INPUT UNIT = 3
 RANDOM OPTION = 1
 FIRST RANDOM NUMBER = 1
 4-D P.D.T DATA SCRATCH UNIT = 12
 NMC GRID POINTS SCRATCH UNIT = 13
 JULIAN DATE = 2447771.0

INITIAL P.D.T = 0.00 %
 INITIAL U,V = 0.00 M/S
 INITIAL P.D.T = 0.00 %
 INITIAL U,V = 0.00 M/S
 INITIAL UDL,VDL = -9.89 % -19.16 %
 SIGMA P.D.T = 2.11 %
 SIGMA U,V = 48.26 M/S
 SIGMA P.D.T = 5.72 %
 SIGMA U,V = 52.60 M/S
 INITIAL UDS,VDS = -11.46 % -9.84 %
 SIGMA P.D.T = 1.34 %
 SIGMA U,V = 49.55 M/S
 SIGMA P.D.T = 5.03 %
 SIGMA U,V = 54.01 M/S
 LARGE SCALE
 SMALL SCALE

RANDOM PERTURBATION SCALING FACTOR = 1.000
 MAX. NUMBER OF 4-D TEST VIOLATIONS = 12
 4-D DIAGNOSTICS PRINT OPTION = 1

** PERCENT DEVIATIONS FROM 1976 US STANDARD ATMOSPHERE APPEAR BELOW PRESSURE, DENSITY AND TEMPERATURE VALUES **

HEIGHT (KM)	LAT (DEG)	WEST LON (DEG)	UNPERTURBED (MONTHLY MEAN)				MEAN PLUS PERTURBATIONS				THERMAL				PERTURBATION VALUES				
			PRES. (NT/ M**2)	DENS. (KG/ M**3)	TEMP (DEG KEL- VIN)	MEAN WIND (M/S)	PRES. (NT/ M**2)	DENS. (KG/ M**3)	TEMP (DEG KEL- VIN)	TOTAL WIND (M/S)	E-W N-S VERT.	E-W N-S VERT.	WIND SHEAR (M/S/KM)	P (%)	D (%)	T (%)	U M/S	V M/S	SIGM M/S
580.00	28.45	80.530	181E-060.277E-12	1084.	163	-9.0	173E-060.285E-12	1002.	183.	142.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.06
0			74.0%	82.0%	8.4%	0.88E+00	66.2%	87.7%	0.2%	-0.76			0.0	0.0	0.0	0.0	0.0	0.0	0.0
560.00	28.45	80.530	234E-060.369E-12	1084.	193	-18.0	229E-060.380E-12	1026.	195.	29.	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.06
0			75.8%	80.2%	8.4%	0.10E+01	71.8%	85.8%	2.6%	17.67			0.0	0.0	0.0	0.0	0.0	0.0	0.0
540.00	28.45	80.530	305E-060.494E-12	1083.	227.	-31.0	292E-060.522E-12	976.	197.	19.	0.5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	12.06
0			76.6%	77.9%	8.4%	0.11E+01	68.9%	87.7%	-2.3%	-1.62			0.0	0.0	0.0	0.0	0.0	0.0	0.0

520.00	28.45	80.530.402E-060.666E-12	1083.	264.	-51.0.398E-060.701E-12	1014.	244.	9.	0.6	-0.1	0.0	0.0	0.0	0.	12.06
0		76.8%	75.4%	8.4%	0.13E+01	75.0%	84.8%	1.4%	1.89		0.0	0.0	0.0	0.	SP
											0.0	0.0	0.0	0.	QBD
											0.0	0.0	0.0	0.	MAG
											-1.4	6.1	-7.5	-13.	35. RANS
											5.7	5.0	6.7	22.	15. SIGS
											0.4	-0.8	1.2	-7.	25. RANL
											2.1	1.3	1.8	20.	14. SIGL
											-1.0	5.4	-6.4	-20.	60. RANT
											6.1	5.2	6.9	30.	21. SIGT
500.00	28.45	80.530.532E-060.900E-12	1083.	304.	-80.0.591E-060.898E-12	1204.	266.	-65.	0.8	-0.2	0.0	0.0	0.0	0.	12.06
0		76.1%	72.6%	8.4%	0.14E+01	95.4%	20.46				0.0	0.0	0.0	0.	SP
											0.0	0.0	0.0	0.	QBD
											0.0	0.0	0.0	0.	MAG
											9.0	-1.0	10.0	-34.	6. RANS
											5.7	5.0	6.7	18.	11. SIGS
											2.0	0.8	1.2	-5.	9. RANL
											2.1	1.3	1.8	16.	10. SIGL
											11.0	-0.2	11.2	-39.	15. RANT
											6.1	5.2	6.9	24.	15. SIGT
480.00	28.45	80.530.711E-060.122E-11	1082.	343.	-120.0.753E-060.126E-11	1111.	284.	-103.	0.9	-0.3	0.0	0.0	0.0	0.	12.06
0		74.9%	69.9%	8.3%	0.15E+01	85.3%	12.18				0.0	0.0	0.0	0.	SP
											0.0	0.0	0.0	0.	QBD
											0.0	0.0	0.0	0.	MAG
											3.8	1.8	2.0	-49.	3. RANS
											5.7	5.0	6.7	15.	10. SIGS
											2.1	1.5	0.6	-10.	14. RANL
											2.1	1.3	1.8	14.	9. SIGL
											5.9	3.3	2.6	-59.	17. RANT
											6.1	5.2	6.9	21.	13. SIGT
460.00	28.45	80.530.956E-060.168E-11	1082.	375.	-173.0.101E-050.174E-11	1102.	328.	-169.	1.1	-0.5	0.0	0.0	0.0	0.	12.06
0		73.4%	67.2%	8.3%	0.16E+01	83.8%	-21.71				0.0	0.0	0.0	0.	SP
											0.0	0.0	0.0	0.	QBD
											0.0	0.0	0.0	0.	MAG
											5.2	3.0	2.2	-40.	5. RANS
											5.7	5.0	6.7	13.	7. SIGS
											0.8	1.1	-0.3	-7.	-1. RANL
											2.1	1.3	1.8	11.	6. SIGL
											6.0	4.1	1.9	-48.	4. RANT
											6.1	5.2	6.9	17.	9. SIGT
440.00	28.45	80.530.129E-050.231E-11	1081.	395.	-235.0.130E-050.244E-11	1027.	380.	-235.	1.2	-0.7	0.0	0.0	0.0	0.	12.06
0		71.5%	64.5%	8.3%	0.16E+01	72.8%	-24.78				0.0	0.0	0.0	0.	SP
											0.0	0.0	0.0	0.	QBD
											0.0	0.0	0.0	0.	MAG
											-2.2	3.7	-5.9	-13.	5. RANS
											5.7	5.0	6.7	11.	6. SIGS
											3.0	2.0	0.9	-2.	-5. RANL
											2.1	1.3	1.8	10.	6. SIGL
											0.8	5.8	-5.0	-15.	6. RANT

420.00	28.45	80.530.176E-050.319E-11	1080.	396.	-302.0.169E-050.322E-11	1027.	400.	-301.	1.3	-1.0	6.1	5.2	6.9	15.	8.	SIGT
0		69.1% 61.7% 8.3%	0.15E+01	62.1%	62.9%	3.0%	5.97				0.0	0.0	0.0	0.	0.	12.06
											0.0	0.0	0.0	0.	0.	SP
											0.0	0.0	0.0	0.	0.	OBD
											0.0	0.0	0.0	0.	0.	MAG
											-5.7	-0.7	-6.0	4.	7.	RANS
											5.7	5.0	6.7	10.	5.	SIGS
											2.6	1.4	1.1	-1.	-5.	RANL
											2.1	1.3	1.8	10.	4.	SIGL
											-4.2	0.7	-4.9	3.	1.	RANT
											6.1	5.2	6.9	14.	6.	SIGT
400.00	28.45	80.530.242E-050.446E-11	1078.	377.	-365.0.208E-050.425E-11	977.	377.	-361.	1.4	-1.3	0.0	0.0	0.0	0.	0.	12.06
0		66.6% 59.0% 8.3%	0.13E+01	43.3%	51.7%	-1.9%	4.99				0.0	0.0	0.0	0.	0.	SP
											0.0	0.0	0.0	0.	0.	OBD
											0.0	0.0	0.0	0.	0.	MAG
											-14.6	-4.2	-10.4	6.	11.	RANS
											5.7	5.0	6.7	10.	4.	SIGS
											0.6	-0.4	1.0	-6.	-6.	RANL
											2.1	1.3	1.8	9.	4.	SIGL
											-14.0	-4.6	-9.4	1.	4.	RANT
											6.1	5.2	6.9	13.	6.	SIGT
380.00	28.45	80.530.334E-050.628E-11	1076.	338.	-414.0.365E-050.639E-11	1156.	365.	-420.	1.3	-1.6	0.0	0.0	0.0	0.	0.	12.06
0		64.1% 56.6% 8.3%	0.11E+01	79.1%	59.3%	16.3%	0.00				0.0	0.0	0.0	0.	0.	SP
											0.0	0.0	0.0	0.	0.	OBD
											0.0	0.0	0.0	0.	0.	MAG
											8.4	1.7	6.7	24.	-2.	RANS
											5.7	5.0	6.7	8.	4.	SIGS
											0.8	0.0	0.8	4.	-4.	RANL
											2.1	1.3	1.8	7.	3.	SIGL
											9.1	1.7	7.4	27.	-6.	RANT
											6.1	5.2	6.9	11.	5.	SIGT
360.00	28.45	80.530.466E-050.895E-11	1074.	287.	-444.0.452E-050.912E-11	1019.	297.	-441.	1.2	-1.9	0.0	0.0	0.0	0.	0.	12.06
0		61.5% 54.1% 8.3%	0.90E+00	56.4%	57.1%	2.8%	-7.73				0.0	0.0	0.0	0.	0.	SP
											0.0	0.0	0.0	0.	0.	OBD
											0.0	0.0	0.0	0.	0.	MAG
											-4.6	0.3	-4.9	6.	2.	RANS
											5.7	5.0	6.7	6.	3.	SIGS
											1.4	1.6	-0.2	4.	1.	RANL
											2.1	1.3	1.8	6.	3.	SIGL
											-3.2	1.9	-5.1	9.	3.	RANT
											6.1	5.2	6.9	9.	4.	SIGT
340.00	28.45	80.530.657E-050.129E-10	1071.	233.	-451.0.731E-050.127E-10	1210.	242.	-449.	1.1	-2.1	0.0	0.0	0.0	0.	0.	12.06
0		59.0% 51.9% 8.3%	0.68E+00	77.1%	49.5%	22.4%	-11.93				0.0	0.0	0.0	0.	0.	SP
											0.0	0.0	0.0	0.	0.	OBD
											0.0	0.0	0.0	0.	0.	MAG
											10.6	-1.8	12.4	6.	-1.	RANS
											5.7	5.0	6.7	4.	2.	SIGS
											0.8	0.2	0.6	2.	3.	RANL
											2.1	1.3	1.8	4.	2.	SIGL
											11.4	-1.6	13.0	9.	2.	RANT
											6.1	5.2	6.9	6.	3.	SIGT
320.00	28.45	80.530.935E-050.189E-10	1066.	181.	439.0.107E-040.196E-10	1188.	184.	-440.	0.9	-2.2	0.0	0.0	0.0	0.	0.	12.06
0		56.4% 49.6% 8.4%	0.48E+00	79.6%	54.7%	20.9%	-32.20				0.0	0.0	0.0	0.	0.	SP
											0.0	0.0	0.0	0.	0.	OBD
											0.0	0.0	0.0	0.	0.	MAG

13.5	2.3	11.2	4.	-2.	RANS
5.7	5.0	6.7	3.	2.	SIGS
1.4	1.1	0.3	-1.	1.	RANL
2.1	1.3	1.8	3.	2.	SIGL
14.9	3.4	11.5	3.	0.	RANT
6.1	5.2	6.9	4.	2.	SIGT
					12.06
300.00	28.45	80.530	135E-040	282E-10	1059.
0			53.8%	47.3%	8.5%
			0.32E+00	0.142E-040	0.289E-10
			61.6%	56.0%	7.6%
			134.	-411.	0.8
			-11.26		
			0.0	0.0	0.0
			0.0	0.0	0.0
			0.0	0.0	0.0
			4.4	3.4	0.9
			5.7	5.0	6.7
			0.7	2.5	-1.
			2.1	1.3	1.8
			5.1	5.9	-0.8
			6.1	5.2	6.9
280.00	28.45	80.530	198E-040	430E-10	1050.
0			51.3%	44.9%	8.7%
			0.20E+00	0.199E-040	0.462E-10
			51.9%	55.7%	1.0%
			96.	-362.	0.6
			-8.51		
			0.0	0.0	0.0
			0.0	0.0	0.0
			0.0	0.0	0.0
			0.3	6.0	-5.6
			5.7	5.0	6.7
			0.1	1.5	-1.4
			2.1	1.3	1.8
			0.4	7.5	-7.1
			6.1	5.2	6.9
260.00	28.45	80.530	296E-040	674E-10	1037.
0			48.6%	42.1%	9.0%
			0.12E+00	0.288E-040	0.702E-10
			44.8%	48.2%	1.6%
			73.	-310.	0.5
			-3.67		
			0.0	0.0	0.0
			0.0	0.0	0.0
			0.0	0.0	0.0
			-3.0	3.2	-6.1
			5.7	5.0	6.7
			0.4	1.1	-0.7
			2.1	1.3	1.8
			-2.6	4.2	-6.8
			6.1	5.2	6.9
240.00	28.45	80.530	452E-040	109E-09	1018.
0			45.6%	38.6%	9.5%
			0.68E-01	0.462E-040	0.114E-09
			48.6%	45.6%	6.3%
			55.	-272.	0.4
			-6.40		
			0.0	0.0	0.0
			0.0	0.0	0.0
			0.0	0.0	0.0
			1.3	3.4	-2.1
			5.7	5.0	6.7
			0.8	1.6	-0.8
			2.1	1.3	1.8
			2.1	5.0	-2.9
			6.1	5.2	6.9
220.00	28.45	80.530	713E-040	184E-09	990.
0			42.1%	34.3%	10.1%
			0.36E-01	0.706E-040	0.195E-09
			40.8%	43.0%	2.0%
			37.	-230.	0.4
			-24.88		
			0.0	0.0	0.0
			0.0	0.0	0.0
			0.0	0.0	0.0
			-0.5	5.1	-5.7
			5.7	5.0	6.7
			-0.3	1.3	-1.7
			2.1	1.3	1.8
			-0.9	6.5	-7.4
			6.1	5.2	6.9

200.00	28.45	80.530.117E-030.326E-09	950.	24.	-177.0.119E-030.351E-09	896.	115.	-121.	0.3	-2.2	0.0	0.0	0.0	0.0	0.0	0.0	12.06
0		37.6%	28.4%	11.2%	0.16E-01	40.4%	38.2%	4.9%									0. SP
																	0. QBO
																	0. MAG
																	82. RANS
																	64. SIGS
																	26. RANL
																	59. SIGL
																	56. RANT
																	87. SIGT
																	11.86
180.00	28.45	80.530.201E-030.627E-09	889.	15.	-126.0.204E-030.677E-09	829.	-30.	-149.	0.2	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	0. SP
0		31.7%	20.7%	12.6%	0.55E-02	33.4%	30.4%	5.0%									0. QBO
																	0. MAG
																	7. RANS
																	62. SIGS
																	15. RANL
																	61. SIGL
																	22. RANT
																	87. SIGT
																	11.76
160.00	28.45	80.530.375E-030.137E-08	791.	9.	-80.0.370E-030.145E-08	738.	14.	-108.	0.2	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	0. SP
0		23.5%	11.3%	13.6%	0.17E-02	21.8%	17.3%	5.9%									0. QBO
																	0. MAG
																	14. RANS
																	59. SIGS
																	42. RANL
																	64. SIGL
																	28. RANT
																	87. SIGT
																	10.85
140.00	28.45	80.530.815E-030.398E-08	621.	13.	-40.0.885E-030.383E-08	697.	30.	-43.	0.1	-1.1	0.0	0.0	0.0	0.0	0.0	0.0	0. SP
0		13.2%	3.8%	10.9%	0.25E-02	22.8%	0.1%	24.5%									0. QBO
																	0. MAG
																	44. RANS
																	45. SIGS
																	47. RANL
																	52. SIGL
																	3. RANT
																	69. SIGT
																	10.75
120.00	28.45	80.530.268E-020.234E-07	365.	25.	-11.0.197E-020.227E-07	279.	-4.	64.	0.1	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0. SP
0		5.5%	5.1%	1.5%	0.20E-02	-22.6%	2.1%	-22.6%									0. QBO
																	0. MAG
																	81. RANS
																	32. SIGS
																	6. RANL
																	41. SIGL
																	75. RANT
																	52. SIGT
																	11.51
100.00	28.45	80.530.310E-010.566E-06	187.	28.	-2.0.306E-010.571E-06	183.	-23.	73.	-0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0. SP
0		-3.0%	0.9%	-4.1%	-0.49E-03	-4.3%	1.9%	-6.3%									0. QBO
																	0. MAG
																	66. RANS
																	5.3

80.00	28.45	80.530.109E+010.186E-04	203.	8.	-4.0.101E+010.183E-04	193.	9.	-1.	-0.3	-0.2	7.0	12.0	5.9	40.	33.	SIGS
0		3.2% 0.7% 2.4% 0.38E-03			-3.6% -0.6% -2.9%			-0.66			-6.5	-5.9	-0.7	-18.	9.	RANL
											11.2	9.7	4.7	54.	46.	SIGL
											-1.3	1.0	-2.2	-51.	75.	RANT
											13.2	15.4	7.5	67.	56.	SIGT
											0.5	0.6	-0.1	-3.	-4.	SP
											-0.8	-0.5	-0.2	-2.	0.	QBO
											1.0	0.6	0.2	2.	0.	MAG
											2.8	2.2	0.6	2.	-12.	RANS
											3.1	3.9	2.5	17.	13.	SIGS
											-8.6	-2.9	-5.6	0.	15.	RANL
											4.1	4.5	2.3	30.	24.	SIGL
											-5.8	-0.8	-5.0	2.	3.	RANT
											5.1	5.9	3.4	34.	27.	SIGT
60.00	28.45	80.530.227E+020.324E-03	244.	8.	0.0.224E+020.316E-03	246.	19.	-12.	0.7	0.0	0.1	-0.1	0.2	-1.	0.	SP
0		3.4% 4.7% -1.3% -0.21E-04			2.0% 2.0% -0.3%			-0.48			0.1	0.1	-0.2	4.	0.	QBO
											3.0	1.9	0.6	5.	1.	MAG
											-0.1	-2.1	2.0	2.	-5.	RANS
											2.9	2.8	1.8	9.	6.	SIGS
											-1.3	-0.5	-0.8	6.	-6.	RANL
											3.9	3.9	2.0	13.	6.	SIGL
											-1.4	-2.6	1.2	7.	-12.	RANT
											4.8	4.8	2.7	16.	9.	SIGT
40.00	28.45	80.530.305E+030.421E-02	253.	-7.	1.0.315E+030.433E-02	254.	-1.	-1.	0.7	0.0	0.1	0.1	0.0	-2.	1.	SP
0		6.4% 5.3% 1.1% 0.99E-04			9.7% 8.3% 1.3%			-0.11			1.2	1.1	0.1	-1.	-1.	QBO
											2.1	1.4	0.8	5.	2.	MAG
											-1.0	0.7	-1.7	-6.	2.	RANS
											1.9	1.8	1.0	5.	3.	SIGS
											2.9	1.1	1.8	14.	-2.	RANL
											2.8	2.4	1.1	11.	4.	SIGL
											1.9	1.8	0.1	8.	-1.	RANT
											3.4	3.0	1.5	12.	5.	SIGT
20.00	28.45	80.530.573E+040.941E-01	212.	44.	21.0.574E+040.933E-01	215.	39.	23.	-1.4	0.0	0.0	0.0	0.0	0.	0.	SP
0		3.6% 5.8% -2.1% -0.40E-02			3.8% 4.9% -0.8%			0.03			0.2	0.2	0.4	-3.	0.	QBO
											0.2	0.5	0.6	5.	1.	MAG
											0.3	-0.7	1.0	-2.	-1.	RANS
											0.4	0.6	0.5	2.	2.	SIGS
											-0.3	-0.4	0.0	0.	3.	RANL
											0.5	0.7	0.5	5.	2.	SIGL
											0.0	-1.0	1.0	-2.	2.	RANT
											0.6	0.9	0.8	5.	3.	SIGT
0.00	28.45	80.530.102E+060.118E+01	300.	-4.	1.0.102E+060.119E+01	297.	-2.	6.	2.4	-0.1	0.0	0.0	0.0	0.	0.	SP
0		0.3% -3.5% 4.0% 0.68E-03			0.5% -2.6% 3.1%			-1.19			0.0	0.0	0.0	0.	0.	QBO
											0.0	0.0	0.0	0.	0.	MAG
											0.2	0.2	0.0	0.	0.	RANS
											0.2	0.5	0.5	1.	2.	SIGS
											-0.1	0.7	-0.8	2.	6.	RANL
											0.2	0.5	0.5	4.	2.	SIGL
											0.1	0.9	-0.8	2.	6.	RANT
											0.3	0.7	0.7	4.	3.	SIGT

4. 4-D CONVERSION

4.1 Description

The world-wide meteorological data set developed for the 4-D model by Allied Research Associates (Spiegler and Fowler, 1972) was originally binary tapes labeled WW1A–WW3A. The files on these binary tapes were split up by many users into individual monthly binary or ASCII sequential files stored on their computers. These files, one per month, have now been converted to ASCII files which can be read by random access (or "direct access") I/O operations in the new GRAM-90.

Within each file are 3,490 records representing the values at individual grid points of latitude and longitude. These points are grouped into three grid areas: 288 points on the Northern Hemisphere equatorial (EQN) grid; 1,977 points on the Northern Hemisphere (National Meteorological Center, NMC) grid; and 1,225 points on the Southern Hemisphere (SH) grid. On the NMC grid, the data were computed at NMC points and are stored in the order given by the NMC grid table given in the SCIDAT9 data file which concludes this volume. For the other two grid areas, the data are given at 5° latitude-longitude intersections westward from the Greenwich Meridian to 5° E. The EQN grid covers the latitudes from 0° to 15° N. with points occurring in the following order: 1–4 = long. 0, lat. 0, 5, 10, 15; 5–8 = long. 5° W., lat. 0, 5, 10, 15; ...285–288 = long. 5° E., lat. 0, 5, 10, 15. The SH grid contains all data from 5° S. to the South Pole as follows: 1 = South Pole, 2–8 = long. 0, lat. –5 to –85; 19–35 = long. 5° W., lat. –5 to –85; ...1,209–1,225 = long. 5° E., lat. –5 to –85. It should be noted that the South Pole is given only once, as the first point of the SH data set.

Each record consists of 1,268 ASCII characters (formatted 208F6.2, 2F4.2, 3F4.0). The first 208 parameter values contain the thermodynamic data for a latitude-longitude grid point. The last five variable values are identifiers. The data are arranged by altitude level for each parameter; thus, the first 26 values contain the pressure means from the surface to 25 km and the next 26 values contain the pressure variances for the same levels. This pattern continues for the 26 levels of temperature means and variances, moisture means and variances, and density means and variances. Temperatures are in degrees Kelvin (K), pressures are in millibars (mb) (multiplied by 100 for use in GRAM-90, to give Newtons per square meter ($\text{N}\cdot\text{m}^{-2}$)), and densities are in grams per cubic meter ($\text{g}\cdot\text{m}^{-3}$) (divided by 1,000 for use in GRAM-90, to give kilograms per cubic meter ($\text{kg}\cdot\text{m}^{-3}$)). GRAM-90 does not use the moisture means and variances.

Variables 209 and 210 contain the latitude and longitude of the data grid point (in 10ths of a degree). The latitude is always positive (since the Southern Hemisphere is identified by grid), and the longitude is always west.

The last three values (variables 211–213) contain three identifier parameters. The first of these is the homogeneous moisture region in which the point lies, the second is the point number, and the third is the month. It should be noted that the 4-D points are numbered within the grid that contains them, and not by their location in the file. Thus, the point numbers run from 1–288 (EQN grid), 1–1,977 (NMC grid), and 1–1,225 (SH grid), not from 1–3,490.

The following JCL and FORTRAN code sequence is one example which has been used on MSFC's IBM 3090 computer to reconfigure the 4-D sequential data sets needed by previous GRAM versions into the direct access data sets required by this version of the GRAM-90. In this example, conversion is made from a sequential ASCII format version of a single-month data set to the ASCII direct access format. It should be noted that due to several previously identified errors in the April, June, and October 4-D data bases, most users may have incorrect versions of those months, which must be corrected or replaced before conversion to enable correct functioning. Corrected copies of or corrections to the data bases may be obtained from Mr. Dale Johnson, ES44, NASA MSFC, Huntsville, AL 35812.

4.2 Code

```
//CWEJ412C JOB (6ES551500466), 'JEFFRIES/5449136'
// MSGLEVEL=1,MSGCLASS=X,CLASS=A
/*JOBPARM F=9700,R=412
//****THE FOLLOWING STEP PREALLOCATES A DIRECT ACCESS DATA SET WHICH IS
//***LATER INVOKED, LINKED TO A UNIT AND MANIPULATED.
//***LATEST MOD: 22 MAY 1990
//STEPO EXEC PGM=IEFBR14
//DD1 DD DSN=CWEJ412.GRAMOD90.NDAT4D10.
//***NOTE: DSN MUST BE CHANGED FOR EACH NEWLY ALLOCATED DATA SET,
//*** MATCHED WITH THE ENTRY FOR FTO8FOO1 BELOW, AND BE COMPATABLE
//*** WITH THE SOURCE IN FTO7FOO1.
// DISP=(NEW,CATLG),UNIT=SYSDA.
// SPACE=(1269,(3490.0)).
//***NOTE: SPACE = BLKSIZE (I.E. # BYTES), # BLKS, # ADDNL BLKS.
// DCB=(RECFM=F,LRECL=1269,DSORG=DA)
//***THE FOLLOWING STEP COMPILES, LINKS AND RUNS THE PROGRAM CONV4D
//***WHICH IS INCLUDED IN THIS JCL STREAM.
//CONV4D EXEC VSF2CLG,PARM FORT='SDUMP(ISN)'
//FORT.SYSIN DD *
PROGRAM CONV4D
READS IN 4-D DATA TYPE IN MULTIRECORD FORMAT AND CONVERTS IT
TO A FORMAT SUITABLE FOR DIRECT (RANDOM) ACCESS.
LAST MOD: 22 MAY 1990
C
INTEGER DATA(213)
C
OPEN(8,ACCESS='DIRECT',FORM='FORMATTED',RECL=1269)
DD 10 I=1,3490
READ(7,8000,END=11) DATA
8000 FORMAT(3I8.21(10I8))
WRITE(8,8010,REC=1) DATA
8010 FORMAT(20B16.5I4)
10 CONTINUE
11 CONTINUE
END
/*
//GO.FTO7FOO1 DD DSN=CWEJ412.ATMOSMDL.NDATWW10(OCT),DISP=SHR
//***THE FOREGOING IS THE SOURCE FILE OF THE DATA TO BE CONVERTED.
//GO.FTO8FOO1 DD DSN=CWEJ412.GRAMOD90.NDAT4D10,DISP=SHR
//***THE FOREGOING IS THE TARGET FILE FOR THE CONVERTED DATA.
//
```

5. 4-D RECORD

The following example depicts the sequence and form (but not the GRAM-90 format) of the values of the variables found in each individual data record of a monthly 4-D data set. The depicted data record is record number 3,348 of the April data set, a record in the Southern Hemisphere (SH) grid with NMC point number of 1,083, as previously described.

	99340	87590	77060							
67630	59180	51620	44890	38890	33560	28790	24710	21200	18140	
15550	13330	11430	9800	8400	7200	6170	5280	4530	3880	
3320	0	0	9011	7299	7672	8427	9066	9344	9544	
9494	9171	8091	5716	4032	2463	1305	649	293	113	
74	48	31	20	21	30	37	0	0	27390	
26830	26370	25850	25280	24700	24090	23470	22850	22370	22290	
22210	22180	22190	22200	22200	22200	22150	22100	22050	21990	
21950	21910	21870	0	0	5224	5224	5644	6119	6350	
6585	6225	5684	5167	5191	7389	9975	9188	6004	3495	
1661	501	400	320	249	186	157	156	154	0	
0	440	300	170	100	60	40	25	16	10	
6	4	3	2	1	1	0	0	0	0	
0	0	0	0	0	0	0	30	30	30	
16	7	4	2	1	1	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	126360	113730	101810	91160	81570	72810	64920	
57730	51170	44830	38620	33250	28490	24420	20920	17930	15370	
13210	11350	9750	8370	7190	6170	5290	0	0	111165	
93850	84079	76084	66094	57201	45196	34378	25924	20865	22183	
22357	15149	7266	3107	1084	240	143	84	49	27	
17	12	9	0	0	550	3150	38	1083	4	

6. SCIDAT9 DATA BASE

6.1 Description

NMC Grid Data. This data segment gives the 4-D Northern Hemisphere point number and the dual index for the corresponding NMC location. The NMC grid locations form an octagonal array, centered on the North Pole. The points are at square grid locations on the polar projection used for the NMC grid. A conversion between the latitude and longitude (treated as polar coordinates on the flat NMC grid plane) and the NMC grid indices (treated as Cartesian coordinates on the projection plane) is accomplished by a polar to Cartesian coordinate transformation, via equations programmed into the 4-D model. The NMC grid data in the SCIDAT9 file merely establishes the equivalence between the sequential 4-D NMC point number and the 2-D x-y NMC grid point location. The NMC grid data constitute the first group of data in the SCIDAT9 file. The NMC grid data file contains 396 FORTRAN readable records with code "N" and 15 integers (A2, 1517 format) in each record.

Zonal Mean Data. The zonal mean data consist of 12 monthly sets of zonal mean values for pressure, density, temperature, and zonal wind, tabulated at 10° latitude intervals (from -90 to +90) and 5-km height increments (from 20 to 120 km) for each month. Prefix codes ZP, ZD, ZT, and ZU indicate pressure, density, temperature, and zonal wind, respectively. Each record contains the code, the month, the height in km, and the -90, -80, ..., 80, 90° latitude values of the parameter expressed as a four-digit integer, with an exponent common to all of the values in the field appearing at the end of the record. Thus, a value of 2,761 with an exponent at the end of the record of -6, would be the same as $2,761 \times 10^{-6} = 2.761 \times 10^{-3}$. Pressure data are in units of N/m², density values are in kg/m³, temperatures are in K, and zonal winds are in m/s. The zonal mean data group contains 1,008 FORTRAN readable records, with the code and 22 integer values in each record (format A2, 14, 15, 1916, 14).

Stationary Perturbations. The stationary perturbations are latitude-longitude dependent relative perturbations to be applied to the zonal mean values. Data for each of 12 months are given for both Northern and Southern Hemisphere latitudes. Prefix codes SP, SD, ST, SU, and SV indicate stationary perturbation values for pressure, density, temperature, zonal (eastward), or meridional (northward) wind components, respectively. Each record contains the code, the month, the height in km, the latitude (-80 to +80) in degrees, and then 18 values of stationary perturbations, in per mil (%/10) for the thermodynamic variables, and 0.1 m/s for the winds at longitude 180, 160° W., 140° W., ..., 140° E., 160° E. The monthly mean value y_m for parameter y at any latitude and longitude can be computed from the zonal mean value z_y , at the latitude, and the stationary perturbation s_y (in per mil) at the latitude and longitude, by the relation

$$y_m = z_y(1 + s_y / 1,000)$$

Note that the stationary perturbation values at 90° latitude are always zero. The stationary perturbation data consist of 15,300 FORTRAN readable records, with a code and 21 integer values (format A2, 2115).

Random Perturbation Data. Random perturbation magnitudes (standard deviations) are latitude dependent only. Prefix codes RP, RD, RT, RU, and RV indicate random perturbation magnitudes in pressure, density, temperature, zonal wind, and meridional wind components, respectively. Each random perturbation record has the code, the month and height in km, followed by 19 values of random perturbation magnitude, at 10° latitude increments (-90 to $+90$), followed by a common exponent value. These data give the relative standard deviations σ_p / \bar{p} , $\sigma_\rho / \bar{\rho}$, and σ_T / \bar{T} (in percent) for use in the random perturbation model. The code RU and RV data are similar, except that the wind perturbations are absolute deviations in m/s, and cover the height range 0–200 km, whereas the RP, RD, and RT data cover the 20–200-km range. Random perturbation magnitudes for the 0–25-km altitude range are provided by the 4-D data base for the thermodynamic variables. The random perturbation data consist of 1,596 FORTRAN readable records with a code and 22 integer values (A2, I4, I5, I16, I4) in each record.

Large Scale Fraction Data. From daily difference analysis described in section 2 of Justus et al. (1980), the fraction of the total variance (σ^2 from the random perturbation data) contained in the large scale perturbations has been determined as a fraction of height and latitude. The SCIDAT9 file contains the annual average fraction (expressed as per mil) of total variance contained in the large scale. Large scale and small scale magnitudes, σ_L and σ_s , are computed from the fractional data f_L in per mil (code P for pressure, density, and temperature, or code PW for winds) by the relations

$$\sigma_L = (\sqrt{f_L} / 1,000) \sigma_T$$

$$\sigma_s = (\sqrt{1-f_L} / 1,000) \sigma_T ,$$

where σ_T is the total perturbation magnitude. The code P and code PW data groups each contain 25 FORTRAN readable records, with code word P or PW, followed by 17 integer values (A2, I7) on each record.

Density-Velocity Correlations. Daily difference analysis (Justus et al., 1980) was also used to evaluate the cross correlations R_{up} and R_{vp} for use in the velocity perturbation model, described in section 2 of part I. Both large scale and small scale values of the density-velocity correlations were evaluated, and are given in the SCIDAT9 data file (codes CL and CS) in per mil (i.e., divide by 1,000 to get correlations in the range -1 to $+1$). The code CS and CL data consist of 50 FORTRAN readable records, with code word CS or CL, followed by 12 integer values (A2, I7) in each record.

Quasi-Biennial Oscillation (QBO) Data. The QBO data consist of height and latitude dependent amplitudes and phases for quasi-biennial variations in pressure (QP), density (QD), temperature (QT), and eastward and northward wind components (QU and QV, respectively). The amplitudes of the QBO wind components are in decimeters per second (0.1 m/s). The phases of all of the QBO parameters are measured in days after January 0, 1966, for the occurrence of the first maximum value. Since the period of the QBO variations is taken to be 870 days, the phases can vary from 0 to 870. Each QBO data record contains the code, the height in km, the amplitude and phase for 10° latitude, the amplitude and phase for 30° latitude, etc. out to the amplitude and

phase for 90° latitude. There are 80 FORTRAN readable records in the QBO data group. Each record contains 11 integer values, following a code word (QP, QD, QT, QU, or QV) in format A2, 1517.

The following is a listing of the entire SCIDAT9 data base, which is further described in section 4.3 of volume I (Justus et al., 1990).

6.2 DATA

DATE: 90/09/10
TIME: 15:23
PAGE: 1

DATASET: CWEU412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0				
1 N	1	15	1	2	16	1	3	17	1	4	18	1	5	19
1 N	1	6	1	7	21	1	8	22	1	9	23	1	10	24
1 N	1	11	1	12	26	1	13	27	1	14	28	1	15	29
1 N	1	16	1	17	31	1	18	32	1	19	33	1	20	14
2	2	21	2	22	16	2	23	17	2	24	18	2	25	19
2	2	26	2	27	21	2	28	22	2	29	23	2	30	24
2	2	31	2	32	26	2	33	27	2	34	28	2	35	29
2	2	36	2	37	31	2	38	32	2	39	33	2	40	34
2	2	41	3	42	14	3	43	15	3	44	16	3	45	17
3	3	46	3	47	19	3	48	20	3	49	21	3	50	22
3	3	51	3	52	24	3	53	25	3	54	26	3	55	27
3	3	56	3	57	29	3	58	30	3	59	31	3	60	32
3	3	61	3	62	34	3	63	35	3	64	12	4	65	13
4	4	66	4	67	15	4	68	16	4	69	17	4	70	18
4	4	71	4	72	20	4	73	21	4	74	22	4	75	23
4	4	76	4	77	25	4	78	26	4	79	27	4	80	28
4	4	81	4	82	30	4	83	31	4	84	32	4	85	33
4	4	86	4	87	35	4	88	36	4	89	11	5	90	12
5	5	91	5	92	14	5	93	15	5	94	16	5	95	17
5	5	96	5	97	19	5	98	20	5	99	21	5	100	22
5	5	101	5	102	24	5	103	25	5	104	26	5	105	27
5	5	106	5	107	29	5	108	30	5	109	31	5	110	32
5	5	111	5	112	34	5	113	35	5	114	36	5	115	37
5	5	116	6	117	11	6	118	12	6	119	13	6	120	14
6	6	121	6	122	16	6	123	17	6	124	18	6	125	19
6	6	126	6	127	21	6	128	22	6	129	23	6	130	24
6	6	126	6	127	21	6	128	22	6	129	23	6	130	24

DATE: 90/09/10
TIME: 15:23
PAGE: 3

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0				
1 N	261	23	10	262	24	10	263	25	10	264	26	10	265	27
10														
1 N	266	28	10	267	29	10	268	30	10	269	31	10	270	32
10														
1 N	271	33	10	272	34	10	273	35	10	274	36	10	275	37
10														
1 N	276	38	10	277	39	10	278	40	10	279	41	10	280	42
10														
1 N	281	5	11	282	6	11	283	7	11	284	8	11	285	9
11														
1 N	286	10	11	287	11	11	288	12	11	289	13	11	290	14
11														
1 N	291	15	11	292	16	11	293	17	11	294	18	11	295	19
11														
1 N	296	20	11	297	21	11	298	22	11	299	23	11	300	24
11														
1 N	301	25	11	302	26	11	303	27	11	304	28	11	305	29
11														
1 N	306	30	11	307	31	11	308	32	11	309	33	11	310	34
11														
1 N	311	35	11	312	36	11	313	37	11	314	38	11	315	39
11														
1 N	316	40	11	317	41	11	318	42	11	319	43	11	320	4
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1 N	321	5	12	322	6	12	323	7	12	324	8	12	325	9
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1 N	336	20	12	337	21	12	338	22	12	339	23	12	340	24
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1 N	351	35	12	352	36	12	353	37	12	354	38	12	355	39
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1 N	366	8	13	367	9	13	368	10	13	369	11	13	370	12
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1 N	376	18	13	377	19	13	378	20	13	379	21	13	380	22
13														
1 N	381	23	13	382	24	13	383	25	13	384	26	13	385	27
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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

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1 N	526	31	16	527	32	16	528	33	16	529	34	16	530	35
16														
1 N	531	36	16	532	37	16	533	38	16	534	39	16	535	40
16														
1 N	536	41	16	537	42	16	538	43	16	539	44	16	540	45
16														
1 N	541	46	16	542	47	16	543	1	17	544	2	17	545	3
17														
1 N	546	4	17	547	5	17	548	6	17	549	7	17	550	8
17														
1 N	551	9	17	552	10	17	553	11	17	554	12	17	555	13
17														
1 N	556	14	17	557	15	17	558	16	17	559	17	17	560	18
17														
1 N	561	19	17	562	20	17	563	21	17	564	22	17	565	23
17														
1 N	566	24	17	567	25	17	568	26	17	569	27	17	570	28
17														
1 N	571	29	17	572	30	17	573	31	17	574	32	17	575	33
17														
1 N	576	34	17	577	35	17	578	36	17	579	37	17	580	38
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1 N	581	39	17	582	40	17	583	41	17	584	42	17	585	43
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1 N	586	44	17	587	45	17	588	46	17	589	47	17	590	1
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1 N	591	2	18	592	3	18	593	4	18	594	5	18	595	6
18														
1 N	596	7	18	597	8	18	598	9	18	599	10	18	600	11
18														
1 N	601	12	18	602	13	18	603	14	18	604	15	18	605	16
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1 N	606	17	18	607	18	18	608	19	18	609	20	18	610	21
18														
1 N	611	22	18	612	23	18	613	24	18	614	25	18	615	26
18														
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18														
1 N	621	32	18	622	33	18	623	34	18	624	35	18	625	36
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1 N	626	37	18	627	38	18	628	39	18	629	40	18	630	41
18														
1 N	631	42	18	632	43	18	633	44	18	634	45	18	635	46
18														
1 N	636	47	18	637	1	19	638	2	19	639	3	19	640	4
19														
1 N	641	5	19	642	6	19	643	7	19	644	8	19	645	9
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 N	661	25	19	662	26	19	663	27	19	664	28	19	665	29
1 N	666	30	19	667	31	19	668	32	19	669	33	19	670	34
1 N	671	35	19	672	36	19	673	37	19	674	38	19	675	39
1 N	676	40	19	677	41	19	678	42	19	679	43	19	680	44
1 N	681	45	19	682	46	19	683	47	19	684	1	20	685	2
1 N	686	3	20	687	4	20	688	5	20	689	6	20	690	7
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1 N	701	18	20	702	19	20	703	20	20	704	21	20	705	22
1 N	706	23	20	707	24	20	708	25	20	709	26	20	710	27
1 N	711	28	20	712	29	20	713	30	20	714	31	20	715	32
1 N	716	33	20	717	34	20	718	35	20	719	36	20	720	37
1 N	721	38	20	722	39	20	723	40	20	724	41	20	725	42
1 N	726	43	20	727	44	20	728	45	20	729	46	20	730	47
1 N	731	1	21	732	2	21	733	3	21	734	4	21	735	5
1 N	736	6	21	737	7	21	738	8	21	739	9	21	740	10
1 N	741	11	21	742	12	21	743	13	21	744	14	21	745	15
1 N	746	16	21	747	17	21	748	18	21	749	19	21	750	20
1 N	751	21	21	752	22	21	753	23	21	754	24	21	755	25
1 N	756	26	21	757	27	21	758	28	21	759	29	21	760	30
1 N	761	31	21	762	32	21	763	33	21	764	34	21	765	35
1 N	766	36	21	767	37	21	768	38	21	769	39	21	770	40
1 N	771	41	21	772	42	21	773	43	21	774	44	21	775	45
1 N	776	46	21	777	47	21	778	1	22	779	2	22	780	3

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 N	786	9	22	787	10	22	788	11	22	789	12	22	790	13
22														
1 N	791	14	22	792	15	22	793	16	22	794	17	22	795	18
22														
1 N	796	19	22	797	20	22	798	21	22	799	22	22	800	23
22														
1 N	801	24	22	802	25	22	803	26	22	804	27	22	805	28
22														
1 N	806	29	22	807	30	22	808	31	22	809	32	22	810	33
22														
1 N	811	34	22	812	35	22	813	36	22	814	37	22	815	38
22														
1 N	816	39	22	817	40	22	818	41	22	819	42	22	820	43
22														
1 N	821	44	22	822	45	22	823	46	22	824	47	22	825	1
23														
1 N	826	2	23	827	3	23	828	4	23	829	5	23	830	6
23														
1 N	831	7	23	832	8	23	833	9	23	834	10	23	835	11
23														
1 N	836	12	23	837	13	23	838	14	23	839	15	23	840	16
23														
1 N	841	17	23	842	18	23	843	19	23	844	20	23	845	21
23														
1 N	846	22	23	847	23	23	848	24	23	849	25	23	850	26
23														
1 N	851	27	23	852	28	23	853	29	23	854	30	23	855	31
23														
1 N	856	32	23	857	33	23	858	34	23	859	35	23	860	36
23														
1 N	861	37	23	862	38	23	863	39	23	864	40	23	865	41
23														
1 N	866	42	23	867	43	23	868	44	23	869	45	23	870	46
23														
1 N	871	47	23	872	1	24	873	2	24	874	3	24	875	4
24														
1 N	876	5	24	877	6	24	878	7	24	879	8	24	880	9
24														
1 N	881	10	24	882	11	24	883	12	24	884	13	24	885	14
24														
1 N	886	15	24	887	16	24	888	17	24	889	18	24	890	19
24														
1 N	891	20	24	892	21	24	893	22	24	894	23	24	895	24
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1 N	896	25	24	897	25	24	898	27	24	899	28	24	900	29
24														
1 N	901	30	24	902	31	24	903	32	24	904	33	24	905	34
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START COL	1	2	3	4	5	6	7	8	9	0				
1 N	1041	29	27	1042	30	27	1043	31	27	1044	32	27	1045	33
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1 N	1051	39	27	1052	40	27	1053	41	27	1054	42	27	1055	43
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1 N	1056	44	27	1057	45	27	1058	46	27	1059	47	27	1060	1
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1 N	1061	2	28	1062	3	28	1063	4	28	1064	5	28	1065	6
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1 N	1066	7	28	1067	8	28	1068	9	28	1069	10	28	1070	11
28														
1 N	1071	12	28	1072	13	28	1073	14	28	1074	15	28	1075	16
28														
1 N	1076	17	28	1077	18	28	1078	19	28	1079	20	28	1080	21
28														
1 N	1081	22	28	1082	23	28	1083	24	28	1084	25	28	1085	26
28														
1 N	1086	27	28	1087	28	28	1088	29	28	1089	30	28	1090	31
28														
1 N	1091	32	28	1092	33	28	1093	34	28	1094	35	28	1095	36
28														
1 N	1096	37	28	1097	38	28	1098	39	28	1099	40	28	1100	41
28														
1 N	1101	42	28	1102	43	28	1103	44	28	1104	45	28	1105	46
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1 N	1106	47	28	1107	1	29	1108	2	29	1109	3	29	1110	4
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1 N	1111	5	29	1112	6	29	1113	7	29	1114	8	29	1115	9
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1 N	1116	10	29	1117	11	29	1118	12	29	1119	13	29	1120	14
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1 N	1121	15	29	1122	16	29	1123	17	29	1124	18	29	1125	19
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1 N	1146	40	29	1147	41	29	1148	42	29	1149	43	29	1150	44
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1 N	1156	3	30	1157	4	30	1158	5	30	1159	6	30	1160	7
30														
1 N	1161	8	30	1162	9	30	1163	10	30	1164	11	30	1165	12
30														
1 N	1166	13	30	1167	14	30	1168	15	30	1169	16	30	1170	17
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 N	1311	17	33	1312	18	33	1313	19	33	1314	20	33	1315	21
	33													
1 N	1316	22	33	1317	23	33	1318	24	33	1319	25	33	1320	26
	33													
1 N	1321	27	33	1322	28	33	1323	29	33	1324	30	33	1325	31
	33													
1 N	1326	32	33	1327	33	33	1328	34	33	1329	35	33	1330	36
	33													
1 N	1331	37	33	1332	38	33	1333	39	33	1334	40	33	1335	41
	33													
1 N	1336	42	33	1337	43	33	1338	44	33	1339	45	33	1340	46
	33													
1 N	1341	47	33	1342	1	34	1343	2	34	1344	3	34	1345	4
	34													
1 N	1346	5	34	1347	6	34	1348	7	34	1349	8	34	1350	9
	34													
1 N	1351	10	34	1352	11	34	1353	12	34	1354	13	34	1355	14
	34													
1 N	1356	15	34	1357	16	34	1358	17	34	1359	18	34	1360	19
	34													
1 N	1361	20	34	1362	21	34	1363	22	34	1364	23	34	1365	24
	34													
1 N	1366	25	34	1367	26	34	1368	27	34	1369	28	34	1370	29
	34													
1 N	1371	30	34	1372	31	34	1373	32	34	1374	33	34	1375	34
	34													
1 N	1376	35	34	1377	36	34	1378	37	34	1379	38	34	1380	39
	34													
1 N	1381	40	34	1382	41	34	1383	42	34	1384	43	34	1385	44
	34													
1 N	1386	45	34	1387	46	34	1388	47	34	1389	1	35	1390	2
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1 N	1391	3	35	1392	4	35	1393	5	35	1394	6	35	1395	7
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1 N	1401	13	35	1402	14	35	1403	15	35	1404	16	35	1405	17
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1 N	1406	18	35	1407	19	35	1408	20	35	1409	21	35	1410	22
	35													
1 N	1411	23	35	1412	24	35	1413	25	35	1414	26	35	1415	27
	35													
1 N	1416	28	35	1417	29	35	1418	30	35	1419	31	35	1420	32
	35													
1 N	1421	33	35	1422	34	35	1423	35	35	1424	36	35	1425	37
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DATESET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 N	1441	6	36	1442	7	36	1443	8	36	1444	9	36	1445	10
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1 N	1446	11	36	1447	12	36	1448	13	36	1449	14	36	1450	15
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1 N	1451	16	36	1452	17	36	1453	18	36	1454	19	36	1455	20
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1 N	1456	21	36	1457	22	36	1458	23	36	1459	24	36	1460	25
36														
1 N	1461	26	36	1462	27	36	1463	28	36	1464	29	36	1465	30
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1 N	1466	31	36	1467	32	36	1468	33	36	1469	34	36	1470	35
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1 N	1471	36	36	1472	37	36	1473	38	36	1474	39	36	1475	40
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1 N	1476	41	36	1477	42	36	1478	43	36	1479	44	36	1480	45
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1 N	1481	46	36	1482	47	36	1483	1	37	1484	2	37	1485	3
37														
1 N	1486	4	37	1487	5	37	1488	6	37	1489	7	37	1490	8
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1 N	1491	9	37	1492	10	37	1493	11	37	1494	12	37	1495	13
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1 N	1531	3	38	1532	4	38	1533	5	38	1534	6	38	1535	7
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1 N	1536	8	38	1537	9	38	1538	10	38	1539	11	38	1540	12
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1 N	1541	13	38	1542	14	38	1543	15	38	1544	16	38	1545	17
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1 N	1546	18	38	1547	19	38	1548	20	38	1549	21	38	1550	22
38														
1 N	1551	23	38	1552	24	38	1553	25	38	1554	26	38	1555	27
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DATASET: CWEJ412.GRAMOD90.DATA
 MEMBER: SCIDAT9

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	38													
1 N	1571	43	38	1572	44	38	1573	45	38	1574	46	38	1575	3
	39													
1 N	1576	4	39	1577	5	39	1578	6	39	1579	7	39	1580	8
	39													
1 N	1581	9	39	1582	10	39	1583	11	39	1584	12	39	1585	13
	39													
1 N	1586	14	39	1587	15	39	1588	16	39	1589	17	39	1590	18
	39													
1 N	1591	19	39	1592	20	39	1593	21	39	1594	22	39	1595	23
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1 N	1596	24	39	1597	25	39	1598	26	39	1599	27	39	1600	28
	39													
1 N	1601	29	39	1602	30	39	1603	31	39	1604	32	39	1605	33
	39													
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1 N	1621	7	40	1622	8	40	1623	9	40	1624	10	40	1625	11
	40													
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	40													
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1 N	1656	42	40	1657	43	40	1658	44	40	1659	5	41	1660	6
	41													
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	41													
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1 N	1671	17	41	1672	18	41	1673	19	41	1674	20	41	1675	21
	41													
1 N	1676	22	41	1677	23	41	1678	24	41	1679	25	41	1680	26
	41													
1 N	1681	27	41	1682	28	41	1683	29	41	1684	30	41	1685	31
	41													
1 N	1686	32	41	1687	33	41	1688	34	41	1689	35	41	1690	36
	41													

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1 N	1821	27	45	1822	28	45	1823	29	45	1824	30	45	1825	31
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1 N	1826	32	45	1827	33	45	1828	34	45	1829	35	45	1830	36
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1 N	1831	37	45	1832	38	45	1833	39	45	1834	40	46	1835	41
46														
1 N	1836	12	46	1837	13	46	1838	14	46	1839	15	46	1840	16
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1 N	1841	17	46	1842	18	46	1843	19	46	1844	20	46	1845	21
46														
1 N	1846	22	46	1847	23	46	1848	24	46	1849	25	46	1850	26
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1 N	1851	27	46	1852	28	46	1853	29	46	1854	30	46	1855	31
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1 N	1856	32	46	1857	33	46	1858	34	46	1859	35	46	1860	36
46														
1 N	1861	37	46	1862	38	46	1863	39	47	1864	40	47	1865	41
47														
1 N	1866	14	47	1867	15	47	1868	16	47	1869	17	47	1870	18
47														
1 N	1871	19	47	1872	20	47	1873	21	47	1874	22	47	1875	23
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1 N	1876	24	47	1877	25	47	1878	26	47	1879	27	47	1880	28
47														
1 N	1881	29	47	1882	30	47	1883	31	47	1884	32	47	1885	33
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1 N	1886	34	47	1887	35	47	1888	36	47	1889	37	47	1890	38
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1 N	1891	13	48	1892	14	48	1893	15	48	1894	16	48	1895	17
48														
1 N	1896	18	48	1897	19	48	1898	20	48	1899	21	48	1900	22
48														
1 N	1901	23	48	1902	24	48	1903	25	48	1904	26	48	1905	27
48														
1 N	1906	28	48	1907	29	48	1908	30	48	1909	31	48	1910	32
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1 N	1911	33	48	1912	34	48	1913	35	48	1914	36	48	1915	37
49														
1 N	1916	14	49	1917	15	49	1918	16	49	1919	17	49	1920	18
49														
1 N	1921	19	49	1922	20	49	1923	21	49	1924	22	49	1925	23
49														
1 N	1926	24	49	1927	25	49	1928	26	49	1929	27	49	1930	28
49														
1 N	1931	29	49	1932	30	49	1933	31	49	1934	32	49	1935	29
49														
1 N	1936	34	49	1937	35	49	1938	36	50	1939	37	50	1940	30
50														
1 N	1941	17	50	1942	18	50	1943	19	50	1944	20	50	1945	31
50														
1 N	1946	22	50	1947	23	50	1948	24	50	1949	25	50	1950	32
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1 N	1956	32	50	1957	33	50	1958	34	50	1959	15	51	1960	16			
51																	
1 N	1961	17	51	1962	18	51	1963	19	51	1964	20	51	1965	21			
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1 N	1966	22	51	1967	23	51	1968	24	51	1969	25	51	1970	26			
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1 N	1971	27	51	1972	28	51	1973	29	51	1974	30	51	1975	31			
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1 N	1976	32	51	1977	33	51	0	0	0	0	0	0	0	0			
0																	
1 ZP	1	20	5561	5562	5567	5581	5623	5662	5674	5645	5612	5599	5617	5590	5509	5380	518
7	4950	4706	4510	4444	0												
1 ZP	1	25	2704	2700	2689	2672	2650	2623	2589	2552	2522	2507	2515	2515	2503	2469	238
7	2258	2115	1994	1954	0												
1 ZP	1	30	1333	1330	1323	1310	1285	1257	1227	1200	1181	1173	1178	1179	1175	1157	111
3	1042	963	897	874	0												
1 ZP	1	35	6842	6818	6746	6650	6471	6261	6057	5880	5770	5722	5755	5744	5705	5588	534
5	4986	4592	4266	4157	-1												
1 ZP	1	40	3644	3624	3564	3495	3379	3241	3106	2994	2927	2904	2924	2914	2877	2791	264
7	2461	2264	2099	2044	-1												
1 ZP	1	45	2002	1986	1937	1889	1812	1726	1640	1570	1527	1517	1532	1530	1504	1443	134
9	1245	1141	1053	1024	-1												
1 ZP	1	50	1116	1104	1068	1034	984	929	877	836	811	806	817	817	798	757	69
7	639	585	538	523	-1												
1 ZP	1	55	6207	6124	5872	5635	5306	4953	4647	4418	4303	4296	4355	4329	4180	3919	357
4	3270	3023	2791	2714	-2												
1 ZP	1	60	3398	3340	3167	3006	2779	2564	2395	2289	2252	2255	2275	2227	2114	1947	176
2	1623	1510	1406	1372	-2												
1 ZP	1	65	1781	1745	1637	1537	1401	1272	1181	1138	1131	1142	1143	1105	1034	943	85
6	799	753	712	698	-2												
1 ZP	1	70	8838	8642	8039	7483	6738	6027	5607	5438	5447	5458	5486	5293	4900	4439	404
8	3804	3604	3427	3371	-3												
1 ZP	1	75	4038	3938	3626	3361	3010	2688	2526	2471	2479	2489	2516	2434	2268	2072	191
1	1811	1716	1639	1614	-3												
1 ZP	1	80	1649	1609	1481	1383	1263	1158	1116	1105	1105	1108	1132	1100	1039	960	89
6	859	815	779	767	-3												
1 ZP	1	85	6450	6353	6036	5702	5356	5060	4981	4961	4947	4957	4973	4885	4658	4349	405
9	3815	3594	3399	3338	-4												
1 ZP	1	90	2136	2126	2089	2058	2032	2024	2063	2099	2093	2088	2085	2082	2024	1944	184
8	1747	1641	1540	1510	-4												
1 ZP	1	95	7115	7139	7216	7316	7489	7663	7923	8183	8200	8201	8254	8206	8137	7976	760
3	7266	6701	6214	6083	-5												
1 ZP	1	100	2619	2648	2750	2870	2994	3125	3244	3360	3378	3378	3395	3370	3382	3365	326
3	3177	2936	2722	2665	-5												
1 ZP	1	105	1177	1191	1247	1309	1351	1397	1424	1452	1455	1453	1449	1433	1450	1459	143
9	1426	1336	1254	1233	-5												
1 ZP	1	110	6349	6402	6616	6831	6910	6997	6978	6962	6899	6820	6770	6694	6774	6850	683
7	6846	6553	6274	6203	-6												
1 ZP	1	115	3835	3851	3921	3985	3980	3972	3916	3858	3797	3734	3692	3650	3665	3684	367
5	3672	3578	3488	3465	-6												

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START COL	1	2	3	4	5	6	7	8	9	0								
1	ZP	1	120	2524	2527	2540	2551	2538	2521	2484	2445	2403	2363	2334	2307	2294	2282	226
2	2243	2210	2180	2171	-6													
1	ZP	2	20	5358	5373	5420	5514	5623	5692	5695	5650	5601	5593	5624	5593	5514	5391	521
9	5009	4777	4578	4512	0													
1	ZP	2	25	2581	2583	2587	2613	2632	2628	2596	2553	2517	2503	2514	2514	2501	2470	240
5	2302	2175	2069	2034	0													
1	ZP	2	30	1257	1256	1253	1262	1263	1252	1230	1202	1181	1173	1179	1179	1173	1152	111
5	1063	1001	948	930	0													
1	ZP	2	35	6342	6329	6292	6324	6286	6192	6060	5909	5790	5750	5793	5786	5720	5550	530
6	5043	4741	4464	4372	-1													
1	ZP	2	40	3310	3297	3258	3267	3240	3179	3099	3017	2958	2942	2969	2962	2906	2784	261
7	2464	2298	2150	2101	-1													
1	ZP	2	45	1780	1769	1736	1736	1717	1680	1629	1586	1557	1553	1575	1568	1527	1444	133
4	1238	1141	1061	1034	-1													
1	ZP	2	50	973	965	939	936	922	898	868	845	832	834	849	842	812	759	69
1	634	582	541	527	-1													
1	ZP	2	55	5307	5247	5065	5017	4906	4744	4575	4458	4423	4455	4541	4480	4272	3949	356
5	3272	3037	2846	2783	-2													
1	ZP	2	60	2847	2806	2683	2635	2535	2434	2344	2303	2301	2324	2362	2298	2163	1968	176
8	1642	1552	1480	1456	-2													
1	ZP	2	65	1469	1442	1362	1323	1257	1194	1155	1146	1148	1159	1175	1135	1062	959	86
2	808	774	745	735	-2													
1	ZP	2	70	7191	7049	6614	6365	5975	5640	5496	5490	5520	5535	5607	5395	5007	4518	411
1	3935	3870	3798	3777	-3													
1	ZP	2	75	3264	3193	2974	2856	2667	2528	2488	2499	2511	2518	2567	2483	2318	2108	193
9	1880	1860	1829	1821	-3													
1	ZP	2	80	1350	1321	1231	1190	1138	1106	1104	1109	1109	1114	1149	1124	1061	973	90
6	891	880	866	863	-3													
1	ZP	2	85	5369	5320	5160	5027	4883	4826	4871	4863	4847	4856	4900	4859	4654	4333	406
1	3958	3851	3753	3722	-4													
1	ZP	2	90	1912	1909	1900	1896	1924	1966	2028	2045	2046	2045	2069	2065	1993	1894	180
1	1773	1719	1670	1653	-4													
1	ZP	2	95	6676	6703	6797	6916	7087	7268	7540	7810	7949	8065	8071	8003	7828	7590	740
2	7239	6814	6449	6351	-5													
1	ZP	2	100	2536	2562	2658	2770	2851	2941	3061	3178	3277	3358	3341	3289	3228	3146	309
7	3062	2866	2692	2647	-5													
1	ZP	2	105	1145	1159	1210	1266	1282	1302	1337	1370	1413	1448	1434	1410	1388	1361	135
4	1352	1275	1205	1187	-5													
1	ZP	2	110	6113	6163	6365	6570	6541	6524	6546	6569	6694	6803	6715	6602	6544	6485	649
2	6519	6261	6013	5950	-6													
1	ZP	2	115	3655	3672	3743	3810	3774	3737	3705	3674	3684	3694	3649	3604	3583	3565	356
5	3569	3484	3401	3380	-6													
1	ZP	2	120	2395	2399	2416	2429	2416	2400	2377	2353	2337	2321	2299	2278	2261	2246	223
3	2220	2192	2166	2159	-6													
1	ZP	3	20	5048	5089	5213	5373	5536	5647	5674	5655	5618	5602	5626	5598	5525	5425	529
9	5154	4992	4848	4800	0													
1	ZP	3	25	2356	2373	2425	2504	2568	2599	2588	2560	2533	2520	2527	2527	2514	2489	244
4	2385	2316	2247	2224	0													
1	ZP	3	30	1099	1108	1135	1179	1212	1228	1223	1209	1194	1188	1192	1190	1182	1161	113
4	1105	1078	1049	1040	0													
1	ZP	3	35	5311	5359	5502	5742	5899	5995	5983	5940	5874	5845	5875	5853	5778	5620	542
7	5261	5134	5026	4990	-1													

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1	1102	1085	1072	1068	-2													
1	ZP	4	70	3420	3451	3553	3822	4189	4702	5100	5368	5451	5461	5523	5480	5478	5495	542
8	5284	5180	5095	5069	-3													
1	ZP	4	75	1662	1670	1701	1810	1943	2156	2324	2431	2454	2443	2487	2502	2524	2546	252
9	2474	2436	2393	2380	-3													
1	ZP	4	80	801	802	804	843	907	990	1043	1077	1086	1079	1108	1119	1135	1143	113
7	1118	1088	1067	1061	-3													
1	ZP	4	85	3652	3685	3790	3960	4206	4461	4615	4752	4778	4725	4725	4741	4785	4819	483
1	4844	4842	4826	4827	-4													
1	ZP	4	90	1559	1574	1622	1709	1799	1890	1958	2011	2032	2020	2006	2002	1997	1976	194
5	1928	1905	1865	1858	-4													
1	ZP	4	95	6212	6270	6479	6735	6948	7182	7460	7691	7881	8011	7950	7856	7665	7462	726
4	7083	6803	6550	6483	-5													
1	ZP	4	100	2565	2592	2694	2814	2856	2912	3015	3103	3242	3352	3325	3278	3156	3028	291
0	2804	2657	2527	2493	-5													
1	ZP	4	105	1152	1163	1205	1252	1251	1256	1288	1317	1387	1447	1441	1428	1380	1330	128
3	1241	1181	1128	1114	-5													
1	ZP	4	110	5845	5884	6041	6205	6137	6085	6145	6206	6491	6755	6780	6786	6651	6517	639
3	6283	6077	5875	5825	-6													
1	ZP	4	115	3353	3367	3424	3481	3455	3433	3440	3449	3544	3639	3666	3693	3675	3657	363
2	3608	3542	3474	3457	-6													
1	ZP	4	120	2149	2155	2178	2201	2203	2205	2212	2219	2247	2275	2290	2306	2312	2318	231
4	2309	2292	2274	2269	-6													
1	ZP	5	20	4246	4346	4646	4990	5288	5486	5593	5643	5643	5639	5669	5669	5645	5612	557
7	5562	5566	5573	5575	0													
1	ZP	5	25	1726	1793	1994	2216	2402	2513	2556	2565	2556	2554	2571	2583	2587	2588	259
2	2605	2625	2643	2650	0													
1	ZP	5	30	720	754	856	970	1088	1164	1200	1211	1210	1211	1220	1227	1228	1226	122
8	1238	1253	1267	1272	0													
1	ZP	5	35	3245	3395	3846	4407	5000	5503	5789	5931	5966	5976	6023	6043	6050	6033	604
6	6101	6183	6258	6282	-1													
1	ZP	5	40	1547	1614	1816	2073	2380	2683	2890	3008	3052	3062	3086	3090	3098	3103	311
5	3144	3187	3222	3233	-1													
1	ZP	5	45	777	808	903	1023	1179	1357	1490	1571	1601	1611	1626	1630	1640	1653	166
4	1681	1705	1725	1731	-1													
1	ZP	5	50	408	422	466	522	600	701	781	832	851	857	867	872	881	892	90
2	913	930	942	946	-1													
1	ZP	5	55	2136	2210	2432	2697	3048	3604	4068	4368	4486	4527	4581	4618	4679	4766	484
7	4933	5055	5148	5179	-2													
1	ZP	5	60	1102	1139	1249	1375	1537	1807	2060	2237	2309	2330	2353	2360	2397	2454	251
8	2585	2680	2749	2771	-2													
1	ZP	5	65	554	572	627	689	761	883	1009	1096	1129	1150	1159	1164	1188	1225	126
8	1314	1370	1410	1424	-2													
1	ZP	5	70	2750	2834	3098	3399	3727	4235	4777	5154	5254	5280	5417	5509	5636	5795	603
5	6308	6611	6843	6921	-3													
1	ZP	5	75	1348	1385	1502	1643	1766	1964	2168	2302	2324	2331	2416	2481	2541	2609	273
3	2887	3042	3151	3187	-3													
1	ZP	5	80	660	674	717	776	836	908	971	1013	1021	1024	1067	1094	1113	1126	116
6	1229	1286	1326	1340	-3													
1	ZP	5	85	3045	3112	3322	3556	3852	4127	4356	4541	4602	4587	4607	4653	4670	4681	482
4	5094	5352	5522	5584	-4													

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1 ZP	5	90	1401	1426	1507	1583	1699	1795	1879	1926	1953	1940	1947	1956	1920	1859	185
9 1901	1949	1956	1963	-4													
1 ZP	5	95	5799	5880	6172	6531	6825	7148	7412	7605	7744	7803	7714	7608	7327	7044	695
5 6872	6738	6625	6594	-5													
1 ZP	5	100	2511	2547	2681	2837	2890	2957	3037	3093	3206	3285	3237	3173	3016	2857	277
2 2694	2584	2488	2462	-5													
1 ZP	5	105	1150	1165	1221	1283	1278	1278	1296	1307	1371	1422	1410	1390	1332	1274	124
3 1215	1164	1117	1105	-5													
1 ZP	5	110	5771	5821	6023	6235	6141	6067	6081	6094	6369	6622	6642	6647	6509	6374	631
7 6269	6096	5925	5882	-6													
1 ZP	5	115	3220	3239	3313	3390	3358	3330	3334	3340	3444	3547	3588	3629	3626	3624	362
9 3632	3582	3527	3515	-6													
1 ZP	5	120	2026	2032	2056	2083	2092	2102	2115	2129	2167	2206	2234	2264	2282	2300	231
3 2323	2313	2300	2296	-6													
1 ZP	6	20	3900	4012	4348	4795	5197	5457	5591	5663	5675	5664	5690	5715	5734	5748	574
4 5750	5767	5788	5795	0													
1 ZP	6	25	1518	1590	1807	2082	2338	2496	2557	2578	2575	2572	2589	2609	2636	2662	268
9 2718	2748	2776	2785	0													
1 ZP	6	30	620	655	761	899	1041	1147	1198	1216	1217	1216	1228	1240	1253	1270	128
8 1310	1333	1354	1361	0													
1 ZP	6	35	2774	2934	3414	4025	4699	5349	5745	5928	5973	5974	6031	6083	6171	6276	639
7 6551	6697	6819	6860	-1													
1 ZP	6	40	1338	1411	1632	1900	2210	2570	2845	2994	3037	3039	3064	3093	3152	3224	331
1 3412	3510	3579	3602	-1													
1 ZP	6	45	682	717	822	945	1091	1289	1459	1557	1584	1585	1601	1622	1663	1713	177
1 1838	1902	1944	1958	-1													
1 ZP	6	50	363	380	429	488	556	664	763	823	837	839	848	864	890	922	96
0 1004	1046	1075	1084	-1													
1 ZP	6	55	1909	1993	2247	2536	2842	3401	3970	4312	4398	4411	4468	4564	4720	4922	518
1 5465	5753	5955	6022	-2													
1 ZP	6	60	1001	1044	1173	1311	1449	1714	2010	2203	2257	2269	2295	2332	2414	2535	270
6 2893	3087	3224	3270	-2													
1 ZP	6	65	507	529	594	662	723	843	982	1075	1102	1116	1128	1142	1185	1259	136
2 1479	1594	1678	1706	-2													
1 ZP	6	70	2515	2617	2935	3277	3547	4046	4619	5021	5115	5118	5234	5328	5537	5891	647
0 7126	7725	8196	8347	-3													
1 ZP	6	75	1225	1271	1414	1578	1679	1875	2079	2225	2255	2255	2319	2374	2454	2595	286
7 3186	3479	3711	3785	-3													
1 ZP	6	80	587	606	668	738	792	862	924	969	981	980	1014	1039	1059	1086	117
6 1289	1403	1496	1526	-3													
1 ZP	6	85	2630	2711	2970	3266	3550	3878	4141	4344	4425	4389	4415	4466	4466	4497	474
1 5034	5392	5718	5818	-4													
1 ZP	6	90	1213	1248	1361	1468	1569	1703	1799	1851	1858	1838	1853	1866	1826	1755	177
4 1793	1830	1868	1877	-4													
1 ZP	6	95	5208	5313	5697	6154	6511	6900	7180	7373	7448	7430	7383	7325	7022	6722	661
5 6509	6412	6338	6314	-5													
1 ZP	6	100	2323	2363	2513	2687	2771	2869	2957	3018	3083	3108	3079	3034	2888	2738	263
5 2536	2420	2319	2291	-5													
1 ZP	6	105	1086	1100	1155	1216	1226	1241	1264	1280	1318	1344	1338	1325	1279	1231	119
2 1156	1096	1041	1026	-5													
1 ZP	6	110	5506	5550	5720	5901	5866	5849	5894	5935	6117	6279	6320	6349	6284	6221	613
9 6063	5846	5628	5574	-6													

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5 2142	2065	2005	1984	-2												
1 ZP 9	65	807	812	827	860	910	973	1046	1106	1133	1147	1151	1137	1115	1097	107
7 1055	1023	1001	993	-2												
1 ZP 9	70	3924	3941	4009	4152	4367	4636	4957	5244	5352	5360	5453	5418	5274	5116	499
9 4947	4847	4762	4738	-3												
1 ZP 9	75	1849	1856	1882	1954	2040	2147	2269	2376	2406	2407	2476	2476	2406	2319	225
8 2244	2217	2179	2170	-3												
1 ZP 9	80	850	853	862	898	937	979	1021	1057	1063	1058	1098	1100	1078	1041	100
2 986	971	954	948	-3												
1 ZP 9	85	3838	3874	4000	4112	4277	4434	4571	4698	4696	4651	4691	4712	4654	4544	440
0 4309	4268	4215	4201	-4												
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1 ZP 9	100	2545	2592	2776	2976	3031	3098	3177	3243	3288	3306	3264	3198	3084	2960	286
8 2788	2650	2526	2494	-5												
1 ZP 9	105	1140	1161	1248	1340	1343	1352	1374	1393	1422	1441	1409	1367	1331	1293	127
6 1263	1202	1145	1130	-5												
1 ZP 9	110	5860	5944	6283	6628	6580	6548	6569	6590	6709	6807	6665	6505	6428	6353	638
4 6428	6202	5982	5927	-6												
1 ZP 9	115	3426	3455	3573	3690	3667	3645	3639	3633	3668	3703	3660	3616	3613	3610	364
1 3674	3598	3521	3502	-6												
1 ZP 9	120	2235	2244	2277	2312	2312	2311	2309	2308	2317	2327	2321	2316	2318	2320	232
8 2335	2314	2293	2287	-6												
1 ZP 10	20	4169	4272	4580	5021	5395	5596	5661	5671	5653	5637	5667	5680	5654	5589	546
5 5324	5190	5077	5040	0												
1 ZP 10	25	1837	1898	2082	2334	2515	2591	2594	2579	2561	2551	2564	2580	2584	2563	251
1 2443	2363	2289	2264	0												
1 ZP 10	30	865	893	978	1079	1188	1218	1222	1218	1209	1206	1212	1219	1216	1197	116
3 1121	1073	1026	1011	0												
1 ZP 10	35	4487	4613	4992	5465	5758	5892	5955	5986	5967	5952	5985	5981	5908	5759	553
1 5254	4944	4648	4549	-1												
1 ZP 10	40	2446	2493	2634	2810	2914	2974	3018	3057	3063	3057	3070	3041	2976	2871	272
1 2540	2340	2162	2103	-1												
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9 1276	1157	1057	1024	-1												
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5 658	592	538	520	-1												
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3 3397	3057	2779	2686	-2												
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9 1712	1552	1427	1384	-2												
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8 843	773	719	701	-2												
1 ZP 10	70	5277	5249	5169	5202	5198	5262	5360	5422	5402	5372	5445	5392	5153	4794	437
8 4051	3790	3553	3482	-3												
1 ZP 10	75	2485	2468	2421	2437	2411	2424	2450	2452	2417	2396	2455	2457	2358	2201	202
7 1904	1802	1702	1673	-3												
1 ZP 10	80	1098	1102	1115	1091	1084	1086	1090	1083	1067	1059	1096	1096	1060	1001	93
1 884	844	803	790	-3												

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3	1775	1718	1614	1593	-4	7504	7711	7938	8171	8397	8393	8355	8317	8216	7996	7730	745
5	7203	6888	6624	6553	-5	2998	3113	3241	3379	3510	3536	3538	3461	3353	3268	3167	308
7	3020	2877	2753	2721	-5	1338	1379	1425	1479	1531	1543	1546	1496	1434	1406	1375	136
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1	2392	2368	2345	2339	-6	5323	5511	5625	5625	5662	5664	5625	5607	5631	5626	5568	530
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2	1042	978	921	902	0	6131	6091	6013	5965	5950	5900	5890	5918	5862	5716	5466	513
2	4772	4415	4111	4010	-1	3204	3158	3100	3063	3054	3030	3026	3040	2987	2873	2694	247
1	2268	2070	1911	1858	-1	1723	1689	1652	1624	1614	1598	1594	1604	1572	1495	1379	124
6	1126	1024	942	915	-1	937	914	891	874	864	852	849	856	838	792	723	64
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7	2406	2374	2344	2335	-6													
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5	544	480	437	423	-1													
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2	2808	2521	2300	2227	-2													
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7	3103	2918	2760	2717	-5													
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7	1414	1348	1289	1274	-5													
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6	6895	6693	6506	6458	-6													
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6	2315	2286	2260	2252	-6													
1	ZD	1	20	8257	8274	8327	8480	8789	9134	9391	9488	9529	9542	9552	9423	9132	8737	834
8	8045	7823	7702	7661	-5													
1	ZD	1	25	3977	3979	3985	3991	4025	4055	4063	4053	4030	4015	4023	4014	3973	3908	379
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8	7415	6839	6365	6206	-6												
1 ZD	1	40	4609	4596	4559	4513	4413	4290	4171	4073	4006	3971	3993	3979	3959	3902	375
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1 ZD	1	55	7646	7576	7365	7181	6900	6569	6227	5917	5699	5653	5762	5802	5724	5489	507
6	4622	4209	3829	3702	-7												
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2	2381	2183	2000	1939	-7												
1 ZD	1	65	2482	2442	2320	2216	2063	1920	1794	1706	1674	1670	1681	1646	1567	1441	129
8	1189	1100	1017	989	-7												
1 ZD	1	70	1356	1330	1251	1178	1077	978	907	870	865	864	868	840	777	701	63
0	585	553	522	512	-7												
1 ZD	1	75	7035	6868	6353	5890	5274	4650	4285	4142	4161	4175	4195	4029	3698	3320	300
8	2813	2657	2527	2486	-8												
1 ZD	1	80	3326	3237	2961	2721	2401	2106	1950	1897	1900	1911	1933	1864	1721	1551	141
4	1339	1267	1209	1190	-8												
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6	601	565	537	529	-8												
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2	985	913	846	829	-10												
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1 ZD	1	120	1926	1943	2014	2084	2095	2103	2068	2034	2004	1975	1961	1947	1979	2012	202
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1 ZD	2	20	8046	8087	8208	8467	8851	9208	9436	9516	9534	9565	9589	9445	9145	8747	836
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1 ZD	2	25	3856	3864	3889	3966	4039	4084	4080	4053	4017	4004	4024	4019	3988	3932	383
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1 ZD	2	30	1825	1825	1824	1844	1862	1865	1847	1819	1796	1789	1795	1794	1788	1780	174
3	1665	1569	1492	1466	-5												
1 ZD	2	35	8723	8722	8718	8796	8801	8744	8611	8422	8279	8232	8261	8255	8242	8134	794
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1 ZD	2	40	4327	4319	4295	4327	4313	4252	4179	4082	3995	3961	3986	3991	3961	3865	372
6	3568	3377	3193	3131	-6												
1 ZD	2	45	2241	2232	2206	2217	2208	2176	2127	2072	2028	2009	2035	2033	2005	1931	182
7	1731	1619	1514	1480	-6												
1 ZD	2	50	1213	1205	1184	1190	1181	1164	1132	1102	1077	1071	1090	1090	1068	1017	94
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1	ZD	2	70	1119	1100	1044	1014	966	916	884	874	877	879	891	858	794	712	63
8	599	582	567	563	-7													
1	ZD	2	75	5676	5558	5197	4988	4653	4330	4194	4195	4231	4243	4291	4104	3783	3391	307
0	2921	2873	2822	2808	-8													
1	ZD	2	80	2630	2572	2392	2280	2109	1972	1915	1915	1925	1939	1978	1908	1768	1593	145
4	1403	1389	1364	1358	-8													
1	ZD	2	85	1148	1131	1074	1018	937	887	866	860	857	866	865	845	797	725	66
5	640	625	608	602	-8													
1	ZD	2	90	4088	4057	3946	3827	3723	3692	3776	3715	3652	3618	3693	3701	3576	3289	304
3	2960	2876	2788	2763	-9													
1	ZD	2	95	1450	1445	1426	1407	1417	1427	1462	1501	1503	1507	1517	1515	1476	1422	137
0	1321	1258	1206	1192	-9													
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3	5495	5143	4842	4761	-10													
1	ZD	2	105	1698	1721	1804	1903	1977	2061	2173	2280	2375	2451	2441	2401	2352	2285	224
6	2220	2060	1917	1880	-10													
1	ZD	2	110	716	727	769	816	830	848	878	907	948	982	973	953	938	921	91
7	918	857	801	787	-10													
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1	ZD	2	120	1857	1874	1942	2008	1986	1963	1945	1927	1947	1967	1946	1926	1921	1918	192
6	1934	1869	1804	1788	-11													
1	ZD	3	20	7859	7924	8121	8427	8787	9138	9372	9504	9541	9536	9545	9415	9136	8797	847
7	8214	7995	7830	7775	-5													
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1	ZD	3	30	1701	1710	1736	1795	1840	1859	1847	1824	1806	1796	1802	1800	1795	1789	176
9	1731	1678	1626	1609	-5													
1	ZD	3	35	7900	7949	8096	8367	8528	8636	8585	8486	8355	8301	8319	8327	8295	8164	800
8	7859	7695	7540	7489	-6													
1	ZD	3	40	3711	3742	3833	3991	4082	4141	4141	4097	4038	4005	4035	4032	4000	3898	377
2	3671	3606	3547	3527	-6													
1	ZD	3	45	1817	1834	1884	1976	2045	2087	2091	2081	2062	2053	2075	2060	2027	1960	187
5	1800	1748	1704	1690	-6													
1	ZD	3	50	937	946	975	1032	1077	1102	1104	1108	1103	1102	1115	1105	1081	1040	98
6	936	895	863	852	-6													
1	ZD	3	55	5086	5137	5288	5620	5871	6024	6028	6053	6045	6064	6158	6079	5902	5656	533
3	5025	4811	4625	4563	-7													
1	ZD	3	60	2712	2742	2837	3020	3162	3262	3248	3256	3305	3330	3382	3310	3172	3023	282
8	2644	2557	2479	2452	-7													
1	ZD	3	65	1415	1427	1459	1559	1634	1681	1686	1709	1737	1752	1771	1718	1635	1543	143
5	1343	1298	1263	1250	-7													
1	ZD	3	70	7248	7284	7399	7779	8112	8401	8545	8741	8867	8913	8974	8643	8174	7679	713
6	6648	6426	6254	6199	-8													
1	ZD	3	75	3553	3561	3594	3738	3828	3951	4087	4222	4271	4281	4308	4157	3944	3723	347
5	3234	3110	3009	2977	-8													

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8	1563	1482	1422	1403	-8													
1	ZD	3	85	7882	7897	8019	7967	8058	8212	8327	8540	8585	8568	8505	8384	8196	7976	761
7	7325	7064	6929	6879	-9													
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4	3191	3084	3031	3010	-9													
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1	5285	4969	4687	4613	-10													
1	ZD	3	105	1709	1736	1837	1953	2009	2077	2163	2242	2329	2394	2374	2329	2281	2222	216
0	2109	1941	1787	1747	-10													
1	ZD	3	110	7201	7316	7769	8261	8284	8354	8578	8791	9242	9613	9505	9309	9200	9076	894
5	8866	8133	7440	7265	-11													
1	ZD	3	115	3454	3496	3671	3844	3755	3676	3680	3690	3850	4000	3960	3910	3930	3954	397
2	4001	3729	3456	3389	-11													
1	ZD	3	120	1789	1806	1873	1940	1906	1872	1860	1846	1891	1936	1927	1920	1935	1950	195
7	1963	1865	1767	1742	-11													
1	ZD	4	20	7771	7834	8025	8293	8644	9007	9286	9467	9513	9512	9511	9373	9151	8889	863
3	8473	8391	8356	8344	-5													
1	ZD	4	25	3542	3576	3677	3806	3940	4026	4050	4041	4016	4004	4019	4012	4003	3985	395
4	3925	3910	3902	3900	-5													
1	ZD	4	30	1493	1522	1611	1732	1805	1844	1847	1831	1811	1804	1814	1813	1807	1799	179
3	1799	1819	1839	1845	-5													
1	ZD	4	35	6556	6719	7210	7791	8213	8492	8573	8540	8421	8377	8412	8440	8386	8243	816
7	8216	8358	8480	8520	-6													
1	ZD	4	40	2910	2987	3220	3545	3807	4004	4097	4117	4094	4078	4101	4102	4062	3971	390
7	3893	3924	3964	3977	-6													
1	ZD	4	45	1364	1401	1513	1685	1848	1970	2041	2082	2094	2095	2109	2095	2068	2026	198
1	1949	1940	1942	1942	-6													
1	ZD	4	50	685	703	758	850	947	1022	1069	1102	1117	1122	1131	1122	1109	1088	106
3	1036	1018	1009	1006	-6													
1	ZD	4	55	3620	3714	3996	4513	5023	5512	5806	6010	6121	6154	6222	6179	6096	5991	584
7	5689	5572	5510	5489	-7													
1	ZD	4	60	1928	1969	2094	2336	2633	2939	3122	3259	3344	3364	3389	3340	3282	3237	316
5	3068	3030	2999	2989	-7													
1	ZD	4	65	1004	1021	1070	1183	1337	1506	1611	1700	1754	1768	1775	1733	1703	1687	165
6	1606	1585	1571	1566	-7													
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2	8150	7951	7831	7793	-8													
1	ZD	4	75	2514	2542	2630	2848	3148	3553	3883	4098	4157	4182	4238	4202	4192	4203	415
2	4035	3952	3891	3873	-8													
1	ZD	4	80	1234	1242	1270	1357	1489	1658	1783	1854	1869	1865	1897	1915	1944	1977	197
8	1942	1903	1872	1863	-8													
1	ZD	4	85	602	608	628	657	709	764	795	829	832	820	822	826	841	871	89
0	903	912	921	924	-8													
1	ZD	4	90	2728	2751	2826	2944	3161	3337	3466	3589	3571	3478	3508	3515	3597	3665	372
3	3746	3774	3771	3776	-9													
1	ZD	4	95	1189	1197	1227	1266	1326	1389	1445	1492	1493	1485	1477	1469	1461	1454	144
4	1434	1406	1377	1370	-9													
1	ZD	4	100	4622	4670	4842	5057	5234	5427	5655	5843	5991	6090	6025	5930	5753	5559	536
9	5191	4942	4726	4668	-10													

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1 ZD	4	105	1808	1829	1911	2009	2046	2095	2179	2251	2368	2458	2429	2379	2269	2153	204
8 1954	1828	1718	1689	-10													
1 ZD	4	110	7595	7681	8014	8390	8345	8351	8583	8787	9381	9885	9819	9684	9243	8797	841
2 8069	7582	7133	7018	-11													
1 ZD	4	115	3507	3535	3654	3772	3675	3593	3613	3638	3869	4090	4106	4113	4005	3903	381
4 3735	3573	3408	3368	-11													
1 ZD	4	120	1757	1770	1819	1868	1841	1813	1810	1807	1879	1952	1968	1986	1966	1946	191
9 1892	1831	1769	1754	-11													
1 ZD	5	20	7618	7697	7936	8244	8541	8873	9175	9402	9488	9505	9524	9434	9259	9048	883
5 8674	8564	8490	8466	-5													
1 ZD	5	25	3247	3313	3513	3732	3896	3996	4029	4040	4029	4024	4047	4050	4057	4060	404
8 4041	4034	4029	4027	-5													
1 ZD	5	30	1227	1285	1462	1636	1773	1834	1841	1835	1818	1817	1833	1840	1843	1845	184
9 1856	1867	1880	1884	-5													
1 ZD	5	35	5110	5377	6177	7099	7902	8367	8530	8534	8468	8462	8543	8602	8604	8542	853
6 8601	8712	8828	8866	-6													
1 ZD	5	40	2273	2384	2716	3126	3550	3873	4041	4109	4127	4131	4167	4180	4173	4137	413
3 4167	4219	4267	4283	-6													
1 ZD	5	45	1067	1116	1262	1451	1670	1865	1999	2073	2105	2112	2131	2128	2126	2122	212
1 2133	2159	2179	2186	-6													
1 ZD	5	50	543	564	629	716	831	956	1041	1094	1114	1119	1134	1134	1140	1144	114
6 1152	1163	1169	1171	-6													
1 ZD	5	55	2887	2992	3307	3719	4268	5032	5590	5927	6045	6083	6178	6232	6284	6334	636
3 6406	6478	6530	6547	-7													
1 ZD	5	60	1558	1608	1759	1945	2211	2630	2975	3210	3298	3314	3344	3358	3394	3451	349
0 3530	3619	3675	3693	-7													
1 ZD	5	65	802	827	902	992	1119	1332	1530	1677	1743	1747	1762	1760	1786	1823	186
1 1894	1954	1996	2010	-7													
1 ZD	5	70	406	419	458	504	567	662	765	843	871	878	890	890	906	930	95
8 986	1025	1057	1067	-7													
1 ZD	5	75	2009	2074	2276	2521	2788	3196	3638	3945	4015	4035	4154	4243	4360	4508	471
4 4927	5167	5363	5427	-8													
1 ZD	5	80	991	1020	1111	1226	1349	1499	1657	1755	1767	1771	1839	1901	1967	2053	217
6 2325	2461	2561	2594	-8													
1 ZD	5	85	473	485	524	570	629	689	745	794	806	807	807	820	843	885	95
6 1047	1133	1199	1221	-8													
1 ZD	5	90	2316	2360	2498	2637	2891	3104	3280	3470	3503	3443	3477	3504	3534	3542	371
5 3977	4225	4362	4414	-9													
1 ZD	5	95	1033	1047	1096	1159	1249	1344	1408	1456	1452	1433	1428	1427	1403	1385	140
7 1429	1444	1456	1459	-9													
1 ZD	5	100	4357	4421	4650	4934	5176	5437	5648	5799	5895	5926	5835	5721	5455	5182	505
8 4940	4795	4680	4646	-10													
1 ZD	5	105	1803	1832	1941	2067	2106	2156	2216	2256	2348	2407	2356	2289	2146	2002	191
8 1840	1742	1660	1638	-10													
1 ZD	5	110	7772	7884	8323	8808	8704	8652	8756	8820	9316	9713	9568	9366	8845	8326	803
6 7783	7359	6976	6876	-11													
1 ZD	5	115	3555	3593	3747	3903	3774	3660	3630	3603	3818	4021	4026	4022	3905	3793	374
9 3713	3575	3434	3401	-11													
1 ZD	5	120	1735	1749	1806	1865	1830	1795	1780	1766	1837	1909	1928	1947	1934	1920	191
3 1903	1850	1794	1781	-11													
1 ZD	6	20	7351	7442	7713	8113	8481	8812	9134	9387	9482	9485	9494	9469	9393	9241	903
9 8884	8777	8714	8693	-5													

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9	4150	4153	4156	4157	-5													
1	ZD	6	30	1083	1143	1324	1545	1743	1836	1850	1850	1836	1836	1851	1864	1879	1893	190
7	1921	1937	1956	1963	-5													
1	ZD	6	35	4336	4605	5410	6493	7606	8329	8570	8581	8541	8543	8646	8727	8799	8876	895
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1	ZD	6	40	1928	2044	2393	2839	3333	3773	4015	4118	4152	4154	4195	4224	4269	4318	437
6	4460	4547	4618	4642	-6													
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6	2311	2365	2401	2413	-6													
1	ZD	6	50	467	492	566	656	765	907	1019	1085	1102	1104	1117	1130	1157	1187	121
8	1255	1288	1310	1317	-6													
1	ZD	6	55	2506	2625	2982	3420	3920	4741	5461	5873	5948	5953	6044	6166	6340	6538	674
6	7001	7236	7394	7447	-7													
1	ZD	6	60	1386	1444	1620	1819	2051	2474	2905	3176	3238	3236	3273	3336	3441	3564	372
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7	2126	2261	2355	2386	-7													
1	ZD	6	70	374	389	436	488	540	633	748	830	851	852	868	879	914	969	104
6	1129	1210	1272	1292	-7													
1	ZD	6	75	1842	1919	2161	2435	2657	3058	3528	3846	3913	3916	4015	4091	4282	4621	512
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4	1109	1233	1339	1372	-8													
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1	ZD	6	95	896	917	991	1083	1181	1285	1352	1399	1395	1375	1375	1382	1349	1323	134
9	1374	1412	1448	1457	-9													
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5	4618	4496	4407	4379	-10													
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5	1709	1606	1519	1494	-10													
1	ZD	6	110	7391	7496	7900	8352	8369	8434	8576	8666	8944	9118	9009	8853	8436	8019	765
3	7315	6822	6368	6249	-11													
1	ZD	6	115	3421	3449	3567	3687	3608	3543	3537	3534	3662	3780	3799	3810	3751	3697	362
7	3566	3383	3197	3152	-11													
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5	1850	1777	1703	1684	-11													
1	ZD	7	20	7072	7146	7369	7937	8400	8791	9131	9391	9492	9491	9498	9504	9501	9408	921
1	9040	8927	8860	8838	-5													
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1	ZD	7	30	968	1020	1174	1428	1685	1821	1852	1859	1850	1849	1864	1883	1907	1931	194
5	1961	1973	1990	1996	-5													
1	ZD	7	35	4032	4245	4882	6004	7315	8286	8600	8638	8594	8581	8687	8771	8921	9063	918
5	9292	9403	9523	9563	-6													
1	ZD	7	40	1873	1962	2228	2705	3282	3798	4037	4125	4132	4133	4183	4229	4306	4397	449
4	4577	4657	4723	4744	-6													
1	ZD	7	45	917	958	1082	1302	1564	1824	1983	2057	2073	2074	2097	2114	2170	2232	230
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START
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1	ZD	7	55	2591	2691	2991	3555	4158	4983	5552	5837	5849	5829	5902	6029	6242	6511	679
5	7068	7307	7449	7497	-7													
1	ZD	7	60	1470	1518	1661	1933	2211	2623	2967	3159	3182	3165	3187	3248	3367	3529	371
7	3912	4099	4223	4265	-7													
1	ZD	7	65	785	808	875	1004	1132	1329	1520	1638	1669	1667	1686	1701	1761	1862	199
5	2138	2268	2358	2388	-7													
1	ZD	7	70	399	411	449	510	569	655	747	815	835	838	849	848	874	933	102
7	1132	1220	1284	1305	-7													
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9	5631	6155	6565	6696	-8													
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6	2520	2816	3043	3115	-8													
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1	1058	1181	1288	1321	-8													
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7	3725	3993	4228	4294	-9													
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3	1329	1382	1432	1445	-9													
1	ZD	7	100	3763	3872	4283	4750	5001	5275	5400	5459	5513	5493	5492	5473	5201	4920	471
1	4504	4452	4431	4421	-10													
1	ZD	7	105	1603	1647	1818	2008	2062	2125	2151	2156	2189	2189	2169	2135	2018	1900	178
7	1681	1602	1539	1521	-10													
1	ZD	7	110	7116	7271	7879	8533	8538	8590	8577	8515	8678	8741	8674	8555	8236	7921	756
0	7228	6823	6455	6358	-11													
1	ZD	7	115	3318	3364	3552	3742	3668	3608	3550	3497	3569	3630	3644	3650	3633	3620	357
0	3526	3376	3221	3184	-11													
1	ZD	7	120	1640	1655	1715	1777	1759	1743	1726	1710	1735	1761	1776	1792	1815	1838	183
3	1828	1764	1700	1685	-11													
1	ZD	8	20	7094	7206	7544	8013	8416	8799	9138	9410	9492	9480	9509	9523	9507	9400	918
5	8988	8849	8743	8708	-5													
1	ZD	8	25	2602	2714	3049	3458	3788	3984	4057	4096	4102	4092	4113	4144	4184	4211	420
9	4189	4168	4149	4143	-5													
1	ZD	8	30	926	991	1186	1443	1698	1831	1858	1863	1852	1847	1860	1880	1907	1929	193
6	1939	1938	1941	1942	-5													
1	ZD	8	35	3999	4284	5139	6321	7586	8424	8648	8633	8576	8550	8636	8737	8901	9023	910
1	9132	9151	9185	9196	-6													
1	ZD	8	40	1927	2058	2450	2989	3545	3956	4101	4133	4113	4098	4144	4198	4277	4345	441
9	4457	4479	4492	4496	-6													
1	ZD	8	45	972	1038	1237	1498	1749	1937	2027	2068	2069	2060	2083	2101	2147	2196	224
0	2269	2289	2291	2292	-6													
1	ZD	8	50	512	547	653	786	905	1003	1057	1089	1092	1087	1097	1108	1133	1163	119
0	1212	1224	1224	1224	-6													
1	ZD	8	55	2843	3025	3574	4270	4801	5355	5700	5935	5943	5898	5941	5996	6129	6319	650
7	6635	6727	6751	6759	-7													
1	ZD	8	60	1614	1701	1962	2269	2511	2803	3049	3216	3245	3212	3217	3210	3271	3391	351
7	3611	3695	3737	3752	-7													
1	ZD	8	65	875	914	1032	1165	1264	1400	1545	1659	1696	1685	1697	1685	1703	1766	184
8	1924	1993	2033	2047	-7													
1	ZD	8	70	450	467	522	581	623	681	756	823	851	853	860	850	851	876	93
3	998	1050	1086	1098	-7													

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1 ZD	8	75	2210	2287	2528	2807	2979	3223	3558	3876	4015	4044	4119	4065	4050	4155	448
6	4928	5250	5498	5578	-8												
1 ZD	8	80	1050	1086	1197	1328	1400	1495	1627	1767	1815	1824	1865	1849	1845	1884	201
5	2220	2399	2544	2590	-8												
1 ZD	8	85	489	504	554	609	641	680	732	787	804	810	810	806	807	817	86
9	946	1024	1090	1111	-8												
1 ZD	8	90	2306	2375	2606	2842	2927	3062	3244	3413	3364	3395	3418	3457	3452	3393	344
1	3514	3701	3847	3888	-9												
1 ZD	8	95	995	1020	1111	1214	1271	1332	1385	1424	1421	1406	1419	1435	1394	1357	133
7	1318	1352	1385	1393	-9												
1 ZD	8	100	4079	4187	4598	5057	5212	5385	5575	5713	5758	5744	5710	5654	5390	5117	488
6	4663	4578	4520	4501	-10												
1 ZD	8	105	1659	1703	1872	2058	2087	2126	2197	2251	2299	2317	2265	2195	2083	1968	187
0	1780	1691	1617	1596	-10												
1 ZD	8	110	7125	7284	7912	8583	8529	8523	8738	8914	9179	9350	9060	8710	8386	8064	783
7	7647	7201	6795	6690	-11												
1 ZD	8	115	3307	3357	3562	3767	3684	3613	3643	3676	3786	3886	3791	3689	3657	3631	364
4	3667	3500	3329	3288	-11												
1 ZD	8	120	1661	1679	1748	1818	1797	1776	1785	1794	1826	1859	1838	1818	1830	1842	186
1	1878	1811	1743	1726	-11												
1 ZD	9	20	6808	6941	7342	7875	8351	8810	9168	9403	9481	9473	9511	9499	9412	9253	899
3	8758	8593	8491	8458	-5												
1 ZD	9	25	2602	2704	3010	3437	3792	4000	4070	4090	4086	4075	4099	4121	4146	4150	411
4	4059	4006	3967	3954	-5												
1 ZD	9	30	997	1059	1246	1488	1733	1850	1860	1850	1840	1833	1845	1861	1883	1892	188
2	1861	1839	1821	1816	-5												
1 ZD	9	35	4577	4858	5701	6825	7936	8528	8637	8577	8516	8488	8568	8663	8761	8806	873
6	8631	8522	8412	8375	-6												
1 ZD	9	40	2350	2471	2834	3314	3767	4032	4118	4129	4111	4092	4129	4169	4209	4211	417
8	4121	4037	3957	3930	-6												
1 ZD	9	45	1253	1310	1479	1688	1874	1991	2052	2088	2092	2080	2094	2100	2110	2110	208
7	2042	1980	1927	1909	-6												
1 ZD	9	50	687	714	794	893	978	1037	1077	1106	1112	1106	1114	1113	1112	1111	109
7	1066	1023	986	974	-6												
1 ZD	9	55	3829	3953	4327	4817	5220	5561	5825	6043	6085	6057	6090	6081	6064	6049	595
6	5756	5500	5270	5194	-7												
1 ZD	9	60	2212	2253	2370	2549	2735	2946	3132	3281	3326	3311	3309	3261	3244	3239	318
3	3058	2925	2805	2764	-7												
1 ZD	9	65	1184	1196	1230	1291	1375	1481	1598	1692	1731	1742	1735	1705	1679	1670	164
3	1584	1515	1464	1447	-7												
1 ZD	9	70	6030	6063	6181	6413	6808	7308	7918	8455	8691	8698	8751	8629	8434	8265	810
6	7927	7664	7499	7447	-8												
1 ZD	9	75	2948	2959	3006	3112	3288	3504	3766	4010	4108	4116	4184	4149	4028	3899	381
9	3800	3717	3655	3640	-8												
1 ZD	9	80	1401	1406	1428	1484	1561	1647	1740	1824	1854	1853	1895	1889	1841	1785	174
6	1739	1718	1692	1686	-8												
1 ZD	9	85	6611	6665	6851	6999	7319	7591	7883	8191	8298	8266	8272	8265	8132	8037	789
0	7903	7981	7967	7973	-9												
1 ZD	9	90	3067	3082	3143	3149	3248	3362	3468	3568	3507	3421	3480	3539	3547	3480	336
5	3278	3262	3232	3225	-9												
1 ZD	9	95	1239	1249	1286	1329	1377	1427	1463	1494	1478	1454	1483	1509	1466	1422	137
5	1329	1308	1289	1284	-9												

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START COL	1	2	3	4	5	6	7	8	9	0								
1	ZD	9	100	4651	4722	4989	5294	5475	5673	5848	5990	5991	5946	5968	5956	5727	5477	522
2	4981	4775	4601	4554	-10		2125	2171	2228	2297	2355	2395	2409	2369	2307	2207	2101	201
1	ZD	9	105	1768	1807	1958	896	898	904	921	936	961	978	948	911	880	848	83
8	1946	1829	1727	1700	-10		4052	3982	3924	3915	3911	4005	4089	3961	3823	3776	3733	379
1	ZD	9	110	735	753	823	1987	1965	1943	1933	1923	1948	1975	1934	1894	1895	1895	192
5	826	776	730	718	-10		8044	8518	8927	9232	9417	9473	9466	9498	9463	9317	9088	877
1	ZD	9	115	3434	3502	3777	3613	3903	4052	4084	4074	4056	4045	4063	4080	4082	4064	400
1	3861	3682	3502	3459	-11		1615	1812	1871	1861	1837	1823	1813	1824	1842	1853	1848	182
1	ZD	9	120	1765	1790	1888	7692	8323	8569	8592	8537	8448	8426	8498	8586	8599	8507	830
4	1953	1884	1814	1797	-11		3749	3975	4073	4117	4128	4114	4102	4133	4141	4112	4023	387
1	ZD	10	20	7186	7278	7553	1922	1998	2038	2067	2097	2104	2099	2114	2096	2053	1984	189
4	8499	8323	8214	8178	-5		1031	1060	1079	1098	1117	1123	1121	1130	1114	1081	1035	97
1	ZD	10	25	2991	3064	3282	5677	5767	5886	6016	6136	6155	6148	6199	6092	5903	5609	520
1	3922	3837	3767	3744	-5		3052	3089	3170	3249	3320	3353	3360	3383	3304	3178	3002	274
1	ZD	10	30	1241	1288	1431	1584	1594	1631	1678	1720	1749	1761	1774	1723	1641	1543	140
1	1782	1732	1688	1673	-5		1894	1876	1878	1884	1870	1842	1823	1864	1868	1799	1680	154
1	ZD	10	35	5780	6023	6751	8001	8081	8248	8490	8700	8810	8806	8861	8657	8227	7640	692
8	8057	7800	7520	7426	-6		3951	3961	4016	4100	4156	4131	4103	4152	4116	3923	3632	329
1	ZD	10	40	2984	3084	3387	1894	1876	1878	1884	1870	1842	1823	1864	1868	1799	1680	154
9	3709	3506	3301	3232	-6		916	893	868	852	846	840	826	835	835	805	768	72
1	ZD	10	45	1647	1684	1793	3882	3804	3717	3674	3697	3604	3543	3577	3643	3539	3403	320
1	1772	1633	1509	1467	-6		1502	1515	1530	1544	1562	1545	1528	1552	1568	1527	1475	141
1	ZD	10	50	928	941	979	5489	5695	5916	6135	6338	6348	6326	6303	6225	6053	5839	560
4	895	810	738	714	-6		2081	2183	2294	2422	2544	2575	2585	2523	2432	2359	2272	220
1	ZD	10	55	5352	5383	5477	866	900	938	986	1034	1047	1053	1011	960	936	910	90
4	4723	4237	3807	3663	-7		4038	4099	4171	4279	4393	4404	4405	4207	3999	3964	3934	400
1	ZD	10	60	2967	2969	2977	2064	2082	2098	2118	2138	2130	2123	2054	1987	1984	1982	200
9	2464	2201	1993	1922	-7													
1	ZD	10	65	1585	1579	1560												
1	3	1252	1125	1031	998	-7												
1	ZD	10	70	8069	8034	7936												
1	0	6277	5775	5362	5232	-8												
1	ZD	10	75	4032	4007	3938												
7	3037	2828	2643	2589	-8													
1	ZD	10	80	1929	1931	1942												
3	1443	1350	1273	1249	-8													
1	ZD	10	85	1007	995	958												
3	687	662	633	625	-8													
1	ZD	10	90	4066	4047	3991												
8	3108	3053	2867	2834	-9													
1	ZD	10	95	1487	1489	1495												
0	1346	1297	1257	1246	-9													
1	ZD	10	100	5107	5149	5303												
1	5382	5124	4910	4852	-10													
1	ZD	10	105	1858	1882	1974												
6	2152	2035	1934	1907	-10													
1	ZD	10	110	769	780	821												
3	903	858	817	807	-10													
1	ZD	10	115	3692	3729	3885												
1	4082	3942	3801	3767	-11													
1	ZD	10	120	1921	1936	2000												
5	2027	1972	1918	1904	-11													

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START
COL

1	ZD	11	20	7359	7435	7662	8174	8674	9070	9336	9489	9488	9479	9507	9433	9234	8928	859
1	8325	8152	8039	8001	-5													
1	ZD	11	25	3521	3540	3597	3813	3968	4059	4074	4064	4033	4014	4030	4038	4028	3993	391
5	3818	3715	3628	3599	-5													
1	ZD	11	30	1597	1605	1632	1776	1835	1852	1841	1824	1807	1796	1805	1819	1819	1808	177
0	1711	1637	1574	1553	-5													
1	ZD	11	35	8039	8071	8166	8419	8500	8481	8457	8424	8333	8320	8375	8398	8367	8211	793
4	7534	7098	6709	6580	-6													
1	ZD	11	40	4074	4078	4091	4165	4143	4100	4087	4092	4067	4062	4089	4057	3979	3833	361
8	3376	3120	2900	2827	-6													
1	ZD	11	45	2176	2169	2150	2164	2139	2105	2087	2093	2086	2083	2102	2061	1986	1865	172
6	1581	1440	1326	1287	-6													
1	ZD	11	50	1208	1200	1176	1178	1160	1138	1122	1118	1112	1110	1120	1099	1047	968	87
4	789	713	656	636	-6													
1	ZD	11	55	6875	6805	6597	6567	6432	6300	6208	6161	6060	6034	6093	5977	5671	5187	460
6	4112	3754	3443	3340	-7													
1	ZD	11	60	3886	3842	3706	3666	3545	3465	3393	3348	3297	3298	3331	3244	3036	2740	240
9	2143	1975	1822	1771	-7													
1	ZD	11	65	2147	2112	2008	1955	1882	1823	1783	1751	1733	1724	1750	1688	1564	1396	122
9	1099	1024	953	929	-7													
1	ZD	11	70	1126	1107	1050	1015	972	935	908	889	878	871	875	850	782	692	61
0	551	514	478	467	-7													
1	ZD	11	75	5682	5627	5456	5170	4763	4532	4350	4224	4121	4045	4071	3999	3726	3334	297
1	2715	2524	2343	2284	-8													
1	ZD	11	80	2726	2698	2614	2456	2276	2133	1968	1891	1831	1799	1827	1806	1704	1558	141
6	1318	1219	1132	1104	-8													
1	ZD	11	85	1403	1380	1306	1136	1028	950	897	863	844	840	840	829	779	731	67
3	623	584	552	542	-8													
1	ZD	11	90	4988	4928	4822	4450	4077	3904	3831	3793	3709	3601	3659	3688	3523	3324	308
5	2821	2651	2504	2459	-9													
1	ZD	11	95	1630	1624	1598	1570	1576	1580	1590	1606	1575	1549	1581	1597	1554	1492	138
7	1287	1207	1143	1125	-9													
1	ZD	11	100	5247	5275	5364	5487	5739	5999	6262	6514	6468	6398	6453	6436	6333	6164	582
3	5505	5151	4856	4775	-10													
1	ZD	11	105	1878	1900	1980	2078	2200	2331	2470	2608	2622	2617	2598	2543	2521	2477	239
5	2326	2172	2037	2001	-10													
1	ZD	11	110	798	808	846	889	927	969	1016	1063	1070	1070	1042	1004	1006	1003	99
9	1001	941	888	874	-10													
1	ZD	11	115	3946	3984	4141	4294	4333	4382	4462	4548	4532	4506	4341	4162	4207	4257	435
6	4470	4279	4088	4042	-11													
1	ZD	11	120	2067	2083	2145	2206	2210	2212	2215	2217	2196	2177	2112	2050	2065	2081	211
6	2149	2078	2007	1989	-11													
1	ZD	12	20	8085	8085	8085	8357	8737	9109	9379	9503	9525	9522	9512	9413	9163	8800	844
9	8174	7958	7780	7721	-5													
1	ZD	12	25	3931	3912	3855	3919	3993	4043	4062	4052	4028	4015	4021	4015	3988	3936	384
9	3729	3586	3458	3415	-5													
1	ZD	12	30	1871	1859	1824	1837	1847	1845	1836	1822	1808	1796	1798	1804	1796	1781	173
7	1652	1540	1432	1396	-5													
1	ZD	12	35	9039	8990	8841	8818	8704	8595	8486	8420	8338	8292	8304	8301	8282	8141	783
9	7285	6568	5981	5786	-6													
1	ZD	12	40	4580	4546	4443	4399	4299	4213	4135	4086	4050	4031	4045	4010	3951	3817	357
6	3259	2903	2641	2553	-6													

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1	ZD	12	45	2423	2400	2330	2296	2238	2176	2123	2084	2060	2049	2066	2044	1989	1870	170
0	1521	1345	1226	1186	-6													
1	ZD	12	50	1345	1329	1280	1256	1217	1179	1142	1110	1087	1080	1091	1088	1055	973	85
4	745	652	590	570	-6													
1	ZD	12	55	7684	7569	7224	7055	6785	6541	6287	6066	5861	5810	5895	5921	5728	5248	450
4	3876	3425	3095	2986	-7													
1	ZD	12	60	4452	4370	4124	3982	3770	3613	3456	3315	3197	3173	3224	3212	3064	2762	234
2	2034	1823	1662	1609	-7													
1	ZD	12	65	2508	2451	2280	2175	2040	1929	1835	1752	1703	1683	1712	1683	1574	1383	117
5	1043	960	888	864	-7													
1	ZD	12	70	1344	1325	1265	1153	1071	996	934	891	874	866	873	855	782	677	58
1	523	482	445	433	-7													
1	ZD	12	75	6927	6810	6444	5949	5267	4779	4424	4214	4142	4106	4132	4041	3710	3217	281
5	2576	2369	2186	2128	-8													
1	ZD	12	80	3279	3217	3027	2768	2467	2145	1994	1905	1867	1848	1873	1831	1689	1504	133
8	1249	1150	1065	1038	-8													
1	ZD	12	85	1513	1476	1360	1230	1094	979	914	885	867	869	865	846	776	699	63
0	577	535	501	490	-8													
1	ZD	12	90	5055	4982	4731	4431	4164	3969	3850	3875	3788	3769	3784	3785	3522	3173	295
8	2692	2497	2338	2290	-9													
1	ZD	12	95	1637	1626	1582	1535	1524	1511	1535	1568	1557	1554	1583	1593	1546	1476	134
9	1230	1137	1064	1043	-9													
1	ZD	12	100	4977	5003	5079	5190	5438	5688	5983	6270	6295	6301	6420	6450	6367	6201	575
1	5329	4942	4624	4536	-10													
1	ZD	12	105	1724	1749	1839	1947	2088	2234	2362	2487	2513	2524	2559	2555	2547	2513	238
1	2260	2109	1981	1947	-10													
1	ZD	12	110	730	743	792	845	895	948	980	1012	1016	1014	1018	1010	1016	1017	98
9	968	918	875	864	-10													
1	ZD	12	115	3712	3762	3970	4175	4277	4388	4377	4372	4311	4241	4198	4144	4201	4263	427
0	4294	4163	4034	4003	-11													
1	ZD	12	120	1987	2008	2095	2178	2203	2225	2191	2154	2113	2073	2047	2022	2040	2060	206
2	2064	2014	1965	1953	-11													
1	ZT	1	20	2346	2342	2328	2292	2228	2159	2104	2072	2051	2044	2048	2067	2101	2145	216
4	2143	2095	2040	2022	-1													
1	ZT	1	25	2368	2364	2350	2331	2293	2253	2219	2193	2180	2177	2180	2184	2195	2201	219
2	2157	2111	2067	2052	-1													
1	ZT	1	30	2455	2454	2447	2435	2399	2357	2321	2295	2282	2277	2282	2281	2283	2273	225
8	2241	2217	2194	2187	-1													
1	ZT	1	35	2613	2606	2587	2565	2532	2496	2459	2433	2418	2414	2418	2412	2393	2371	235
0	2344	2343	2340	2340	-1													
1	ZT	1	40	2755	2747	2723	2697	2667	2631	2594	2561	2545	2546	2550	2551	2533	2494	245
6	2444	2436	2431	2429	-1													
1	ZT	1	45	2867	2857	2827	2795	2756	2720	2687	2660	2637	2638	2642	2653	2636	2596	253
9	2510	2494	2480	2475	-1													
1	ZT	1	50	2894	2882	2848	2808	2767	2722	2692	2673	2673	2681	2681	2673	2637	2592	254
1	2530	2535	2537	2538	-1													
1	ZT	1	55	2828	2816	2778	2733	2678	2626	2600	2601	2630	2649	2635	2601	2544	2488	245
5	2467	2505	2543	2556	-1													
1	ZT	1	60	2687	2674	2639	2591	2542	2484	2458	2479	2520	2533	2511	2464	2412	2359	235
4	2381	2416	2456	2469	-1													
1	ZT	1	65	2501	2490	2458	2415	2364	2309	2294	2324	2356	2384	2370	2337	2298	2283	230
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5	1889	1869	1848	1843	-1													
1	ZT	2	100	1836	1843	1871	1901	1884	1870	1855	1841	1858	1873	1860	1848	1853	1863	188
1	1903	1906	1903	1904	-1													
1	ZT	2	105	2261	2258	2251	2234	2174	2115	2060	2011	1992	1979	1968	1954	1973	1991	201
8	2046	2079	2105	2112	-1													
1	ZT	2	110	2806	2789	2727	2653	2592	2526	2450	2378	2318	2270	2265	2275	2286	2308	232
5	2338	2403	2461	2476	-1													
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4	2861	2934	3009	3027	-1													
1	ZT	2	120	4120	4088	3961	3833	3844	3854	3851	3846	3777	3707	3710	3713	3694	3676	364
3	3611	3701	3791	3814	-1													
1	ZT	3	20	2237	2237	2236	2221	2194	2152	2109	2072	2051	2046	2053	2071	2107	2148	217
7	2185	2174	2156	2150	-1													
1	ZT	3	25	2216	2218	2223	2236	2234	2226	2215	2205	2198	2191	2190	2192	2192	2188	218
7	2192	2202	2210	2212	-1													
1	ZT	3	30	2251	2258	2277	2287	2294	2301	2306	2308	2303	2303	2303	2303	2293	2262	223
3	2224	2237	2248	2252	-1													
1	ZT	3	35	2341	2348	2367	2390	2410	2418	2428	2438	2449	2452	2459	2448	2427	2399	236
2	2332	2324	2322	2322	-1													
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7	2467	2433	2409	2402	-1													
1	ZT	3	45	2580	2584	2597	2621	2642	2648	2649	2668	2690	2706	2701	2686	2659	2640	261
5	2583	2555	2535	2529	-1													
1	ZT	3	50	2628	2630	2634	2644	2655	2662	2665	2674	2695	2711	2705	2688	2659	2643	262
3	2607	2605	2608	2608	-1													
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9	2534	2555	2573	2579	-1													
1	ZT	3	60	2474	2465	2433	2420	2405	2407	2438	2467	2467	2476	2459	2440	2431	2416	241
4	2421	2421	2429	2432	-1													
1	ZT	3	65	2376	2365	2338	2299	2269	2277	2315	2337	2332	2331	2324	2320	2327	2332	234
9	2353	2349	2348	2348	-1													
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3	2261	2248	2233	2229	-1													
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3	2199	2187	2173	2167	-1													
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4	2123	2115	2108	2104	-1													
1	ZT	3	85	1875	1880	1887	1931	1965	1990	1990	1973	1964	1962	1980	1992	2010	2003	202
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1	ZT	3	90	1831	1837	1842	1901	1915	1897	1918	1929	1974	2006	1971	1966	1946	1926	194
2	1963	1951	1926	1922	-1													
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3	1829	1793	1761	1752	-1													
1	ZT	3	100	1866	1870	1886	1901	1868	1837	1825	1813	1842	1868	1861	1853	1860	1869	188
8	1909	1888	1866	1861	-1													
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1	2106	2130	2146	2152	-1													
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0	2430	2515	2591	2610	-1													
1	ZT	3	115	3267	3245	3150	3055	3088	3111	3096	3076	2995	2920	2935	2956	2955	2950	294
4	2929	3060	3190	3222	-1													

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6		3663	3820	3976	4016	-1												
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2		2217	2240	2260	2267	-1												
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2		2263	2260	2259	2259	-1												
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4		2394	2361	2343	2338	-1												
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4		2551	2513	2488	2479	-1												
1	ZT	4	45	2513	2509	2499	2504	2544	2593	2626	2656	2680	2689	2685	2681	2681	2692	269
5		2675	2647	2625	2617	-1												
1	ZT	4	50	2589	2583	2563	2551	2570	2621	2652	2668	2685	2691	2687	2682	2682	2695	269
9		2695	2691	2685	2683	-1												
1	ZT	4	55	2566	2553	2516	2486	2497	2536	2563	2579	2592	2601	2591	2580	2583	2601	261
4		2613	2621	2622	2623	-1												
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3		2489	2484	2485	2485	-1												
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9		2389	2382	2377	2376	-1												
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5		2258	2268	2265	2265	-1												
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2		2136	2146	2142	2140	-1												
1	ZT	4	80	2259	2245	2201	2162	2119	2075	2036	2023	2022	2013	2034	2038	2034	2015	200
3		2005	1994	1986	1984	-1												
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7		1793	1761	1726	1718	-1												
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7		1706	1671	1641	1632	-1												
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3		1848	1836	1824	1821	-1												
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9		2558	2640	2710	2729	-1												
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1		3854	3978	4101	4132	-1												
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9		2234	2264	2286	2294	-1												
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5		2324	2338	2348	2351	-1												
1	ZT	5	35	2210	2199	2169	2162	2204	2291	2364	2421	2454	2460	2456	2447	2450	2461	246
8		2472	2473	2470	2469	-1												

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5	2417	2440	2459	2467	-1													
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1	ZT	5	80	2317	2301	2249	2203	2157	2106	2041	2008	2011	2012	2023	2006	1971	1910	186
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7	1696	1650	1614	1604	-1													
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7	1668	1611	1566	1553	-1													
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1	1668	1615	1571	1559	-1													
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9	2206	2236	2256	2263	-1													
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6	2651	2728	2792	2810	-1													
1	ZT	5	115	2909	2896	2843	2790	2855	2911	2939	2965	2895	2834	2864	2899	2986	3069	311
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1	ZT	6	20	1852	1880	1965	2059	2134	2157	2132	2101	2085	2080	2088	2102	2127	2167	221
3	2254	2289	2314	2322	-1													
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7	2282	2305	2327	2334	-1													
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1	ZT	6	35	2228	2220	2199	2159	2152	2237	2335	2406	2436	2437	2431	2429	2444	2463	248
9	2516	2540	2547	2550	-1													
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5	2665	2689	2700	2703	-1													
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5	2770	2802	2821	2827	-1													
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7	2788	2830	2859	2869	-1													
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4	2719	2771	2808	2820	-1													
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5 2423	2455	2482	2491	-1												
1 ZT 6	70	2338	2338	2339	2336	2288	2224	2151	2107	2093	2090	2098	2112	2111	2118	215
5 2197	2224	2245	2252	-1												
1 ZT 6	75	2316	2307	2281	2257	2202	2137	2053	2014	2007	2005	2013	2022	1997	1955	194
8 1955	1971	1979	1982	-1												
1 ZT 6	80	2256	2242	2197	2164	2133	2083	2026	1980	1985	1982	1999	1987	1938	1849	177
8 1724	1702	1693	1690	-1												
1 ZT 6	85	2179	2172	2152	2131	2110	2079	2050	1979	1945	1943	1954	1936	1884	1783	167
8 1581	1525	1489	1479	-1												
1 ZT 6	90	2292	2283	2259	2220	2158	2084	2011	1943	1904	1914	1908	1898	1876	1787	170
0 1615	1551	1503	1489	-1												
1 ZT 6	95	2002	1996	1980	1958	1904	1853	1832	1818	1840	1861	1851	1831	1800	1760	170
0 1641	1574	1516	1500	-1												
1 ZT 6	100	2035	2027	2001	1968	1912	1860	1840	1828	1855	1883	1885	1884	1896	1908	189
1 1876	1836	1795	1785	-1												
1 ZT 6	105	2177	2166	2124	2073	2023	1976	1951	1939	1956	1982	2008	2039	2100	2166	221
4 2266	2288	2299	2304	-1												
1 ZT 6	110	2442	2429	2378	2319	2298	2275	2258	2253	2251	2265	2306	2358	2451	2550	264
0 2728	2828	2914	2938	-1												
1 ZT 6	115	2882	2872	2829	2788	2838	2881	2905	2929	2898	2875	2908	2946	3019	3086	315
7 3220	3379	3535	3574	-1												
1 ZT 6	120	3617	3605	3555	3507	3569	3632	3676	3722	3696	3670	3689	3707	3748	3787	384
8 3907	4095	4280	4326	-1												
1 ZT 7	20	1787	1817	1906	2014	2116	2157	2136	2105	2088	2085	2094	2107	2126	2163	221
4 2258	2291	2315	2323	-1												
1 ZT 7	25	1771	1799	1880	1980	2107	2187	2210	2211	2203	2202	2208	2215	2226	2242	226
3 2287	2311	2332	2339	-1												
1 ZT 7	30	2088	2084	2072	2072	2110	2203	2266	2287	2293	2292	2396	2299	2312	2329	235
6 2378	2402	2414	2419	-1												
1 ZT 7	35	2331	2323	2298	2258	2229	2276	2344	2391	2407	2409	2404	2408	2420	2444	247
8 2509	2533	2541	2544	-1												
1 ZT 7	40	2489	2484	2471	2434	2392	2415	2477	2518	2529	2528	2518	2520	2542	2572	260
9 2647	2673	2684	2688	-1												
1 ZT 7	45	2636	2630	2614	2572	2526	2548	2591	2620	2619	2616	2607	2626	2640	2670	270
6 2747	2780	2800	2807	-1												
1 ZT 7	50	2760	2744	2697	2640	2572	2579	2615	2646	2648	2647	2640	2644	2653	2680	272
1 2765	2811	2844	2856	-1												
1 ZT 7	55	2713	2698	2651	2591	2526	2492	2523	2556	2578	2589	2580	2570	2569	2592	264
3 2702	2757	2798	2812	-1												
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5 2573	2625	2664	2677	-1												
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6 2394	2445	2483	2496	-1												
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9 2165	2199	2228	2237	-1												
1 ZT 7	75	2245	2238	2219	2204	2162	2107	2053	2025	2024	2019	2032	2036	2018	1972	193
7 1922	1943	1960	1966	-1												
1 ZT 7	80	2226	2215	2186	2167	2136	2088	2031	1983	1978	1981	2000	1997	1959	1881	178
7 1715	1693	1694	1694	-1												
1 ZT 7	85	2234	2228	2212	2194	2155	2109	2046	1976	1939	1937	1950	1950	1907	1827	171
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9 1649	1589	1545	1532	-1	1971	1920	1871	1841	1818	1830	1841	1834	1817	1793	1761	170
6 1654	1588	1530	1514	-1	1974	1924	1878	1857	1843	1855	1868	1865	1859	1876	1894	189
1 1891	1849	1806	1795	-1	2068	2021	1977	1963	1960	1970	1988	1998	2014	2078	2146	220
6 2270	2283	2286	2290	-1	2301	2281	2257	2258	2273	2273	2288	2319	2361	2447	2538	263
3 2726	2802	2865	2883	-1	2761	2806	2845	2891	2936	2929	2931	2958	2991	3046	3095	315
6 3209	3332	3454	3484	-1	3488	3536	3587	3654	3721	3721	3723	3749	3774	3791	3808	385
1 3897	4050	4200	4237	-1	2029	2137	2172	2144	2107	2090	2087	2094	2106	2126	2161	220
1 7 2245	2271	2290	2297	-1	2044	2149	2210	2216	2206	2196	2194	2199	2206	2217	2233	225
1 2269	2284	2297	2302	-1	2183	2197	2245	2279	2286	2288	2285	2290	2292	2301	2312	233
1 2348	2362	2367	2369	-1	2390	2334	2334	2367	2400	2411	2408	2404	2402	2404	2420	244
1 2468	2482	2483	2484	-1	2539	2472	2456	2490	2531	2547	2545	2533	2521	2525	2548	256
1 2593	2612	2617	2619	-1	2628	2561	2559	2597	2638	2648	2647	2631	2630	2625	2643	266
6 2692	2715	2726	2730	-1	2637	2564	2566	2610	2654	2667	2668	2656	2643	2637	2648	268
0 2708	2740	2765	2773	-1	2537	2480	2468	2516	2555	2586	2598	2590	2569	2555	2562	259
1 2788	2835	2708	2627	-1	2428	2370	2339	2364	2401	2432	2459	2464	2452	2430	2426	245
1 2640	2683	2717	2727	-1	2328	2288	2255	2250	2265	2282	2337	2323	2311	2295	2285	231
8 2517	2564	2602	2615	-1	2254	2218	2183	2159	2149	2142	2149	2171	2174	2161	2141	214
5 2376	2419	2454	2467	-1	2195	2163	2124	2084	2059	2035	2037	2059	2072	2062	2027	198
1 2788	2281	2262	2242	-1	2147	2125	2087	2044	2002	1977	1981	2012	2024	2008	1946	187
6 1966	1979	1997	2003	-1	2136	2117	2080	2039	1988	1955	1951	1963	1975	1955	1900	181
0 1798	1777	1782	1783	-1	2058	2051	2027	1992	1962	1987	1954	1954	1936	1901	1872	180
0 1708	1658	1629	1620	-1	1903	1870	1840	1828	1821	1841	1861	1837	1804	1785	1760	173
0 1736	1679	1639	1628	-1	1921	1886	1854	1846	1843	1865	1888	1866	1841	1856	1870	188
1 1706	1643	1588	1573	-1	2055	2021	1990	1969	1958	1967	1984	1990	2001	2051	2106	217
7 1906	1867	1828	1818	-1	2344	2331	2315	2286	2268	2258	2264	2303	2354	2428	2508	258
1 2238	2250	2252	2255	-1	2806	2789	2806	-1								
1 2651	2726	2789	2806	-1												

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3	2385	2325	2284	2270	-1													
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8	2508	2470	2445	2437	-1													
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8	2424	2460	2497	2511	-1													
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6	2350	2397	2428	2440	-1													
1	ZT	10	70	2278	2276	2267	2264	2240	2222	2199	2171	2137	2125	2141	2169	2181	2186	220
4	2248	2286	2307	2315	-1													
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1	ZT	10	80	1987	1989	1991	2006	2011	2014	2013	2015	2017	2022	2049	2044	2052	2074	210
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1	ZT	10	90	1752	1760	1788	1830	1861	1926	1976	1975	2004	2036	2014	1970	1977	1983	199
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1	1853	1837	1822	1819	-1													
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2	1916	1918	1917	1917	-1													
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0 2455	2470	2482	2485	-1												
1 ZT 11	65	2431	2424	2406	2377	2353	2336	2315	2305	2294	2314	2283	2296	2316	2333	235
9 2394	2393	2393	2393	-1												
1 ZT 11	70	2269	2263	2246	2224	2197	2181	2168	2159	2139	2124	2131	2154	2185	2224	226
7 2310	2313	2314	2314	-1												
1 ZT 11	75	2061	2058	2055	2055	2034	2035	2045	2048	2041	2043	2065	2079	2106	2154	220
5 2248	2267	2277	2280	-1												
1 ZT 11	80	1815	1820	1838	1858	1886	1933	1985	2017	2030	2034	2056	2059	2084	2129	217
5 2205	2233	2252	2259	-1												
1 ZT 11	85	1631	1642	1677	1722	1795	1884	1963	2013	2020	1999	2011	2027	2082	2101	212
7 2141	2154	2163	2166	-1												
1 ZT 11	90	1552	1566	1599	1671	1787	1871	1945	1981	1979	1996	1992	1973	2022	2045	206
4 2109	2115	2119	2120	-1												
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9 1965	1965	1961	1961	-1												
1 ZT 11	100	1839	1846	1873	1900	1896	1895	1896	1897	1911	1923	1885	1848	1861	1881	193
3 1988	1997	2002	2004	-1												
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2 2106	2141	2167	2175	-1												
1 ZT 11	110	2818	2802	2746	2678	2593	2503	2420	2341	2311	2293	2288	2296	2293	2300	232
5 2346	2408	2459	2472	-1												
1 ZT 11	115	3362	3340	3249	3158	3115	3063	3001	2935	2910	2890	2926	2972	2936	2900	285
6 2804	2864	2925	2939	-1												
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3 3518	3589	3661	3680	-1												
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0 2128	2074	2021	2003	-1												
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3 2102	2035	1972	1952	-1												
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8 2118	2057	2024	2013	-1												
1 ZT 12	35	2628	2619	2595	2567	2535	2504	2477	2453	2442	2440	2447	2435	2398	2335	224
8 2195	2170	2173	2173	-1												
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9 2321	2314	2324	2328	-1												
1 ZT 12	45	2883	2872	2841	2812	2776	2748	2713	2677	2645	2640	2641	2660	2635	2580	249
3 2456	2460	2469	2472	-1												
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8 2543	2566	2580	2584	-1												
1 ZT 12	55	2833	2820	2781	2735	2690	2647	2619	2599	2607	2617	2613	2593	2549	2506	249
5 2529	2569	2591	2598	-1												
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5 2314	2326	2332	2334	-1												
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1 ZT 12	90	1502	1516	1562	1625	1713	1799	1887	1916	1939	1922	1925	1927	1997	2115	210
5 2164	2186	2199	2204	-1	1661	1722	1786	1817	1841	1851	1851	1842	1833	1861	1898	193
1 ZT 12	95	1520	1536	1595	1661	1722	1786	1817	1841	1851	1851	1842	1833	1861	1898	193
8 1981	1996	2005	2009	-1	1911	1921	1933	1913	1894	1890	1883	1865	1848	1863	1885	193
1 ZT 12	100	1815	1825	1868	1911	1921	1933	1913	1894	1890	1883	1865	1848	1863	1885	193
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6 2334	2391	2439	2452	-1	3230	3155	3071	3031	2986	2971	2960	2943	2934	2888	2841	282
1 ZT 12	115	3561	3525	3379	3230	3155	3071	3031	2986	2971	2960	2943	2934	2888	2841	282
6 2803	2841	2882	2891	-1	3896	3830	3761	3755	3747	3746	3745	3731	3717	3651	3587	355
1 ZT 12	120	4287	4244	4071	3896	3830	3761	3755	3747	3746	3745	3731	3717	3651	3587	355
1 3518	3563	3610	3621	-1	17	30	18	-30	-92	-104	-65	8	77	125	162	19
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0 206	179	97	69	-1	-42	-63	-88	-129	-173	-190	-133	-41	9	52	120	19
1 ZU 1	25	-4	-8	-20	-42	-63	-88	-129	-173	-190	-133	-41	9	52	120	19
7 248	226	133	102	-1	-90	-133	-174	-222	-255	-267	-194	-58	8	55	139	23
1 ZU 1	30	10	5	-10	-90	-133	-174	-222	-255	-267	-194	-58	8	55	139	23
5 301	279	166	129	-1	-132	-198	-266	-325	-356	-342	-244	-69	28	102	183	26
1 ZU 1	35	19	5	-35	-132	-198	-266	-325	-356	-342	-244	-69	28	102	183	26
7 322	306	180	139	-1	-178	-261	-350	-431	-468	-426	-288	-87	50	163	253	31
1 ZU 1	40	17	-2	-64	-178	-261	-350	-431	-468	-426	-288	-87	50	163	253	31
4 341	322	186	140	-1	-225	-323	-428	-525	-580	-518	-377	-131	59	233	349	38
1 ZU 1	45	9	-16	-94	-225	-323	-428	-525	-580	-518	-377	-131	59	233	349	38
2 370	336	186	136	-1	-279	-386	-500	-587	-626	-527	-384	-132	99	309	439	43
1 ZU 1	50	-1	-34	-134	-279	-386	-500	-587	-626	-527	-384	-132	99	309	439	43
9 388	338	181	129	-1	-331	-454	-559	-609	-569	-379	-191	12	238	419	504	44
1 ZU 1	55	-18	-58	-177	-331	-454	-559	-609	-569	-379	-191	12	238	419	504	44
8 370	300	150	101	-1	-387	-531	-610	-586	-435	-189	-7	195	390	538	566	43
1 ZU 1	60	-33	-79	-219	-387	-531	-610	-586	-435	-189	-7	195	390	538	566	43
3 312	238	106	62	-1	-445	-595	-615	-498	-253	-30	123	305	445	561	570	41
1 ZU 1	65	-44	-97	-259	-445	-595	-615	-498	-253	-30	123	305	445	561	570	41
7 285	211	110	76	-1	-476	-627	-634	-436	-113	72	212	360	434	528	517	33
1 ZU 1	70	-50	-107	-278	-476	-627	-634	-436	-113	72	212	360	434	528	517	33
0 213	177	110	88	-1	-451	-580	-550	-382	-55	50	170	314	354	446	439	28
1 ZU 1	75	-45	-100	-264	-451	-580	-550	-382	-55	50	170	314	354	446	439	28
3 193	168	111	91	-1	-336	-384	-302	-224	-5	-3	104	208	231	339	355	23
1 ZU 1	80	-37	-81	-212	-336	-384	-302	-224	-5	-3	104	208	231	339	355	23
2 133	163	114	98	-1	-129	-139	-59	-22	64	84	201	214	129	185	243	14
1 ZU 1	85	-25	-46	-110	-129	-139	-59	-22	64	84	201	214	129	185	243	14
4 98	117	76	62	-1	118	187	228	271	237	196	239	186	75	50	74	
1 ZU 1	90	14	21	41	118	187	228	271	237	196	239	186	75	50	74	
4 26	97	48	32	-1	238	341	386	442	401	330	333	229	70	6	3	-8
1 ZU 1	95	44	65	127	238	341	386	442	401	330	333	229	70	6	3	-8
6 -56	40	20	13	-1	256	366	437	497	465	387	385	265	74	-24	-51	-15
1 ZU 1	100	46	68	137	256	366	437	497	465	387	385	265	74	-24	-51	-15
4 -126	-12	-5	-3	-1	163	268	360	435	380	291	363	295	68	-93	-150	-28
1 ZU 1	105	22	33	65	163	268	360	435	380	291	363	295	68	-93	-150	-28
6 -211	-71	-36	-24	-1												

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START
COL

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1	ZU	3	40	101	132	224	207	122	17	-75	-152	-181	-167	-18	104	207	269	23
5	159	92	16	-8	-1													
1	ZU	3	45	118	153	259	254	150	22	-53	-78	-44	-14	85	189	261	317	29
2	218	140	48	18	-1													
1	ZU	3	50	124	163	278	286	168	25	-35	-2	96	121	193	272	306	352	32
7	250	166	65	32	-1													
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3	245	149	59	30	-1													
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8	242	132	57	32	-1													
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7	145	173	116	96	-1													
1	ZU	3	90	57	83	163	240	276	247	220	221	344	479	234	93	187	205	19
8	268	252	128	87	-1													
1	ZU	3	95	69	103	202	301	361	331	319	334	445	573	315	165	249	256	23
4	303	271	138	93	-1													
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1	ZU	3	105	53	80	162	256	323	355	358	401	546	715	413	221	291	268	22
5	255	230	115	76	-1													
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7	205	203	103	70	-1													
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6	203	211	108	73	-1													
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COL

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1	ZU	4	65	61	118	288	422	541	534	474	407	305	277	223	124	16	22	7
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1	ZU	4	75	52	79	163	260	385	457	393	212	10	-51	-167	-167	-105	-39	2
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7	92	76	68	65	-1													
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1	ZU	5	20	107	143	250	266	212	147	91	31	-23	-39	-20	-4	18	27	1
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1	ZU	5	25	163	217	378	388	292	171	64	-19	-91	-133	-102	-74	-31	-17	-2
8	-42	-46	-35	-32	-1													
1	ZU	5	30	184	257	477	513	411	274	136	18	-73	-152	-137	-94	-24	-11	-3
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7	-79	-72	-53	-46	-1													
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3	-145	-122	-75	-60	-1													
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1	ZU	5	65	133	203	415	453	609	822	796	574	298	101	-81	-173	-210	-232	-22
1	1	-226	-184	-98	-70	-1												
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1	1	-263	-202	-97	-62	-1												
1	ZU	5	75	151	203	358	348	385	570	531	296	24	-224	-460	-324	-201	-239	-27
4	-281	-195	-87	-51	-1													

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START COL	1	2	3	4	5	6	7	8	9	0								
1	ZU	5	80	133	174	296	282	291	404	345	199	25	-198	-290	-266	-115	-149	-20
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1	ZU	5	95	50	76	151	66	56	95	43	32	106	117	84	211	421	435	30
8	255	161	82	56	-1													
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5	271	167	83	56	-1													
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2	-21	-21	-12	-9	-1													
1	ZU	6	25	186	250	445	521	421	247	108	14	-66	-153	-135	-139	-106	-78	-6
9	-67	-61	-43	-37	-1													
1	ZU	6	30	223	302	540	644	591	399	205	58	-49	-175	-177	-168	-131	-106	-10
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1	ZU	6	35	224	311	574	694	702	600	384	195	36	-138	-180	-197	-170	-147	-14
4	-142	-111	-72	-59	-1													
1	ZU	6	40	223	313	581	698	792	812	607	358	111	-94	-183	-245	-233	-209	-20
1	-186	-128	-68	-49	-1													
1	ZU	6	45	227	313	574	687	863	984	812	463	115	-100	-233	-321	-312	-277	-26
3	-238	-155	-76	-49	-1													
1	ZU	6	50	227	308	550	652	873	1090	945	533	106	-135	-291	-381	-375	-340	-32
0	-293	-199	-105	-73	-1													
1	ZU	6	55	214	296	545	606	830	1149	1015	595	136	-101	-278	-394	-415	-404	-37
6	-342	-239	-118	-77	-1													
1	ZU	6	60	213	290	520	535	726	1091	1032	625	185	-43	-228	-370	-428	-468	-44
3	-405	-288	-136	-85	-1													
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1	ZU	6	75	218	269	420	385	389	592	549	274	44	-190	-361	-320	-348	-454	-50
4	-502	-345	-156	-92	-1													
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4	-370	-295	-135	-81	-1													
1	ZU	6	85	97	168	379	313	237	192	137	59	33	31	-135	-92	54	4	-12
5	-153	-193	-93	-60	-1													
1	ZU	6	90	91	138	281	141	65	80	15	-63	-25	52	-24	85	313	277	13
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1	ZU	6	95	73	111	223	51	-35	-2	-45	-94	-1	130	102	245	474	433	28
4	201	96	48	32	-1													
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5	-24	-14	-6	-3	-1													
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6	-43	-27	-10	-4	-1													
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1	-61	-37	-15	-8	-1													
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4	-87	-46	-12	0	-1													
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7	-154	-81	-11	12	-1													
1	ZU	8	55	315	409	693	607	561	616	578	381	94	0	40	-99	-272	-332	-29
5	-203	-129	-45	-17	-1													
1	ZU	8	60	270	345	570	486	473	614	637	477	192	88	88	-33	-215	-343	-34
2	-263	-193	-91	-57	-1													
1	ZU	8	65	237	296	474	403	395	529	605	483	285	125	59	-5	-150	-314	-37
3	-327	-272	-148	-107	-1													
1	ZU	8	70	220	267	408	349	330	487	584	460	303	104	-21	22	-89	-305	-41
4	-372	-320	-152	-96	-1													
1	ZU	8	75	217	257	377	313	265	391	489	371	219	19	-39	9	-34	-236	-37
8	-363	-330	-160	-103	-1													
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2	-79	-205	-110	-78	-1													
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1	ZU	9	20	136	197	378	472	369	211	89	17	-43	-90	-66	-68	-29	31	6
2	60	43	18	9	-1													
1	ZU	9	25	220	303	552	643	468	194	27	-48	-98	-175	-136	-130	-83	-14	3
0	46	44	29	24	-1													
1	ZU	9	30	254	353	650	708	541	219	40	-48	-99	-194	-157	-138	-86	-17	3
4	56	60	43	38	-1													
1	ZU	9	35	231	335	645	671	499	257	110	9	-77	-185	-137	-114	-65	-6	4
7	80	100	68	58	-1													
1	ZU	9	40	209	304	591	594	462	306	210	99	-30	-140	-75	-64	-42	-1	6
1	118	157	120	108	-1													
1	ZU	9	45	190	272	518	517	437	361	318	196	25	-50	20	-2	-18	0	7
6	154	208	168	155	-1													

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	12	8							
1	ZU	9	50	154	220	417	435	420	408	409	277	89	37	103	50	7	12	8
9	173	228	180	164	-1													
1	ZU	9	55	85	147	333	372	402	443	475	349	165	105	164	98	31	26	9
3	165	208	161	146	-1													
1	ZU	9	60	33	81	224	289	388	460	510	404	235	151	164	132	82	49	8
3	131	163	115	99	-1													
1	ZU	9	65	8	45	156	235	345	414	464	371	256	135	80	124	128	92	7
0	96	120	92	83	-1													
1	ZU	9	70	10	40	129	210	302	369	401	277	164	15	2	97	168	118	2
3	28	71	56	52	-1													
1	ZU	9	75	28	54	130	191	251	315	315	131	14	-130	-135	43	180	142	
9	-3	50	48	48	-1													
1	ZU	9	80	56	78	144	167	187	242	219	38	-140	-234	-213	-9	135	161	4
0	15	49	48	48	-1													
1	ZU	9	85	-3	45	189	200	184	126	113	58	-66	-116	-56	24	115	181	11
0	66	65	36	27	-1													
1	ZU	9	90	40	60	118	128	142	169	169	77	-40	-75	-1	103	220	285	24
8	188	138	71	49	-1													
1	ZU	9	95	46	68	133	158	183	208	217	146	39	12	96	206	323	375	31
8	253	180	91	62	-1													
1	ZU	9	100	43	63	125	153	187	218	242	191	95	75	159	266	373	407	32
9	260	178	90	60	-1													
1	ZU	9	105	30	45	90	102	128	205	238	193	83	46	126	248	370	403	31
3	203	138	70	47	-1													
1	ZU	9	110	20	31	61	48	48	106	126	85	-28	-97	-46	82	231	293	23
1	148	110	55	36	-1													
1	ZU	9	115	23	35	68	48	33	71	71	23	-102	-200	-175	-36	146	241	20
7	142	113	56	38	-1													
1	ZU	9	120	28	43	85	66	43	66	53	-3	-138	-261	-256	-111	103	220	20
3	150	123	63	43	-1													
1	ZU	10	20	115	159	289	351	247	122	34	-22	-71	-109	-67	-16	39	88	10
9	107	92	48	33	-1													
1	ZU	10	25	189	250	431	404	250	70	-32	-88	-140	-189	-126	-73	2	65	9
9	117	118	75	61	-1													
1	ZU	10	30	204	278	502	458	221	68	-13	-75	-145	-185	-118	-37	50	104	13
6	157	164	112	95	-1													
1	ZU	10	35	181	242	426	337	194	94	48	-9	-96	-138	-47	45	135	180	20
8	228	237	154	126	-1													
1	ZU	10	40	132	182	332	236	152	114	108	65	-20	-40	73	160	229	258	29
0	320	329	216	178	-1													
1	ZU	10	45	89	127	241	157	122	133	154	111	31	53	180	255	310	337	37
5	404	404	262	215	-1													
1	ZU	10	50	53	81	164	97	105	147	180	132	59	107	245	312	365	410	44
3	451	436	273	219	-1													
1	ZU	10	55	23	38	85	34	81	150	184	138	89	164	289	352	399	453	47
2	449	412	243	187	-1													
1	ZU	10	60	-11	6	59	24	70	136	169	129	110	192	273	357	420	465	46
8	410	355	202	151	-1													
1	ZU	10	65	-14	-2	31	-1	47	109	126	76	52	144	184	307	413	460	44
0	367	321	213	177	-1													
1	ZU	10	70	-3	2	21	-21	23	68	55	-67	-146	-61	-46	189	382	439	37
2	278	249	154	122	-1													

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START COL	1	2	3	4	5	6	7	8	9	0						
1 ZU 10	75	12	16	26	-34	-5	35	-8	-209	-306	-205	-130	101	338	399	31
0 215	203	133	109	-1	-34	-16	14	-53	-227	-265	-113	18	59	228	306	25
1 ZU 10	80	30	34	45	-34	-16	14	-53	-227	-265	-113	18	59	228	306	25
6 158	156	109	93	-1	63	57	37	-60	-126	-16	221	168	99	154	227	20
1 ZU 10	85	-4	28	128	63	57	37	-60	-126	-16	221	168	99	154	227	20
4 132	109	61	44	-1	103	155	189	92	-28	52	268	192	150	180	227	20
1 ZU 10	90	47	68	133	103	155	189	92	-28	52	268	192	150	180	227	20
3 160	122	61	41	-1	185	261	303	214	96	164	362	265	205	221	255	21
1 ZU 10	95	63	93	183	185	261	303	214	96	164	362	265	205	221	255	21
6 172	127	63	42	-1	193	281	353	287	173	235	432	323	246	239	254	20
1 ZU 10	100	63	93	186	193	281	353	287	173	235	432	323	246	239	254	20
4 153	110	55	36	-1	136	215	331	255	113	186	446	346	252	225	232	17
1 ZU 10	105	47	71	145	136	215	331	255	113	186	446	346	252	225	232	17
0 98	71	36	24	-1	76	127	215	107	-78	-10	305	261	176	132	147	10
1 ZU 10	110	38	56	112	76	127	215	107	-78	-10	305	261	176	132	147	10
3 53	46	23	16	-1	61	95	155	13	-218	-156	211	221	148	97	123	9
1 ZU 10	115	38	56	108	61	95	155	13	-218	-156	211	221	148	97	123	9
5 56	56	28	19	-1	63	87	131	-33	-303	-248	163	216	153	100	132	11
1 ZU 10	120	38	58	115	63	87	131	-33	-303	-248	163	216	153	100	132	11
3 76	76	38	26	-1	154	109	62	8	-50	-114	-110	-37	28	89	132	14
1 ZU 11	20	68	88	150	154	109	62	8	-50	-114	-110	-37	28	89	132	14
5 142	122	65	45	-1	84	28	-17	-52	-101	-165	-168	-78	-10	64	117	15
1 ZU 11	25	67	83	129	84	28	-17	-52	-101	-165	-168	-78	-10	64	117	15
4 172	161	100	80	-1	12	-40	-57	-59	-98	-172	-149	-41	53	143	187	21
1 ZU 11	30	69	81	118	12	-40	-57	-59	-98	-172	-149	-41	53	143	187	21
3 231	220	141	115	-1	-37	-98	-98	-68	-90	-146	-93	51	179	275	317	31
1 ZU 11	35	60	60	61	-37	-98	-98	-68	-90	-146	-93	51	179	275	317	31
2 301	282	176	140	-1	-91	-144	-137	-94	-104	-128	-32	154	315	429	464	41
1 ZU 11	40	43	37	19	-91	-144	-137	-94	-104	-128	-32	154	315	429	464	41
9 374	336	202	157	-1	-130	-175	-175	-142	-162	-174	-34	189	399	561	604	53
1 ZU 11	45	28	16	-19	-130	-175	-175	-142	-162	-174	-34	189	399	561	604	53
0 437	367	201	146	-1	-164	-204	-202	-190	-233	-251	-61	201	446	641	693	59
1 ZU 11	50	13	-4	-59	-164	-204	-202	-190	-233	-251	-61	201	446	641	693	59
2 459	366	192	134	-1	-200	-231	-237	-233	-283	-277	-50	223	487	687	728	60
1 ZU 11	55	-4	-28	-103	-200	-231	-237	-233	-283	-277	-50	223	487	687	728	60
8 440	316	157	103	-1	-234	-260	-256	-261	-294	-260	-1	249	511	704	715	56
1 ZU 11	60	-24	-55	-150	-234	-260	-256	-261	-294	-260	-1	249	511	704	715	56
6 392	277	141	95	-1	-271	-289	-262	-256	-275	-242	4	199	432	618	628	49
1 ZU 11	65	-36	-75	-191	-271	-289	-262	-256	-275	-242	4	199	432	618	628	49
4 355	269	158	120	-1	-295	-307	-283	-295	-361	-395	-209	19	297	541	566	41
1 ZU 11	70	-40	-82	-206	-295	-307	-283	-295	-361	-395	-209	19	297	541	566	41
4 304	275	187	158	-1	-296	-298	-267	-283	-365	-468	-313	-94	189	440	481	33
1 ZU 11	75	-28	-71	-203	-296	-298	-267	-283	-365	-468	-313	-94	189	440	481	33
8 260	269	188	161	-1	-215	-211	-167	-200	-287	-346	-237	-54	129	295	358	26
1 ZU 11	80	-7	-41	-144	-215	-211	-167	-200	-287	-346	-237	-54	129	295	358	26
0 199	249	177	154	-1	-40	-28	-10	-86	-122	-129	4	108	112	172	240	18
1 ZU 11	85	-12	-14	-19	-40	-28	-10	-86	-122	-129	4	108	112	172	240	18
0 144	189	107	79	-1	108	192	220	176	51	-13	60	110	131	152	156	11
1 ZU 11	90	34	48	92	108	192	220	176	51	-13	60	110	131	152	156	11
1 108	168	83	55	-1	217	331	363	338	207	117	154	163	147	140	121	6
1 ZU 11	95	56	83	165	217	331	363	338	207	117	154	163	147	140	121	6
0 60	133	66	43	-1												

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2	10	95	46	30	-1												
1	ZU 11	105	35	53	108	150	263	358	326	162	46	155	217	166	80	16	-7
6	-61	46	23	16	-1												
1	ZU 11	110	20	31	63	76	161	221	145	-95	-222	13	196	156	18	-60	-14
7	-115	16	8	6	-1												
1	ZU 11	115	18	26	53	51	115	143	21	-298	-433	-71	220	198	28	-58	-14
1	-103	30	16	11	-1												
1	ZU 11	120	18	26	50	43	92	101	-53	-433	-576	-108	270	263	66	-23	-10
5	-66	58	30	20	-1												
1	ZU 12	20	4	5	9	34	48	40	-3	-62	-98	-60	1	63	118	152	17
5	199	192	103	74	-1												
1	ZU 12	25	-5	-10	-23	-42	-52	-60	-85	-123	-159	-121	-39	19	82	141	20
9	267	268	172	140	-1												
1	ZU 12	30	0	-8	-36	-110	-123	-126	-142	-170	-201	-144	-22	51	140	214	28
9	359	361	239	198	-1												
1	ZU 12	35	1	-15	-64	-101	-193	-195	-216	-239	-247	-163	0	113	244	363	40
8	435	408	255	204	-1												
1	ZU 12	40	-1	-23	-90	-212	-254	-265	-301	-348	-318	-198	-7	166	379	542	54
3	497	427	244	183	-1												
1	ZU 12	45	-5	-33	-117	-259	-310	-331	-393	-476	-463	-288	-78	170	489	706	67
0	548	434	228	159	-1												
1	ZU 12	50	-14	-50	-156	-307	-361	-392	-471	-583	-589	-372	-128	178	558	805	73
1	555	418	209	139	-1												
1	ZU 12	55	-31	-74	-201	-356	-414	-446	-519	-611	-585	-323	-77	258	627	832	71
3	516	386	180	112	-1												
1	ZU 12	60	-47	-98	-253	-407	-473	-486	-532	-563	-468	-191	33	372	701	842	65
8	451	346	165	105	-1												
1	ZU 12	65	-57	-114	-286	-449	-512	-508	-495	-432	-304	-70	111	399	668	755	57
2	413	358	223	178	-1												
1	ZU 12	70	-60	-120	-300	-468	-530	-537	-475	-364	-242	-40	103	365	623	694	45
7	308	319	207	169	-1												
1	ZU 12	75	-50	-109	-286	-447	-508	-470	-382	-363	-217	-43	78	286	493	582	36
8	267	295	199	167	-1												
1	ZU 12	80	-33	-81	-225	-343	-357	-259	-201	-257	-129	3	87	226	333	468	29
3	197	255	175	149	-1												
1	ZU 12	85	-18	-38	-100	-116	-104	-3	-47	-24	63	233	192	142	172	326	22
1	144	180	108	83	-1												
1	ZU 12	90	19	28	56	118	222	266	245	174	190	286	174	73	116	196	9
0	56	153	76	51	-1												
1	ZU 12	95	48	71	138	233	370	428	421	339	326	381	216	68	70	124	
4	-30	93	46	31	-1												
1	ZU 12	100	46	70	140	241	385	467	465	397	373	426	248	68	32	60	-7
5	-106	38	20	13	-1												
1	ZU 12	105	20	31	65	142	280	386	386	281	256	400	273	61	-35	-25	-19
8	-198	-21	-11	-7	-1												
1	ZU 12	110	1	3	6	56	166	237	187	-5	-40	258	286	85	-83	-101	-28
0	-268	-63	-33	-23	-1												
1	ZU 12	115	-3	-5	-8	26	112	150	46	-236	-278	175	343	163	-53	-88	-26
8	-258	-51	-26	-17	-1												
1	ZU 12	120	-4	-7	-16	12	83	96	-45	-403	-455	131	413	256	5	-41	-21
8	-210	-14	-6	-4	-1												

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1 SP	20	-80	4	4	4	3	-1	1	-1	-3	-2	-3	-4	-3	-1	-1	-3	2			
3	1	20	-70	5	6	6	4	-1	0	-1	-5	-3	-5	-6	-5	-1	-1	-3	2		
5	4	1	20	-60	6	7	6	4	-1	0	-2	-5	-4	-6	-6	-5	-1	-1	-2	3	
5	5	1	20	-50	6	6	5	4	-1	0	-2	-5	-3	-5	-6	-5	-3	-2	-1	1	
4	5	1	20	-40	3	3	3	1	-1	1	-2	-4	-4	-4	-5	-1	2	1	0	3	
3	3	1	20	-30	1	2	0	-2	-1	1	-2	-2	0	-1	0	1	2	2	0	0	
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1	3	1	20	-10	1	1	1	1	-1	-1	-2	-2	-1	-1	-1	-1	1	1	2	2	
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1	1	1	20	10	3	3	2	1	-1	-3	-2	-2	-4	-2	-2	1	0	2	2	2	
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1	5	6	1	20	30	9	8	7	3	-1	-1	1	0	-1	-4	-8	-9	-8	-5	-2	1
4	8	1	20	40	10	13	14	8	2	-2	0	4	5	2	-5	-9	-11	-11	-10	-7	7
1	5	5	1	20	50	21	26	24	12	-3	-14	-12	-3	4	5	2	-6	-12	-17	-17	-13
10	3	1	20	60	39	43	34	14	-10	-27	-26	-14	-2	5	4	-5	-17	-24	-24	-15	15
1	3	25	1	20	70	39	41	31	13	-8	-23	-23	-15	-5	2	1	-7	-18	-25	-23	-11
7	27	1	20	80	23	24	20	11	1	-7	-11	-10	-8	-6	-6	-9	-12	-14	-11	-4	4
6	17	1	25	-90	2	2	2	1	-1	0	-1	-2	-2	-2	-2	-2	-1	-1	-1	1	1
2	1	1	25	-70	4	4	2	1	-2	-1	-2	-3	-3	-4	-3	-2	-1	-1	-1	2	2
1	3	3	1	25	-60	4	5	2	1	-2	-2	-4	-4	-4	-4	-2	0	1	0	3	3
3	4	1	25	-50	4	4	3	2	-1	-1	-2	-3	-2	-3	-3	-2	-1	0	1	1	1
1	2	3	1	25	-40	2	3	3	2	-1	0	-2	-2	-3	-3	-4	-1	1	0	1	1
0	2	1	25	-30	1	3	2	2	1	-1	-2	-2	-1	-2	-2	-1	2	1	-1	-1	-1
1	2	1	25	-20	2	2	2	2	1	-2	-3	-2	-1	-1	-3	-2	-1	1	2	0	0
1	2	1	25	-10	1	2	3	2	1	-1	-1	-2	-1	-1	-1	-1	0	1	-1	-1	-1
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MEMBER: SCIDAT9

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1 SP	1	35	-70	3	3	2	0	1	2	1	-1	-2	-2	-3	-4	-2	-1	0	0	
2	3																			
1 SP	1	35	-60	2	1	1	-1	-2	1	0	-1	-2	0	-1	-1	-2	-1	2	2	
2	2																			
1 SP	1	35	-50	1	1	1	-1	-2	0	-1	-2	0	0	0	1	-2	-1	2	2	
2	2																			
1 SP	1	35	-40	1	1	2	1	-1	1	1	-1	-1	0	0	0	-2	-1	1	-1	
-1	-1																			
1 SP	1	35	-30	1	2	3	-1	0	-1	0	-2	-2	0	0	-1	-1	1	1	-1	
-1	-1																			
1 SP	1	35	-20	3	2	1	0	-1	-3	-2	-1	-2	-2	-2	-1	1	2	3	-1	
0	2																			
1 SP	1	35	-10	3	2	2	0	-1	-2	-1	-2	-1	-1	0	-1	1	0	1	-2	
-1	1																			
1 SP	1	35	0	2	2	1	0	-1	-2	-1	-1	-1	0	1	1	1	1	1	-1	
-1	0																			
1 SP	1	35	10	-1	-1	2	1	-1	1	2	1	1	1	1	-1	-1	-1	1	-1	
-1	-2																			
1 SP	1	35	20	0	-2	-2	-3	-3	-1	2	5	6	6	4	1	1	0	-3	-4	
-3	-1																			
1 SP	1	35	30	1	-3	-6	-12	-13	-9	-1	7	11	11	8	5	2	2	-1	0	
0	2																			
1 SP	1	35	40	22	12	-1	-16	-25	-25	-18	-7	1	3	0	-3	-4	0	5	14	
20	25																			
1 SP	1	35	50	74	58	29	-4	-30	-46	-50	-43	-33	-29	-30	-33	-28	-14	9	36	
61	75																			
1 SP	1	35	60	135	115	73	21	-28	-64	-82	-84	-78	-71	-69	-69	-58	-32	8	56	1
01	131																			
1 SP	1	35	70	142	126	87	36	-14	-57	-82	-92	-91	-86	-82	-78	-65	-36	5	54	1
02	134																			
1 SP	1	35	80	89	92	74	38	-2	-31	-52	-69	-76	-79	-68	-52	-30	-12	5	34	
66	76																			
1 SP	1	40	-80	2	2	5	7	8	9	1	-4	-4	-4	-4	-4	-4	-4	-4	-3	
-1	3																			
1 SP	1	40	-70	2	2	1	0	0	2	1	-1	-1	-1	-1	-2	-3	-2	-1	0	-1
2	2																			
1 SP	1	40	-60	1	0	-1	-2	-3	1	0	-1	-1	1	0	-1	-2	-1	2	2	
2	2																			
1 SP	1	40	-50	1	1	1	-1	-2	0	-1	-1	0	1	1	1	-3	-1	2	2	
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1 SP	1	40	-40	1	1	2	0	-1	1	1	-1	-1	1	0	-1	-2	-1	1	-1	
-2	-1																			
1 SP	1	40	-30	2	2	3	-1	-1	-1	-1	-3	-2	0	0	-1	-1	1	1	-1	
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1 SP	1	40	-10	3	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	0	1	-1
0	1																			
1 SP	1	40	0	2	2	2	0	-1	-1	0	-1	-1	-1	-1	-1	-1	1	0	1	-1
0	0																			
1 SP	1	40	10	-1	1	2	1	0	1	2	1	1	1	1	-1	-1	-1	-1	-2	
-1	-2																			

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1 SP	1	50	-40	1	1	2	0	-1	1	1	-1	1	1	-1	-3	-1	1	-1		
-1	-1	50	-30	1	1	2	-1	-1	0	0	-2	1	1	-1	-1	1	1	0		
1 SP	1	50	-20	2	1	0	-2	-2	-1	0	0	-1	-2	0	0	1	3	1		
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1 SP	1	50	0	1	1	1	-1	0	1	2	1	0	-1	-2	0	-1	-1	-2		
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1 SP	1	50	20	-4	-6	-4	-3	-1	3	7	11	10	7	4	1	0	-1	-4	-5	
-1	-1	50	30	-18	-22	-22	-21	-14	-1	13	23	26	24	18	12	8	5	0	-4	-
1 SP	1	50	40	-19	-33	-43	-47	-41	-25	-3	18	31	35	32	26	22	21	17	13	-
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1 SP	1	50	60	71	37	-4	-41	-68	-83	-84	-74	-58	-40	-25	-12	8	34	62	85	-
98	96	50	70	84	56	19	-18	-50	-75	-87	-87	-77	-61	-43	-26	-2	27	57	83	1
1 SP	1	50	80	77	66	42	13	-19	-46	-61	-74	-73	-66	-48	-26	0	4	29	49	-
00	103	55	-80	1	0	2	5	7	7	-2	-5	-4	-4	-4	-1	-3	-2	-1	-1	-
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1 SP	1	55	-60	0	-2	-2	-3	-3	1	0	-1	1	4	4	1	-1	-1	2	1	-
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1 SP	1	55	-40	-1	-1	1	-1	-1	2	2	0	0	2	2	1	-2	-1	0	-1	-
-2	-2	55	-30	-1	0	2	-1	0	2	2	-1	-1	2	2	-1	-1	1	0	-2	-
1 SP	1	55	-20	1	-1	-1	-1	0	2	3	2	1	-1	-2	0	0	-1	1	-2	-
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1 SP	1	55	0	1	-1	-1	0	1	3	3	2	0	-1	-1	-2	-1	-1	-1	-2	-
-1	-1	55	10	0	-2	1	1	1	2	2	3	2	0	0	-2	-1	-1	-1	-2	-
1 SP	1	55	20	-6	-8	-5	-3	-1	4	9	12	10	7	4	1	1	-1	-4	-5	-
-6	-6																			-

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MEMBER: SCIDAT9

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-9 -15	1	55	40	-25	-41	-49	-52	-45	-26	-4	18	32	38	37	34	30	27	20	14	
3 -9	1	55	50	1	-27	-55	-71	-73	-61	-43	-16	6	20	28	32	38	46	51	52	
45 29	1	55	60	52	15	-22	-53	-74	-82	-82	-70	-52	-29	-8	8	25	47	67	84	
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1 SP	1	55	80	64	41	21	0	-20	-35	-49	-61	-60	-46	-24	-15	4	-10	31	42	
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2 0	1	60	-30	0	1	0	-1	-2	1	1	-1	-2	0	1	1	1	2	1	1	
-1 -2	1	60	-20	1	-1	-1	-1	1	3	4	2	0	-2	0	-1	-1	1	1	-1	
1 SP	1	60	-10	1	-1	-1	0	2	5	5	3	-1	-1	-2	-2	-2	-1	-3	-3	
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1 SP	1	60	10	-1	-3	0	1	1	2	3	3	2	1	1	-2	-1	1	1	-2	
-1 -2	1	60	20	-7	-9	-6	-2	1	5	9	11	10	7	5	2	2	-1	-4	-6	
1 SP	1	60	30	-24	-27	-25	-21	-12	3	15	24	27	23	20	15	10	6	0	-3	-
11 -18	1	60	40	-30	-42	-49	-49	-41	-20	2	25	37	39	38	34	28	23	16	9	9
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1 SP	1	60	60	31	3	-25	-47	-60	-64	-59	-45	-30	-14	-1	8	23	40	53	63	63
29 10	1	60	70	38	21	-1	-19	-33	-44	-52	-52	-40	-21	-6	4	12	23	34	42	42
68 56	1	60	80	45	40	29	12	-4	-17	-30	-43	-47	-34	-24	-12	-6	-4	4	18	18
1 SP	1	65	-80	1	1	0	-3	-6	-5	-6	-5	-3	-1	2	2	2	3	5	7	7
47 48	1	65	-70	-1	1	0	-3	-7	-4	-5	-4	-1	1	3	3	2	2	4	7	7
33 43	1	65	-60	-1	1	1	-3	-6	-3	-4	-4	-2	1	3	3	2	1	4	7	7
1 SP	1	65	-50	-1	1	1	-3	-6	-3	-4	-4	-2	1	3	3	2	1	4	7	7
5 2	1	65	-40	-1	1	1	-3	-6	-3	-4	-4	-2	1	3	3	2	1	4	7	7
1 SP	1	65	-30	-1	1	1	-3	-6	-3	-4	-4	-2	1	3	3	2	1	4	7	7
4 1	1	65	-20	-1	1	1	-3	-6	-3	-4	-4	-2	1	3	3	2	1	4	7	7
1 SP	1	65	-10	-1	1	1	-3	-6	-3	-4	-4	-2	1	3	3	2	1	4	7	7
1 SP	1	65	0	-1	1	1	-3	-6	-3	-4	-4	-2	1	3	3	2	1	4	7	7
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3	1																		
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1 SP	1	65	-30	2	1	0	-1	-2	0	1	-2	-3	-3	-1	1	1	1	1	1
1	2																		
1 SP	1	65	-20	2	-1	-1	1	2	4	5	2	-2	-4	-4	-2	-3	-2	1	-1
0	1																		
1 SP	1	65	-10	1	-2	-2	0	3	6	7	4	-1	-2	-2	-2	-2	0	0	-2
-2	-2																		
1 SP	1	65	0	-2	-2	-1	1	2	5	5	3	-1	-1	-2	-2	-3	-2	0	-1
-2	-3																		
1 SP	1	65	10	-3	0	1	1	2	4	3	1	0	1	0	1	-2	-1	2	-1
-2	-4																		
1 SP	1	65	20	-8	-9	-5	-2	2	6	9	11	9	6	4	1	2	-1	-4	-6
-7	-8																		
1 SP	1	65	30	-21	-23	-21	-16	-8	6	17	24	24	18	15	11	8	4	-1	-5
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1 SP	1	65	40	-29	-39	-43	-42	-34	-13	7	26	35	36	33	29	24	18	11	5
-5	-16																		
1 SP	1	65	50	-16	-33	-45	-50	-45	-32	-15	6	19	24	24	24	28	30	30	28
20	4																		
1 SP	1	65	60	21	0	-20	-35	-44	-45	-42	-31	-20	-9	0	5	16	29	39	47
51	41																		
1 SP	1	65	70	26	16	2	-10	-19	-26	-33	-34	-24	-9	0	2	4	10	17	23
27	30																		
1 SP	1	65	80	31	28	20	9	-2	-7	-13	-25	-32	-24	-19	-9	-6	-7	-2	10
23	29																		
1 SP	1	70	-80	2	3	1	-3	-6	-5	-6	-7	-4	-2	1	2	3	3	5	7
6	3																		
1 SP	1	70	-70	-1	2	-1	-5	-8	-5	-6	-6	-3	1	3	5	4	3	4	7
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1 SP	1	70	-60	0	3	1	-4	-7	-4	-5	-6	-4	-1	2	4	3	2	4	7
5	2																		
1 SP	1	70	-50	1	2	-1	-3	-4	-1	-2	-4	-4	-2	1	2	1	0	2	5
4	2																		
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1 SP	1	70	-30	3	1	-1	0	-1	0	1	-2	-4	-3	-2	1	1	0	1	1
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1	2																		
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-3	-3																		
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1 SP	1	70	10	-4	-4	0	2	2	4	6	5	2	0	1	-1	-2	-2	2	-1
-3	-6																		
1 SP	1	70	20	-7	-8	-4	0	3	8	11	11	8	4	2	0	1	-1	-4	-6
-7	-8																		
1 SP	1	70	30	-20	-20	-17	-12	-5	9	19	24	21	15	12	9	6	2	-4	-7
13	-18																		

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5																
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4																
1 SP	80	-20	6	6	5	4	2	0	-2	-4	-5	-6	-5	-4	-2	0
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1 SP	80	-10	4	4	-5	-10	-5	1	2	-3	-4	4	5	-1	3	8
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1 SP	80	0	-2	2	-1	-4	-1	5	8	4	1	4	5	-1	-4	-3
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1 SP	80	20	-3	-4	-3	-1	1	6	9	8	5	2	0	0	1	-1
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1 SP	80	30	-17	-12	-8	-8	-4	9	21	24	17	12	9	6	0	-4
13																
1 SP	80	40	-30	-35	-34	-29	-18	3	25	37	37	32	27	19	6	-3
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1 SP	80	50	2	-1	-2	-5	-7	-2	5	10	11	8	2	-7	-14	-13
10																
1 SP	80	60	28	29	26	21	11	0	-11	-15	-12	-13	-19	-29	-18	-7
14																
1 SP	80	70	33	34	28	23	18	9	-4	-13	-14	-13	-19	-30	-33	-26
8																
1 SP	80	80	24	25	22	14	7	6	7	-4	-21	-26	-29	-20	-16	-11
16																
1 SP	85	-80	3	3	4	4	3	2	1	0	-1	-3	-5	-4	-2	-1
2																
1 SP	85	-70	3	0	0	1	1	-1	-1	-1	-2	-3	-2	-2	-1	2
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1 SP	85	-40	8	7	5	4	1	-2	-5	-7	-7	-8	-8	-6	-3	1
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1 SP	85	-30	6	5	4	2	0	-3	-4	-5	-5	-6	-5	-4	-2	0
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1 SP	85	-20	7	8	7	5	2	-2	-5	-6	-6	-7	-6	-4	-1	0
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3																
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5																
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1 SP	85	40	-24	-26	-8	3	4	22	40	41	19	-3	-8	-10	-21	-28
15																

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START
COL

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11	21																		
1 SP	1	85	60	29	46	54	48	27	-3	-27	-15	3	18	4	-30	-44	-36	-32	-32
19	6																		
1 SP	1	85	70	18	21	20	32	46	41	16	1	8	16	4	-25	-41	-41	-42	-42
29	-2																		
1 SP	1	85	80	0	12	20	13	6	20	40	28	-10	-7	-19	3	-2	-27	-38	-25
-9	-5																		
1 SP	1	90	-80	4	3	5	6	7	5	3	2	0	-4	-7	-7	-7	-4	-5	-4
-2	1																		
1 SP	1	90	-70	5	0	1	4	5	1	1	1	-1	-5	-4	-4	-3	0	1	-2
-1	3																		
1 SP	1	90	-60	13	8	8	9	8	0	-4	-5	-8	-12	-13	-13	-8	-3	1	2
5	10																		
1 SP	1	90	-50	16	15	18	15	13	5	0	-4	-10	-16	-18	-19	-14	-9	-5	-2
4	12																		
1 SP	1	90	-40	10	10	7	6	3	-2	-7	-8	-9	-10	-11	-9	-5	2	2	5
8	10																		
1 SP	1	90	-30	7	7	6	2	1	-4	-6	-6	-6	-7	-6	-6	-3	0	3	5
6	7																		
1 SP	1	90	-20	9	12	10	6	1	-4	-9	-10	-7	-7	-6	-7	-4	0	0	5
7																			
1 SP	1	90	-10	9	13	-7	-24	-18	-13	-10	-4	1	19	19	0	-2	6	17	-2
-7	2																		
1 SP	1	90	0	8	11	-3	-15	-11	-4	-1	1	2	13	14	0	-7	-4	5	-3
-5	1																		
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1	4																		
1 SP	1	90	20	12	7	2	-1	-3	0	1	-1	-6	-9	-9	-6	-3	-3	-2	1
7	13																		
1 SP	1	90	30	-17	2	15	8	-1	9	22	16	-1	-6	-2	-4	-12	-13	1	5
-6	-17																		
1 SP	1	90	40	-24	-24	-5	7	9	28	47	46	20	-4	-10	-14	-28	-37	-25	-3
15	3																		
1 SP	1	90	50	27	36	44	35	20	19	18	13	9	3	-13	-41	-66	-68	-45	-19
8	23																		
1 SP	1	90	60	33	58	72	69	47	13	-17	-11	5	16	-3	-42	-61	-54	-49	-47
32	1																		
1 SP	1	90	70	24	29	30	43	57	51	23	5	8	12	-4	-37	-54	-51	-51	-49
32	0																		
1 SP	1	90	80	1	14	22	17	10	23	44	32	-9	-11	-25	-2	-6	-30	-40	-26
-9	-5																		
1 SP	2	20	-80	7	6	4	5	3	1	-1	-2	-4	-7	-5	-4	-3	-3	-4	0
3	5																		
1 SP	2	20	-70	7	6	4	5	2	1	-2	-2	-4	-7	-5	-3	-2	-2	-5	1
3	6																		
1 SP	2	20	-60	7	6	4	5	2	0	-2	-3	-4	-7	-5	-2	-2	-1	-3	1
3	6																		
1 SP	2	20	-50	7	5	3	3	1	-1	-3	-3	-5	-6	-6	-2	-2	-1	-2	1
2	6																		
1 SP	2	20	-40	1	0	-1	-1	-1	-2	-3	-1	-2	-4	-2	1	3	1	2	2
2	3																		

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DATASET: CWEJ412.GRAMDD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0			
1 SP	2	20	-1	-2	-1	1	1	2	2	1	3	2	-1
-3	-2												
1 SP	2	20	-20	-1	0	-1	1	1	2	-2	1	-1	1
-2	1												
1 SP	2	20	-10	-1	1	2	2	0	-1	1	1	-2	0
-1	-1												
1 SP	2	20	0	2	2	2	1	-2	-1	0	0	-2	-1
2	0												
1 SP	2	20	10	3	3	1	-1	-4	-3	-3	-1	-3	-2
3	3												
1 SP	2	20	20	6	4	4	1	-3	-3	-5	-4	-3	-1
4	6												
1 SP	2	20	30	7	6	5	2	-1	-1	0	1	0	-1
1	6												
1 SP	2	20	40	5	9	10	7	3	0	3	7	9	6
-7	0												
1 SP	2	20	50	12	19	19	14	4	-5	-2	8	15	14
13	1												
1 SP	2	20	60	27	35	34	22	4	-10	-10	0	10	12
-9	12												
1 SP	2	20	70	34	40	36	24	6	-7	-10	-3	4	4
-3	18												
1 SP	2	20	80	22	26	24	17	9	3	-1	-2	-2	-5
0	13												
1 SP	2	25	-80	6	5	3	3	1	1	-2	-3	-5	-4
3	4												
1 SP	2	25	-70	6	5	2	2	-1	-1	-3	-4	-4	-5
3	4												
1 SP	2	25	-60	5	4	1	1	-2	-1	-4	-4	-4	-3
2	4												
1 SP	2	25	-50	5	4	1	1	-2	-1	-3	-3	-3	0
2	4												
1 SP	2	25	-40	2	2	0	0	-1	-1	-3	-2	-2	-3
0	2												
1 SP	2	25	-30	1	1	1	1	0	0	-1	-1	1	0
-2	-1												
1 SP	2	25	-20	0	1	2	2	2	0	0	1	1	-3
-2	1												
1 SP	2	25	-10	-1	0	2	2	2	0	0	-1	1	-1
-1	-1												
1 SP	2	25	0	1	1	1	2	-1	-1	-2	-1	0	-1
1	0												
1 SP	2	25	10	1	-1	2	2	-2	-5	-3	0	1	-1
2	-1												
1 SP	2	25	20	2	-1	2	2	-1	-2	-1	0	-4	1
0	-1												
1 SP	2	25	30	7	6	5	0	-4	-4	-3	-1	0	-3
1	5												
1 SP	2	25	40	15	16	14	7	-1	-5	-5	-2	0	-2
3	11												
1 SP	2	25	50	34	38	33	21	5	-7	-9	-5	-3	-5
6	23												

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0										
1 SP	2	35	-20	0	-1	2	2	2	0	1	0	-1	0	-3	-1	1	1	0	-2	
-1	1																			
1 SP	2	35	-10	-1	0	1	2	2	0	-1	-1	0	0	-1	0	0	-1	-1	-1	
-1	1																			
1 SP	2	35	0	1	1	1	1	0	-1	-2	-1	-1	0	0	-1	0	1	1	0	
1	1																			
1 SP	2	35	10	1	1	2	1	-2	-3	-3	-1	0	1	1	0	0	1	1	1	
2	0																			
1 SP	2	35	20	1	-1	0	-1	-2	-2	-1	2	1	2	1	0	1	1	-1	-1	
O	1																			
1 SP	2	35	30	3	2	1	-3	-6	-4	-2	1	2	2	2	2	3	1	2	2	
1	2																			
1 SP	2	35	40	15	11	6	-3	-12	-17	-17	-14	-11	-8	-6	-4	0	6	10	14	
15	17																			
1 SP	2	35	50	54	47	32	10	-12	-30	-37	-37	-36	-33	-31	-29	-20	-6	11	27	
41	52																			
1 SP	2	35	60	102	96	71	37	-3	-35	-50	-54	-55	-54	-58	-63	-58	-39	-9	25	
60	89																			
1 SP	2	35	70	103	103	86	56	19	-12	-33	-46	-55	-64	-72	-79	-74	-54	-24	14	
51	83																			
1 SP	2	35	80	75	77	67	44	23	2	-14	-32	-48	-62	-69	-72	-52	-33	-18	17	
37	60																			
1 SP	2	40	-80	2	1	0	-2	14	5	-4	-5	-6	-5	-4	-6	-3	1	2	2	
3	3																			
1 SP	2	40	-70	3	2	1	-1	1	-1	-5	-5	-4	-1	1	-1	1	2	1	2	
2	3																			
1 SP	2	40	-60	1	-1	-1	-2	-1	-1	-3	-4	0	3	4	2	-2	0	1	1	
3	2																			
1 SP	2	40	-50	2	-1	-1	-3	-2	-1	-1	-2	1	2	2	2	-1	-1	0	1	
2	2																			
1 SP	2	40	-40	2	1	-1	-2	-2	-1	0	-2	-1	0	1	2	-1	1	0	0	
2	2																			
1 SP	2	40	-30	2	1	2	-1	0	-1	0	-2	-2	-1	0	0	1	2	0	0	
O	2																			
-1	1																			
1 SP	2	40	-20	0	-1	2	1	2	0	1	-1	-1	-1	-3	-1	1	1	1	-2	
-1	2																			
1 SP	2	40	-10	-1	-1	1	2	2	1	0	-1	-1	-1	0	-1	0	-1	-1	-1	
-1	1																			
1 SP	2	40	0	1	1	1	1	0	0	-1	-1	-1	-1	0	-1	-1	0	0	0	
1	1																			
1 SP	2	40	10	2	1	2	1	-1	-3	-2	0	-1	1	1	-1	-1	0	0	-1	
1	0																			
1 SP	2	40	20	2	-1	0	-1	-2	-2	0	3	3	2	2	0	0	0	-2	-2	
O	1																			
1 SP	2	40	30	0	-2	-2	-6	-6	-5	-2	2	3	5	4	3	4	3	4	2	2
-1	0																			
1 SP	2	40	40	8	3	-3	-11	-17	-20	-18	-14	-8	-4	-1	4	9	14	16	17	
14	13																			
1 SP	2	40	50	47	36	18	-3	-24	-40	-46	-45	-41	-34	-27	-18	-4	13	29	42	
48	51																			
1 SP	2	40	60	96	82	56	22	-17	-47	-62	-68	-69	-66	-61	-55	-38	-11	22	52	
76	93																			

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DATASET: CWEJ412.GRAMOD90.DATA
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START COL	1	2	3	4	5	6	7	8	9	0								
1 SP	2	50	-10	-1	-1	1	2	3	2	2	1	-1	-2	-1	-2	-2	-1	-2
-2	1																	
1 SP	2	50	0	1	1	1	1	2	2	2	1	0	-1	-1	-2	-2	-1	-2
-1	1																	
1 SP	2	50	10	2	1	3	2	1	0	1	2	0	1	-1	-2	-3	-2	-3
0	1																	
1 SP	2	50	20	1	-2	0	-1	-2	-1	2	4	4	3	2	1	0	-1	-3
-2	-1																	
1 SP	2	50	30	-6	-7	-6	-8	-8	-5	0	5	8	9	8	7	7	1	0
-4	-5																	
1 SP	2	50	40	-6	-12	-15	-19	-22	-22	-18	-11	-4	3	9	16	23	27	24
9	2																	
1 SP	2	50	50	28	11	-6	-23	-39	-50	-53	-48	-39	-26	-11	5	23	40	50
47	40																	
1 SP	2	50	60	68	46	17	-14	-44	-65	-72	-72	-66	-54	-38	-21	2	29	56
79	78																	
1 SP	2	50	70	72	54	28	-1	-27	-46	-58	-64	-65	-61	-52	-39	-16	14	42
76	77																	
1 SP	2	50	80	65	47	34	15	2	-14	-28	-43	-52	-57	-55	-46	-28	-13	14
50	71																	
1 SP	2	55	-80	0	0	-4	-5	21	0	-2	-3	-4	-4	-3	-6	-3	2	2
4	2																	
1 SP	2	55	-70	3	2	1	-1	2	-1	-3	-4	-3	1	3	0	-1	-1	0
2	2																	
1 SP	2	55	-60	1	-1	-2	-2	-1	1	-2	-2	1	4	5	2	-3	-2	-2
1	2																	
1 SP	2	55	-50	3	0	-2	-2	-2	-1	-2	-4	-1	1	2	3	-1	-1	1
2	3																	
1 SP	2	55	-40	2	0	-1	-2	-2	-1	-1	-2	-1	2	2	3	0	1	0
0	2																	
1 SP	2	55	-30	1	-1	2	0	1	1	2	-1	-1	1	1	0	0	1	-2
-2	0																	
1 SP	2	55	-20	-1	-1	4	4	4	4	5	3	1	-2	-5	-2	-2	-3	-4
-3	1																	
1 SP	2	55	-10	-2	-2	2	3	4	5	5	3	2	0	-2	-2	-2	-4	-3
-3	-1																	
1 SP	2	55	0	-1	-1	1	2	3	3	4	3	2	1	-1	-2	-3	-2	-3
-2	0																	
1 SP	2	55	10	1	1	3	3	3	2	2	3	1	0	-1	-2	-3	-2	-3
-1	0																	
1 SP	2	55	20	-1	-3	0	-1	-1	-1	2	4	5	4	3	2	2	0	-4
-3	-2																	
1 SP	2	55	30	-8	-10	-9	-11	-10	-7	-1	5	8	10	10	11	11	10	4
8	0																	
1 SP	2	55	40	-9	-16	-19	-22	-24	-22	-18	-10	-2	4	12	20	27	30	25
-3	-6																	
1 SP	2	55	50	19	3	-15	-29	-41	-54	-55	-49	-39	-23	-3	17	36	50	56
43	33																	
1 SP	2	55	60	49	27	0	-25	-51	-68	-71	-66	-62	-45	-23	-2	22	47	65
70	64																	
1 SP	2	55	70	53	35	12	-13	-34	49	-57	-65	-69	-59	-44	-21	6	33	63
65	71																	

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 SP	2	65	0	-3	-4	-2	0	2	2	3	3	3	2	1	-2	-1	0	-1	-2
-2																			
1 SP	2	65	10	-1	-2	1	2	2	1	2	3	3	2	1	-1	-2	0	-1	-3
-1																			
1 SP	2	65	20	-1	-2	0	2	1	0	1	3	3	3	4	2	2	0	-4	-6
-4																			
1 SP	2	65	30	-8	-9	-8	-7	-7	-7	-4	0	3	7	10	13	13	12	5	0
-5																			
1 SP	2	65	40	-15	-18	-17	-15	-16	-18	-16	-11	-2	6	15	24	30	31	22	12
0																			
1 SP	2	65	50	-1	-9	-17	-23	-29	-35	-33	-26	-15	0	16	26	35	38	33	24
13																			
1 SP	2	65	60	12	0	-15	-28	-41	-44	-35	-23	-13	1	14	18	21	28	32	29
26																			
1 SP	2	65	70	14	4	-10	-21	-25	-22	-17	-13	-12	-10	-7	-1	8	18	26	27
23																			
1 SP	2	65	80	35	27	10	-4	-9	-4	-2	-11	-24	-22	-26	-22	-20	-14	1	18
31																			
1 SP	2	70	-80	5	4	-1	-4	-7	-8	-8	-8	-5	-4	-1	4	4	5	5	7
6																			
1 SP	2	70	-70	4	4	-1	-4	-7	-6	-7	-7	-3	-2	1	5	4	5	3	6
5																			
1 SP	2	70	-60	5	4	-2	-5	-8	-7	-8	-9	-4	-4	0	6	5	6	4	7
5																			
1 SP	2	70	-50	6	4	1	-2	-3	-4	-6	-7	-5	-6	-4	2	3	3	3	5
4																			
1 SP	2	70	-40	4	3	-1	0	-3	-3	-4	-5	-4	-4	1	1	5	3	3	3
2																			
1 SP	2	70	-30	2	0	3	2	1	2	1	-3	-3	-4	-4	-2	-1	4	2	1
-1																			
1 SP	2	70	-20	-1	-3	2	5	7	7	6	4	1	-2	-6	-5	-3	-3	-2	-5
-4																			
1 SP	2	70	-10	-3	-4	-1	3	5	7	6	5	3	1	-2	-3	-3	-2	-2	-4
-3																			
1 SP	2	70	0	-5	-6	-5	-1	1	2	3	4	4	4	2	0	-1	2	1	-1
-2																			
1 SP	2	70	10	-4	-4	-1	1	1	-1	1	4	4	3	3	0	-1	0	-1	-2
-1																			
1 SP	2	70	20	0	-1	2	4	2	0	1	4	3	3	3	1	1	-2	-6	-7
-2																			
1 SP	2	70	30	-7	-7	-4	-3	-3	-5	-4	-1	2	6	10	12	12	10	1	-3
-3																			
1 SP	2	70	40	-18	-19	-16	-11	-11	-12	-12	-7	0	7	16	24	28	28	17	7
-7																			
1 SP	2	70	50	-7	-11	-15	-17	-21	-24	-21	-13	-3	9	22	26	29	27	19	9
-5																			
1 SP	2	70	60	0	-6	-15	-23	-30	-28	-15	-2	7	17	24	18	14	13	12	8
0																			
1 SP	2	70	70	-3	-6	-13	-18	-14	-4	6	14	15	13	7	3	1	3	4	1
6																			
1 SP	2	70	80	24	18	5	-8	-8	3	10	2	-11	-11	-17	-16	-19	-17	-5	10
-3																			
1 SP	2	70	80	24	18	5	-8	-8	3	10	2	-11	-11	-17	-16	-19	-17	-5	10
20																			

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START COL	1	2	3	4	5	6	7	8	9	10								
1 SP 7	2	75	-80	5	4	-2	-5	-7	-9	-9	-5	-5	-2	3	5	5	5	8
1 SP 5	2	75	-70	3	2	-3	-6	-8	-8	-7	-2	-3	0	5	6	6	4	7
1 SP 6	2	75	-60	4	2	-3	-6	-8	-8	-9	-4	-4	-1	5	7	7	5	7
1 SP 5	2	75	-50	6	3	1	-2	-2	-4	-6	-8	-6	-7	-6	1	4	4	6
1 SP 2	2	75	-40	3	3	-1	0	-3	-2	-3	-5	-4	-5	2	2	5	3	3
1 SP 2	2	75	-30	2	0	5	4	2	4	1	-3	-4	-5	-4	-3	-2	3	0
1 SP 2	2	75	-20	-1	-3	2	6	9	9	7	4	0	-2	-6	-5	-4	-2	-2
1 SP 2	2	75	-10	-4	-6	-2	3	6	7	6	5	3	1	-2	-3	-3	-2	-1
1 SP 2	2	75	0	-8	-9	-7	-2	-1	2	4	5	7	6	5	3	1	4	3
1 SP 2	2	75	10	-7	-7	-3	1	1	1	3	6	7	7	6	2	-2	-1	-2
1 SP 2	2	75	20	0	0	4	7	4	2	2	4	4	2	2	0	0	-4	-8
1 SP 2	2	75	30	-8	-6	-2	0	0	-1	1	3	5	7	9	10	7	4	-3
1 SP 2	2	75	40	-19	-19	-15	-10	-9	-8	-6	0	7	12	19	23	24	19	9
1 SP 2	2	75	50	-10	-10	-11	-11	-13	-15	-10	-2	7	16	25	24	20	14	5
1 SP 2	2	75	60	-5	-5	-9	-12	-17	-12	1	13	18	24	24	12	1	-3	-5
1 SP 2	2	75	70	-4	0	0	0	6	16	27	33	29	19	4	-10	-19	-22	-22
1 SP 2	2	75	80	16	12	0	-9	-6	9	21	16	0	-3	-13	-15	-21	-21	-11
1 SP 2	2	80	-80	5	2	-1	-4	-7	-9	-10	-9	-8	-5	-2	1	4	7	9
1 SP 2	2	80	-70	-4	-5	-6	-7	-6	-5	-3	-1	2	4	5	6	7	6	5
1 SP 2	2	80	-60	-2	-5	-7	-8	-9	-8	-6	-4	-1	2	5	7	8	9	8
1 SP 2	2	80	-50	5	4	2	0	-2	-4	-6	-6	-6	-5	-4	-2	0	2	4
1 SP 2	2	80	-40	6	5	4	3	1	-1	-3	-5	-6	-6	-5	-4	-3	-1	1
1 SP 2	2	80	-30	7	9	9	8	6	4	1	-2	-5	-7	-9	-9	-8	-6	-4
1 SP 2	2	80	-20	3	5	7	7	7	6	4	2	-1	-3	-5	-7	-7	-7	-6
1 SP 2	2	80	-10	-4	-3	-1	4	10	10	3	-4	-8	-2	3	3	4	4	0
1 SP 2	2	80	0	-10	-9	-6	-1	4	5	2	-1	0	9	13	10	6	3	1
1 SP 2	2	80	-8	-10	-9	-6	-1	4	5	2	-1	0	9	13	10	6	3	1

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START
COL

1	SP	2	80	10	-7	-6	-2	2	3	1	-3	-5	0	9	14	8	-1	-4	-1	1		
-2	-6	1	SP	2	80	20	1	2	6	8	7	4	1	0	-2	-2	1	3	1	-6	-11	-10
-3	1	1	SP	2	80	30	-9	-3	5	9	8	4	1	-1	-2	1	6	9	6	-1	-6	-8
-9	-10	1	SP	2	80	40	-24	-16	-7	-3	-2	2	4	1	1	11	23	25	17	9	5	5
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PAGE: 75

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1 SP	5	40	60	3	2	3	2	2	1	2	2	1	0	-2	-5	-5	-4	-3	-1
2	2																		
1 SP	5	40	70	5	3	2	2	-1	-2	1	2	2	2	-1	-3	-4	-4	-3	-1
2	3																		
1 SP	5	40	80	3	0	22	5	-7	-5	-3	-2	-1	-4	-3	-2	-2	-3	2	-1
2	-2																		
1 SP	5	45	-80	13	9	1	-8	6	-9	-18	-20	-20	-16	-11	-3	2	11	13	18
18	16																		
1 SP	5	45	-70	15	9	-1	-11	-19	-25	-26	-24	-20	-14	-5	1	9	17	22	25
26	23																		
1 SP	5	45	-60	11	2	-9	-19	-26	-29	-29	-24	-17	-7	-1	7	15	23	28	29
27	23																		
1 SP	5	45	-50	1	-8	-14	-18	-20	-20	-17	-12	-7	1	6	11	15	18	21	20
17	11																		
1 SP	5	45	-40	-9	-12	-13	-11	-9	-5	-1	4	5	8	9	9	9	9	7	5
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1 SP	5	45	-30	-12	-11	-8	-4	0	4	6	10	9	10	8	6	4	2	0	-4
-7	-10																		
1 SP	5	45	-20	-10	-8	-5	-1	3	5	7	9	9	8	5	4	1	-1	-2	-6
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1 SP	5	45	-10	-4	-3	-2	0	2	2	2	3	4	4	3	2	1	0	-2	-3
-3	-3																		
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-1	-1																		
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1 SP	5	45	20	2	1	2	3	2	2	1	2	2	0	-2	-4	-3	-2	-2	-2
-2	1																		
1 SP	5	45	30	1	1	1	3	2	3	2	3	3	1	-2	-4	-5	-3	-4	-1
-2	0																		
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-1	0																		

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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-8	-14																		
1 SP	5	55	-20	-14	-12	-8	-4	1	5	8	12	12	12	8	7	4	1	-2	-7
10	-12																		
1 SP	5	55	-10	-5	-4	-3	-1	1	1	3	4	5	5	3	2	2	0	-1	-3
-4	-4																		
1 SP	5	55	0	-3	-3	-2	-1	0	0	0	2	3	2	1	1	2	1	-1	0
-1	-2																		
1 SP	5	55	10	-1	-2	1	1	0	-1	4	3	1	0	-2	0	-1	-1	-1	-1
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1 SP	5	55	60	-1	-1	-1	0	1	2	3	4	3	2	-1	-3	-4	-3	-1	-1
-1	0																		
1 SP	5	55	70	1	-1	-1	-3	-3	-1	1	3	4	4	2	-1	-3	-3	-2	-1
2	1																		
1 SP	5	55	80	2	-11	8	7	-7	-6	-3	-1	0	-3	-3	-2	-3	-5	7	6
9	4																		
1 SP	5	60	-80	1	-8	-15	-20	-23	-24	-22	-20	-15	-4	5	14	21	25	26	25
20	12																		
1 SP	5	60	-70	-6	-18	-27	-32	-34	-32	-26	-18	-8	6	17	26	31	34	31	28
19	9																		
1 SP	5	60	-60	-14	-26	-33	-36	-34	-29	-20	-9	2	16	25	31	33	31	27	22
12	1																		
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-7	-13																		
1 SP	5	60	-20	-12	-11	-9	-5	0	3	6	9	9	10	7	6	5	4	1	-3
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1 SP	5	60	-10	-4	-5	-5	-3	-1	-1	1	3	4	4	3	3	3	3	2	-1
-2	-3																		
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1 SP	5	60	10	0	-2	-1	1	-1	-2	-1	3	2	1	-1	-2	0	0	0	-1
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-1	-1																		
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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

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3	2																	
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1 SP	5	70	30	-1	-2	-1	1	3	7	6	7	6	3	1	-4	-6	-5	-7
-3	-1																	
1 SP	5	70	40	0	-2	0	3	4	7	5	6	5	2	-3	-6	-7	-4	-1
-2	-3																	
1 SP	5	70	50	3	3	3	4	5	5	3	2	2	0	-4	-5	-6	-7	-3
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1 SP	5	70	60	1	2	2	4	3	2	3	4	3	1	-3	-4	-5	-6	-4
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1 SP	5	70	80	1	3	3	5	5	4	4	2	2	0	-3	-3	-4	-5	-3
-2	-1																	
1 SP	5	75	-80	-3	-11	-16	-20	-22	-19	-15	-12	-9	0	8	16	21	24	23
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1 SP	5	75	-70	-14	-24	-29	-32	-30	-24	-14	-6	0	12	21	28	30	30	26
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-3	-4																	
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 SP	-3	-2	5	80	-80	4	-1	-7	-11	-13	-15	-15	-13	-10	-5	1	7	12	16	17	17
1 SP	13	9	5	80	-70	-6	-12	-17	-19	-19	-16	-10	-4	3	8	13	16	17	17	15	11
1 SP	7	1	5	80	-60	-10	-13	-14	-13	-9	-2	7	14	19	20	17	11	4	-1	-5	-6
1 SP	-7	-9	5	80	-50	-10	-9	-6	-2	5	12	18	21	20	15	7	-1	-7	-12	-13	-13
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1 SP	2	3	5	80	-20	2	2	2	3	3	2	-1	-3	-6	-7	-7	-4	-2	2	4	5
1 SP	4	4	5	80	-10	9	7	3	0	-4	-7	-10	-11	-11	-9	-7	-3	0	4	7	10
1 SP	11	11	5	80	0	10	8	5	2	-2	-5	-8	-10	-10	-10	-8	-5	-2	2	5	8
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1 SP	-8	-6	5	80	50	-2	-1	-1	0	1	2	2	2	2	2	1	1	0	-1	-2	-2
1 SP	-2	-2	5	80	60	-2	-2	-1	0	0	1	2	2	2	2	2	1	0	0	-1	-2
1 SP	-2	-2	5	80	70	1	1	0	-1	-1	-2	-2	-2	-2	-1	-1	0	1	1	2	2
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1 SP	5	1	5	85	-60	-5	-6	-6	-4	-1	5	12	18	20	18	12	2	-6	-11	-14	-13
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1 SP	4	7	5	85	-20	5	5	4	5	4	1	-2	-5	-9	-10	-10	-6	-4	2	4	7
1 SP	7	7	5	85	-20	5	5	4	5	4	1	-2	-5	-9	-10	-10	-6	-4	2	4	7

START COL	1	2	3	4	5	6	7	8	9	0												
1 SP	6	25	0	1	2	2	1	0	-1	-1	0	0	-1	-1	-1							
1 SP	1	6	25	10	3	1	3	-2	-4	-3	1	1	0	0	-3	0	-2	-1	-2			
1 SP	2	1	6	25	20	4	0	5	3	-1	-3	-1	4	1	1	-1	-1	-7	-1	-3	2	-1
1 SP	0	6	25	30	2	2	3	2	0	-1	-1	0	1	0	-3	-4	-4	-1	2	2	2	2
1 SP	2	6	25	40	1	2	2	2	1	1	-1	1	0	-1	-3	-6	-4	-1	3	3	3	3
1 SP	1	6	25	50	2	1	1	2	1	0	-1	1	0	-1	-3	-4	-3	-2	1	2	2	2
1 SP	2	6	25	60	1	1	0	-1	-1	-1	1	1	1	0	-1	-2	-1	0	1	1	0	1
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1 SP	-2	6	30	-80	19	21	22	17	13	9	1	-9	-17	-21	-21	-21	-18	-12	-4	2	2	2
1 SP	7	14	6	30	-70	29	30	28	21	13	6	-4	-13	-18	-20	-22	-23	-18	-14	-7	2	11
1 SP	17	23	6	30	-60	26	26	22	13	6	-1	-10	-18	-23	-22	-18	-11	-4	2	5	7	11
1 SP	16	20	6	30	-50	18	16	11	6	-1	-10	-18	-23	-22	-18	-11	-4	2	5	7	11	11
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1 SP	-2	0	6	30	-10	-1	0	1	1	1	1	-1	1	1	1	0	-1	0	-1	-1	-1	-1
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1 SP	0	1	6	30	10	3	1	3	3	-2	-5	-3	1	1	1	0	-3	0	-1	-1	-1	-3
1 SP	2	1	6	30	20	4	-1	5	4	0	-2	1	5	2	2	-1	-7	-2	-3	-2	-4	-4
1 SP	-3	-2	6	30	30	1	1	4	3	1	2	2	3	3	1	-2	-6	-6	-3	-1	-1	-1
1 SP	-3	-1	6	30	40	2	2	3	3	2	2	1	2	1	-1	-3	-7	-7	-3	2	3	3
1 SP	-1	1	6	30	50	3	2	2	2	1	1	2	0	-1	-4	-6	-6	-3	-1	2	2	2
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1 SP	1	2	6	30	70	-1	-1	-2	-1	-1	0	1	3	3	3	1	-2	-2	-2	-1	1	1
1 SP	-1	-1	6	30	80	0	4	6	1	-3	-2	0	0	0	1	-1	1	-6	1	1	1	1
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DATESET: CWEJ412.GRAMODSO.DATA
MEMBER: SCIDAT9

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7 13																		
1 SP 6	35	-70	24	24	21	14	6	-3	-13	-17	-20	-21	-19	-15	-13	-9	-1	8
17 22																		
1 SP 6	35	-60	22	21	15	5	-2	-9	-15	-18	-16	-15	-13	-8	-7	-4	4	11
16 17																		
1 SP 6	35	-50	9	7	3	-1	-6	-12	-15	-16	-13	-7	-1	5	7	7	7	9
9 9																		
1 SP 6	35	-40	-2	-3	-5	-8	-9	-10	-8	-5	0	7	11	13	11	7	4	1
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-3 -4																		
1 SP 6	35	-20	-1	0	1	1	1	2	2	2	4	4	3	1	0	-3	-3	-3
-3 -3																		
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-2 -1																		
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1 SP 6	35	10	3	2	3	2	-1	-2	-1	2	1	0	-1	-2	-1	-3	-2	-3
1 2																		
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1 SP 6	35	30	2	2	4	5	4	5	4	4	2	-2	-2	-5	-7	-6	-5	-4
-4 -1																		
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-1 2																		
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0 2																		
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-4 -4																		
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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DATESET: CWEJ412.GRAMODSO.DATA
MEMBER: SCIDAT9

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DATASET: CWEJ412.GRAMOD90.DATA
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MEMBER: SCIDAT9

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8 9																			
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 SP	7	30	-30	0	-2	-4	-5	-4	-5	-4	-3	-2	1	1	4	5	5	5	4	4
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DATASET: CWEJ412.GRAMOD90.DATA
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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DATASET: CWEJ412.GRAMOD90.DATA
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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-2	4																	
1 SP	75	-80	-20	-31	-36	-34	-26	-19	-7	2	9	18	30	35	35	29	20	10
-1	-11																	
1 SP	75	-70	-30	-44	-48	-42	-29	-19	-7	2	9	18	35	43	46	41	29	15
-2	-16																	
1 SP	75	-60	-42	-55	-54	-40	-19	-6	6	11	12	17	29	38	43	42	32	16
-5	-24																	
1 SP	75	-50	-40	-51	-49	-34	-11	0	10	13	12	12	21	30	37	37	29	15
-6	-23																	
1 SP	75	-40	-34	-39	-30	-12	6	16	20	23	20	20	18	15	14	12	3	-7
16	-27																	
1 SP	75	-30	-14	-13	-5	5	14	15	12	11	8	6	0	-1	-1	-1	-3	-7
-9	-13																	
1 SP	75	-20	-5	-3	1	8	11	8	1	0	-1	-1	-5	-4	-1	0	1	-2
-3	-3																	
1 SP	75	-10	-1	-1	1	3	6	3	-2	-2	0	1	-2	-3	-1	1	-1	-2
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1 SP	75	0	3	2	4	7	7	5	0	-1	-2	-3	-5	-5	-3	-3	-2	-2
-1	-1																	
1 SP	75	10	4	3	7	9	5	1	-1	1	-2	-5	-7	-9	-5	-3	-2	-1
3																		
1 SP	75	20	5	3	9	11	6	6	5	5	2	-4	-8	-14	-11	-9	-5	-3
3																		
1 SP	75	30	5	4	9	12	11	12	11	9	5	-2	-8	-15	-18	-18	-12	-6
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1 SP	75	40	6	6	9	9	9	8	5	6	5	-1	-9	-13	-15	-12	-9	-4
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-3																		
1 SP	75	60	6	9	8	8	8	6	4	2	-1	-2	-7	-11	-12	-8	-7	-5
-2																		
1 SP	75	70	4	7	9	9	6	0	-3	1	5	4	-1	-5	-7	-8	-8	-9
-5																		
1 SP	75	80	8	8	8	7	6	5	5	4	-10	-2	-6	-10	-13	-12	-7	-7
1																		
1 SP	80	-80	-25	-32	-34	-31	-25	-15	-5	6	15	23	28	32	31	27	20	9
-3	-15																	
1 SP	80	-70	-31	-38	-38	-32	-23	-14	-7	1	7	15	24	32	38	38	31	17
0	-18																	
1 SP	80	-60	-45	-53	-47	-31	-13	1	8	8	5	6	12	25	38	45	42	26
2	-25																	
1 SP	80	-50	-48	-56	-50	-33	-13	3	11	12	9	9	14	26	38	46	41	25
-1	-28																	
1 SP	80	-40	-35	-35	-27	-10	7	20	25	22	15	8	4	7	11	14	12	3
11	-26																	
1 SP	80	-30	-9	-7	-1	6	12	14	13	8	3	-1	-4	-4	-3	-2	-2	-3
-6	-9																	
1 SP	80	-20	-5	-3	-1	4	7	8	6	3	-1	-5	-5	-3	-1	1	2	1
-2	-4																	
1 SP	80	-10	-3	-5	-6	-6	-5	-4	-2	0	2	3	5	6	6	5	4	2
0	-2																	

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TIME: 15:23
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 SP  7  90 -70 -31 -33 -29 -21 -15 -6 -5  0  4  9  11  19  29  34  33  20
  2  -20
1 SP  7  90 -60 -45 -49 -38 -20 -3  9  10  3  -6 -9 -8  10  30  46  52  38
  10 -24
1 SP  7  90 -50 -50 -58 -50 -32 -14  4  8  7  -1 -2  1  19  39  56  56  40
  9  -26
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1 SP  7  90 -10 -5 -8 -11 -14 -14 -10 -3  1  3  5  11  14  12  10  8  5
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  18 -8
1 SP  7  90  10  10  23  22  11  12  21  15 -9 -28 -20  2  4 -16 -27 -16 -2
  -3 -2
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  20  6
1 SP  7  90  30 -1  9  22  20  8  2  4 -2 -14 -16 -6 -8 -28 -37 -13  21
  27  9
1 SP  7  90  40  5  12  33  39  19 -4 -2  10  10 -1 -11 -17 -29 -41 -36 -12
  11  12
1 SP  7  90  50  16  28  43  44  22 -5 -9  7  15  6 -8 -19 -30 -43 -45 -28
  -5  9
1 SP  7  90  60  23  26  23  25  27  15 -5 -17 -16 -18 -28 -36 -26 -5  5 -1
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1 SP  7  90  80  29  24  21  9  4  3 -2 -12 -16 -43 -16 -27 -35 -29 -2  25
  36  33
1 SP  8  20 -80  18  22  23  21  16  10  2  -8 -15 -19 -18 -17 -16 -14 -11  -5
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1 SP  8  20 -70  24  30  33  30  24  13  0 -14 -24 -29 -26 -22 -18 -16 -14  -6
  4  14
1 SP  8  20 -60  20  27  29  26  19  10 -2 -15 -22 -23 -18 -13 -11 -11 -12  -7
  1  11
1 SP  8  20 -50  13  18  18  15  10  3  -5 -12 -15 -12 -7 -3 -2 -5 -8  -7
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  2  2
1 SP  8  20  0  1  1  2  2  1 -2 -3 -1 -1 -1 -2 -2  1  1 -2  1
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DATASET: CWEJ412.GRAM0090.DATA
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34	40																		
1 SP	8	30	-60	28	18	10	-3	-13	-18	-20	-19	-15	-15	-12	-10	-7	1	13	20
24	25																		
1 SP	8	30	-50	22	14	1	-11	-18	-21	-18	-13	-7	-3	0	1	0	0	4	11
19	24																		
1 SP	8	30	-40	8	2	-5	-11	-13	-10	-5	0	3	5	3	3	0	0	0	4
8	10																		
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-2	-3																		
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1 SP	8	35	-80	23	16	9	8	-1	-7	-18	-20	-23	-25	-19	-14	-5	2	17	21
20	22																		
1 SP	8	35	-70	27	16	5	-8	-19	-26	-27	-25	-23	-23	-17	-8	0	10	20	29
38	36																		
1 SP	8	35	-60	21	1	-12	-27	-31	-31	-27	-18	-9	-6	0	4	7	14	22	31
35	30																		
1 SP	8	35	-50	10	-3	-17	-27	-28	-23	-13	-4	4	8	9	8	5	6	11	18
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 2																				
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1 SP	8	60	60	3	4	3	2	2	1	3	3	2	1	-2	-4	-5	-5	-5	-4	
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1 -7																				
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1 5																				
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1 4																				
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1 3																				
1 SP	8	65	10	3	0	2	5	1	-3	-2	1	-1	-3	-3	-3	1	1	0	-1	
1 3																				
1 SP	8	65	20	5	1	5	7	2	0	1	2	-2	-5	-6	-6	-2	-3	-3	-1	
1 4																				
1 SP	8	65	30	8	6	7	5	1	2	1	-2	-5	-8	-8	-9	-8	-5	-1		
1 5																				

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1 SP 8 65 40 2 3 4 4 4 5 4 5 4 5 4 -1 -5 -7 -8 -7 -5 -1										
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-2 2										
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1 SP 8 65 70 4 5 3 -1 -2 -2 -1 0 1 1 1 -1 -3 -4 -3 -2										
0 2										
1 SP 8 65 80 -5 -4 0 3 2 -2 -1 3 7 2 4 3 2 1 -2 -5										
-5 -5										
1 SP 8 70 -80 13 14 12 13 14 13 11 6 -2 -10 -16 -19 -20 -16 -14 -6										
2 9										
1 SP 8 70 -70 -4 -1 1 11 21 27 29 23 13 1 -8 -15 -19 -17 -21 -16 -										
13 -7										
1 SP 8 70 -60 -28 -20 -10 12 33 47 52 46 34 18 2 -10 -18 -21 -33 -34 -										
36 -32										
1 SP 8 70 -50 -28 -20 -7 14 35 48 52 41 21 4 -9 -16 -19 -18 -20 -22 -										
26 -27										
1 SP 8 70 -40 -16 -11 0 18 31 38 34 21 5 -8 -19 -22 -20 -14 -10 -6										
-7 -11										
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0 -4										
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9 7										
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5 6										
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5 5										
1 SP 8 70 10 3 0 3 5 1 -2 -3 0 -2 -5 -5 -4 0 1 0 0										
4 4										
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6 6										
1 SP 8 70 30 9 7 9 7 3 3 3 3 3 -2 -6 -10 -10 -10 -7 -1										
1 SP 8 70 40 -1 0 2 3 3 5 5 8 7 2 -4 -5 -7 -7 -6 -2										
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12 -1										
1 SP 8 75 -60 -17 -5 7 29 48 56 52 40 23 5 -12 -23 -30 -31 -40 -37 -										
35 -25										
1 SP 8 75 -50 -22 -11 4 25 45 55 54 38 14 -7 -20 -26 -27 -24 -23 -										
25 -25										

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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-2	-5																		
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7	5																		
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11	9																		
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7	6																		
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7	6																		
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4	4																		
1 SP	8	75	20	8	3	9	11	5	2	1	1	-5	-10	-11	-11	-6	-5	-4	-1
7	7																		
1 SP	8	75	30	11	9	12	11	6	6	5	4	-1	-8	-12	-13	-14	-13	-10	-3
4	8																		
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-5	-5																		
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-6	-2																		
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3	6																		
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26	-15																		
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25	-18																		
1 SP	8	80	-40	10	16	24	36	46	42	25	3	-18	-31	-39	-39	-34	-23	-15	-4
1	3																		
1 SP	8	80	-30	16	17	18	22	25	17	1	-16	-28	-30	-29	-23	-17	-6	2	10
11	12																		
1 SP	8	80	-20	14	10	6	7	8	2	-8	-19	-23	-17	-13	-9	-7	1	8	14
14	12																		
1 SP	8	80	-10	12	7	-1	-1	2	-4	-13	-22	-22	-7	1	2	-3	2	11	16
13	9																		
1 SP	8	80	0	12	9	4	3	4	-3	-11	-21	-23	-12	-5	-4	-5	0	10	16
15	12																		
1 SP	8	80	10	7	7	7	9	8	4	-3	-12	-16	-13	-7	-7	-8	-6	2	9
9	7																		
1 SP	8	80	20	8	6	12	18	15	7	-2	-8	-14	-16	-14	-10	-11	-12	-8	4
14	13																		
1 SP	8	80	30	13	14	19	22	18	9	1	-5	-11	-16	-18	-17	-17	-16	-13	-2
8	13																		
1 SP	8	80	40	-12	-8	2	11	11	8	9	11	10	7	3	-2	-9	-14	-12	-4
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 SP 8 90 -20 24 19 5 4 20 16 -5 -33 -42 -10 3 -1 -20 -16 2 19
13 4
1 SP 8 90 -10 19 15 -2 -1 19 18 -3 -38 -49 -7 10 6 -20 -16 12 26
14 -2
1 SP 8 90 0 16 17 8 4 14 13 -7 -40 -52 -18 3 1 -19 -16 14 31
22 7
1 SP 8 90 10 11 17 13 8 11 11 -7 -39 -50 -27 1 -1 -18 -16 12 33
25 10
1 SP 8 90 20 2 1 15 31 30 15 -6 -26 -37 -28 -8 2 -10 -22 -17 11
26 18
1 SP 8 90 30 11 15 31 45 39 15 -5 -16 -23 -26 -21 -16 -21 -27 -25 -5
14 16
1 SP 8 90 40 -30 -22 6 29 26 12 8 12 14 14 9 -2 -17 -30 -23 -3
7 -11
1 SP 8 90 50 -6 4 29 40 23 7 11 24 23 7 -8 -11 -19 -36 -44 -29
-8 -3
1 SP 8 90 60 12 20 35 57 62 38 -1 -24 -15 -1 -3 -18 -30 -37 -36 -
23 -4
1 SP 8 90 70 4 7 25 37 28 3 -15 -19 -19 -20 -17 -12 -10 -12 -9 3
14 12
1 SP 8 90 80 35 21 0 -6 -3 9 11 0 -16 -45 -27 -11 3 3 -6 -8
10 31
1 SP 9 20 -80 18 19 17 13 7 2 -3 -10 -14 -16 -14 -13 -13 -11 -7 2
8 14
1 SP 9 20 -70 42 42 37 25 13 2 -8 -20 -29 -33 -33 -31 -30 -24 -13 6
22 34
1 SP 9 20 -60 50 50 42 27 13 0 -12 -24 -33 -38 -39 -37 -35 -27 -13 9
28 42
1 SP 9 20 -50 40 38 32 20 8 -3 -13 -21 -28 -31 -30 -26 -24 -17 -6 10
23 34
1 SP 9 20 -40 18 17 13 6 0 -5 -9 -13 -15 -14 -12 -10 -8 -3 1 7
13 16
1 SP 9 20 -30 7 6 5 1 -2 -5 -6 -6 -5 -4 -3 0 2 3 3
6 6
1 SP 9 20 -20 3 3 2 0 -1 -2 -5 -3 -3 -2 -3 -1 2 3 3 2
2 3
1 SP 9 20 -10 2 2 3 1 1 -1 -3 -3 -2 -2 -2 1 1 1 1 1
2 2
1 SP 9 20 0 2 2 3 2 1 -1 -3 -1 -2 -2 -2 0 1 -1 1 1
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1 SP 9 20 10 2 3 3 2 0 -2 -3 -2 -3 -3 -2 1 1 1 1 1
2 2
1 SP 9 20 20 3 2 4 1 -3 -3 -3 -4 -4 -2 2 1 3 4 4
4 2
1 SP 9 20 30 3 2 2 1 -2 -3 -3 -4 -4 -4 -1 0 2 5 5
5 5
1 SP 9 20 40 3 3 3 2 -1 -1 -1 -1 -2 -2 -4 -3 -2 0 0 1
2 5
1 SP 9 20 50 2 3 4 3 0 0 -1 -1 1 1 2 0 -1 -2 -2 -3 -3
-1 2

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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0	2																			
1 SP	9	30	-10	0	2	3	3	2	1	-1	-2	-1	0	-2	-2	0	0	0	0	
0	1																			
1 SP	9	30	0	1	1	2	2	2	1	0	0	-1	-1	-2	-2	-1	0	-1	0	
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1 SP	9	30	10	2	1	3	2	0	-3	-2	1	0	0	-1	-3	-1	-1	0	-1	
2	1																			
1 SP	9	30	20	4	1	4	4	-1	-3	-1	3	1	2	0	-4	-1	-1	-2	-2	
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1 SP	9	30	30	3	2	3	2	0	0	1	1	2	1	-2	-3	-4	-2	-2	-1	
-1	2																			
1 SP	9	30	40	3	3	2	1	0	0	-1	0	0	0	-3	-4	-4	-1	0	2	
1	3																			
1 SP	9	30	50	5	4	2	0	-1	0	0	0	0	-1	-4	-6	-5	-3	0	2	
4	5																			
1 SP	9	30	60	6	4	2	0	0	1	2	3	2	1	-2	-6	-8	-6	-4	0	
3	6																			
1 SP	9	30	70	4	2	1	0	1	2	4	5	5	3	0	-4	-7	-7	-4	-2	
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1 SP	9	30	80	0	2	4	1	3	1	1	3	3	1	0	-2	-2	-4	-4	-4	
-1	-1																			
1 SP	9	35	-80	-5	-20	-28	-30	-37	-33	-29	-20	-9	6	18	28	35	37	35	28	
19	7																			
1 SP	9	35	-70	8	-10	-27	-42	-53	-56	-51	-37	-19	0	17	30	39	46	49	45	
38	24																			
1 SP	9	35	-60	16	-8	-28	-44	-56	-59	-54	-43	-23	-3	13	27	37	48	52	51	
44	35																			
1 SP	9	35	-50	10	-6	-23	-38	-48	-50	-46	-35	-18	-1	14	27	34	39	41	41	
35	26																			
1 SP	9	35	-40	1	-6	-14	-20	-23	-24	-19	-12	-3	5	12	17	17	18	18	16	
12	8																			
1 SP	9	35	-30	0	1	-1	-3	-3	-4	-3	-1	0	3	3	3	3	3	1	0	
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0	0																			
1 SP	9	35	0	1	2	2	3	3	2	0	0	-1	-2	-2	-3	-2	-1	-1	0	
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1 SP	9	35	10	3	2	2	2	1	-1	0	1	-1	-1	-2	-3	-2	-1	0	0	
2	2																			
1 SP	9	35	20	4	3	3	2	0	-1	0	1	1	0	-1	-3	-3	-2	-2	-2	
0	2																			
1 SP	9	35	30	4	3	4	3	1	1	2	2	2	1	-1	-4	-5	-4	-5	-3	
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1 SP	9	35	40	4	4	4	3	1	1	0	0	0	-1	-2	-4	-4	-3	-2	0	
0	3																			
1 SP	9	35	50	6	5	3	2	1	1	-1	-1	-1	-2	-3	-5	-6	-5	-3	0	2
3	5																			
1 SP	9	35	60	6	5	3	2	2	2	2	2	1	-1	-3	-6	-8	-8	-6	-2	2
5	7																			

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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3	2																	
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1	3																	
1 SP	9	45	30	4	4	4	2	0	0	1	3	3	2	-1	-3	-5	-5	-3
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1 SP	9	45	60	4	1	-1	-2	-1	-1	-2	-3	-5	-6	-6	-5	-3	1	5
8	7																	
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7	5																	
1 SP	9	45	80	2	2	3	-2	2	1	1	0	-1	-3	-1	0	0	-1	-2
-1	-1																	
1 SP	9	50	-80	-27	-42	-49	-53	-47	-28	-19	-3	11	29	41	45	49	45	35
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1 SP	9	50	-70	-25	-38	-47	-52	-49	-38	-22	0	20	36	43	45	43	39	31
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1 SP	9	50	-60	-14	-27	-34	-38	-35	-27	-13	3	18	28	31	29	24	24	18
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1 SP	9	50	-50	-15	-23	-28	-32	-29	-22	-12	2	16	26	30	29	24	19	14
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1 SP	9	50	-40	-15	-15	-15	-13	-9	-4	3	12	19	23	21	17	9	3	-2
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1 SP	9	50	-30	-6	-1	3	5	9	10	11	11	10	9	5	-1	-5	-9	-11
12	-9																	
1 SP	9	50	-20	1	4	7	9	9	8	5	5	2	0	-4	-7	-7	-8	-7
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2	3																	
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1 SP	9	50	70	1	-2	-4	-3	0	-1	-1	-2	-2	-3	-2	-1	0	3	6
6	8																	
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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

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0	2																		
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-2	0																		
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18	-28																		
1 SP	9	65	-70	-47	-47	-41	-34	-19	-1	17	36	51	58	56	42	22	9	-4	-20
32	-42																		
1 SP	9	65	-60	-34	-35	-26	-18	-1	17	29	41	50	48	38	19	-1	-5	-18	-29
36	-35																		
1 SP	9	65	-50	-36	-34	-29	-21	-7	9	24	35	41	42	34	23	11	0	-10	-19
27	-33																		
1 SP	9	65	-40	-24	-22	-17	-8	3	12	20	27	30	29	22	13	4	-6	-14	-20
23	-25																		
1 SP	9	65	-30	-8	-3	1	8	13	14	12	14	13	12	4	-2	-7	-11	-14	-16
15	-11																		
1 SP	9	65	-20	2	5	8	12	12	10	4	3	1	-1	-6	-10	-9	-9	-8	-7
-3	0																		
1 SP	9	65	-10	3	4	7	9	10	7	2	0	-2	-3	-6	-8	-6	-5	-4	-3
0	2																		
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1 SP	9	65	10	4	3	5	7	6	4	3	3	0	-3	-6	-8	-7	-5	-4	-2
2	3																		
1 SP	9	65	20	4	4	7	7	3	1	2	4	3	0	-4	-7	-7	-7	-7	-5
-1	2																		
1 SP	9	65	30	5	6	8	7	4	3	3	4	3	0	-3	-6	-8	-9	-10	-7
-2	2																		
1 SP	9	65	40	2	3	5	4	4	3	2	3	3	2	0	-2	-4	-6	-7	-6
-4	-1																		
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-4	-2																		
1 SP	9	65	60	1	1	2	2	2	1	0	-1	-2	-2	-2	-1	-1	0	0	1
2	1																		
1 SP	9	65	70	-2	0	1	1	0	0	0	-1	-2	-1	0	1	2	3	3	2
-1	-3																		
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-1	0																		

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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4	4																		
1 SP	9	75	20	7	6	10	9	4	1	1	2	1	-1	-5	-9	-8	-8	-7	-4
2	4																		
1 SP	9	75	30	6	9	12	12	8	4	4	5	3	0	-4	-8	-11	-12	-13	-9
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1 SP	9	75	40	1	4	7	8	7	4	2	4	3	2	-1	-3	-5	-7	-10	-8
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1 SP	9	75	50	1	5	9	9	8	5	1	-1	-1	-2	-3	-3	-4	-5	-6	-5
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1 SP	9	75	60	1	1	3	3	3	1	-1	-1	-2	-2	-2	-2	-2	-1	-1	0
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1 SP	9	75	80	0	-4	-6	-6	-4	-1	2	3	3	5	1	4	5	3	-1	-3
-1	1																		
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26	-31																		
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1 SP	9	80	-60	-29	-25	-10	3	20	36	44	47	46	38	24	1	-22	-25	-33	-38
40	-35																		
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33	-32																		
1 SP	9	80	-40	-12	-8	-10	1	13	20	23	23	20	23	15	2	-10	-18	-20	-21
19	-19																		
1 SP	9	80	-30	3	11	11	12	17	17	14	5	2	6	1	-10	-16	-17	-14	-17
15	-6																		
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-3	2																		
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1	3																		
1 SP	9	80	0	3	5	6	4	2	0	-2	-5	-8	-5	-2	-1	-2	-2	1	3
4	3																		
1 SP	9	80	10	4	5	7	6	3	0	-3	-7	-10	-9	-5	-2	-2	-1	2	6
7	5																		
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3	5																		
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-3	1																		
1 SP	9	80	40	-1	3	10	14	9	3	1	2	1	-1	-3	-2	-4	-9	-11	-7
-2	-1																		
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-1	-2																		
1 SP	9	80	60	-2	-2	0	2	1	0	-1	-1	0	2	3	1	-2	-2	0	1
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4	3																		
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-2	1																		
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8	9																		

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DATASET: CWEJ412.GRAM0D90.DATA
MEMBER: SCIDAT9

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10 5																		
1 SP 9	90	30	-1	10	32	39	23	1	-7	-8	-11	-17	-12	-4	-6	-18	-20	-7
5 3																		
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3 -4																		
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21 28																		
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9 13																		
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4 5																		
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11 -8																		
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DATASET: CWEJ412.GRAMOD90.DATA
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DATASET: CWEJ412.GRAM090.DATA
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DATASET: CWEJ412.GRAMOD90.DATA
 MEMBER: SCIDAT9

SCIDAT9

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9 10	20	-70	19	20	18	14	7	-1	-7	-11	-14	-18	-18	-14	-7	-1	7																	
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18 19																		
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1 SP 12 45 10 -5 -4 -2 -1 1 1 2 3 3 3 2 2 2 1 -1										
-3 -4										
1 SP 12 45 20 -10 -11 -9 -7 -3 2 6 10 12 11 9 7 5 2 -1 -3										
-7 -9										
1 SP 12 45 30 -18 -24 -25 -23 -16 -5 7 17 22 22 18 16 13 9 5 2										
-5 -12										
1 SP 12 45 40 -7 -24 -38 -47 -48 -36 -17 2 16 21 21 23 25 26 27 27										
21 9										
1 SP 12 45 50 48 17 -17 -47 -67 -73 -65 -49 -33 -20 -8 5 21 35 51 64										
72 66										
1 SP 12 45 60 92 65 25 -15 -50 -75 -86 -82 -73 -58 -43 -26 -4 20 47 72										
93 102										
1 SP 12 45 70 100 80 43 6 -29 -58 -73 -79 -78 -70 -60 -46 -24 2 33 65										
90 103										
1 SP 12 45 80 61 60 48 29 -4 -26 -38 -48 -55 -51 -52 -35 -24 -8 12 30										
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1 SP 12 50 -80 5 2 -1 1 21 3 -9 -8 -10 -8 -5 -4 -3 -2 1 2										
5 6										
1 SP 12 50 -70 7 4 2 1 -3 -7 -8 -6 -4 -4 -2 -1 -1 1 3 5										
8 8										
1 SP 12 50 -60 4 1 2 1 -2 -5 -3 -2 0 -1 0 -1 -3 0 2 3										
4 4										
1 SP 12 50 -50 2 2 1 0 -1 -2 -2 -2 -2 -1 -1 1 -2 -1 2 2										
2 2										
1 SP 12 50 -40 2 2 1 -1 -1 -1 -1 0 -1 -1 1 0 -1 -1 1 1										
-1 0										

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DATESET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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-1 1																		
1 SP 12	50	-20	0	1	-1	-1	-1	-1	-1	-2	-2	-1	-1	-3	0	2	3	3
2 2																		
1 SP 12	50	-10	-3	-1	-2	-1	-1	1	2	1	1	1	1	-2	0	1	2	1
0 -2																		
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-2 -3																		
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-4 -5																		
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-8 -9																		
1 SP 12	50	30	-23	-27	-26	-22	-13	0	13	23	28	26	21	17	13	6	0	-4
11 -17																		
1 SP 12	50	40	-19	-35	-47	-54	-51	-35	-12	11	26	32	32	33	32	29	26	22
13 -1																		
1 SP 12	50	50	33	-1	-35	-62	-78	-78	-64	-44	-24	-8	5	20	36	49	61	68
68 57																		
1 SP 12	50	60	77	44	3	-34	-65	-84	-88	-79	-66	-48	-29	-10	13	37	61	81
94 94																		
1 SP 12	50	70	86	60	23	-11	-44	-66	-77	-79	-73	-62	-47	-30	-7	19	47	74
1 SP 97																		
1 SP 12	50	80	62	57	41	21	-10	-31	-43	-51	-57	-52	-50	-32	-19	0	20	38
50 60																		
1 SP 12	55	-80	5	3	-1	3	22	5	-9	-8	-10	-8	-5	-4	-4	-2	0	2
4 6																		
1 SP 12	55	-70	6	4	2	1	-2	-6	-7	-5	-4	-3	-2	-1	-2	1	2	4
7 8																		
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4 4																		
1 SP 12	55	-50	2	1	-1	-2	-2	-3	-3	-1	-1	-1	1	1	-1	-1	2	2
2 2																		
1 SP 12	55	-40	2	2	-1	-2	-2	-2	-2	-1	-1	-1	2	2	0	1	2	2
-1 0																		
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-1 1																		
1 SP 12	55	-20	-1	-1	-1	-2	-2	-1	1	0	-1	0	-1	-3	1	2	3	2
1 1																		
1 SP 12	55	-10	-3	-2	-2	-1	-1	2	4	2	2	2	1	-2	-1	1	1	0
-2 -3																		
1 SP 12	55	0	-3	-2	-1	-1	1	3	3	3	3	2	2	-1	-1	0	0	-2
-3 -3																		
1 SP 12	55	10	-4	-3	-1	1	2	2	3	4	4	3	2	1	0	-1	-1	-4
-4 -4																		
1 SP 12	55	20	-10	-10	-7	-5	-1	4	9	12	14	12	9	6	3	-1	-5	-7
1 SP 12	55	30	-26	-29	-27	-21	-12	1	15	26	31	29	24	19	13	6	-2	-8
-9 -10																		
1 SP 12	55	40	-25	-39	-49	-53	-50	-31	-8	14	30	37	38	38	34	30	23	16
15 -21																		
1 SP 12	55	50	21	-13	-45	-68	-80	-75	-59	-34	-23	-1	13	24	44	57	64	67
5 -8																		
1 SP 12	63	47																

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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-3																				
1 SP	12	65	0	-3	-1	-1	-1	-1	3	5	4	3	3	2	1	-1	-1	-1	-1	-3
-4																				
1 SP	12	65	10	-2	-1	1	0	-1	1	3	4	3	2	1	1	0	0	-1	-1	-4
-4																				
1 SP	12	65	20	-6	-4	-1	1	2	6	9	11	10	8	6	2	0	-4	-7	-10	-
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1 SP	12	65	30	-22	-18	-13	-7	0	11	21	28	30	26	19	11	3	-5	-13	-18	-
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1 SP	12	65	40	-34	-39	-39	-37	-30	-14	7	27	41	44	39	35	27	16	6	-4	-
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1 SP	12	65	50	-1	-24	-43	-55	-57	-50	-35	-15	2	14	24	35	43	44	40	35	35
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67																				
1 SP	12	65	80	33	29	16	-1	-18	-31	-38	-38	-34	-12	-15	-4	5	13	19	23	23
26																				
1 SP	12	70	-80	4	3	0	-3	-4	-5	-7	-7	-4	-3	0	3	2	3	5	6	6
5																				
1 SP	12	70	-70	4	3	-2	-4	-6	-8	-10	-9	-4	-3	1	5	4	5	7	8	8
7																				
1 SP	12	70	-60	5	3	-1	-3	-5	-7	-9	-8	-5	-4	0	4	4	5	6	7	7
6																				
1 SP	12	70	-50	3	2	-2	-3	-4	-4	-6	-6	-3	-3	-1	2	3	3	4	5	5
5																				
1 SP	12	70	-40	2	1	-3	-2	-5	-7	-7	-5	-4	-2	-1	2	6	6	5	5	5
3																				
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1 SP	12	70	20	-5	-1	2	3	4	8	11	12	10	7	4	1	-3	-6	-9	-11	-
12																				
1 SP	12	70	30	-20	-13	-8	-1	6	16	25	30	30	24	16	7	-3	-12	-20	-23	-
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1 SP	12	70	40	-36	-39	-36	-31	-24	-7	13	33	46	46	39	33	22	10	-2	-11	-
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46																				

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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

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-5	-7																		
1 SP 12	80	10	-6	2	7	8	8	9	6	-1	-7	-6	0	3	1	-2	-2	-3	
-7	-9																		
1 SP 12	80	20	-8	-2	2	4	6	11	14	11	6	5	6	3	-6	-13	-11	-7	
-8	-10																		
1 SP 12	80	30	-16	-13	-8	-2	4	16	28	33	31	27	20	8	-9	-23	-27	-25	-
21	-18																		
1 SP 12	80	40	-37	-41	-36	-32	-25	-9	20	46	57	55	45	31	12	-6	-15	-16	-
17	-27																		
1 SP 12	80	50	-5	-16	-27	-35	-37	-28	-8	12	24	30	31	31	23	9	-2	-5	-
2	3																		
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11	22																		
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22	36																		
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4	11																		
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10	11																		
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14	16																		
1 SP 12	85	-50	12	11	9	6	2	-3	-6	-10	-12	-13	-12	-10	-6	0	3	7	-
11	13																		
1 SP 12	85	-40	3	0	0	-1	-1	-2	-3	-4	-3	-3	0	0	0	2	3	4	-
4	3																		
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4	4																		
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13	-21																		
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23	37																		
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-4	32																		
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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19																				
1 SP	12	90	-70	11	10	8	5	1	-3	-5	-9	-14	-13	-14	-11	-5	0	4	7	
11																				
1 SP	12	90	-60	20	19	15	9	4	-4	-9	-16	-20	-21	-23	-18	-10	-4	5	11	
17																				
1 SP	12	90	-50	16	15	14	10	4	-2	-6	-12	-16	-16	-16	-15	-10	-2	3	8	
13																				
1 SP	12	90	-40	4	0	2	-1	0	0	-2	-4	-2	-4	0	-1	-2	0	2	4	
5																				
1 SP	12	90	-30	4	4	4	-1	-1	-2	-3	-5	-5	-6	-4	-2	-2	-1	3	4	
6																				
1 SP	12	90	-20	1	-2	-1	-3	-2	-2	-4	-3	-1	1	4	4	3	2	2	2	
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1 SP	12	90	-10	3	-9	-11	3	8	2	-8	-14	-7	12	14	0	2	-5	-6	-7	
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1 SP	12	90	40	-9	-14	4	5	-15	-23	5	32	24	6	-4	-5	-15	-28	-21	9	
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22																				
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62																				
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3																				
1 SD	1	20	-20	3	1	-4	-7	-3	-1	1	-2	-3	-1	-1	1	-1	1	5	4	
5																				
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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0 -1	1	35	20	2	0	0	-2	-4	-3	-1	1	2	3	2	1	1	0	-1	-1	
1 SD	1	35	30	11	8	4	-4	-10	-10	-7	-3	0	1	-1	-2	-2	0	0	3	
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24 36	1	35	50	87	81	56	24	-8	-30	-42	-41	-38	-37	-42	-49	-48	-37	-13	18	
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50 76	1	35	70	141	135	105	56	5	-38	-65	-76	-76	-75	-78	-83	-81	-62	-27	23	
1 SD	1	35	80	82	93	81	50	15	-14	-38	-54	-64	-70	-65	-59	-44	-27	-14	15	
77 119	1	40	-80	2	3	5	6	7	8	2	-2	-4	-4	-5	-5	-6	-5	-4	-3	
0 3	1	40	-70	3	3	2	1	1	2	1	-1	-2	-2	-3	-4	-3	-1	0	-1	
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1 -3	1	40	40	31	21	6	-11	-24	-27	-23	-13	-5	-4	-6	-9	-9	-3	5	16	
5 1	1	40	50	89	74	43	6	-26	-46	-54	-48	-41	-38	-40	-45	-40	-24	4	36	
1 SD	1	40	60	152	134	90	31	-24	-65	-86	-89	-85	-79	-79	-81	-72	-45	0	54	1
07 143	1	40	70	158	143	104	47	-8	-55	-84	-96	-96	-93	-91	-90	-79	-49	-5	50	1
05 144	1	40	80	93	100	82	45	3	-27	-52	-69	-78	-83	-74	-58	-36	-17	-1	31	
1 SD	1	45	-80	1	1	5	7	9	11	1	-4	-4	-4	-4	-4	-4	-4	-4	-4	-3
1 -1	1	45	-80	1	1	5	7	9	11	1	-4	-4	-4	-4	-4	-4	-4	-4	-4	-3

START COL	1	2	3	4	5	6	7	8	9	0										
1 SD	1	45	-70	2	2	1	0	0	2	1	-1	-1	-2	-3	-2	0	0	1		
2	2	1	0	0	-1	-3	1	0	-1	-1	1	-1	-2	-2	0	2	2	2		
1 SD	1	45	-60	1	0	0	-1	-3	1	0	-1	-1	1	-1	-2	-2	0	2		
2	1	45	-50	1	1	-1	-2	0	-1	-1	0	1	1	1	-2	-1	2	2		
1	1	45	-40	0	1	2	0	-1	1	1	0	1	1	1	-2	-1	1	-1		
1 SD	1	45	-30	2	2	3	-1	-1	-1	-3	-1	1	0	-1	-1	1	1	0		
0	1	45	-20	4	3	2	-1	-2	-4	-3	-2	-2	-2	-1	1	2	4	1		
1 SD	1	45	-10	4	3	2	0	-1	-2*	-2	-2	-2	-1	-1	1	1	1	-1		
0	1	45	0	2	2	2	0	-1	-2	-1	-1	-2	-2	-1	0	0	1	-1		
1 SD	1	45	10	0	1	3	1	-1	-1	1	2	1	1	1	-1	-1	-1	-1		
-1	-2	45	20	-1	-4	-3	-4	-3	-1	4	8	8	7	5	2	1	-1	-3	-4	
1 SD	1	45	30	-4	-10	-13	-17	-15	-8	2	12	17	17	13	8	5	3	0	-1	
-3	-3	45	40	11	-2	-16	-28	-33	-28	-16	-1	11	14	11	7	4	7	10	15	
17	18	45	50	67	46	13	-20	-44	-57	-57	-46	-32	-25	-23	-15	2	25	49	49	
1 SD	1	45	60	137	110	63	6	-43	-78	-95	-96	-88	-77	-71	-64	-46	-14	30	77	1
18	141	45	70	148	125	79	24	-27	-69	-95	-104	-102	-95	-86	-76	-56	-20	25	75	1
20	147	45	80	94	93	69	30	-13	-42	-62	-79	-85	-87	-72	-49	-19	-3	19	48	48
1 SD	1	50	-80	3	3	6	9	9	7	0	-5	-4	-4	-4	-6	-4	-4	-3	-3	-3
1 SD	1	50	-70	1	1	1	-1	0	2	1	-1	-1	0	-2	-2	-2	-1	0	0	0
2	2	50	-60	1	-1	-1	-2	-3	0	0	-1	-1	1	0	-1	-2	0	2	2	2
1 SD	1	50	-50	1	1	1	-1	-2	0	-1	0	1	1	0	-2	-1	2	1	1	1
1	1	50	-40	1	1	2	0	-1	1	1	-1	-1	1	0	-1	-3	-1	1	-1	-1
1 SD	1	50	-30	1	1	2	-2	-1	-1	-1	-3	-2	1	0	-1	-1	1	1	-1	-1
-2	-1	50	-20	4	2	1	-2	-3	-3	-2	-2	-2	-3	-2	0	1	2	3	1	1
1 SD	1	50	-10	3	2	1	-1	-2	-2	-1	-1	-1	-1	0	1	1	1	1	-1	-1
1	1	50	0	2	1	1	-1	-1	-1	1	1	-1	-1	-1	0	1	0	-1	-1	-1
1 SD	1	50	10	0	1	2	1	0	1	2	3	1	1	1	-1	-2	-2	-2	-2	-3
-1	-2	50	10	0	1	2	1	0	1	2	3	1	1	1	-1	-2	-2	-2	-2	-3

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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11 -19																			
1 SD	65	40	-30	-41	-48	-48	-39	-19	4	26	38	40	37	32	26	22	15	8	
-3 -16																			
1 SD	65	50	-17	-39	-57	-64	-60	-45	-24	3	23	31	33	33	36	40	41	37	
27 7																			
1 SD	65	60	28	-2	-31	-53	-65	-67	-60	-44	-28	-10	4	14	29	45	58	66	
69 55																			
1 SD	65	70	38	19	-4	-24	-38	-49	-57	-55	-41	-21	-3	9	18	29	40	48	
52 50																			
1 SD	65	80	46	39	25	7	-9	-21	-35	-47	-49	-33	-21	-8	-2	1	9	22	
36 45																			
1 SD	70	-80	2	3	1	-2	-6	-6	-6	-6	-4	-3	-1	1	1	2	5	7	
6 4																			
1 SD	70	-70	-1	2	1	-4	-6	-5	-4	-4	-2	1	2	2	1	1	4	7	
4 1																			
1 SD	70	-60	0	2	1	-3	-6	-4	-3	-4	-2	-1	2	2	0	0	3	6	
4 1																			
1 SD	70	-50	0	2	0	-3	-4	-1	-1	-2	-2	0	1	2	1	0	3	5	
3 1																			
1 SD	70	-40	1	1	1	-3	-4	-2	1	-1	-1	1	2	1	-1	2	3		
1 0																			
1 SD	70	-30	3	2	0	-1	-2	-1	1	-2	-4	-4	-2	0	0	1	2	2	
2 2																			
1 SD	70	-20	3	-1	-1	1	2	4	5	2	-2	-4	-4	-2	-3	-2	1	-1	
0 2																			
1 SD	70	-10	2	-1	0	2	4	7	7	3	-2	-2	-3	-4	-4	-3	-1	-3	
1 -2																			
1 SD	70	0	-1	-1	1	2	3	6	6	3	-1	-2	-3	-4	-4	-2	0	-1	
1 -1																			
1 SD	70	10	-2	-2	1	2	1	2	4	4	2	-1	-1	-2	-2	-1	2	-1	
1 -2																			
1 SD	70	20	-7	-9	-5	-2	2	6	10	11	9	5	3	1	1	-1	-3	-6	
1 -6																			
1 SD	70	30	-19	-21	-20	-16	-8	6	17	24	22	16	12	9	6	3	-1	-4	-
11 -16																			
1 SD	70	40	-27	-37	-42	-41	-33	-13	7	25	34	34	32	28	22	18	10	5	
-5 -15																			
1 SD	70	50	-18	-34	-46	-50	-44	-30	-13	9	21	24	25	24	28	30	30	27	
19 2																			
1 SD	70	60	17	-4	-25	-39	-45	-45	-40	-28	-17	-5	4	9	19	31	41	47	
50 38																			
1 SD	70	70	22	12	-2	-14	-22	-29	-34	-33	-22	-6	4	7	9	14	20	25	
27 27																			
1 SD	70	80	29	25	16	2	-7	-10	-15	-25	-31	-20	-14	-4	-2	-3	1	11	
23 28																			
1 SD	75	-80	3	5	3	-2	-6	-5	-6	-7	-5	-3	-1	1	1	1	3	7	
6 4																			
1 SD	75	-70	0	3	1	-5	-9	-6	-7	-6	-3	0	3	4	4	2	4	7	
5 2																			
1 SD	75	-60	1	4	2	-4	-8	-5	-5	-5	-4	-1	2	3	2	0	2	6	
4 2																			

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DATASET: CWEJ412.GRAMDD90.DATA
MEMBER: SCIDAT9

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-6	-15																			
1 SD	1	80	50	-12	-16	-14	-15	-14	-5	7	15	18	15	9	2	-5	-4	4	9	
9	-1																			
1 SD	1	80	60	11	7	6	4	0	-4	-8	-8	-4	-1	-4	-11	-13	-7	2	8	
12	14																			
1 SD	1	80	70	20	20	15	9	6	1	-6	-10	-6	-1	-3	-13	-18	-15	-9	-3	
4	13																			
1 SD	1	80	80	17	16	14	7	3	5	8	-1	-15	-17	-19	-11	-10	-12	-10	1	
11	16																			
1 SD	1	85	-80	9	9	.8	6	5	1	-2	-5	-7	-8	-9	-8	-6	-4	-1	2	
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1 SD	1	85	-70	5	2	1	1	1	-2	-3	-5	-5	-5	-3	-1	1	3	3	3	
4	5																			
1 SD	1	85	-60	8	8	7	6	4	1	-2	-4	-7	-8	-9	-7	-5	-3	-1	1	
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1 SD	1	85	-50	10	10	10	9	6	2	-1	-5	-8	-10	-11	-10	-8	-6	-3	0	
5	8																			
1 SD	1	85	-40	5	4	3	2	1	-1	-5	-4	-5	-5	-5	-5	-1	0	0	3	
4	6																			
1 SD	1	85	-30	7	6	4	4	1	-2	-6	-6	-7	-7	-6	-4	-3	-1	2	4	
6	8																			
1 SD	1	85	-20	9	10	10	7	4	1	-4	-6	-8	-9	-9	-9	-6	-4	-2	3	
6	8																			
1 SD	1	85	-10	7	8	-7	-16	-7	4	7	-2	-8	6	8	-5	-5	0	14	2	
-5	-1																			
1 SD	1	85	0	2	7	0	-9	-6	3	7	0	-7	0	4	-4	-7	-3	10	6	
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1 SD	1	85	10	-2	7	6	-2	-5	3	7	1	-6	-5	-1	-4	-8	-6	6	10	
2	-5																			
1 SD	1	85	20	11	7	2	-4	-7	-1	4	1	-6	-13	-12	-6	1	2	1	2	
6	11																			
1 SD	1	85	30	2	12	10	-6	-15	2	20	15	-6	-16	-12	-7	-5	-3	6	8	
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1 SD	1	85	40	-18	-22	-13	-12	-7	19	39	37	16	-1	-3	-7	-17	-20	-8	5	
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1 SD	1	85	50	-3	4	15	11	1	4	12	17	16	11	1	-16	-34	-36	-16	0	
10	5																			
1 SD	1	85	60	7	21	33	33	21	0	-18	-7	10	27	19	-10	-26	-26	-26	-29	-
21	-7																			
1 SD	1	85	70	-1	8	10	20	34	34	20	12	24	37	26	-7	-31	-38	-41	-45	-
41	-21																			
1 SD	1	85	80	-13	-2	8	9	11	29	50	38	1	7	-9	10	2	-26	-43	-35	-
21	-16																			
1 SD	1	90	-80	12	11	11	9	9	4	-1	-5	-8	-10	-12	-12	-8	-6	-3	0	
4	8																			
1 SD	1	90	-70	7	2	1	3	0	-2	-5	-5	-6	-7	-5	-3	0	3	2	2	
4	7																			
1 SD	1	90	-60	11	10	9	10	8	3	-2	-4	-8	-10	-13	-11	-7	-4	-3	-1	
4	9																			
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5	11																			

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DATASET: CWEJ412.GRAM0D90.DATA
MEMBER: SCIDAT9

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33 -23	20	60	-12	-3	2	1	-5	-10	-5	9	24	30	30	23	11	-2	-16	-25	-
27 -20	20	70	-6	-2	-2	-6	-12	-13	-7	7	22	30	30	23	10	-3	-14	-20	-
1 SD	20	80	-2	-5	-9	-12	-11	-6	3	13	21	22	17	8	-1	-7	-10	-9	-
18 -12	20	-5	7	5	4	2	1	-1	-3	-4	-6	-6	-4	-4	-4	-4	-4	-1	-
1 SD	25	-80	6	7	4	2	1	-1	-3	-4	-7	-7	-3	-3	-3	-5	-1	-	-
2 5	25	-70	8	7	4	5	2	1	-2	-3	-4	-7	-7	-3	-3	-3	-5	-1	-
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2 5	25	-50	7	7	3	3	0	-1	-3	-4	-4	-5	-6	-2	-2	-1	-2	1	-
1 SD	25	-40	2	1	-1	-1	-2	-4	-2	-1	-3	-3	2	1	3	1	2	2	-
2 3	25	-30	0	-1	-1	-1	-1	1	1	1	1	1	1	0	0	3	2	1	-
1 SD	25	-20	0	-1	1	-1	1	0	0	2	2	2	-1	-1	-1	0	1	-1	-
2 -1	25	-10	-1	1	1	2	2	1	0	1	1	1	1	-1	-1	-2	-2	-1	-
1 SD	25	0	0	1	2	1	0	0	0	1	0	0	0	-1	-2	-1	0	-1	1
0 1	25	10	2	1	2	2	-1	-4	-3	-1	-1	-2	-1	-2	-1	0	2	2	-
2 2	25	20	4	2	2	2	0	-1	-1	-1	-3	-5	-5	-8	-2	-1	4	6	-
1 SD	25	30	6	8	10	6	3	0	-2	-2	-2	-3	-5	-4	-4	-3	-3	-3	-
4 5	25	40	2	8	13	14	11	7	5	7	7	4	-2	-7	-10	-12	-15	-15	-
1 SD	25	50	7	16	20	18	11	4	6	14	20	18	8	-5	-18	-28	-32	-30	-
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1 SD	25	70	25	37	38	30	16	4	1	7	12	10	1	-15	-32	-42	-44	-35	-
20 -6	25	80	17	30	35	24	16	6	4	1	1	-4	-9	-19	-20	-27	-28	-22	-
1 SD	30	-80	6	6	3	3	1	1	-2	-3	-5	-5	-4	-3	-2	-2	-2	2	-
3 5	30	-70	6	6	2	2	-1	0	-3	-4	-5	-5	-4	-2	-1	0	-2	3	-
1 SD	30	-60	5	4	0	0	-2	-1	-4	-4	-4	-4	-3	0	0	1	-1	3	-
3 5	30	-50	5	4	1	0	-2	-1	-3	-4	-3	-3	-2	0	1	1	-1	2	-
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1 SD	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
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-2	-1																		
1 SD	2	30	-20	0	1	2	2	2	1	0	1	1	1	-3	-2	-1	-1	1	-1
-2	1																		
1 SD	2	30	-10	-2	0	2	3	2	2	-1	1	0	1	1	-1	-1	-2	0	-1
-2	0																		
1 SD	2	30	0	0	0	1	2	-1	-1	-1	0	-1	0	-1	-2	-1	1	1	1
0	1																		
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2	-1																		
1 SD	2	30	20	2	0	4	4	0	-3	-2	-1	-2	-1	0	-3	2	4	2	1
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1 SD	2	30	30	11	8	6	-1	-6	-6	-3	0	1	0	-4	-5	-6	-2	-3	0
3	9																		
1 SD	2	30	40	20	21	18	9	0	-5	-4	0	2	-1	-8	-14	-18	-16	-13	-5
3	14																		
1 SD	2	30	50	36	42	38	27	11	0	-3	2	4	-1	-12	-27	-38	-41	-34	-20
0	20																		
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1	36																		
1 SD	2	30	70	65	80	78	61	34	10	-3	-7	-10	-18	-32	-51	-66	-70	-60	-37
-4	35																		
1 SD	2	30	80	43	64	77	53	33	12	0	-12	-21	-33	-41	-51	-42	-40	-40	-21
2	20																		
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5	6																		
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5	6																		
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5	4																		
1 SD	2	35	-50	3	0	-2	-3	-3	-2	-1	-2	0	1	2	3	-1	-1	0	2
3	2																		
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1 SD	2	35	-30	0	1	2	-1	0	1	2	-1	-1	0	1	-1	0	1	-1	-1
-1	-1																		
1 SD	2	35	-20	0	0	2	2	2	-1	1	1	1	1	-2	-1	0	-1	0	-2
-2	1																		
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-2	1																		
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12	21																		
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1 SD	2	35	60	95	99	84	55	18	-12	-25	-26	-29	-34	-48	-67	-76	-70	-47	-12
30	70																		
1 SD	2	35	70	94	105	97	72	37	5	-16	-27	-36	-46	-60	-77	-85	-76	-54	-19
23	65																		
1 SD	2	35	80	66	78	72	55	33	11	-5	-21	-35	-48	-60	-68	-55	-45	-35	-5
21	45																		
1 SD	2	40	-80	5	3	3	1	9	5	-4	-6	-7	-6	-6	-7	-3	1	2	3
4	5																		
1 SD	2	40	-70	4	3	2	1	1	-2	-6	-7	-6	-2	-1	-2	-1	2	2	3
4	5																		
1 SD	2	40	-60	2	0	-1	-2	-2	-4	-5	-1	2	3	2	-2	1	1	1	2
3	3																		
1 SD	2	40	-50	2	-1	-2	-3	-3	-1	-1	-2	1	2	2	3	-1	0	1	1
2	1																		
1 SD	2	40	-40	1	1	0	-2	-2	-1	1	0	0	0	0	2	-1	1	-1	1
-1	1																		
1 SD	2	40	-30	1	0	2	-1	1	0	1	-2	-1	-1	0	-1	1	1	-1	-1
1	-1																		
1 SD	2	40	-20	0	-1	2	2	2	0	1	0	-1	0	-3	-1	1	1	-1	-2
1	-2																		
1 SD	2	40	-10	-1	0	1	2	2	-1	-1	-2	0	1	-1	1	1	0	-1	-1
-1	1																		
1 SD	2	40	0	1	1	1	1	1	0	-2	-2	-2	-1	0	0	0	1	1	1
1	1																		
1 SD	2	40	10	1	0	1	1	-2	-4	-3	-1	-1	1	2	1	1	2	2	1
1	-1																		
1 SD	2	40	20	1	-1	0	-1	-2	-2	-1	1	0	1	2	1	2	2	0	0
0	0																		
1 SD	2	40	30	3	1	0	-4	-5	-5	-3	-2	-1	0	-1	0	1	5	3	4
2	3																		
1 SD	2	40	40	23	17	9	-3	-14	-19	-19	-15	-11	-8	-8	-8	-5	2	6	15
19	23																		
1 SD	2	40	50	61	54	38	15	-8	-26	-35	-36	-37	-37	-38	-38	-29	-14	7	27
44	57																		
1 SD	2	40	60	110	104	80	45	4	-30	-46	-52	-55	-58	-66	-74	-70	-50	-17	22
61	94																		
1 SD	2	40	70	112	115	100	69	29	-7	-31	-45	-56	-66	-77	-87	-86	-67	-36	5
48	86																		
1 SD	2	40	80	80	84	73	49	26	4	-12	-30	-48	-64	-74	-79	-58	-38	-23	15
37	62																		
1 SD	2	45	-80	2	2	1	-1	14	9	-4	-6	-6	-5	-5	-6	-3	1	1	2
3	3																		
1 SD	2	45	-70	2	1	1	-1	1	-2	-5	-6	-4	0	1	1	1	3	2	2
2	3																		
1 SD	2	45	-60	1	-1	-1	-2	-2	-2	-3	-4	0	3	4	2	-1	1	1	1
3	2																		
1 SD	2	45	-50	2	-1	-2	-3	-3	-1	-1	-1	1	2	2	2	-1	-1	0	1
1	1																		
1 SD	2	45	-40	2	1	0	-2	-1	-1	0	-1	-1	0	0	1	-1	1	0	0
0	1																		
1 SD	2	45	-30	1	0	2	-1	1	0	0	-2	-1	-1	0	0	1	2	-1	-1
-1	1																		

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START COL	1	2	3	4	5	6	7	8	9	0									
1 SD	2	65	80	54	42	22	3	-8	-11	-17	-30	-43	-39	-40	-31	-23	-11	8	29
47	55																		
1 SD	2	70	-80	3	3	-1	-4	-6	-5	-6	-6	-3	-1	3	4	3	4	3	5
3																			
1 SD	2	70	-70	5	6	1	-3	-5	-5	-7	-8	-4	-3	1	4	1	3	2	5
4																			
1 SD	2	70	-60	6	6	1	-3	-6	-6	-8	-9	-5	-3	0	4	2	3	3	6
4																			
1 SD	2	70	-50	6	5	3	-1	-3	-3	-5	-7	-5	-5	-3	2	1	1	2	5
4																			
1 SD	2	70	-40	4	3	-1	0	-2	-3	-4	-5	-4	-3	1	1	3	3	4	4
2																			
1 SD	2	70	-30	2	0	3	2	0	0	-1	-3	-3	-4	-3	-1	1	4	2	2
1																			
1 SD	2	70	-20	-2	-3	2	4	5	5	6	4	2	-1	-5	-3	-2	-3	-3	-4
1																			
1 SD	2	70	-10	-3	0	3	5	5	5	5	5	4	1	-3	-3	-3	-3	-2	-4
-3																			
1 SD	2	70	0	-2	-2	-1	2	3	4	4	4	3	1	-1	-3	-3	-1	-2	-3
2																			
1 SD	2	70	10	-2	-3	1	3	3	2	3	4	4	3	1	-1	-3	-3	-1	-2
-3																			
1 SD	2	70	20	-1	-3	-1	1	0	-1	0	3	3	3	4	2	2	0	-3	-5
1																			
1 SD	2	70	30	-8	-8	-8	-7	-8	-8	-7	-3	1	6	11	15	17	15	7	0
-3																			
1 SD	2	70	40	-15	-19	-17	-15	-16	-18	-19	-15	-6	3	14	25	33	35	26	15
-5																			
1 SD	2	70	50	-1	-10	-19	-25	-31	-37	-36	-29	-17	-2	16	28	38	42	38	27
1																			
1 SD	2	70	60	11	-2	-18	-33	-46	-48	-39	-26	-15	1	16	22	27	34	37	34
15																			
1 SD	2	70	70	12	0	-15	-27	-29	-26	-20	-15	-13	-9	-4	4	14	25	33	31
29																			
1 SD	2	70	80	39	30	12	-4	-11	-7	-7	-17	-28	-24	-26	-21	-19	-11	4	22
25																			
1 SD	2	75	-80	4	4	-1	-5	-7	-7	-8	-7	-3	-2	1	5	5	5	5	6
34																			
1 SD	2	75	-70	5	6	-1	-4	-8	-7	-8	-8	-3	-3	1	6	5	5	4	5
5																			
1 SD	2	75	-60	7	6	0	-4	-8	-8	-9	-9	-6	-4	-1	5	5	6	5	7
4																			
1 SD	2	75	-50	7	5	2	-2	-4	-4	-6	-8	-5	-6	-4	2	3	3	3	5
7																			
1 SD	2	75	-40	5	4	-1	0	-3	-3	-4	-5	-4	-4	-4	0	1	5	4	3
4																			
1 SD	2	75	-30	2	1	3	2	1	1	0	-4	-3	-4	-4	-3	-1	5	3	2
2																			
1 SD	2	75	-20	-1	-3	2	5	7	7	7	4	2	-2	-6	-6	-4	-3	-3	-5
0																			
1 SD	2	75	-10	-3	-4	-1	4	7	8	7	6	4	0	-4	-5	-5	-3	-2	-4
-3																			
1 SD	2	75	-10	-3	-4	-1	4	7	8	7	6	4	0	-4	-5	-5	-3	-2	-4
-2																			

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START COL	1	2	3	4	5	6	7	8	9	10	0									
1	SD	2	85	-80	3	-1	-4	-6	-8	-10	-9	-8	-7	-4	-2	3	6	8	10	9
1	SD	7	85	-70	-3	-6	-6	-6	-6	-3	0	0	2	4	5	8	6	7	4	4
1	SD	0	85	-60	1	-2	-5	-7	-8	-9	-8	-6	-5	-2	0	3	8	9	10	9
1	SD	6	85	-50	6	4	3	0	-2	-5	-5	-6	-6	-7	-5	0	3	5	5	5
1	SD	7	85	-40	8	7	7	4	2	-2	-4	-5	-7	-9	-7	-7	-4	-2	2	4
1	SD	6	85	-30	7	8	7	6	4	2	-1	-3	-6	-7	-7	-8	-8	-5	-2	1
1	SD	3	85	-20	4	6	7	8	8	7	5	3	1	-3	-4	-8	-9	-8	-7	-6
1	SD	-3	85	-10	-6	-7	-2	7	19	18	7	-8	-14	-2	6	5	7	7	0	-9
1	SD	2	85	0	-6	-5	-1	5	11	7	-3	-13	-11	5	12	8	2	1	1	0
1	SD	-6	85	10	-6	-3	1	3	-4	-13	-18	-8	12	19	11	-3	-5	3	8	8
1	SD	4	85	20	-1	-2	7	17	16	8	1	-3	-7	-6	2	11	9	-7	-21	-19
1	SD	-6	85	30	-19	-11	7	19	20	14	6	-3	-9	-9	0	8	6	-2	-4	-4
1	SD	-14	85	40	-39	-50	-35	-15	-5	1	11	10	-7	-22	-6	21	33	26	26	31
1	SD	26	85	50	2	9	12	6	-6	-16	-15	-13	-16	-14	-2	3	-1	-1	11	19
1	SD	17	85	60	23	29	20	-1	-19	-29	-26	-18	-12	-2	3	-8	-20	-12	10	22
1	SD	22	85	70	9	18	9	0	4	19	37	49	40	21	-8	-31	-41	-36	-27	-27
1	SD	-12	85	80	19	9	-20	-44	-32	17	57	44	0	-2	-19	-12	-23	-30	-15	9
1	SD	20	90	-80	3	-2	-5	-6	-8	-11	-10	-8	-9	-5	-3	3	7	10	13	11
1	SD	11	90	-70	-6	-11	-9	-7	-6	-6	-2	3	2	4	5	5	10	7	8	3
1	SD	0	90	-60	-1	-5	-7	-9	-9	-10	-8	-5	-5	-2	0	3	10	11	13	10
1	SD	10	90	-50	6	3	3	1	-2	-5	-5	-6	-7	-7	-5	-7	0	4	6	5
1	SD	8	90	-40	10	9	10	6	3	-1	-4	-5	-8	-11	-9	-10	-6	-4	2	4
1	SD	8	90	-30	9	11	9	8	6	2	-1	-3	-7	-8	-9	-11	-11	-9	-3	0
1	SD	4	90	-20	6	10	9	10	9	8	5	2	0	-3	-4	-10	-12	-10	-9	-6
1	SD	-3	90	-10	-6	-8	-4	8	21	20	7	-11	-17	-2	8	6	9	9	-1	-9
1	SD	16	90	0	-8	-7	-2	6	13	8	-3	-14	-11	8	16	10	3	1	0	-2
1	SD	-9																		

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START COL	1	2	3	4	5	6	7	8	9	10									
1 SD	3	25	-70	9	8	5	5	4	2	-4	-7	-8	-7	-5	-4	-5	-5	-1	
2	6	3	25	-60	10	9	6	5	4	2	-1	-6	-8	-10	-9	-6	-4	-4	1
1 SD	3	25	-50	10	8	6	4	3	1	-2	-6	-8	-9	-8	-5	-3	-2	-2	2
4	8	3	25	-40	4	3	1	0	-1	-3	-5	-4	-4	-3	1	2	2	3	3
1 SD	3	25	-30	1	1	1	0	-1	-2	-3	-2	1	1	-2	0	1	2	3	0
3	4	1	25	-20	1	1	2	1	0	-1	-2	-1	0	0	-2	-1	1	2	-1
1 SD	3	25	-10	0	1	2	2	0	0	-2	-2	-1	-1	-2	-2	1	1	2	1
1	2	3	25	0	1	1	1	1	0	-1	-1	-1	0	-1	-2	-1	1	0	1
1 SD	3	25	10	1	0	2	1	-2	-4	-2	-1	0	-1	-1	-2	0	1	3	2
1	2	3	25	20	5	3	3	2	-2	-3	-2	-3	-2	-4	-1	-1	3	4	4
1 SD	3	25	30	9	9	8	4	1	-1	-2	-2	-4	-7	-8	-7	-5	-2	0	2
1	3	7	25	40	7	11	13	11	8	5	3	4	3	0	-5	-8	-9	-10	-11
1 SD	3	25	50	7	15	19	17	13	9	9	13	15	12	4	-7	-15	-24	-30	-28
0	1	3	25	60	18	28	31	25	18	12	11	15	19	15	3	-15	-31	-44	-47
1 SD	3	25	70	33	39	40	33	25	15	11	10	10	3	-10	-28	-45	-54	-52	-36
1	15	3	25	80	35	27	14	9	27	18	11	7	-3	-10	-22	-25	-24	-34	-30
1 SD	3	30	-80	6	6	5	5	4	2	-3	-5	-6	-6	-5	-5	-5	-4	-2	-2
1	3	3	30	-70	9	9	6	5	4	2	-2	-7	-10	-9	-7	-6	-4	-3	-1
1 SD	3	30	-60	10	9	5	3	1	-2	-5	-9	-10	-9	-8	-5	-2	0	2	5
4	6	7	30	-50	8	7	4	2	0	-2	-5	-8	-9	-7	-7	-4	-1	2	3
1 SD	3	30	-40	2	3	1	-1	-2	-3	-5	-3	-4	-2	-3	1	2	3	4	3
6	8	3	30	-30	1	2	1	1	0	-2	-3	-1	0	1	-3	0	0	3	3
1 SD	3	30	-20	1	1	1	2	1	-1	-2	-1	0	-1	-4	-2	-1	0	1	-1
1	1	2	30	-10	1	2	2	2	1	0	-2	-2	-1	-1	-3	-3	-2	1	0
1 SD	3	30	0	2	1	1	1	0	-1	-1	-2	-1	-1	-1	-1	-1	0	1	1
1	2	3	30	10	1	-1	2	0	-2	-5	-2	-1	1	0	-2	1	2	3	0
1 SD	3	30	2	1	1	1	2	0	-2	-5	-2	-1	1	1	0	-2	1	2	3
2	3	7	30	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
0	1	3	30	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

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START COL	1	2	3	4	5	6	7	8	9	0									
1 SD	3	40	-60	7	3	0	-3	-5	-8	-9	-9	-4	-3	-1	-1	-2	1	3	8
11	9	3	40	-50	2	-1	-2	-3	-4	-6	-5	-2	1	3	4	4	3	4	4
1 SD	4	1	3	40	-40	1	1	0	-1	-2	-2	0	1	1	2	1	1	1	1
1 SD	0	0	3	40	-30	1	1	2	1	1	-2	0	1	1	-1	-1	0	1	-1
1	-1	1	3	40	-20	2	2	2	0	-1	-3	-1	-1	0	-2	-1	0	1	0
1 SD	1	3	40	-10	2	2	2	2	1	-1	-3	-2	0	-1	-2	-2	-1	-1	0
1	2	1	3	40	0	2	2	2	0	-1	-2	-1	0	0	-1	-1	-2	-1	-1
1 SD	1	3	40	10	1	1	2	2	-1	-3	-1	1	1	0	-1	-1	-2	-1	0
1	1	1	3	40	20	0	-1	0	-1	-2	-1	1	2	2	1	1	1	-1	-1
1 SD	3	40	30	0	-1	-2	-4	-6	-5	-4	-1	1	4	5	4	3	4	2	2
1	-1	0	1	3	40	40	15	11	5	-2	-9	-13	-15	-13	-11	-10	-7	-5	9
1 SD	14	16	3	40	50	53	48	40	25	8	-9	-21	-30	-36	-42	-43	-41	-32	-16
1 SD	33	47	3	40	60	90	93	85	65	36	6	-18	-39	-57	-70	-78	-81	-73	-52
1 SD	44	72	3	40	70	105	113	106	85	51	17	-12	-38	-60	-77	-90	-98	-74	-42
1 SD	42	78	3	40	80	62	66	79	69	45	21	-1	-20	-41	-50	-62	-66	-57	-46
1 SD	14	44	3	45	-80	5	4	4	-1	11	12	-4	-11	-14	-13	-11	-7	-2	-3
10	9	3	45	-70	9	5	-1	-3	-4	-9	-12	-12	-9	-7	-3	-1	2	5	6
1 SD	12	13	3	45	-60	4	-1	-4	-7	-10	-11	-10	-7	0	3	5	4	3	3
1 SD	10	7	3	45	-50	-1	-3	-4	-3	-5	-6	-5	-2	3	6	5	6	4	3
1 SD	1	-2	3	45	-40	1	1	-1	-1	-1	-2	-1	-1	1	2	2	1	0	-2
0	-1	0	1	3	45	-30	1	1	1	1	-1	-2	-1	0	0	-2	-1	-1	1
1 SD	1	-1	1	3	45	-20	2	2	1	-1	-2	-4	-2	-1	0	-2	0	-1	0
1 SD	2	3	3	45	-10	2	2	2	2	1	-1	-2	-1	-1	-1	-2	-2	-1	-1
2	2	2	3	45	0	1	1	2	2	0	0	-1	1	1	0	-2	-2	-2	0
1 SD	2	1	3	45	10	1	1	3	3	0	-2	0	3	2	-1	-2	-3	-3	-2
1 SD	2	1	3	45	20	-1	-2	-1	-1	-1	-1	1	3	4	3	2	1	0	-1
-2	-2	-2	3	45	20	-1	-2	-1	-1	-1	-1	1	3	4	3	2	1	0	-1

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START COL	1	2	3	4	5	6	7	8	9	0										
1 SD	3	70	-40	1	0	0	1	1	1	1	0	0	-1	-2						
-2																				
1 SD	3	70	-30	6	5	4	3	2	-1	-4	-4	-5	-8	-5	-3	1	2	3		
4	6																			
1 SD	3	70	-20	4	4	4	5	4	3	0	1	-2	-4	-7	-6	-6	-4	-2	-2	
2	5																			
1 SD	3	70	-10	4	4	5	5	5	4	2	2	0	-4	-7	-8	-7	-5	-3	-1	
2	5																			
1 SD	3	70	0	3	3	3	4	4	3	2	2	2	-1	-6	-6	-5	-4	-2	-2	
2	4																			
1 SD	3	70	10	2	2	4	4	3	1	2	5	4	0	-4	-6	-5	-4	-4	-4	
0	2																			
1 SD	3	70	20	-2	-2	-1	1	1	1	4	8	7	5	2	0	-1	-2	-5	-6	
-4	-3																			
1 SD	3	70	30	-13	-13	-12	-11	-10	-6	0	8	13	16	17	17	13	8	1	-4	
-9	-11																			
1 SD	3	70	40	-26	-29	-27	-25	-22	-16	-7	5	16	24	30	34	32	26	14	2	-
10	-18																			
1 SD	3	70	50	-24	-34	-38	-38	-35	-28	-17	-4	11	24	35	42	44	40	29	14	
-2	-14																			
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4	-9																			
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MEMBER: SCIDAT9

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1 SD	4	60	-40	-15	-18	-16	-13	-9	-4	1	9	14	17	16	16	14	10	4	-3	
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0	2																		
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26	-32																		
1 SD	4	75	-60	-42	-41	-37	-25	-11	2	17	30	41	46	46	40	28	12	-6	-21
34	-40																		
1 SD	4	75	-50	-35	-32	-28	-16	-3	6	18	27	36	39	38	31	19	6	-10	-23
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35 -38	80	-60	-47	-42	-33	-22	-6	12	30	45	56	57	51	37	18	-2	-21	-36	-
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0 -9	85	30	-9	-3	10	17	10	-2	-5	0	4	5	5	2	-2	-8	-8	-3
1 SD 4	85	40	-2	-21	-19	-2	8	5	2	6	7	3	-2	-1	-3	-10	-9	3
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1 SD 4	90	-60	-55	-43	-27	-16	5	27	48	66	76	71	56	33	5	-21	-43	-58
53 -51	90	-50	-42	-27	-10	4	16	33	45	57	59	56	43	20	-3	-29	-48	-57
1 SD 4	90	-40	-12	-2	8	16	20	21	25	23	24	20	15	2	-11	-23	-31	-34
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1 SD 4	90	-20	18	18	17	16	10	8	2	-4	-10	-15	-17	-19	-20	-15	-9	-2
1 SD 4	90	-10	-8	-1	-7	-8	2	8	9	2	2	13	8	2	-9	-8	1	5
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1 SD 4	90	30	-12	-4	11	18	10	-3	-5	0	5	7	6	4	0	-8	-8	-4
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1	SD	5	25	-80	13	13	13	11	7	2	-3	-9	-15	-18	-15	-11	-7	-4	-1	4					
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DATASET: CWEJ412.GRAMOD90.DATA
 MEMBER: SCIDAT9

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1	2																		
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-4	-3																		
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-6	-5																		
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-5	-3																		
1 SD	5	25	80	-1	-1	1	0	2	2	3	3	2	1	1	-2	-4	-3	-4	
-1	-1																		
1 SD	5	30	-80	25	26	25	16	9	-1	-6	-17	-23	-26	-25	-21	-14	-8	0	8
14	21																		
1 SD	5	30	-70	33	34	30	21	9	-4	-19	-31	-38	-38	-33	-24	-14	-3	8	17
25	30																		
1 SD	5	30	-60	28	26	19	9	-1	-11	-21	-27	-30	-29	-23	-15	-8	1	10	18
1	26																		
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14	16																		
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5	5																		
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1	2																		
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1	2																		
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1 SD	5	30	80	-2	-3	-3	-2	0	2	3	4	5	5	3	3	-2	-4	-2	-4
1	-1																		
1 SD	5	35	-80	26	26	23	13	6	-3	-12	-20	-24	-26	-25	-20	-13	-6	3	12
19	23																		
1 SD	5	35	-70	39	36	27	13	-1	-16	-29	-38	-42	-40	-32	-23	-11	2	15	27
1	35																		
1 SD	5	35	-60	38	32	20	4	-12	-27	-39	-46	-45	-37	-28	-14	-1	13	25	35
1	41																		

START COL	1	2	3	4	5	6	7	8	9	0						
1 SD	5	40	40	2	2	3	3	4	2	2	0	-3	-6	-4	-3	0
-1	1															
1 SD	5	40	50	4	4	3	3	3	2	1	0	-1	-4	-6	-5	-4
1	3															
1 SD	5	40	60	3	2	2	1	2	2	2	2	1	-3	-5	-4	-3
1	3															
1 SD	5	40	70	4	3	2	0	-1	0	2	3	2	-1	-3	-4	-2
-1	1															
1 SD	5	40	80	1	4	23	2	5	-4	-2	-1	0	-2	-2	-1	-5
-2	-4															
1 SD	5	45	-80	17	15	8	1	13	-3	-18	-21	-23	-20	-17	-10	5
19	18															
1 SD	5	45	-70	26	19	9	-2	-13	-23	-28	-30	-29	-24	-16	-8	1
31	31															
1 SD	5	45	-60	25	15	2	-11	-23	-30	-35	-34	-29	-19	-13	-3	8
36	35															
1 SD	5	45	-50	11	2	-7	-14	-20	-23	-23	-20	-16	-8	-2	5	11
23	20															
1 SD	5	45	-40	-2	-6	-9	-10	-10	-8	-5	-1	1	4	6	7	7
5	2															
1 SD	5	45	-30	-7	-7	-5	-3	0	3	4	7	7	5	4	2	0
-5	-6															
1 SD	5	45	-20	-6	-4	-2	0	3	5	5	7	6	6	3	2	1
-6	-6															
1 SD	5	45	-10	-2	-1	0	1	2	1	1	1	3	2	1	0	1
-2	-2															
1 SD	5	45	0	0	0	1	1	1	1	0	0	1	1	1	-1	-1
0	0															
1 SD	5	45	10	2	1	2	2	1	-1	-2	2	1	1	-1	-2	-2
1	1															
1 SD	5	45	20	1	1	3	2	2	2	1	2	3	1	-1	-4	-3
-2	0															
1 SD	5	45	30	1	1	2	3	2	3	2	3	4	1	-1	-4	-5
-2	-1															
1 SD	5	45	40	2	2	3	3	3	4	2	3	3	0	-3	-6	-4
5	5															
1 SD	5	45	50	4	4	4	3	3	3	2	1	0	-1	-4	-6	-5
-1	1															
1 SD	5	45	60	3	2	3	2	2	1	1	2	1	0	-3	-5	-4
2	3															
1 SD	5	45	70	4	3	1	-1	-1	-1	0	2	2	-1	-3	-4	-2
1	2															
1 SD	5	45	80	2	2	21	3	-7	-5	-3	-2	-1	-4	-2	-1	-2
1	-2															
1 SD	5	50	-80	14	9	5	-1	6	-9	-16	-21	-20	-18	-11	-6	0
19	16															
1 SD	5	50	-70	18	11	2	-8	-18	-26	-28	-27	-23	-17	-8	-1	7
29	25															
1 SD	5	50	-60	18	7	-5	-18	-28	-33	-35	-31	-24	-13	-6	3	14
34	30															
1 SD	5	50	-50	5	-6	-15	-21	-26	-27	-24	-18	-12	-3	5	12	17
5	16															
23	16															

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
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2	3																	
1 SD	55	60	2	1	1	2	1	1	2	2	0	-2	-4	-5	-3	-1	0	
2	1																	
1 SD	55	70	3	1	1	-2	-3	-1	1	2	2	1	-2	-2	-2	-1	0	
3	2																	
1 SD	55	80	4	-4	19	7	-8	-7	-4	-3	-2	-6	-4	-3	-2	-4	3	
7	3																	
1 SD	60	-80	6	-2	-10	-15	-20	-23	-24	-23	-18	-8	1	10	17	22	25	26
22	16																	
1 SD	60	-70	3	-10	-20	-26	-31	-33	-31	-25	-16	-1	11	20	27	30	32	31
25	17																	
1 SD	60	-60	-4	-18	-27	-33	-36	-35	-30	-20	-9	6	18	28	32	34	33	30
22	12																	
1 SD	60	-50	-12	-21	-27	-28	-26	-22	-15	-7	2	13	20	25	25	22	18	
10	1																	
1 SD	60	-40	-20	-25	-24	-19	-13	-7	0	9	14	19	20	21	18	14	9	3
-5	-11																	
1 SD	60	-30	-21	-22	-19	-12	-6	0	7	15	17	19	16	15	12	8	4	-3
-9	-16																	
1 SD	60	-20	-15	-14	-11	-6	-1	3	8	12	14	14	11	9	6	3	0	-6
10	-13																	
1 SD	60	-10	-8	-7	-6	-3	-1	1	3	6	7	8	6	4	4	2	-1	-4
-5	-7																	
1 SD	60	0	-5	-4	-3	-2	-1	0	1	3	5	4	3	3	3	2	-1	-1
-2	-4																	
1 SD	60	10	-2	-2	1	2	1	-1	-1	4	3	2	0	-2	0	-1	-2	-2
-1	-2																	
1 SD	60	20	2	1	4	4	2	1	0	3	1	-1	-2	-5	-3	-3	-2	-2
0	2																	
1 SD	60	30	1	1	3	3	2	3	1	3	2	0	0	-4	-5	-3	-4	-1
-2	0																	
1 SD	60	40	1	1	3	4	4	5	1	2	2	0	-3	-5	-6	-3	-2	1
-2	-1																	
1 SD	60	50	4	5	6	4	4	3	1	-1	-1	-1	-5	-5	-4	-4	-1	-1
0	2																	
1 SD	60	60	2	4	4	4	3	1	0	1	1	-1	-3	-4	-4	-3	-2	-2
0	1																	
1 SD	60	70	2	3	3	2	2	1	-1	-2	-1	-1	-3	-2	-3	-2	-2	0
0	1																	
1 SD	60	80	3	4	4	4	4	3	1	-1	-2	-3	-5	-4	-5	-4	-3	-1
0	2																	
1 SD	65	-80	2	-7	-15	-20	-23	-25	-24	-21	-15	-5	5	14	22	27	28	27
21	14																	
1 SD	65	-70	-6	-19	-28	-33	-35	-33	-28	-19	-8	7	19	28	33	35	33	29
20	10																	
1 SD	65	-60	-14	-26	-33	-36	-34	-29	-20	-9	2	17	26	32	34	33	28	23
12	1																	
1 SD	65	-50	-20	-27	-30	-28	-23	-15	-6	4	11	21	24	26	24	21	16	9
1	-7																	
1 SD	65	-40	-23	-25	-22	-15	-7	0	7	14	17	20	20	18	14	9	3	-2
10	-16																	

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
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1	2																		
1 SD	5	70	70	3	4	5	5	4	2	1	-1	-2	-5	-4	-5	-2			
0	2																		
1 SD	5	70	80	2	2	3	4	2	2	1	-1	-2	-3	-3	-4	-2			
-1	1																		
1 SD	5	75	-80	-4	-13	-20	-25	-26	-24	-19	-15	9	1	10	20	26	29	28	24
16	7																		
1 SD	5	75	-70	-16	-27	-35	-38	-36	-29	-18	-8	2	15	25	33	36	36	31	24
12	-1																		
1 SD	5	75	-60	-23	-32	-36	-35	-29	-18	-5	7	16	26	31	32	30	25	17	10
0	-10																		
1 SD	5	75	-50	-23	-26	-27	-23	-14	-4	7	15	19	24	23	21	16	11	5	-1
-7	-13																		
1 SD	5	75	-40	-19	-19	-15	-7	0	6	9	13	14	13	12	8	4	-1	-5	
10	-14																		
1 SD	5	75	-30	-8	-8	-5	-1	2	3	2	4	4	5	3	4	4	3	1	-1
-3	-6																		
1 SD	5	75	-20	-4	-4	-3	-1	3	4	1	2	1	1	-1	1	2	2	2	0
-1	-2																		
1 SD	5	75	-10	4	-1	-4	-3	-2	-3	-5	-5	-3	-2	-1	3	4	5	5	5
5	6																		
1 SD	5	75	0	3	-3	-4	-5	-3	-3	-3	-2	-3	-2	0	3	5	5	5	5
5	4																		
1 SD	5	75	10	2	-4	-5	-3	-3	-1	-1	4	3	2	0	-2	2	1	1	0
2	2																		
1 SD	5	75	20	2	-3	-2	0	1	2	2	6	6	3	2	-4	-2	-2	-4	-4
-3	1																		
1 SD	5	75	30	-1	-3	-1	2	4	8	7	8	6	3	1	-4	-7	-6	-8	-4
-4	-1																		
1 SD	5	75	40	1	-2	1	3	5	7	4	5	4	1	-4	-6	-7	-4	-4	-1
-2	-2																		
1 SD	5	75	50	4	4	4	4	6	6	4	2	1	-1	-5	-6	-6	-7	-4	-4
-1	2																		
1 SD	5	75	60	3	2	2	4	3	3	3	4	2	0	-3	-4	-5	-5	-6	-4
1	3																		
1 SD	5	75	70	3	4	5	5	6	5	3	2	0	-2	-5	-4	-6	-6	-6	-3
0	2																		
1 SD	5	75	80	0	2	2	3	4	3	3	2	2	1	-2	-2	-3	-3	-4	-3
-1	-1																		
1 SD	5	80	-80	1	-8	-14	-19	-22	-22	-21	-17	-11	-3	6	14	21	25	26	23
17	9																		
1 SD	5	80	-70	-13	-22	-28	-31	-29	-24	-15	-5	6	15	22	27	29	28	24	17
8	-3																		
1 SD	5	80	-60	-20	-24	-26	-24	-17	-6	6	18	26	29	27	21	14	7	1	-5
-9	-14																		
1 SD	5	80	-50	-19	-18	-14	-7	2	12	21	27	28	24	16	7	-2	-9	-13	-16
17	-18																		
1 SD	5	80	-40	-10	-6	-1	7	14	18	19	17	12	5	-1	-6	-8	-10	-10	-11
11	-11																		
1 SD	5	80	-30	3	5	7	9	10	9	6	2	-4	-8	-10	-10	-8	-5	-3	-1
1	2																		

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 SD	6	25	80	1	3	6	-1	-2	-2	-3	-2	1	0	2	-4	2	1	1
0 -2																		
1 SD	6	30	-80	21	24	27	23	17	13	3	-8	-17	-23	-26	-23	-17	-6	-1
7 13																		
1 SD	6	30	-70	33	36	35	29	21	7	-6	-18	-27	-33	-35	-31	-27	-20	-7
17 25																		
1 SD	6	30	-60	32	33	31	22	13	1	-10	-19	-24	-29	-31	-28	-22	-14	-1
18 23																		
1 SD	6	30	-50	24	21	17	12	6	-3	-13	-23	-27	-26	-21	-13	-5	0	5
17 23																		
1 SD	6	30	-40	12	9	6	2	-1	-6	-13	-15	-15	-12	-9	-3	2	6	8
11 13																		
1 SD	6	30	-30	5	4	2	1	0	-4	-7	-7	-6	-5	-5	-1	2	4	5
5																		
1 SD	6	30	-20	3	4	4	2	1	-1	-2	-2	-2	-2	-3	-3	0	0	1
2																		
1 SD	6	30	-10	0	1	2	1	0	0	-1	-1	0	0	-2	-2	-1	0	-1
1																		
1 SD	6	30	0	1	2	2	1	0	-1	-1	-1	0	0	-1	-1	0	0	-1
1																		
1 SD	6	30	10	3	1	3	2	-2	-4	-3	2	1	1	-1	-3	0	-2	-1
2																		
1 SD	6	30	20	4	-1	5	3	-1	-2	0	5	2	1	-1	-7	-1	-3	1
-1																		
1 SD	6	30	30	2	1	3	2	-1	-1	-1	1	0	0	-3	-5	-5	-1	1
0																		
1 SD	6	30	40	1	2	2	2	1	1	-2	0	0	-1	-3	-6	-5	-1	3
1																		
1 SD	6	30	50	2	1	1	1	1	-1	-1	1	1	0	-3	-4	-3	-2	1
2																		
1 SD	6	30	60	1	1	0	-1	-1	-2	-2	1	1	1	-1	-1	-2	-2	-1
1																		
1 SD	6	30	70	-1	-2	-3	-3	-3	-2	-1	1	2	2	3	2	1	0	1
0																		
1 SD	6	30	80	-1	2	4	-1	-4	-2	-1	-1	0	2	1	2	-5	1	2
1																		
1 SD	6	35	-80	20	25	27	16	11	3	-1	-11	-18	-21	-21	-20	-17	-12	-4
8																		
1 SD	6	35	-70	32	34	30	21	12	0	-13	-22	-27	-30	-30	-25	-20	-14	-2
21																		
1 SD	6	35	-60	35	33	25	15	3	-8	-19	-27	-29	-30	-29	-21	-16	-7	5
26																		
1 SD	6	35	-50	23	20	13	6	-1	-12	-20	-27	-28	-24	-17	-7	0	6	12
21																		
1 SD	6	35	-40	8	5	1	-3	-6	-10	-12	-13	-12	-8	-4	2	5	8	9
11																		
1 SD	6	35	-30	1	1	0	-2	-1	-4	-4	-3	-2	0	0	2	2	3	3
3																		
1 SD	6	35	-20	1	2	3	2	2	1	0	0	1	1	-1	-1	-1	-2	-2
-1																		
1 SD	6	35	-10	-1	1	1	1	1	1	0	0	1	1	-1	-1	-1	-1	-1
0																		

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DATASET: CWEJ412 GRAM0090.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 SD	6	45	-80	12	17	19	11	5	0	-4	-10	-14	-15	-14	-13	-9	-5	-1	3
7	12																		
1 SD	6	45	-70	19	21	18	10	4	-4	-12	-16	-16	-17	-14	-10	-10	-7	0	7
15	19																		
1 SD	6	45	-60	16	15	10	1	-4	-9	-13	-14	-11	-8	-6	-2	-3	-2	3	8
12	12																		
1 SD	6	45	-50	3	2	-1	-5	-8	-12	-12	-10	-4	3	10	12	10	5	3	2
1	2																		
1 SD	6	45	-40	-8	-8	-9	-11	-11	-10	-5	1	9	17	21	20	13	5	-2	-6
-7	-7																		
1 SD	6	45	-30	-7	-5	-5	-5	-4	-4	-1	5	11	14	15	12	6	0	-6	-8
-8	-7																		
1 SD	6	45	-20	-3	-1	-1	0	1	2	3	3	5	6	5	3	1	-3	-5	-5
-5	-4																		
1 SD	6	45	-10	-3	-2	-1	1	2	3	3	2	2	2	2	1	0	-2	-2	-2
-3	-2																		
1 SD	6	45	0	0	1	1	1	1	1	1	0	0	0	0	0	-1	-1	-2	-1
-1	0																		
1 SD	6	45	10	2	1	2	3	-1	-2	-1	2	1	1	0	-1	-1	-3	-2	-3
1	SD	6	45	20	2	1	3	3	2	2	3	4	2	1	-1	-4	-4	-4	-4
-2	0																		
1 SD	6	45	30	1	1	3	4	4	4	5	4	4	2	-2	-5	-6	-6	-5	-4
-4	-2																		
1 SD	6	45	40	1	1	4	6	6	7	6	4	1	-1	-4	-7	-8	-6	-5	-2
-2	-1																		
1 SD	6	45	50	4	4	4	5	5	4	4	2	0	-2	-4	-6	-6	-6	-5	-3
-1	1																		
1 SD	6	45	60	2	4	3	2	2	2	3	2	1	1	-3	-5	-5	-5	-4	-2
0	2																		
1 SD	6	45	70	7	5	5	3	1	-1	-1	1	1	-1	-2	-5	-5	-5	-3	-2
-2	2																		
1 SD	6	45	80	6	21	28	8	-5	-5	-6	-5	-5	-5	-4	-5	-6	-5	-4	-4
-4	-3																		
1 SD	6	50	-80	8	13	16	8	-1	-12	-4	-7	-9	-11	-10	-9	-3	-1	2	5
7	10																		
1 SD	6	50	-70	13	14	11	6	0	-5	-10	-11	-10	-9	-6	-4	-5	-4	-1	4
10	12																		
1 SD	6	50	-60	8	7	2	-5	-9	-11	-11	-8	-3	1	3	5	1	0	3	5
7	6																		
1 SD	6	50	-50	-3	-3	-5	-7	-9	-10	-7	-3	5	11	15	15	10	3	0	-2
-4	-3																		
1 SD	6	50	-40	-10	-9	-9	-10	-9	-8	-3	4	13	21	24	21	12	3	-5	-9
11	-10																		
1 SD	6	50	-30	-7	-5	-5	-6	-4	-3	0	6	12	17	17	13	6	-1	-7	-10
1	SD	6	50	-20	-4	-2	-1	-1	1	3	3	4	7	8	7	4	1	-3	-5
-9	-8																		
1 SD	6	50	-10	-3	-3	-2	0	2	3	3	2	3	2	2	1	0	-2	-3	-3
-6	-5																		
1 SD	6	50	0	-1	-1	0	-1	1	0	1	1	1	0	0	1	0	-2	-2	-1
-3	-3																		
1 SD	6	50																	

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DATASET: CWEJ412.GRAM0D90.DATA
 MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1 SD	6	60	-70	-3	-8	-10	-10	-11	-10	-3	0	5	7	12	12	9	6	5	2											
1	0																													
1 SD	6	60	-60	-10	-14	-16	-14	-11	-8	1	7	14	17	21	18	11	5	0	-4											
-6	-7																													
1 SD	6	60	-50	-15	-16	-16	-13	-8	-5	5	10	18	20	23	20	13	4	-2	-9											
13	-14																													
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DATESET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

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45	47																		
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7	8																		
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-3	1																		
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1 SD	7	80	-80	-26	-34	-37	-36	-30	-20	-9	3	15	24	31	36	36	32	24	13	13
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1 SD	-7	80	-50	-53	-59	-50	-30	-8	12	22	23	20	16	17	24	32	36	31	15	15
-9	-35	80	-40	-36	-36	-26	-9	9	23	29	27	20	12	6	5	8	9	7	-2	-
1 SD	14	80	-30	-8	-5	2	9	14	17	15	11	4	-1	-5	-6	-6	-5	-5	-7	-7
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1 SD	5	80	60	10	13	13	10	7	4	1	0	-1	-5	-10	-13	-13	-9	-5	-3	-3
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START
COL

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25		14																			
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2		2																			

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37	23																	

START COL

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3		6																		
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10 -13	8	70	-30	-11	-10	-4	6	15	17	13	8	2	-2	-7	-7	-4	-2	0	-2	-
-3 -6	8	70	-20	0	-2	-1	3	4	1	-3	-4	-6	-5	-6	-3	1	3	6	6	6
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3 3	8	70	10	0	-3	-1	3	0	-3	-2	2	1	-1	-2	-1	2	2	0	-1	-1
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4 4	8	70	40	2	3	4	4	3	5	4	5	4	-1	-5	-7	-8	-7	-5	-1	-1
1 SD	8	70	50	4	5	6	7	8	7	6	5	3	-1	-6	-9	-11	-10	-9	-5	-5
-1 2	8	70	60	1	1	0	0	1	3	4	4	3	1	-2	-4	-3	-5	-5	-5	-5
-2 -1	8	70	70	5	5	2	-2	-4	-2	0	2	2	3	2	0	-2	-3	-3	-2	-2
1 SD	8	70	80	-9	-6	-1	2	1	-3	-2	4	9	6	7	5	4	2	-2	-5	-5
-1 2	8	75	-80	12	13	9	11	13	14	13	7	0	-9	-15	-18	-19	-15	-14	-7	-7
-7 -8	8	75	-70	-6	-2	-1	10	22	30	33	27	17	4	-7	-15	-20	-19	-23	-19	-
-1 8	8	75	-60	-27	-18	-8	15	37	52	57	51	37	19	0	-13	-23	-26	-38	-39	-
1 SD	8	75	-50	-23	-15	-2	19	40	53	54	42	20	0	-15	-23	-26	-24	-23	-23	-
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8 7	8	75	20	5	-1	4	7	2	0	0	3	-2	-6	-8	-8	-3	-2	-2	0	0
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-3	1																			
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-4	-2																			
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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-2	0																			
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1 SD	9	35	-10	0	2	2	2	2	0	-1	-2	-1	0	-1	-1	0	-1	-1	-1	
0	1																			
1 SD	9	35	0	1	1	1	2	2	1	-1	-1	-1	-1	-1	-2	-1	0	0	0	
1	1																			
1 SD	9	35	10	3	2	2	1	0	-1	-1	0	0	-1	-2	-2	-2	-1	0	0	
2	2																			
1 SD	9	35	20	3	2	3	3	0	-1	0	1	1	0	-1	-3	-2	-2	-2	-1	
1	2																			
1 SD	9	35	30	3	3	3	3	1	1	1	1	1	1	1	-1	-4	-4	-4	-1	
0	2																			
1 SD	9	35	40	5	4	4	2	1	1	0	0	0	-1	-4	-5	-4	-2	-1	0	
1	4																			
1 SD	9	35	50	6	5	4	2	2	2	1	1	0	-2	-5	-7	-6	-5	-2	1	
3	5																			
1 SD	9	35	60	6	6	5	3	2	2	4	5	4	1	-3	-8	-11	-10	-6	-2	
2	4																			
1 SD	9	35	70	3	5	4	4	4	4	5	6	5	3	-1	-6	-9	-10	-8	-5	
-2	1																			
1 SD	9	35	80	0	2	4	4	4	4	3	3	3	2	2	0	-3	-3	-4	-6	-5
-3	-2																			
1 SD	9	40	-80	0	-16	-24	-25	-35	-33	-31	-22	-12	2	13	24	32	35	34	28	
22	11																			
1 SD	9	40	-70	14	-6	-24	-41	-55	-60	-57	-44	-27	-6	12	28	40	50	54	51	
44	30																			
1 SD	9	40	-60	20	-7	-30	-48	-62	-68	-64	-53	-31	-9	12	30	43	56	62	61	
53	42																			
1 SD	9	40	-50	13	-6	-25	-43	-54	-58	-54	-42	-24	-5	14	30	40	46	50	50	
42	31																			
1 SD	9	40	-40	3	-6	-15	-23	-27	-28	-24	-17	-7	2	11	18	21	23	23	22	
17	11																			
1 SD	9	40	-30	0	-1	-3	-5	-6	-7	-6	-3	-1	2	4	5	6	6	5	3	2

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MEMBER: SCIDAT9

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5	5	45	80	1	4	5	1	3	1	1	0	0	-1	-4	-3	0	1	-2
1 SD	-1	50	-80	-17	-35	-48	-48	-53	-44	-35	-18	-2	18	34	45	53	47	35
19	1	50	-70	-11	-32	-48	-60	-63	-59	-46	-25	-2	21	38	49	54	56	43
1 SD	9	50	-60	-3	-24	-38	-49	-53	-49	-38	-22	-2	16	29	36	39	43	36
29	9	50	-50	-7	-19	-30	-39	-42	-38	-29	-13	2	17	27	33	33	32	25
27	16	50	-40	-10	-13	-16	-17	-15	-12	-5	4	12	17	18	17	13	9	5
1 SD	7	50	-30	-4	0	1	3	5	5	7	8	7	6	3	0	-3	-6	-8
-2	-5	50	-20	1	5	7	8	7	5	3	3	0	-1	-3	-5	-6	-6	-6
1 SD	-8	50	-10	1	3	5	6	5	4	2	0	-2	-3	-4	-4	-3	-3	-2
-3	-1	50	0	1	2	3	4	3	3	1	0	-2	-3	-4	-4	-2	-1	0
1 SD	-1	50	10	3	2	2	2	0	-1	-1	0	-1	-2	-3	-3	-2	-1	1
2	1	50	20	4	3	4	3	1	-1	0	2	1	0	-2	-3	-3	-2	-1
1 SD	3	50	30	4	4	4	3	1	1	2	3	2	1	-1	-3	-5	-5	-3
1	3	50	40	4	4	4	3	2	1	0	0	0	0	-2	-3	-3	-2	-1
1 SD	-1	50	50	5	3	2	1	0	0	-1	-2	-3	-4	-4	-4	-2	0	2
0	2	50	60	5	1	-1	-2	-1	-2	-2	-4	-5	-6	-6	-4	-3	1	6
1 SD	3	50	70	3	1	-1	-1	1	0	0	-1	-3	-4	-4	-4	-3	0	4
9	7	50	80	2	3	3	-1	2	0	0	0	0	-1	-3	-1	0	1	0
1 SD	6	55	-80	-11	-32	-45	-54	-55	-51	-39	-21	1	20	34	43	46	50	46
0	0	55	-70	-8	-30	-45	-55	-57	-55	-44	-24	-1	22	37	43	44	48	41
1 SD	24	55	-60	4	-22	-37	-48	-51	-47	-35	-14	5	19	22	24	24	35	36
30	12	55	-50	-11	-22	-31	-40	-41	-34	-23	-7	10	23	30	31	30	28	25
1 SD	30	55	-40	-13	-15	-16	-16	-13	-8	-1	10	17	22	20	16	11	5	1
12	2	55	-30	-6	-1	2	5	8	9	11	13	11	9	4	-1	-5	-9	-12
1 SD	-6	55	-20	1	5	8	10	10	8	6	5	2	0	-4	-7	-8	-9	-8
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-4	-2	55	0	1	5	8	10	10	8	6	5	2	0	-4	-7	-8	-9	-8

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0	0																			
1 SD	9	65	-80	-32	-43	-47	-49	-42	-30	-14	5	25	39	49	49	43	38	26	10	
-5	-19																			
1 SD	9	65	-70	-41	-49	-51	-48	-36	-21	-2	22	42	55	59	50	36	26	14	-3	
16	-30																			
1 SD	9	65	-60	-27	-35	-34	-31	-18	-3	10	28	42	44	40	26	10	9	-2	-14	
19	-21																			
1 SD	9	65	-50	-31	-35	-34	-30	-20	-6	8	22	33	40	39	31	22	12	3	-7	
17	-25																			
1 SD	9	65	-40	-24	-23	-20	-13	-4	4	13	23	29	32	27	19	10	0	-8	-15	
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1 SD	9	65	-30	-12	-7	-2	4	10	12	14	17	17	16	9	1	-4	-9	-13	-17	
16	-14																			
1 SD	9	65	-20	0	3	7	11	12	11	7	6	4	2	-4	-8	-9	-10	-10	-9	
-5	-2																			
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-2	0																			
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0	2																			
1 SD	9	65	30	5	5	5	4	1	0	2	3	2	1	-1	-4	-6	-6	-7	-4	
-1	2																			
1 SD	9	65	40	1	2	3	2	1	1	1	3	3	3	1	-1	-3	-3	-5	-3	
-3	-1																			
1 SD	9	65	50	1	3	4	4	4	2	0	-2	-1	-1	0	-1	-1	-1	-2	-2	
-2	-2																			
1 SD	9	65	60	1	1	1	1	1	0	-1	-2	-4	-4	-3	-1	0	2	3	4	
3	2																			
1 SD	9	65	70	-3	-1	0	1	0	-1	-2	-2	-3	-2	-1	0	2	4	5	3	
0	-2																			
1 SD	9	65	80	-1	-1	0	2	3	3	4	3	2	3	-1	-1	-2	-3	-4	-2	
-1	-1																			
1 SD	9	70	-80	-38	-43	-42	-39	-28	-14	2	18	34	44	49	45	34	26	12	-4	
19	-30																			
1 SD	9	70	-70	-51	-51	-46	-39	-22	-3	18	39	56	64	62	47	27	12	-3	-22	
35	-46																			
1 SD	9	70	-60	-37	-38	-29	-21	-2	17	30	44	54	51	43	22	1	-4	-18	-32	
39	-39																			
1 SD	9	70	-50	-37	-35	-30	-21	-8	9	24	36	42	44	36	25	13	0	-10	-20	
30	-36																			
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23	-26																			
1 SD	9	70	-30	-8	-4	0	7	13	13	13	14	14	14	12	5	-1	-6	-11	-14	-16
15	-12																			
1 SD	9	70	-20	2	5	8	12	13	10	4	2	1	-1	-6	-10	-9	-9	-8	-7	
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1 SD	9	70	-10	2	3	6	9	10	7	2	0	-1	-2	-6	-9	-7	-5	-5	-3	
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-4	11																		
1 SD	10	20	-60	29	40	46	47	38	21	4	-12	-22	-26	-28	-32	-35	-33	-28	-16
-2	14																		
1 SD	10	20	-50	22	28	32	31	24	12	-1	-12	-18	-19	-19	-21	-21	-20	-16	-10
0	11																		
1 SD	10	20	-40	9	11	14	14	9	2	-3	-9	-10	-7	-6	-7	-6	-4	-5	-4
-1	6																		
1 SD	10	20	-30	4	4	4	3	-2	-4	-4	-5	-6	-3	0	0	1	4	3	0
2	4																		
1 SD	10	20	-20	3	1	-1	-3	-5	-2	-2	-3	-1	-3	-2	2	5	5	3	3
3	4																		
1 SD	10	20	-10	3	2	1	-1	-2	-2	-3	-2	-2	-2	-3	0	2	3	4	4
4	4																		
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4	4																		
1 SD	10	20	10	4	3	2	1	-1	-3	-4	-4	-4	-5	-4	-3	0	1	4	6
5	5																		
1 SD	10	20	20	6	2	2	1	-3	-4	-5	-9	-9	-9	-7	-3	1	1	9	11
11	8																		
1 SD	10	20	30	10	6	3	-2	-5	-6	-6	-7	-11	-11	-11	-5	-1	3	10	10
12	14																		
1 SD	10	20	40	8	7	7	3	1	-1	0	2	-2	-3	-6	-4	-3	-2	-3	-4
7	7																		
1 SD	10	20	50	-7	-3	2	4	3	3	6	11	14	14	11	7	2	-4	-12	-19
18	-12																		
1 SD	10	20	60	-15	-10	-5	-1	-1	1	6	14	21	24	23	17	7	-3	-14	-20
22	-19																		
1 SD	10	20	70	-17	-15	-11	-7	-3	2	8	17	25	27	25	17	7	-3	-12	-17
19	-19																		
1 SD	10	20	80	-13	-11	-9	-5	-1	4	9	14	17	18	15	10	4	-3	-8	-12
13	-14																		
1 SD	10	25	-80	32	35	32	26	16	1	-10	-21	-28	-29	-28	-26	-22	-15	-6	5
16	25																		
1 SD	10	25	-70	50	53	49	39	22	-2	-20	-36	-46	-47	-43	-39	-30	-18	-5	10
26	39																		
1 SD	10	25	-60	48	50	46	34	18	-6	-22	-36	-43	-42	-38	-34	-27	-16	-5	9
25	38																		
1 SD	10	25	-50	32	34	30	22	10	-7	-18	-27	-30	-28	-24	-20	-15	-8	0	9
18	26																		
1 SD	10	25	-40	16	16	14	10	3	-6	-12	-15	-15	-12	-11	-8	-4	0	2	5
9	13																		
1 SD	10	25	-30	7	6	4	2	-2	-5	-7	-7	-6	-4	-4	-2	1	3	3	3
5	6																		
1 SD	10	25	-20	2	2	1	0	-1	-2	-3	-3	-1	-1	-2	-1	1	2	3	2
2	3																		
1 SD	10	25	-10	2	2	2	1	0	-1	-3	-2	-1	-1	-2	0	1	2	2	2
2	2																		
1 SD	10	25	0	2	2	1	1	0	-2	-2	-2	-1	-1	-1	-1	0	0	2	2
3	3																		
1 SD	10	25	10	3	1	2	1	-1	-4	-3	-1	-1	-1	-1	-2	0	0	2	1
4	4																		

START COL	1	2	3	4	5	6	7	8	9	0
1 SD 10 25 20 5 1 3 1 -2 -4 -4 -1 -3 -3 -2 -4 0 -1 4 4										
4 4										
1 SD 10 25 30 6 5 4 1 -1 -2 -4 -4 -5 -5 -6 -4 -2 0 2 5										
7 7										
1 SD 10 25 40 6 7 7 6 4 3 1 1 0 -2 -5 -6 -6 -7 -7 -4										
0 5										
1 SD 10 25 50 -1 3 8 10 10 10 11 12 13 10 4 -2 -9 -15 -20 -21 -										
14 -6										
1 SD 10 25 60 -7 0 6 9 10 13 17 21 23 20 13 4 -8 -19 -28 -29 -										
24 -15										
1 SD 10 25 70 -11 -6 -1 4 8 14 20 24 27 24 16 5 -6 -18 -26 -28 -										
24 -17										
1 SD 10 25 80 -9 -14 -10 6 6 12 15 18 18 15 11 3 -3 -7 -14 -16 -										
15 -14										
1 SD 10 30 -80 37 35 30 26 18 7 -17 -24 -32 -33 -32 -26 -9 -2 10										
19 28										
1 SD 10 30 -70 54 54 46 35 13 -4 -21 -34 -45 -50 -51 -47 -33 -15 1 18										
37 45										
1 SD 10 30 -60 58 54 41 23 -1 -22 -38 -48 -53 -50 -44 -35 -21 -3 13 29										
45 53										
1 SD 10 30 -50 43 37 24 7 -10 -30 -40 -44 -43 -36 -26 -16 -4 8 20 31										
40 43										
1 SD 10 30 -40 21 17 9 2 -7 -15 -20 -21 -20 -17 -13 -7 -1 6 12 16										
19 21										
1 SD 10 30 -30 8 6 3 -1 -3 -7 -9 -8 -6 -5 -6 -2 2 4 5 6										
7 8										
1 SD 10 30 -20 2 2 2 1 0 -2 -4 -3 -1 0 -3 -1 1 2 2 1										
1 2										
1 SD 10 30 -10 2 2 2 1 1 -1 -2 -3 -1 0 -2 -1 0 0 1 1										
1 2										
1 SD 10 30 0 2 1 1 1 0 0 -1 -1 -1 -1 -1 0 0 1 1										
1 2										
1 SD 10 30 10 3 1 3 2 0 -3 -3 0 0 0 -1 0 0 1 -1										
2 1										
1 SD 10 30 20 3 0 3 2 0 -1 -3 -2 2 0 1 0 -4 -1 0 -1 0										
1 1										
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2 4										
1 SD 10 30 40 8 8 7 5 3 2 2 1 1 -2 -6 -9 -10 -8 -7 -1										
3 6										
1 SD 10 30 50 11 13 14 13 11 10 10 9 6 2 -6 -14 -20 -22 -21 -14										
-4 6										
1 SD 10 30 60 12 18 20 19 17 16 18 15 8 -2 -16 -28 -35 -36 -27 -										
13 1										
1 SD 10 30 70 6 12 14 16 17 19 22 22 19 12 1 -13 -25 -33 -35 -29 -										
18 -5										
1 SD 10 30 80 2 -5 -1 15 11 15 15 13 7 1 -6 -11 -14 -18 -16 -										
11 -7										
1 SD 10 35 -80 42 29 19 20 -5 -3 -27 -34 -41 -40 -36 -30 -17 3 16 28										
38 41										
1 SD 10 35 -70 69 58 41 15 -9 -29 -46 -56 -61 -60 -52 -39 -20 0 23 44										
59 68										

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66 73	35	-50	47	35	16	-5	-24	-40	-47	-49	-47	-38	-25	-13	2	19	32	42
1 SD 10	50	50	20	14	4	-6	-13	-19	-21	-22	-21	-17	-11	-5	3	11	17	22
24 24	35	-40	20	14	4	-6	-13	-19	-21	-22	-21	-17	-11	-5	3	11	17	22
1 SD 10	35	-30	6	4	2	-2	-4	-6	-6	-7	-7	-5	-3	-1	2	5	5	6
7 7	35	-20	2	2	2	2	0	-1	-3	-2	-1	0	-2	-1	1	1	1	0
1 SD 10	0	2	35	-10	2	2	2	0	-1	-2	-3	-1	0	0	0	0	0	0
1 SD 10	1	1	35	0	2	2	2	1	0	-1	-1	-1	0	0	0	-1	-1	0
1	1	1	35	10	2	2	2	1	0	-1	-2	0	0	0	0	-1	-1	0
1 SD 10	1	1	35	20	3	2	2	1	0	-1	-1	0	0	0	-1	-2	-1	-1
1 SD 10	0	2	35	30	3	2	3	2	1	0	1	2	0	-1	-2	-3	-2	-1
1 SD 10	-1	1	35	40	8	7	4	2	0	-1	-1	0	-3	-6	-8	-4	-2	3
5 8	35	50	24	21	16	9	2	-1	-1	-2	-4	-9	-16	-21	-22	-17	-9	2
1 SD 10	12	21	35	60	36	35	28	18	9	3	1	-1	-6	-12	-22	-31	-36	-23
1 SD 10	13	28	35	70	32	34	30	23	15	9	6	2	-4	-10	-21	-30	-35	-27
1 SD 10	6	22	35	80	17	15	16	17	13	10	3	0	-3	-6	-14	-18	-16	-14
1 SD 10	1	8	40	-80	39	25	14	17	-11	-5	-32	-36	-40	-38	-33	-26	-10	8
1 SD 10	39	39	40	-70	64	50	32	5	-19	-36	-51	-59	-53	-42	-27	-9	9	30
1 SD 10	59	65	40	-60	67	51	27	-3	-30	-48	-62	-64	-62	-53	-37	-20	-1	19
1 SD 10	65	70	40	-50	39	25	5	-16	-34	-46	-51	-48	-42	-30	-15	-1	12	27
1 SD 10	50	46	40	-40	15	8	-2	-12	-19	-22	-22	-19	-17	-11	-5	2	8	15
1 SD 10	22	20	40	-30	3	1	-1	-3	-4	-5	-5	-4	-4	-3	-1	0	2	5
1 SD 10	6	5	40	-20	2	2	4	3	2	0	-3	-3	-2	-2	-1	0	0	0
1 SD 10	0	1	40	-10	2	3	3	3	2	0	-2	-3	-2	-1	-1	0	0	0
0 1	0	1	40	0	2	3	3	3	1	1	-1	-2	-1	-1	0	-1	-1	-1
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1 SD 10	-2	0																

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5	3																				
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24	-10																				
1 SD	11	25	60	0	11	18	21	21	21	23	27	27	21	10	-4	-20	-33	-43	-46	-	
35	-17																				

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0										
1 SD 11	25	70	0	10	17	20	22	23	25	27	26	18	6	-8	-23	-35	-42	-40	-	
29 -13	1 SD 11	25	80	0	4	8	15	18	18	17	16	13	8	-1	-11	-13	-22	-23	-21	-
16 -7	1 SD 11	30	-80	21	18	12	5	-5	-12	-16	-18	-19	-18	-14	-11	-6	2	9	16	-
20 21	1 SD 11	30	-70	30	25	15	4	-9	-20	-26	-29	-28	-26	-20	-14	-6	6	16	26	-
30 31	1 SD 11	30	-60	29	23	13	1	-12	-23	-29	-30	-28	-24	-18	-11	-2	10	19	28	-
32 31	1 SD 11	30	-50	22	18	10	0	-11	-20	-25	-25	-21	-19	-14	-8	-1	8	16	22	-
26 25	1 SD 11	30	-40	9	7	3	-1	-5	-9	-12	-11	-9	-7	-6	-2	1	6	9	10	-
10 10	1 SD 11	30	-30	2	2	1	1	-1	-2	-5	-3	-2	-1	-2	-1	1	3	3	2	-
3 2	1 SD 11	30	-20	1	2	2	1	1	-1	-3	-2	-1	-1	-3	-1	1	1	2	1	-
1 1	1 SD 11	30	-10	2	2	2	2	0	-1	-3	-3	-2	-1	-2	-1	0	1	0	1	-
2 2	1 SD 11	30	0	2	2	2	1	0	-2	-3	-2	-2	-1	-1	-1	0	1	1	1	-
2 2	1 SD 11	30	10	4	2	3	2	-1	-3	-4	-1	-1	-1	-1	-2	0	1	0	0	-
3 2	1 SD 11	30	20	5	3	4	3	0	-3	-2	0	-1	-1	-2	-5	-2	0	-1	1	-
2 3	1 SD 11	30	30	8	6	4	1	-2	-2	-2	-3	-2	-3	-5	-4	-4	-2	-1	2	-
4 8	1 SD 11	30	40	16	15	12	6	3	0	-1	-2	-3	-7	-11	-12	-13	-10	-8	-1	-
7 14	1 SD 11	30	50	27	31	30	24	18	13	9	6	0	-8	-19	-28	-33	-34	-31	-19	-
-1 17	1 SD 11	30	60	36	48	51	48	40	30	22	16	4	-9	-25	-42	-55	-60	-56	-42	-
14 15	1 SD 11	30	70	37	52	58	56	49	38	28	17	3	-13	-31	-49	-62	-67	-63	-46	-
17 13	1 SD 11	30	80	20	25	31	39	41	32	22	12	-1	-13	-27	-41	-34	-43	-33	-24	-
10 8	1 SD 11	35	-80	23	21	18	13	-1	-7	-16	-22	-24	-24	-23	-17	-10	-2	9	16	-
22 28	1 SD 11	35	-70	32	24	13	0	-12	-19	-28	-34	-33	-31	-26	-17	-4	11	23	31	-
36 37	1 SD 11	35	-60	27	16	5	-8	-19	-26	-32	-32	-29	-25	-18	-9	4	18	29	34	-
36 34	1 SD 11	35	-50	16	9	0	-9	-17	-22	-24	-22	-19	-14	-8	-2	7	15	22	25	-
9 8	1 SD 11	35	-40	6	3	0	-5	-6	-8	-8	-7	-8	-6	-4	-1	4	7	10	10	-
1 1	1 SD 11	35	-30	1	1	1	-1	0	-1	-1	-2	-3	-1	-1	-1	1	2	3	2	-
1 1	1 SD 11	35	-20	2	2	2	2	1	-1	-2	-2	-2	-2	-3	-2	0	1	1	1	-
1 2	1 SD 11	35	-10	3	3	3	3	2	1	-1	-1	-1	-1	-1	-1	0	1	1	1	-

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0						
1 SD 11	35	-10	2	2	2	2	0	-1	-2	-1	-2	-1	0	0	0	0
1 SD 11	35	0	1	2	2	2	1	0	-1	-1	0	0	0	0	0	0
1 SD 11	35	10	1	0	1	1	0	-2	-1	0	0	1	0	1	0	0
1 SD 11	35	20	1	0	1	0	-1	-2	-1	0	1	2	1	1	0	-1
1 SD 11	35	30	4	1	-1	-4	-7	-6	-4	-3	0	-1	1	2	2	3
1 SD 11	35	40	22	16	8	0	-7	-11	-12	-12	-13	-16	-17	-13	-9	-2
1 SD 11	35	50	57	55	45	31	16	2	-9	-18	-29	-40	-48	-51	-46	-36
1 SD 11	35	60	84	92	87	71	49	23	2	-16	-37	-55	-71	-82	-84	-74
1 SD 11	35	70	81	97	99	88	67	38	13	-10	-34	-55	-75	-89	-93	-85
1 SD 11	35	80	42	60	73	76	52	32	12	-6	-24	-38	-55	-65	-60	-57
1 SD 11	40	-80	17	17	15	15	-3	-5	-16	-18	-19	-18	-17	-13	-7	-1
1 SD 11	40	-70	22	15	7	-3	-13	-17	-23	-25	-23	-21	-16	-9	1	12
1 SD 11	40	-60	17	8	-1	-11	-19	-22	-25	-24	-19	-15	-9	-3	7	17
1 SD 11	40	-50	8	3	-3	-10	-14	-18	-17	-15	-12	-7	-2	3	8	13
1 SD 11	40	-40	3	2	-1	-3	-4	-5	-5	-4	-5	-4	-2	0	3	6
1 SD 11	40	-30	1	1	1	0	1	1	0	-1	-3	-2	-1	-2	1	2
1 SD 11	40	-20	3	3	3	3	2	1	-1	-3	-3	-2	-2	-1	0	1
1 SD 11	40	-10	2	2	3	3	2	0	-1	-3	-1	-1	-1	-1	0	0
1 SD 11	40	0	0	1	1	1	2	1	1	0	0	0	0	1	0	-1
1 SD 11	40	10	-2	-1	0	0	0	0	2	3	3	3	2	1	0	-1
1 SD 11	40	20	-4	-4	-3	-3	-3	-2	0	3	5	6	6	4	2	0
1 SD 11	40	30	-4	-7	-9	-12	-13	-10	-6	-2	1	4	8	10	11	10
1 SD 11	40	40	21	11	1	-10	-18	-22	-24	-23	-21	-20	-15	-6	2	13
1 SD 11	40	50	74	64	47	26	5	-15	-32	-44	-54	-62	-63	-57	-42	-21
1 SD 11	40	60	119	118	103	75	41	2	-30	-55	-76	-92	-100	-100	-88	-65
1 SD 11	40	70	118	125	116	91	56	13	-21	-50	-73	-90	-101	-105	-97	-76
1 SD 11	48	90														

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 SD 11	50	0	-2	-3	-3	-3	-2	0	3	4	5	5	3	2					
0 -1																			
1 SD 11	50	10	-7	-8	-7	-6	-4	-3	-1	2	5	7	9	8	5	2	0		
-3 -5																			
1 SD 11	50	20	-14	-14	-12	-9	-6	-2	3	9	13	15	15	14	11	6	0	-5	-
10 -13																			
1 SD 11	50	30	-15	-18	-20	-21	-19	-14	-7	1	9	16	20	24	23	20	14	7	
-3 -11																			
1 SD 11	50	40	11	0	-10	-20	-28	-32	-32	-27	-20	-12	-2	10	21	29	33	34	
29 21																			
1 SD 11	50	50	71	57	37	12	-13	-36	-55	-66	-71	-69	-59	-41	-17	9	35	57	
73 77																			
1 SD 11	50	60	134	119	92	53	11	-36	-70	-94	-110	-116	-109	-92	-63	-24	19	62	1
01 126																			
1 SD 11	50	70	137	127	103	65	23	-27	-62	-88	-106	-114	-112	-100	-74	-37	5	52	
91 122																			
1 SD 11	50	80	73	87	86	75	19	-13	-40	-58	-70	-74	-77	-69	-43	-25	-2	23	
46 66																			
1 SD 11	55	-80	-4	0	5	14	3	12	8	6	4	1	-2	-4	-7	-8	-6	-7	
-7 -4																			
1 SD 11	55	-70	-8	-4	1	4	7	12	13	12	11	8	5	0	-4	-7	-10	-13	-
14 -11																			
1 SD 11	55	-60	-8	-5	-1	2	5	9	10	9	10	9	6	1	-2	-4	-7	-11	-
11 -9																			
1 SD 11	55	-50	-5	-3	-1	1	4	4	4	4	3	3	3	2	1	-1	-1	-4	
-5 -5																			
1 SD 11	55	-40	-1	-1	1	2	2	2	1	1	-1	-2	-1	0	1	2	1	0	
-2 -2																			
1 SD 11	55	-30	1	2	2	2	2	2	1	-1	-2	-1	-1	-2	0	0	0	-1	
-1 0																			
1 SD 11	55	-20	1	1	2	1	1	0	-1	-1	-1	-1	-1	-1	1	1	0	0	
1 1																			
1 SD 11	55	-10	0	0	1	0	0	-1	-2	-2	0	0	1	2	2	1	1	1	
1 0																			
1 SD 11	55	0	-3	-3	-3	-3	-2	-3	-2	0	2	3	4	5	5	4	3	1	
-1 -3																			
1 SD 11	55	10	-9	-9	-8	-6	-5	-3	0	4	7	9	11	11	9	6	2	-2	
-5 -8																			
1 SD 11	55	20	-18	-17	-15	-11	-7	-1	5	12	18	20	20	18	14	6	-1	-9	-
15 -17																			
1 SD 11	55	30	-21	-22	-23	-22	-20	-14	-5	5	16	23	27	29	26	20	11	1	-
11 -17																			
1 SD 11	55	40	3	-6	-14	-22	-28	-39	-37	-28	-12	-3	8	20	30	35	34	29	
21 12																			
1 SD 11	55	50	75	60	38	7	-21	-48	-69	-80	-81	-75	-60	-38	-12	27	51	69	
80 82																			
1 SD 11	55	60	147	126	91	45	-4	-52	-91	-115	-128	-129	-117	-93	-57	-8	42	85	1
18 146																			
1 SD 11	55	70	146	135	105	61	12	-34	-75	-104	-122	-127	-122	-103	-71	-26	22	68	1
08 137																			
1 SD 11	55	80	73	72	63	44	16	-13	-38	-57	-67	-65	-64	-53	-37	-16	5	28	
50 66																			

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DATASET: CWEJ412.GRAMDD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0										
1 SD 11	80	20	1	0	1	0	1	4	5	4	1	-2	-6	-8	-6	-1	4			
4																				
1 SD 11	80	30	3	1	-2	-5	-6	-2	3	8	10	10	7	0	-8	-11	-7	-1		
2																				
1 SD 11	80	40	5	-7	-18	-23	-21	-13	-5	3	9	13	13	10	2	0	5	9		
12																				
1 SD 11	80	50	30	12	-8	-28	-43	-50	-50	-41	-29	-18	-5	7	19	29	40	47		
50																				
1 SD 11	80	60	51	23	-5	-32	-56	-73	-75	-66	-54	-42	-25	-1	26	48	62	72		
80																				
1 SD 11	80	70	54	29	0	-24	-43	-56	-59	-55	-49	-41	-31	-14	10	32	50	62		
71																				
1 SD 11	80	80	26	16	6	-5	-17	-26	-30	-29	-25	-13	-15	-10	-4	7	21	33		
38																				
1 SD 11	85	-80	21	24	18	7	2	7	0	-1	0	-12	-19	-22	-21	-15	-6	-2		
8																				
1 SD 11	85	-70	31	40	36	14	4	9	-1	-14	-2	-20	-34	-30	-28	-20	-8	-5		
7																				
1 SD 11	85	-60	41	38	15	1	0	15	-1	1	0	-12	-22	-37	-32	-19	-13	-14		
6																				
1 SD 11	85	-50	4	8	10	1	-1	1	1	1	1	-5	-1	0	-9	-18	-18	-1	6	
10																				
1 SD 11	85	-40	-10	5	-2	-22	-31	-24	-7	-2	-7	13	26	23	14	7	14	14	14	
1																				
1 SD 11	85	-30	-5	1	-9	-19	-10	4	5	-9	-11	18	27	16	11	6	7	-1	-	
19																				
1 SD 11	85	-20	-1	-10	-12	-9	-5	-8	-14	-14	-7	12	19	17	13	13	4	2	2	
1																				
1 SD 11	85	-10	1	-9	-11	-7	-3	-7	-13	-16	-12	4	14	15	10	7	4	8	8	
11																				
1 SD 11	85	0	3	-9	-9	-5	-2	-6	-13	-19	-18	-4	9	12	6	1	3	14	14	
20																				
1 SD 11	85	10	5	-8	-8	-2	-1	-5	-12	-21	-23	-12	3	9	2	-5	3	21	21	
30																				
1 SD 11	85	20	7	8	10	9	4	4	6	0	-7	-7	-3	-8	-19	-24	-10	8	8	
12																				
1 SD 11	85	30	5	6	7	5	-1	1	8	10	6	2	3	5	-20	-27	-15	1	1	
7																				
1 SD 11	85	40	8	-17	-35	-39	-28	-7	11	23	25	20	15	5	-14	-22	-7	11	11	
25																				
1 SD 11	85	50	44	31	10	-14	-34	-43	-41	-29	-17	-12	-8	-4	-3	-4	5	22	22	
44																				
1 SD 11	85	60	47	26	13	-9	-40	-63	-59	-39	-31	-35	-27	-4	19	25	20	32	32	
58																				
1 SD 11	85	70	40	21	5	-5	-13	-22	-25	-23	-25	-31	-34	-23	-2	14	18	21	21	
36																				
1 SD 11	85	80	-4	-7	-4	-4	-9	-16	-16	-9	2	30	12	2	-11	-12	2	17	17	
19																				
1 SD 11	90	-80	23	26	20	9	3	8	1	-1	0	-14	-20	-24	-22	-16	-6	-2	-2	
8																				
1 SD 11	90	-70	33	42	39	16	6	10	-1	-15	-3	-21	-36	-31	-29	-22	-9	-6	-6	
7																				

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 SD	12	35	40	41	34	22	5	-12	-24	-29	-27	-26	-24	-18	-10	-1	8	22	
33	40																		
1 SD	12	35	50	90	88	71	42	9	-20	-39	-48	-52	-55	-57	-54	-46	-35	-15	13
45	73																		
1 SD	12	35	60	116	127	111	80	39	-3	-33	-51	-62	-68	-75	-80	-79	-71	-48	-12
35	83																		
1 SD	12	35	70	108	123	111	84	46	5	-26	-47	-59	-65	-73	-79	-80	-72	-51	-16
27	73																		
1 SD	12	35	80	50	65	70	63	37	11	-7	-23	-35	-36	-47	-44	-50	-45	-33	-15
9	33																		
1 SD	12	40	-80	7	3	-1	1	26	3	-7	-9	-9	-8	-5	-4	-3	-1	1	1
4	7																		
1 SD	12	40	-70	9	8	6	5	1	-5	-6	-5	-5	-6	-7	-6	-3	0	3	3
7	10																		
1 SD	12	40	-60	5	4	6	5	2	-4	-3	-1	-1	-4	-4	-5	-7	-3	0	2
4	5																		
1 SD	12	40	-50	3	3	2	2	1	-2	-2	-1	-1	-2	-1	-2	-4	-2	1	2
1	1																		
1 SD	12	40	-40	1	3	2	1	0	-1	-1	-1	-1	-2	-1	-1	-1	0	1	1
-1	-1																		
1 SD	12	40	-30	2	2	2	0	0	1	-1	-2	-2	0	0	-1	-1	1	0	1
-1	0																		
1 SD	12	40	-20	1	2	1	1	0	-1	-2	-3	-1	1	-1	-2	0	1	2	0
0	1																		
1 SD	12	40	-10	1	1	1	1	1	-1	-1	-3	0	1	0	-1	1	0	1	0
0	0																		
1 SD	12	40	0	-1	-1	-1	-1	-2	-1	0	-1	0	1	1	1	1	1	1	0
-1	-2																		
1 SD	12	40	10	-3	-3	-2	-2	-2	-1	1	2	2	2	3	3	2	2	2	0
-2	-3																		
1 SD	12	40	20	-6	-6	-6	-6	-4	-1	2	5	7	8	7	6	5	3	1	-1
-4	-5																		
1 SD	12	40	30	-2	-9	-13	-17	-18	-14	-8	-2	4	6	8	11	12	13	12	12
7	2																		
1 SD	12	40	40	32	16	-2	-21	-35	-41	-37	-30	-21	-16	-11	-3	7	17	27	38
42	41																		
1 SD	12	40	50	98	80	47	8	-29	-56	-68	-69	-64	-58	-51	-41	-25	-7	19	49
77	96																		
1 SD	12	40	60	135	129	95	51	3	-42	-70	-82	-85	-81	-77	-72	-60	-42	-11	28
74	115																		
1 SD	12	40	70	126	128	99	61	16	-27	-56	-73	-80	-81	-81	-78	-68	-49	-20	20
63	103																		
1 SD	12	40	80	62	72	70	58	22	-5	-24	-39	-50	-48	-55	-45	-44	-35	-17	4
28	49																		
1 SD	12	45	-80	3	-1	1	2	43	6	-8	-9	-11	-9	-6	-5	-4	-2	-1	-1
1	5																		
1 SD	12	45	-70	7	5	4	2	-1	-6	-7	-5	-5	-5	-5	-4	-4	0	2	4
7	9																		
1 SD	12	45	-60	3	2	4	3	-1	-5	-2	-1	-1	-3	-2	-3	-6	-2	2	3
4	4																		
1 SD	12	45	-50	3	3	2	1	-1	-2	-2	-1	0	-1	-1	-1	-3	-2	2	2
1	2																		

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DATASET: CWEJ412.GRAM0090.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 SD 12	50	55	21	-18	-52	-76	-84	-76	-59	-42	-26	-11	5	25	43	62	77		
84 77																			
1 SD 12	50	60	102	73	30	-13	-52	-80	-91	-88	-79	-64	-49	-30	-7	19	48	76	1
00 111																			
1 SD 12	50	70	107	88	49	10	-27	-58	-76	-83	-82	-75	-66	-52	-29	-1	31	66	
94 109																			
1 SD 12	50	80	70	69	57	37	1	-25	-40	-52	-61	-60	-61	-44	-30	-12	11	32	
50 64																			
1 SD 12	55	-80	3	1	-3	1	30	4	-9	-9	-10	-7	-4	-3	-3	-2	0	2	
4 6																			
1 SD 12	55	-70	6	3	2	1	-2	-7	-7	-5	-4	-3	-2	-2	-2	1	3	5	
7 8																			
1 SD 12	55	-60	3	1	2	1	-2	-4	-2	-1	1	-1	-1	-1	-4	0	2	2	
3 4																			
1 SD 12	55	-50	2	1	-1	-1	-2	-2	-2	-1	1	0	1	1	-2	-1	2	3	
2 1																			
1 SD 12	55	-40	1	2	0	0	-1	-1	0	0	0	-1	1	1	-1	0	2	2	
-1 -1																			
1 SD 12	55	-30	2	1	1	-2	-1	0	0	-2	-2	0	1	1	-1	1	2	1	
-2 0																			
1 SD 12	55	-20	-1	0	-1	-1	-1	0	0	-1	-1	1	-1	-2	0	2	2	2	
1 1																			
1 SD 12	55	-10	-3	-1	-2	-1	0	2	2	1	1	2	1	-2	0	1	2	1	
0 -2																			
1 SD 12	55	0	-3	-2	-1	0	1	2	2	2	1	2	2	-1	-1	0	1	-1	
-2 -2																			
1 SD 12	55	10	-5	-5	-3	-1	2	2	2	4	4	3	3	2	1	1	0	-3	
-4 -5																			
1 SD 12	55	20	-12	-13	-10	-7	-3	2	8	12	14	13	10	8	4	1	-2	-4	
-8 -10																			
1 SD 12	55	30	-26	-31	-32	-28	-19	-6	9	21	27	28	25	22	19	13	6	1	
-9 -18																			
1 SD 12	55	40	-17	-36	-50	-58	-57	-41	-19	2	19	29	33	36	37	37	35	30	
19 3																			
1 SD 12	55	50	36	0	-37	-65	-82	-82	-69	-47	-33	-14	1	16	38	55	70	79	
78 63																			
1 SD 12	55	60	80	51	9	-33	-65	-87	-94	-86	-73	-55	-36	-13	14	42	64	80	1
02 106																			
1 SD 12	55	70	94	68	29	-11	-45	-70	-83	-87	-82	-71	-57	-36	-7	28	58	80	
95 102																			
1 SD 12	55	80	62	55	39	16	-9	-29	-41	-51	-58	-48	-52	-38	-20	0	22	41	
55 62																			
1 SD 12	60	-80	4	3	1	1	-1	-2	-3	-3	-3	-2	1	-1	0	2	3	3	
3 3																			
1 SD 12	60	-70	5	4	1	1	-1	-3	-4	-4	-4	-4	-2	1	-1	0	3	4	
4 3																			
1 SD 12	60	-60	5	5	2	2	1	-2	-3	-4	-4	-5	-3	-1	-3	-2	3	4	
3 3																			
1 SD 12	60	-50	2	2	-1	-2	-1	-2	-2	-2	-2	-2	-1	0	-1	-1	3	3	
2 1																			
1 SD 12	60	-40	2	3	-1	0	-1	-2	-1	-1	-2	-3	-1	0	1	-1	3	3	
0 -1																			

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START COL	1	2	3	4	5	6	7	8	9	0									
1 SD	12	65	60	51	18	-19	-52	-75	-85	-84	-70	-53	-33	-10	13	38	60	74	80
82 74																			
1 SD	12	65	70	65	36	0	-37	-65	-83	-87	-80	-67	-47	-27	-3	24	52	74	85
87 82																			
1 SD	12	65	80	45	38	23	1	-21	-37	-45	-48	-46	-27	-29	-16	0	15	28	37
42 44																			
1 SD	12	70	-80	4	4	2	-1	-3	-4	-6	-5	-4	-4	-2	2	1	2	3	5
4 3																			
1 SD	12	70	-70	5	4	1	-2	-6	-7	-9	-8	-5	-4	-1	3	2	3	5	7
6 4																			
1 SD	12	70	-60	5	4	2	-1	5	-6	-8	-7	-4	-4	-2	2	2	3	4	6
5 4																			
1 SD	12	70	-50	3	3	2	-1	-4	-3	-4	-4	-3	-3	-2	1	0	2	3	4
3 2																			
1 SD	12	70	-40	3	3	1	0	-4	-6	-7	-4	-4	-3	-3	-1	3	3	3	4
3 3																			
1 SD	12	70	-30	2	0	-1	-1	-3	-4	-3	-3	-2	-1	-1	1	3	4	3	3
2 1																			
1 SD	12	70	-20	-1	0	-1	-2	-2	-1	0	0	-1	-1	-2	-3	1	3	3	3
2 2																			
1 SD	12	70	-10	-3	-1	-1	-1	0	2	4	4	2	2	1	-2	0	0	0	-1
-3 -4																			
1 SD	12	70	0	-3	-1	0	-1	-1	3	5	4	4	2	2	-1	-1	-1	-1	-3
-5 -5																			
1 SD	12	70	10	-2	0	1	-1	0	1	3	5	4	2	1	1	0	0	-2	-4
-5 -5																			
1 SD	12	70	20	-6	-3	-1	1	3	6	9	12	11	8	5	2	-1	-3	-7	-10
12 -10																			
1 SD	12	70	30	-22	-17	-12	-5	3	13	23	30	30	25	16	9	0	-7	-14	-18
24 -25																			
1 SD	12	70	40	-35	-40	-39	-36	-29	-13	8	28	41	44	40	35	27	16	5	-5
17 -28																			
1 SD	12	70	50	-4	-26	-45	-56	-57	-49	-34	-15	2	15	25	36	46	47	42	36
29 15																			
1 SD	12	70	60	36	8	-23	-50	-67	-73	-69	-55	-39	-20	0	19	38	53	61	65
65 58																			
1 SD	12	70	70	51	25	-7	-39	-63	-77	-77	-67	-51	-31	-12	7	27	49	63	70
71 66																			
1 SD	12	70	80	34	29	16	-2	-20	-35	-41	-41	-36	-13	-16	-4	7	17	24	27
28 33																			
1 SD	12	75	-80	5	4	2	-2	-4	-5	-8	-7	-4	-3	-1	2	2	3	5	6
5 4																			
1 SD	12	75	-70	5	4	1	-4	-7	-8	-11	-10	-5	-3	0	5	4	5	7	8
7 5																			
1 SD	12	75	-60	6	4	1	-3	-6	-7	-11	-9	-5	-4	-1	3	3	5	6	7
6 5																			
1 SD	12	75	-50	4	4	2	-2	-4	-4	-6	-6	-3	-3	-1	1	2	3	3	5
4 3																			
1 SD	12	75	-40	4	1	-1	0	-5	-7	-8	-6	-4	-2	-2	1	5	6	5	5
4 4																			
1 SD	12	75	-30	1	-1	-2	-1	-3	-4	-3	-3	-2	0	0	1	5	5	2	2
1 1																			

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START COL	1	2	3	4	5	6	7	8	9	0								
1 SD 12	75	-20	-1	-1	0	-2	-1	1	0	-1	-1	-2	-2	2	3	2	1	
1 SD 12	75	-10	-3	0	1	1	0	4	6	5	1	1	-2	0	0	-1	-2	
1 SD 12	75	0	-4	-1	1	1	1	5	7	6	3	3	2	1	-2	-2	-4	
1 SD 12	75	10	-1	2	4	1	1	2	5	5	2	0	-1	-1	-2	-2	-4	
1 SD 12	75	20	-4	1	3	5	6	9	11	12	9	6	2	-1	-4	-7	-10	-12
1 SD 12	75	30	-18	-10	-4	2	8	18	26	31	29	22	13	3	-6	-14	-21	-23
1 SD 12	75	40	-37	-38	-35	-29	-21	-5	15	34	46	46	38	31	20	8	-2	-12
1 SD 12	75	50	-7	-25	-40	-49	-47	-38	-23	-5	9	19	26	33	38	34	28	22
1 SD 12	75	60	27	4	-21	-42	-55	-58	-53	-41	-27	-10	6	19	33	41	44	47
1 SD 12	75	70	43	22	-6	-33	-54	-66	-64	-52	-35	-17	-3	9	23	37	46	50
1 SD 12	75	80	27	24	13	-2	-17	-29	-35	-35	-28	-2	-5	3	10	13	14	15
1 SD 12	80	-80	9	7	4	1	-3	-6	-8	-10	-10	-9	-7	-4	-1	3	6	8
1 SD 12	80	-70	9	7	4	0	-3	-6	-9	-10	-10	-9	-7	-4	0	3	6	9
1 SD 12	80	-60	12	10	7	3	-1	-5	-8	-11	-12	-12	-10	-7	-3	1	5	8
1 SD 12	80	-50	10	9	6	3	0	-3	-6	-9	-10	-10	-9	-6	-3	0	3	6
1 SD 12	80	-40	5	4	2	-1	-3	-5	-6	-7	-6	-5	-4	-2	1	3	5	6
1 SD 12	80	-30	4	2	1	-1	-3	-4	-5	-5	-4	-4	-2	-1	1	3	4	5
1 SD 12	80	-20	2	0	-1	-2	-4	-4	-4	-4	-3	-2	0	1	2	4	4	4
1 SD 12	80	-10	-3	2	2	3	1	2	1	-1	-2	3	7	1	1	-1	-1	-4
1 SD 12	80	0	-5	1	3	3	2	5	7	5	1	2	5	2	1	-2	-2	-5
1 SD 12	80	10	-4	3	4	1	1	5	8	5	-2	-4	-1	2	1	-1	-1	-3
1 SD 12	80	20	-5	0	3	2	4	9	13	11	6	4	3	0	-5	-8	-7	-7
1 SD 12	80	30	-13	-9	-5	-1	5	17	29	31	26	20	12	1	-11	-20	-22	-20
1 SD 12	80	40	-39	-40	-36	-31	-23	-6	20	43	52	51	42	30	14	-1	-10	-14
1 SD 12	80	50	-13	-28	-39	-46	-45	-34	-12	9	22	29	34	38	36	24	13	7
1 SD 12	80	60	20	1	-20	-35	-42	-44	-41	-32	-17	0	15	24	30	32	28	25

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START COL	1	2	3	4	5	6	7	8	9	10								
1 SD 12	80	70	39	22	-1	-24	-42	-52	-50	-38	-23	-7	1	7	14	22	27	31
38 43																		
1 SD 12	80	80	21	20	12	0	-12	-22	-28	-28	-22	3	0	7	9	8	6	6
10 17																		
1 SD 12	85	-80	11	8	5	1	-3	-7	-9	-12	-12	-10	-8	-6	-1	4	8	9
12 13																		
1 SD 12	85	-70	10	8	5	0	-2	-6	-10	-11	-12	-10	-9	-6	0	4	7	10
12 12																		
1 SD 12	85	-60	15	12	8	4	0	-5	-9	-13	-15	-15	-12	-10	-4	1	6	9
13 15																		
1 SD 12	85	-50	13	11	7	4	1	-3	-7	-11	-12	-12	-11	-8	-3	0	3	7
11 13																		
1 SD 12	85	-40	6	4	2	-1	-3	-5	-6	-9	-7	-5	-4	-2	1	4	6	7
9 7																		
1 SD 12	85	-30	4	2	1	-1	-3	-4	-6	-6	-5	-5	-2	-2	1	3	4	5
6 5																		
1 SD 12	85	-20	3	0	-1	-1	-5	-5	-5	-4	-2	1	3	3	4	4	4	4
4 3																		
1 SD 12	85	-10	-1	0	0	7	4	4	0	-5	-3	7	11	0	0	-3	-4	-8
3 -3																		
1 SD 12	85	0	-5	1	4	7	6	7	4	-4	-9	-2	6	4	3	-1	-1	-4
-6 -9																		
1 SD 12	85	10	-10	2	9	8	7	10	8	-3	-14	-11	1	7	5	2	3	-1
-9 -15																		
1 SD 12	85	20	-12	-2	5	1	-1	6	11	0	-12	-6	9	13	0	-9	1	7
0 -11																		
1 SD 12	85	30	8	4	3	-2	-7	-2	7	1	-12	-11	-1	1	-8	-15	-5	9
16 15																		
1 SD 12	85	40	-17	-14	3	5	-9	-14	5	21	13	-2	-8	-4	-5	-9	-1	14
20 1																		
1 SD 12	85	50	9	-10	-20	-26	-26	-17	6	17	8	-8	-10	4	14	5	-4	2
26 28																		
1 SD 12	85	60	42	23	1	-7	-4	-9	-18	-25	-23	-13	-7	-6	1	5	-4	-8
14 38																		
1 SD 12	85	70	38	27	3	-17	-27	-31	-24	-6	12	24	12	0	-5	-4	-10	-15
-2 25																		
1 SD 12	85	80	-32	-14	-3	2	6	10	10	7	12	73	48	52	32	-2	-35	-55
60 -51																		
1 SD 12	90	-80	14	10	6	2	-3	-8	-10	-15	-15	-13	-11	-9	-2	4	9	11
15 16																		
1 SD 12	90	-70	12	10	7	1	-1	-6	-10	-12	-14	-13	-12	-9	-1	4	8	11
14 15																		
1 SD 12	90	-60	18	15	11	6	2	-5	-9	-15	-19	-19	-16	-14	-7	0	7	10
16 19																		
1 SD 12	90	-50	16	14	9	6	3	-3	-8	-14	-16	-16	-15	-12	-5	-1	3	8
14 17																		
1 SD 12	90	-40	7	4	2	-2	-3	-5	-6	-10	-8	-6	-5	-2	0	4	7	8
11 9																		
1 SD 12	90	-30	5	3	2	-1	-3	-4	-7	-7	-6	-6	-3	-3	0	3	5	6
7 7																		
1 SD 12	90	-20	5	0	-1	-1	-6	-7	-7	-7	-5	-3	2	5	3	5	5	4
5 4																		

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START COL	1	2	3	4	5	6	7	8	9	0								
1 ST	20	80	41	41	36	26	12	-1	-13	-22	-28	-32	-33	-32	-28	-19	-7	8
22	34																	
1 ST	1	25	-80	-1	-1	-2	-1	0	0	0	-1	0	1	1	0	0	1	1
0	-1	25	-70	-2	-2	-3	-1	-1	0	0	0	1	3	2	1	1	2	1
1 ST	1	25	-60	-2	-3	-2	-3	-1	-1	0	0	1	3	2	1	1	2	1
-1	-2	25	-50	-2	-3	-2	-3	-1	-1	1	1	2	3	3	2	2	2	1
1 ST	1	25	-40	-1	-1	0	-1	1	1	1	2	1	1	2	0	-1	0	1
-1	-2	25	-30	0	0	1	1	0	-1	0	1	0	0	0	-1	1	0	-1
1 ST	1	25	-20	0	0	1	1	0	-1	-1	0	0	-1	0	1	1	0	0
-1	0	25	-10	0	0	1	1	1	0	0	1	0	0	0	1	1	0	-1
1 ST	1	25	0	0	0	1	1	1	-1	-1	0	0	0	1	1	0	0	-1
0	0	25	10	-1	-2	-1	-1	0	0	1	1	2	2	2	1	1	1	0
1 ST	1	25	20	-4	-4	-2	-1	-1	0	3	4	5	5	5	3	2	2	-2
-1	-2	25	30	-1	-3	-5	-7	-6	-2	1	4	6	6	6	5	4	2	1
1 ST	1	25	40	13	7	-1	-8	-12	-13	-12	-10	-7	-5	-4	-2	0	5	9
-1	-1	25	50	36	27	13	0	-9	-16	-20	-22	-23	-24	-24	-23	-17	-4	11
1 ST	1	25	60	59	48	31	12	-5	-18	-29	-36	-41	-44	-44	-43	-32	-13	10
36	39	25	70	64	57	42	21	1	-16	-31	-40	-47	-49	-50	-47	-36	-17	6
1 ST	1	25	80	40	45	38	16	3	-9	-21	-30	-36	-41	-37	-29	-18	-8	4
51	63	25	-80	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	1
1 ST	1	30	-70	-2	-2	-2	-2	0	0	1	1	1	1	2	1	1	1	2
32	36	30	-60	-2	-2	-2	-2	-1	-1	0	0	1	1	1	1	1	1	2
1 ST	1	30	-50	-2	-2	-2	-2	-1	1	0	1	1	2	2	1	1	2	2
-1	0	30	-40	-1	-1	0	0	1	1	1	1	1	1	1	-1	0	0	-1
1 ST	1	30	-30	0	1	0	0	0	-1	-1	0	0	1	1	0	-1	0	0
-1	-1	30	-20	0	1	0	0	-1	-1	-1	-1	0	0	1	1	0	1	1
1 ST	1	30	-10	0	1	1	1	-1	-1	-2	-1	0	1	1	1	1	1	0
0	0	30	0	1	1	1	1	-1	-1	-1	-2	-1	0	1	1	1	1	0
1 ST	1	30	0	1	1	1	1	-1	-1	-1	-2	-1	0	1	1	1	1	0
-1	-1	30	0	1	1	1	1	-1	-1	-1	-2	-1	0	1	1	1	1	0

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START COL	1	2	3	4	5	6	7	8	9	0												
1 ST	1	40	-80	-1	-1	0	1	2	1	-1	-2	-1	0	0	1	0	1	0	1	0	0	
-1	-1																					
1 ST	1	40	-70	-1	-1	-1	-1	-1	0	0	1	1	1	1	1	1	1	1	1	1	0	0
0	-1																					
1 ST	1	40	-60	-1	-2	-1	-1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0
0	0																					
1 ST	1	40	-50	0	-1	0	0	0	0	0	0	1	1	1	1	0	0	1	0	1	0	0
0	1																					
1 ST	1	40	-40	0	0	0	0	0	0	0	-1	0	1	1	1	-1	-1	0	0	0	0	0
0	1																					
1 ST	1	40	-30	1	0	-1	0	0	0	-1	-1	0	0	1	-1	-1	0	0	0	0	0	0
1	1																					
1 ST	1	40	-20	1	-1	-1	-1	1	1	1	0	-1	-1	0	1	0	1	0	-1	1	1	1
1	1																					
1 ST	1	40	-10	0	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	0	0	-1	0	-1	-1	-1
1	1																					
1 ST	1	40	0	1	0	1	0	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
1	1																					
1 ST	1	40	10	0	1	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1
1	1																					
1 ST	1	40	20	-2	-2	-1	0	1	2	3	3	2	1	0	0	0	-1	-1	-1	-1	-1	-1
0	1																					
1 ST	1	40	30	-10	-11	-9	-5	0	5	9	10	10	8	6	4	2	1	-1	-1	-1	-1	-3
-2	-1																					
1 ST	1	40	40	-24	-25	-23	-17	-8	1	10	16	18	20	19	17	14	10	5	-3	-3	-3	-
-6	-9																					
1 ST	1	40	50	-29	-35	-34	-28	-18	-7	2	10	15	20	24	27	28	26	19	8	8	8	8
11	-18																					
1 ST	1	40	60	-27	-35	-35	-29	-21	-12	-5	0	5	11	19	27	33	35	30	17	17	17	17
-5	-19																					
1 ST	1	40	70	-23	-30	-32	-27	-20	-13	-8	-3	1	7	15	24	32	35	30	20	20	20	20
2	-14																					
1 ST	1	40	80	-4	-13	-17	-17	-16	-15	-10	-8	-3	4	9	16	21	16	18	14	14	14	14
5	-9																					
1 ST	1	45	-80	1	1	0	1	0	-3	-1	-1	1	1	-1	1	0	1	1	1	1	1	1
5	2																					
1 ST	1	45	-70	-1	-1	-1	-1	-1	0	0	0	0	1	2	2	1	0	0	0	0	0	0
1	-1																					
1 ST	1	45	-60	-1	-1	-1	-1	0	0	0	0	1	2	1	1	0	0	-1	-1	-1	-1	-1
1	0																					
1 ST	1	45	-50	0	0	0	1	1	0	0	0	-1	0	1	0	0	0	0	0	0	0	0
1	1																					
1 ST	1	45	-40	0	0	0	0	0	0	0	0	-1	1	1	0	-1	0	0	0	0	0	0
1	1																					
1 ST	1	45	-30	0	0	0	0	0	1	1	0	-1	0	1	0	0	0	0	0	0	0	0
0	0																					
1 ST	1	45	-20	-1	-1	-1	-1	0	1	1	1	0	-1	-1	0	0	-1	-1	-1	-1	-1	0
0	0																					
1 ST	1	45	-10	-1	-1	-1	-1	0	2	2	1	1	0	0	-1	0	0	-1	-1	-1	-1	0
1	0																					
1 ST	1	45	0	-1	-1	-1	0	1	2	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
0	-1																					
1 ST	1	45	0	0	0	0	0	0	1	2	1	1	1	1	1	1	1	1	1	1	1	0
0	0																					

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0					
1 ST	1	55	-70	0	-1	0	0	-1	0	1	1	0	-1	-1	0
0	0														
1 ST	1	55	-60	1	1	0	-1	0	-1	0	1	1	-1	-1	-1
1	1														
1 ST	1	55	-50	0	0	-1	-1	0	-1	-1	1	1	1	0	-1
1	1														
1 ST	1	55	-40	1	1	-1	-1	-1	0	-1	0	0	1	1	0
1	1														
1 ST	1	55	-30	1	1	1	0	0	1	1	0	-1	-1	0	0
0	0														
1 ST	1	55	-20	0	-1	-1	1	2	3	2	1	0	-1	-1	-2
-1	-1														
1 ST	1	55	-10	1	0	1	2	2	3	3	1	-1	-1	-2	-2
-1	-1														
1 ST	1	55	0	0	0	1	1	2	1	0	-1	-1	-1	-2	-1
0	0														
1 ST	1	55	10	0	0	0	0	0	0	-1	-1	-1	-1	0	1
1	1														
1 ST	1	55	20	0	0	1	1	1	1	0	-1	-1	-1	0	0
0	0														
1 ST	1	55	30	0	1	2	2	3	4	3	1	-1	-3	-4	-3
0	0														
1 ST	1	55	40	-3	-2	-1	0	3	4	5	4	2	1	0	-1
-3	-3														
1 ST	1	55	50	-13	-11	-7	0	6	12	15	16	13	9	6	1
12	-13														
1 ST	1	55	60	-26	-23	-14	-2	9	18	23	23	21	18	15	10
20	-23														
1 ST	1	55	70	-31	-24	-14	-4	7	16	22	24	23	23	21	16
26	-29														
1 ST	1	55	80	-21	-18	-12	-4	5	15	21	22	21	18	16	7
19	-23														
1 ST	1	60	-80	1	2	1	-1	-1	-1	-1	-1	-2	-1	-2	-1
2	1														
1 ST	1	60	-70	0	1	-1	-3	-3	-2	-1	-1	-1	0	0	2
2	1														
1 ST	1	60	-60	0	1	-1	-3	-3	-2	-1	-1	-1	0	1	2
2	1														
1 ST	1	60	-50	0	1	-1	-3	-3	-1	0	-1	-2	-1	0	2
2	2														
1 ST	1	60	-40	1	1	0	-1	-2	-2	-1	0	-1	-1	0	1
2	2														
1 ST	1	60	-30	2	1	0	0	-1	0	-1	-2	-2	-1	-1	0
2	2														
1 ST	1	60	-20	1	1	1	2	3	3	2	1	-1	-2	-2	-2
0	0														
1 ST	1	60	-10	1	1	1	2	2	3	3	1	-2	-2	-2	-3
-1	0														
1 ST	1	60	0	-1	1	1	2	1	2	2	0	-2	-2	-2	-1
0	-1														
1 ST	1	60	10	-1	0	1	1	1	0	0	1	-1	-2	-2	-1
-1	-1														

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0					
1 ST	1	70	-60	1	1	-1	-1	-1	-1	0	2	2	2	1	1
1	1														
1 ST	1	70	-50	1	1	0	-1	-1	-1	-2	-2	-1	0	1	0
1	2														
1 ST	1	70	-40	0	-1	0	1	-1	-1	-2	-2	-1	-1	0	1
1	2														
1 ST	1	70	-30	0	-1	-1	1	1	0	-1	0	0	-1	0	-1
0	1														
1 ST	1	70	-20	0	-1	1	2	2	1	2	1	-1	-2	-1	-1
1	1														
1 ST	1	70	-10	-2	-2	-2	-1	-1	1	2	2	0	1	2	1
-1	-1														
1 ST	1	70	0	-3	-3	-2	-1	-1	1	2	2	1	2	2	1
-2	-2														
1 ST	1	70	10	-2	-1	0	1	1	2	2	2	0	1	1	-1
-2	-2														
1 ST	1	70	20	0	0	1	2	1	2	1	0	-1	-1	0	0
0	-1														
1 ST	1	70	30	-1	1	3	4	3	3	2	1	0	-1	0	0
-2	-2														
1 ST	1	70	40	-2	0	2	5	5	4	3	1	0	-1	0	-2
-3	-3														
1 ST	1	70	50	5	10	12	13	12	9	4	0	-5	-8	-9	-8
1	-3														
1 ST	1	70	60	3	10	16	19	18	15	11	5	0	-5	-9	-12
-9	-4														
1 ST	1	70	70	0	6	11	15	19	19	17	13	8	2	-6	-14
12	-6														
1 ST	1	70	80	-6	-4	0	3	6	10	14	14	9	3	-3	-5
-7	-7														
1 ST	1	75	-80	-1	-3	-2	-1	1	2	0	0	1	1	2	1
-2	-1														
1 ST	1	75	-70	0	-3	-2	0	1	2	-1	-2	1	1	1	2
0	0														
1 ST	1	75	-60	1	-2	-1	-1	1	1	-2	-3	-1	-1	0	2
1	1														
1 ST	1	75	-50	2	-1	-1	1	2	1	-1	-2	-1	-3	-2	1
1	1														
1 ST	1	75	-40	-1	-2	0	1	0	0	-2	-3	-1	0	-1	0
1	1														
1 ST	1	75	-30	-1	-2	-1	1	1	0	-1	-1	1	1	1	0
0	-1														
1 ST	1	75	-20	-2	-1	1	1	1	-1	-1	1	1	-1	0	1
0	-1														
1 ST	1	75	-10	-4	-4	-4	-3	-3	-2	-1	2	2	2	3	4
-1	-2														
1 ST	1	75	0	-4	-4	-3	-2	-1	0	1	3	4	4	3	2
-3	-3														
1 ST	1	75	10	-2	-2	-1	-1	1	2	2	2	2	2	0	-2
-2	-2														
1 ST	1	75	20	-1	0	0	1	1	1	0	0	1	1	1	0
-3	-2														
1 ST	1	75	20	-1	0	0	1	1	1	0	0	1	1	1	0
-1	-1														

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DATESET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 ST	1	85	-50	1	2	4	3	1	0	1	0	-1	-3	-3	-3	-2	-1	0
0	0																	
1 ST	1	85	-40	2	3	3	1	1	-1	-2	-2	-2	-2	-3	-2	-1	0	1
2	2																	
1 ST	1	85	-30	-2	-1	-1	0	0	1	2	1	2	2	2	0	1	-1	-1
-1	-2																	
1 ST	1	85	-20	-2	-1	-2	-2	-2	0	2	2	2	2	2	2	2	2	1
-1	-2																	
1 ST	1	85	-10	1	2	1	-2	-6	-13	-13	2	10	11	8	5	3	3	-1
-3	2																	
1 ST	1	85	0	4	1	-3	-3	-7	-8	1	8	10	7	4	1	-1	-6	-8
-2	5																	
1 ST	1	85	10	7	-1	-7	-5	0	0	-2	1	6	9	6	2	-1	-5	-10
-2	7																	
1 ST	1	85	20	-1	-2	1	4	4	2	-1	-1	2	5	5	1	-4	-6	-4
-1	-1																	
1 ST	1	85	30	-20	-14	0	12	13	7	0	1	7	13	12	5	-3	-7	-5
-6	-14																	
1 ST	1	85	40	-5	-4	7	15	11	3	1	4	4	-2	-5	-3	-3	-8	-10
3	2																	
1 ST	1	85	50	24	22	14	9	7	4	-1	-5	-5	-8	-12	-15	-16	-15	-11
0	15																	
1 ST	1	85	60	22	25	22	16	8	-2	-9	-8	-7	-9	-16	-21	-18	-11	-6
3	13																	
1 ST	1	85	70	18	12	9	11	12	6	-4	-11	-15	-20	-22	-19	-10	-4	0
12	19																	
1 ST	1	85	80	12	15	14	8	-2	-9	-11	-11	-12	-13	-11	-7	-4	0	4
10	10																	
1 ST	1	90	-80	-7	-7	-6	-3	0	1	4	7	7	7	7	5	3	-1	-2
-6	-7																	
1 ST	1	90	-70	-4	-2	-1	2	5	3	5	5	4	4	1	0	-3	-5	-2
-5	-5																	
1 ST	1	90	-60	1	-2	1	-1	0	-2	-2	-2	-1	-1	0	-2	0	1	3
3	1																	
1 ST	1	90	-50	1	2	3	5	4	1	1	2	0	-1	-3	-4	-5	-3	-2
-1	0																	
1 ST	1	90	-40	3	4	4	1	1	1	0	-2	-3	-3	-3	-4	-3	-2	-1
3	2																	
1 ST	1	90	-30	-2	-1	-1	-1	-1	2	3	2	2	2	3	2	0	1	-1
-2	-3																	
1 ST	1	90	-20	-3	-1	-3	-4	-4	-3	-3	-1	3	4	3	3	3	4	3
-1	-3																	
1 ST	1	90	-10	1	1	0	-5	-9	-18	-17	1	12	14	11	7	6	5	0
-3	2																	
1 ST	1	90	0	4	1	-5	-5	-5	-11	-11	0	10	13	9	5	3	0	-6
-1	6																	
1 ST	1	90	10	9	-2	-9	-7	-1	-1	-3	1	8	11	8	3	0	-6	-12
9	9																	
1 ST	1	90	20	-2	-2	1	3	4	2	-2	-1	4	7	7	2	-4	-7	-5
-2	-1																	
1 ST	1	90	30	-23	-17	-2	11	13	7	0	2	10	17	16	7	-3	-7	-6
-7	-16																	

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DATASET: CWEU412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 ST	2	25	-40	-1	1	0	1	1	0	-1	1	1	-1	-1	-1	0	-1		
-2	-1																		
1 ST	2	25	-30	1	2	2	1	-1	0	-1	-1	-1	-1	-1	1	0	-1		
-1	0																		
1 ST	2	25	-20	1	1	2	1	1	0	0	0	-1	-2	-1	1	0	-1		
-1	0																		
1 ST	2	25	-10	0	1	1	0	0	-1	-1	0	0	-1	0	1	0	1	0	
-1	0																		
1 ST	2	25	0	0	0	0	0	-1	-1	-1	0	0	0	1	1	1	1	1	
0	0																		
1 ST	2	25	10	-1	-1	0	-1	-1	-1	1	2	2	2	2	1	2	-1	-2	
0	-2																		
1 ST	2	25	20	-2	1	1	-1	-2	0	1	2	4	5	3	3	3	-2	-4	
-3	-5																		
1 ST	2	25	30	2	-1	-3	-6	-7	-5	-2	1	2	3	3	3	2	2	2	
2	2																		
1 ST	2	25	40	13	9	2	-5	-10	-12	-11	-9	-6	-4	-2	0	4	7	11	
13	14																		
1 ST	2	25	50	27	21	13	3	-6	-11	-15	-18	-22	-23	-21	-18	-11	-2	10	20
26	29																		
1 ST	2	25	60	40	34	24	14	3	-6	-12	-19	-27	-32	-34	-35	-28	-15	3	20
33	39																		
1 ST	2	25	70	42	40	34	23	11	-1	-10	-19	-26	-31	-34	-35	-31	-21	-7	9
25	36																		
1 ST	2	25	80	29	31	38	24	13	2	-8	-16	-24	-30	-31	-31	-22	-11	-8	6
13	23																		
1 ST	2	30	-80	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	2	2	1	1
1	-1																		
1 ST	2	30	-70	-2	-2	-2	-2	-2	-1	0	1	1	2	2	2	2	2	1	1
0	-1																		
1 ST	2	30	-60	-2	-2	-2	-2	-2	-1	0	1	2	2	2	2	2	2	1	1
0	-1																		
1 ST	2	30	-50	-3	-2	-1	-1	-1	0	0	1	2	2	1	1	2	1	1	1
-1	-2																		
1 ST	2	30	-40	-1	0	1	0	0	1	0	-1	0	1	0	-1	0	0	-1	-1
-1	-1																		
1 ST	2	30	-30	1	1	1	0	0	-1	-1	-2	-1	0	-1	0	1	0	0	0
0	1																		
1 ST	2	30	-20	0	0	0	0	-1	-1	-1	0	1	1	1	1	1	0	-1	-1
-1	0																		
1 ST	2	30	-10	1	1	0	0	0	-1	-1	0	1	1	1	1	1	1	0	0
-1	-1																		
1 ST	2	30	0	1	1	0	0	0	-1	-1	1	0	0	1	0	-1	0	0	0
0	-1																		
1 ST	2	30	10	0	0	0	0	0	1	1	1	0	1	1	0	0	-1	-2	-2
-1	-1																		
1 ST	2	30	20	-1	-2	-1	-1	-1	0	1	3	4	3	3	1	0	0	-1	-1
-1	-1																		
1 ST	2	30	30	-2	-2	-3	-3	-2	-2	-2	-1	1	3	5	4	4	2	0	0
-1	-2																		
1 ST	2	30	40	2	-1	-4	-7	-8	-10	-11	-11	-9	-4	1	6	10	12	13	11
7	4																		

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 ST	2	40	-30	1	1	0	0	-1	-1	-1	-1	0	0	0	1	1	1	1
1	1																	
1 ST	2	40	-20	0	0	1	-1	-1	0	1	0	-1	-1	-1	0	0	1	1
1	1																	
1 ST	2	40	-10	0	0	0	0	1	1	2	1	0	-1	-1	-1	0	0	0
0	0																	
1 ST	2	40	0	0	0	0	1	1	2	1	1	0	-1	-1	-1	-1	-1	-1
0	0																	
1 ST	2	40	10	1	1	1	2	2	2	1	0	0	-1	-2	-2	-2	-1	-1
-1	1																	
1 ST	2	40	20	1	0	0	0	1	1	2	3	2	0	-1	-2	-2	-2	-1
0	1																	
1 ST	2	40	30	-4	-3	-2	-2	-1	0	2	3	5	5	4	1	0	-2	-3
-3	-3																	
1 ST	2	40	40	-14	-14	-12	-8	-4	-1	0	1	3	5	8	12	14	13	9
-4	-10																	
1 ST	2	40	50	-12	-17	-19	-18	-15	-13	-12	-9	-4	3	12	20	26	27	23
4	-5																	
1 ST	2	40	60	-13	-21	-23	-23	-21	-18	-18	-18	-15	-8	5	20	33	40	38
15	-1																	
1 ST	2	40	70	-10	-20	-26	-27	-23	-18	-14	-13	-11	-6	4	16	28	36	38
18	3																	
1 ST	2	40	80	-4	-13	-13	-13	-10	-9	-9	-9	-6	-2	4	12	13	13	19
8	5																	
1 ST	2	45	-80	-1	-1	-3	-2	3	-5	2	2	2	1	2	1	1	1	0
0	-1																	
1 ST	2	45	-70	0	0	-1	-1	1	1	1	1	1	1	1	1	0	-1	-1
-1	-1																	
1 ST	2	45	-60	1	0	-1	1	1	1	1	1	1	0	1	0	-1	-1	-1
-1	-1																	
1 ST	2	45	-50	1	1	1	1	1	0	0	-1	-1	-1	-1	0	0	0	0
1	1																	
1 ST	2	45	-40	1	1	-1	-1	-1	-1	-1	-1	-1	0	1	1	1	1	1
1	1																	
1 ST	2	45	-30	1	0	0	0	-1	-1	-1	-1	-1	0	0	0	1	1	1
1	1																	
1 ST	2	45	-20	-1	-1	1	0	-1	1	1	1	0	-1	-1	0	-1	-1	-1
0	0																	
1 ST	2	45	-10	-1	-1	0	0	1	2	2	1	0	0	-1	-1	-1	-1	-1
-1	-1																	
1 ST	2	45	0	0	-1	1	1	1	2	2	2	1	0	0	-1	-1	-1	-1
-1	-1																	
1 ST	2	45	10	1	0	1	1	2	3	2	2	1	-1	-1	-2	-2	-2	-2
-1	-1																	
1 ST	2	45	20	-1	0	0	1	1	1	1	1	1	0	0	0	0	-1	-1
-1	-1																	
1 ST	2	45	30	-4	-4	-2	-1	0	1	3	3	3	2	3	3	2	0	-1
-2	-4																	
1 ST	2	45	40	-9	-10	-9	-7	-4	-1	1	3	5	6	7	9	8	4	0
-3	-7																	
1 ST	2	45	50	-14	-17	-17	-14	-10	-7	-4	-1	2	7	12	17	20	18	13
-1	-8																	

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DATA SET: CWEU412.GRAMDD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0										
1 ST	2	55	-20	0	-1	1	1	2	2	2	2	1	0	-1	-1	-1	-2	-2	-2	
-2	-1																			
1 ST	2	55	-10	-1	-1	1	1	2	2	2	2	2	1	1	-1	-1	-2	-1	-1	
-2	-1																			
1 ST	2	55	0	-1	-1	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1	-1	
-1	0																			
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1 ST	2	55	20	-1	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	0
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1 ST	2	55	40	-2	-2	-2	-2	-1	-1	-2	-2	-2	0	1	4	4	4	3	2	2
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1 ST	2	55	50	-12	-12	-11	-7	-2	1	4	7	9	11	13	12	8	4	0	-5	-5
-8	-11																			
1 ST	2	55	60	-28	-26	-20	-14	-4	6	15	23	26	29	28	23	13	3	-7	-15	-
22	-27																			
1 ST	2	55	70	-30	-27	-22	-15	-5	6	17	25	28	30	29	24	15	3	-5	-15	-
25	-29																			
1 ST	2	55	80	-18	-16	-13	-8	-2	3	7	10	16	20	20	16	8	1	-1	-7	-
15	-17																			
1 ST	2	60	-80	2	2	1	1	-1	-2	-1	-1	-1	-1	-1	1	1	1	1	1	1
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1 ST	2	60	-60	1	2	0	-1	-2	-2	-1	-1	-1	0	2	2	2	1	1	1	1
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1 ST	2	60	-40	1	1	-1	1	0	0	-1	-1	-1	-1	-1	0	1	0	1	0	1
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1 ST	2	60	-30	0	0	0	1	1	1	1	1	0	0	-1	-1	0	1	1	0	0
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1 ST	2	60	40	-1	1	3	4	4	2	0	-2	-2	-1	0	1	1	0	-1	-2	-2
-2	-2																			
1 ST	2	60	50	-14	-9	-4	2	7	11	14	15	16	16	13	7	0	-8	-13	-17	-
17	-16																			
1 ST	2	60	60	-27	-20	-11	-2	8	18	26	31	33	31	24	13	0	-12	-22	-27	-
30	-30																			

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1 ST	2	70	0	-3	-4	-4	-3	-2	-2	-1	1	2	3	3	2	3	2		
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1 ST	2	70	10	-2	-2	-2	-2	-2	-1	-1	1	2	2	2	1	1	2	3	
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1 ST	2	70	20	1	1	2	3	2	1	1	1	0	-1	-1	-1	-2	-2		
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22	-17																		
1 ST	2	70	70	-12	-4	4	11	17	22	26	29	27	20	9	-3	-14	-23	-28	-29
26	-20																		
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14	-15																		
1 ST	2	75	-80	2	1	1	1	1	-1	-1	-2	-2	-2	-3	-2	0	0	2	3
3	3																		
1 ST	2	75	-70	-2	-4	-3	-1	0	0	1	1	1	1	0	1	2	1	1	2
1	1																		
1 ST	2	75	-60	-2	-4	-3	-2	0	0	1	2	2	1	1	1	3	1	2	2
0	1																		
1 ST	2	75	-50	-1	-3	-2	-1	2	1	1	-1	-1	-1	-1	-1	2	1	2	1
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1 ST	2	75	-40	-1	-1	0	-1	-1	0	1	1	0	-1	-1	2	2	1	0	0
1	1																		
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-1	-1																		
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-1	-1																		
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1 ST	2	75	20	0	1	2	2	2	2	2	1	0	0	-1	-2	-3	-3	-3	-3
-1	0																		
1 ST	2	75	30	-1	1	3	4	5	6	7	6	5	2	0	-3	-6	-7	-7	-5
-4	-2																		
1 ST	2	75	40	-3	-2	0	2	4	7	10	11	10	6	3	0	-5	-8	-10	-9
-7	-5																		
1 ST	2	75	50	-2	3	6	8	9	10	12	12	11	7	1	-4	-10	-15	-16	-15
11	-6																		
1 ST	2	75	60	-2	3	9	13	16	17	18	16	12	7	0	-8	-15	-20	-21	-20
15	-8																		
1 ST	2	75	70	-4	4	10	15	17	17	17	17	14	9	1	-8	-16	-21	-23	-20
-10																			

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-4	-4																		
1 ST	2	85	10	-4	-4	-1	2	2	2	0	-4	-6	-1	5	6	-1	-6	-2	5
6	1																		
1 ST	2	85	20	1	3	5	5	4	8	13	11	0	-8	-6	0	-3	-12	-15	-9
-1	2																		
1 ST	2	85	30	-9	-6	-2	-2	2	13	25	25	14	5	0	-6	-17	-22	-14	-2
1	-4																		
1 ST	2	85	40	-3	-9	-14	-20	-19	-3	20	32	25	12	5	2	-5	-14	-15	-6
4	3																		
1 ST	2	85	50	13	15	14	6	-5	6	16	12	-3	-14	-17	-16	-17	-14	-5	
5	11																		
1 ST	2	85	60	22	18	17	18	16	7	0	-3	-6	-12	-19	-22	-21	-20	-17	-7
9	21																		
1 ST	2	85	70	18	24	30	29	19	2	-14	-22	-20	-16	-13	-15	-17	-15	-8	0
8	13																		
1 ST	2	85	80	8	8	10	14	21	24	17	1	-13	-18	-13	-9	-12	-18	-18	
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1 ST	2	90	-70	-5	-6	-4	-2	1	2	3	3	5	6	7	5	1	0	-1	-2
-3	-4																		
1 ST	2	90	-60	-9	-8	-5	-4	1	2	5	6	7	10	10	5	3	-1	-2	-4
-7	-7																		
1 ST	2	90	-50	0	0	2	-1	1	2	2	1	0	1	1	0	0	-2	-1	-1
0	2																		
1 ST	2	90	-40	-2	-3	-1	0	1	-1	1	3	3	3	4	3	-1	-2	-1	-1
-1	2																		
1 ST	2	90	-30	2	4	5	5	5	4	3	2	0	-2	-3	-4	-5	-6	-5	-2
-1	1																		
1 ST	2	90	-20	1	2	2	1	-2	-2	-3	-2	-1	-1	0	0	-1	-1	0	2
3	3																		
1 ST	2	90	-10	0	9	11	4	5	9	-1	-5	-13	-6	4	10	5	2	1	-7
16	-12																		
1 ST	2	90	0	-2	2	4	2	3	5	-1	-6	-11	-4	6	9	2	-2	-1	-1
-5	-4																		
1 ST	2	90	10	-4	-5	-1	3	2	2	0	-6	-8	-2	6	7	-1	-7	-2	6
7	2																		
1 ST	2	90	20	1	3	6	5	4	9	15	13	0	-9	-7	0	-4	-14	-17	-10
-2	2																		
1 ST	2	90	30	-11	-7	-3	-2	3	16	29	30	17	7	1	-7	-20	-25	-17	-3
0	-5																		
1 ST	2	90	40	-4	-10	-16	-23	-21	-3	23	37	29	15	6	2	-6	-17	-18	-7
5	3																		
1 ST	2	90	50	18	20	17	7	-6	-8	3	14	9	-7	-18	-21	-18	-18	-13	-2
10	16																		
1 ST	2	90	60	31	25	22	21	17	4	-6	-11	-14	-20	-27	-27	-24	-20	-15	-2
17	30																		
1 ST	2	90	70	26	31	36	32	19	-3	-23	-34	-33	-27	-20	-19	-18	-12	-2	8
17	22																		
1 ST	2	90	80	12	12	12	15	18	23	25	15	-3	-18	-23	-17	-12	-14	-20	-18
-7	6																		

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START COL	1	2	3	4	5	6	7	8	9	0									
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2	3																		
1 ST	3	20	-70	1	0	1	-1	-2	-2	-2	-3	-2	1	0	-2	1	5	5	
3	2																		
1 ST	3	20	-60	-1	-1	-1	-2	-3	-3	-2	-3	-1	2	2	0	2	6	6	
3	2																		
1 ST	3	20	-50	-3	-3	-2	-2	-3	-4	-3	-1	0	1	3	3	1	3	5	3
1	-1																		
1 ST	3	20	-40	-2	-1	0	0	1	0	-1	2	-1	-1	1	0	-2	0	2	1
-1	-1																		
1 ST	3	20	-30	-2	0	1	1	3	1	-2	1	0	-1	-1	-2	1	1	-2	1
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1 ST	3	20	-20	-1	1	1	3	3	-1	-2	1	2	0	-2	0	0	0	-3	1
-2	-1																		
1 ST	3	20	-10	-1	1	2	1	1	-1	-1	0	2	-1	-1	-1	1	1	0	-1
-1	-1																		
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1 ST	3	20	10	-1	-1	1	0	1	-2	0	2	2	1	1	0	1	1	-1	-3
-1	-2																		
1 ST	3	20	20	-3	-1	2	2	0	0	2	4	3	3	0	1	2	-4	-5	1
-4	-5																		
1 ST	3	20	30	0	0	1	1	-1	-2	0	2	2	3	2	1	0	0	-3	-2
-1	-1																		
1 ST	3	20	40	12	9	7	4	1	0	-2	-5	-7	-9	-11	-11	-10	-6	0	6
11	14																		
1 ST	3	20	50	27	26	23	19	15	11	4	-6	-16	-24	-32	-34	-32	-23	-9	6
20	27																		
1 ST	3	20	60	38	39	38	34	29	20	8	-6	-22	-36	-45	-51	-48	-36	-17	2
21	33																		
1 ST	3	20	70	40	43	43	40	32	21	7	-7	-24	-37	-47	-52	-49	-37	-20	-1
18	33																		
1 ST	3	20	80	26	29	29	26	20	12	2	-8	-18	-26	-31	-32	-28	-21	-11	0
12	20																		
1 ST	3	25	-80	1	1	1	0	-2	-2	-3	-3	-2	-2	-1	-1	0	2	3	2
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1 ST	3	25	-70	-1	-1	-1	-2	-3	-4	-3	-3	-2	0	1	1	2	3	5	3
3	0																		
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1 ST	3	25	-50	-3	-3	-3	-3	-3	-3	-2	0	2	3	4	4	4	4	4	2
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1 ST	3	25	-40	-2	-1	0	0	0	1	1	1	1	1	1	0	-1	1	1	-1
-1	-2																		
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0	0																		
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1 ST	3	25	0	0	1	0	0	0	0	-1	-1	0	0	0	1	0	-1	0	0
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-3 -4										-4
1 ST 3	25	30	-2	-2	-2	0	2	3	4	2
-1 -2										0
1 ST 3	25	40	8	4	0	-2	-4	-6	-7	-7
11 10										11
1 ST 3	25	50	24	20	15	11	6	0	-7	-14
23 26										18
1 ST 3	25	60	35	33	30	25	17	8	-4	-17
28 34										18
1 ST 3	25	70	36	36	34	30	20	9	-3	-16
24 31										14
1 ST 3	25	80	19	15	4	18	16	8	0	-7
12 18										5
1 ST 3	30	-80	-1	-1	-1	-2	-2	-3	-2	-1
2 0										2
1 ST 3	30	-70	-3	-3	-4	-5	-4	-3	0	1
1 1										2
1 ST 3	30	-60	-5	-5	-4	-4	-3	-2	1	3
-1 -4										4
1 ST 3	30	-50	-5	-5	-4	-3	-2	0	3	4
-3 -5										5
1 ST 3	30	-40	-1	-1	1	1	1	2	2	1
-2 -2										-1
1 ST 3	30	-30	0	1	1	1	1	0	0	0
-1 -1										0
1 ST 3	30	-20	1	1	0	0	-1	-1	-1	1
0 0										0
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-1 -1										-1
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-1 -1										-1
1 ST 3	30	20	-3	-3	-1	0	1	2	3	3
-2 -3										2
1 ST 3	30	30	-6	-6	-4	-3	-2	0	2	4
-3 -5										8
1 ST 3	30	40	-3	-7	-10	-11	-10	-9	-6	-3
6 1										7
1 ST 3	30	50	7	0	-5	-9	-13	-17	-19	-21
20 14										-15
1 ST 3	30	60	16	9	4	-2	-9	-15	-22	-28
28 22										-30
1 ST 3	30	70	19	14	8	3	-6	-13	-19	-25
24 20										-27
1 ST 3	30	80	4	-3	-16	6	1	-4	-8	-9
12 9										-10
1 ST 3	35	-80	-3	-4	-4	-6	4	-3	-3	-2
2 1										-1

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1 ST	3	35	-60	-4	-4	-5	-6	-6	-4	-2	1	5	6	6	6	5	4	2	1	
-2	-3																			
1 ST	3	35	-50	-4	-3	-3	-2	-1	-1	1	3	5	5	4	4	2	1	-1	-3	
-4	-4																			
1 ST	3	35	-40	0	-1	-1	0	1	1	2	2	2	1	1	1	-1	-2	-2	-2	
-1	-1																			
1 ST	3	35	-30	1	1	0	1	1	0	-1	0	-1	-1	-1	0	0	0	0	0	
0	1																			
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1	1																			
1 ST	3	35	-10	0	0	1	1	0	-1	0	1	0	0	-1	-1	-1	-1	-1	1	
1	0																			
1 ST	3	35	0	-1	0	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1	-1	
1	0																			
1 ST	3	35	10	-1	1	1	1	2	1	1	2	1	0	-2	-2	-2	-2	-2	-1	
-1	0																			
1 ST	3	35	20	-2	-2	-2	-1	0	1	2	3	3	2	2	2	0	0	-1	-1	
-1	-2																			
1 ST	3	35	30	-7	-8	-7	-6	-4	-2	0	3	5	7	8	8	7	5	3	0	
-3	-6																			
1 ST	3	35	40	-12	-15	-16	-16	-14	-11	-7	-2	3	10	16	19	20	18	13	7	
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1 ST	3	35	50	-11	-18	-23	-26	-27	-26	-23	-17	-7	4	17	28	35	36	31	21	
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1 ST	3	35	60	-6	-15	-23	-29	-34	-33	-31	-26	-16	-2	14	30	40	44	40	31	
17	4																			
1 ST	3	35	70	-2	-11	-19	-25	-30	-30	-28	-23	-15	-3	10	24	33	38	35	27	
15	6																			
1 ST	3	35	80	-9	-11	-7	-9	-16	-15	-14	-9	-4	3	12	15	19	26	15	9	
3	-4																			
1 ST	3	40	-80	-4	-4	-4	-5	-6	-1	-1	-2	0	1	1	3	4	5	2	3	3
1	-1																			
1 ST	3	40	-70	-5	-6	-6	-7	-5	-4	-2	1	4	6	8	7	7	5	3	1	
-2	-3																			
1 ST	3	40	-60	-5	-4	-5	-5	-5	-2	0	3	6	7	7	6	4	3	-1	-2	
-4	-4																			
1 ST	3	40	-50	-3	-2	-2	-1	0	2	2	4	4	4	3	2	1	-1	-3	-3	
-4	-4																			
1 ST	3	40	-40	0	0	0	0	0	1	1	1	1	1	1	0	-1	-1	-1	-1	
1	0																			
1 ST	3	40	-30	1	1	0	0	0	0	-1	-1	-1	-1	0	1	0	0	0	1	
1	1																			
1 ST	3	40	-20	1	1	1	0	-1	-1	0	0	-1	-1	-1	0	0	-1	0	1	
2	1																			
1 ST	3	40	-10	0	-1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1	-1	-1	0
1	0																			
1 ST	3	40	0	-1	-1	1	1	1	1	1	2	2	1	-1	-1	-2	-1	-1	-1	
0	-1																			
1 ST	3	40	10	0	1	1	2	2	2	2	2	2	1	-1	-2	-2	-2	-2	-2	
1	-1																			

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 ST 3	40	20	-1	-2	-1	0	1	2	2	3	2	1	1	0	0	-1	-1	-1
-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1 ST 3	40	30	-7	-6	-4	-2	0	2	4	5	6	6	6	6	5	4	1	-1
-3	-5	-3	-5	-3	-5	-3	-5	-3	-5	-3	-5	-3	-5	-3	-5	-3	-5	-3
1 ST 3	40	40	-14	-16	-16	-14	-12	-8	-4	2	7	12	17	19	19	15	9	2
-5	-10	-3	-5	-10	-3	-5	-10	-3	-5	-10	-3	-5	-10	-3	-5	-10	-3	-5
1 ST 3	40	50	-20	-26	-29	-30	-28	-24	-17	-8	3	15	27	36	39	35	26	13
1	-11	1	-11	1	-11	1	-11	1	-11	1	-11	1	-11	1	-11	1	-11	1
1 ST 3	40	60	-21	-31	-37	-39	-39	-34	-26	-15	-2	15	31	44	51	48	38	23
6	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1
1 ST 3	40	70	-20	-30	-37	-39	-39	-33	-24	-13	-1	15	30	42	47	47	37	23
6	-8	1	-8	1	-8	1	-8	1	-8	1	-8	1	-8	1	-8	1	-8	1
1 ST 3	40	80	-19	-21	-19	-19	-21	-16	-11	-4	5	13	23	25	27	30	17	7
-1	-12	1	-12	1	-12	1	-12	1	-12	1	-12	1	-12	1	-12	1	-12	1
1 ST 3	45	-80	-4	-3	-3	-3	-4	-4	-4	-1	2	3	3	3	4	2	2	1
0	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1
1 ST 3	45	-70	-5	-5	-5	-4	-3	-1	1	3	5	6	7	6	4	3	-1	-2
-4	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1
1 ST 3	45	-60	-4	-4	-3	-3	-2	0	2	4	6	6	6	4	3	1	-2	-4
-5	-4	1	-5	1	-5	1	-5	1	-5	1	-5	1	-5	1	-5	1	-5	1
1 ST 3	45	-50	-2	-1	-1	0	1	2	2	3	3	2	1	-1	-1	-1	-2	-3
-4	-3	1	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1
1 ST 3	45	-40	1	1	0	0	0	0	0	1	0	0	1	1	0	0	0	-1
-1	0	1	-1	0	1	-1	0	1	-1	0	1	-1	0	1	-1	0	1	-1
1 ST 3	45	-30	1	0	0	0	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 ST 3	45	-20	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 ST 3	45	-10	1	0	1	1	1	1	2	2	2	1	-1	-1	-1	-1	-1	-1
0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 ST 3	45	0	0	0	1	1	1	2	2	1	0	0	0	-1	-2	-1	-1	-1
-1	0	1	-1	0	1	-1	0	1	-1	0	1	-1	0	-1	-2	-1	-1	-1
1 ST 3	45	10	1	0	1	2	2	2	2	2	1	-1	-1	-1	-2	-2	-2	-2
-1	0	1	-1	0	1	-1	0	1	-1	0	1	-1	0	-1	-2	-1	-1	-1
1 ST 3	45	20	-1	-1	0	1	1	2	3	3	2	1	0	-1	-1	-1	-1	-1
-1	0	1	-1	0	1	-1	0	1	-1	0	1	-1	0	-1	-2	-1	-1	-1
1 ST 3	45	30	-4	-4	-3	-2	0	1	3	4	4	4	4	3	3	1	-1	-2
-3	-4	1	-3	1	-3	1	-3	1	-3	1	-3	1	-3	1	-3	1	-3	1
1 ST 3	45	40	-10	-11	-10	-8	-6	-3	0	4	7	9	11	11	11	8	3	-1
-5	-8	1	-5	1	-5	1	-5	1	-5	1	-5	1	-5	1	-5	1	-5	1
1 ST 3	45	50	-19	-22	-24	-22	-18	-13	-6	1	9	16	23	27	26	22	14	5
-4	-12	1	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1	-4	1
1 ST 3	45	60	-24	-31	-33	-32	-28	-21	-11	-1	10	20	30	36	37	33	23	11
-2	-14	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1
1 ST 3	45	70	-24	-31	-35	-33	-29	-22	-13	-3	9	20	30	37	39	35	26	13
-2	-14	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1
1 ST 3	45	80	-18	-19	-19	-17	-16	-12	-6	0	8	14	21	22	22	22	13	4
-2	-12	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1	-2	1
1 ST 3	50	-80	-3	-1	-2	-1	-5	-4	1	2	3	2	3	2	3	0	1	-1
-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
1 ST 3	50	-70	-4	-4	-2	-1	1	2	3	3	4	5	5	3	1	-1	-3	-4
-5	-4	1	-5	1	-5	1	-5	1	-5	1	-5	1	-5	1	-5	1	-5	1

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 ST 3	55	30	0	0	0	1	1	1	0	1	1	0	1	0	-1	-1		
1 ST 3	55	40	-5	-4	-2	0	2	3	4	5	4	4	3	2	1	-1	-3	-4
1 ST 3	55	50	-16	-14	-10	-5	0	7	11	14	15	15	13	10	5	0	-5	-10
1 ST 3	55	60	-28	-27	-22	-14	-5	5	14	20	23	25	25	21	15	7	-2	-11
1 ST 3	55	70	-32	-31	-26	-19	-10	-1	9	18	24	29	31	29	23	14	2	-10
1 ST 3	55	80	-21	-21	-18	-11	-4	0	7	12	16	19	20	19	13	8	2	-7
1 ST 3	60	-80	1	3	4	4	3	2	2	0	-2	-3	-3	-2	-2	-2	-2	-1
1 ST 3	60	-70	0	2	6	7	5	4	3	2	-1	-3	-4	-4	-4	-5	-4	-2
1 ST 3	60	-60	5	8	8	7	5	5	3	-3	-6	-8	-8	-6	-5	-3	-3	-2
1 ST 3	60	-50	2	2	2	1	1	1	0	-2	-2	-2	-3	-2	-2	-1	1	1
1 ST 3	60	-40	1	1	0	0	-1	-1	-2	-2	-2	-1	-1	-1	0	2	2	1
1 ST 3	60	-30	2	2	1	1	2	2	0	-1	-1	-2	-2	-2	-2	0	1	0
1 ST 3	60	-20	-1	1	0	1	3	3	2	2	1	0	-1	-2	-3	-2	-1	-1
1 ST 3	60	-10	0	0	-1	1	2	2	1	1	1	0	-1	-2	-2	-1	-1	-1
1 ST 3	60	0	0	0	-1	-1	0	-1	-1	-1	1	1	0	-1	0	1	1	1
1 ST 3	60	10	1	1	-1	0	0	-1	-1	-1	1	1	-1	-1	0	0	0	0
1 ST 3	60	20	1	1	1	1	0	-1	-1	-1	-1	-1	-1	0	0	0	0	1
1 ST 3	60	30	2	2	2	1	1	0	-1	-2	-2	-2	-2	-1	0	0	0	1
1 ST 3	60	40	-4	-2	1	3	4	5	6	5	4	2	1	-1	-2	-3	-4	-4
1 ST 3	60	50	-10	-6	-1	4	9	13	16	15	13	10	5	-1	-5	-9	-11	-13
1 ST 3	60	60	-22	-17	-10	-2	7	15	21	24	23	20	16	9	2	-5	-12	-18
1 ST 3	60	70	-25	-19	-12	-4	4	13	20	26	28	26	22	15	6	-4	-13	-21
1 ST 3	60	80	-18	-16	-12	-5	2	7	11	14	17	18	17	13	7	0	-7	-13
1 ST 3	65	-80	2	3	4	4	2	1	1	-1	-4	-4	-4	-3	-2	-2	-1	0
1 ST 3	65	-70	3	4	6	6	4	2	1	-1	-4	-6	-5	-4	-3	-3	-1	1
1 ST 3	65	-60	7	9	8	5	2	0	-2	-6	-9	-10	-9	-6	-3	0	2	3

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 ST 3	70	40	-2	-1	1	4	4	5	5	4	3	1	-1	-3	-4	-5	-5		
-5 -4																			
1 ST 3	70	50	-2	1	5	8	9	9	8	7	6	3	-1	-4	-7	-9	-10	-9	
-8 -5																			
1 ST 3	70	60	-5	0	4	7	10	11	13	12	10	7	3	-2	-6	-11	-13	-14	-
13 -10																			
1 ST 3	70	70	-7	-1	2	6	10	13	17	17	14	10	4	-3	-9	-13	-15	-16	-
15 -12																			
1 ST 3	70	80	-6	-4	-2	1	5	9	10	8	6	5	4	1	-2	-4	-6	-6	-6
-7 -8																			
1 ST 3	75	-80	-1	-1	0	1	1	-1	-1	0	-2	-2	-1	-1	0	1	3	2	2
1																			
1 ST 3	75	-70	1	2	2	1	-2	-1	-2	-3	-5	-5	-4	-2	-1	1	5	5	5
4 2																			
1 ST 3	75	-60	-1	-2	-3	-3	-4	-7	-6	-2	-3	-1	2	2	3	5	9	6	6
4 2																			
1 ST 3	75	-50	1	-2	-2	1	1	-2	-3	-3	-3	-1	1	3	2	2	3	2	3
3 1																			
1 ST 3	75	-40	-1	-2	-1	-1	-1	-2	-1	-2	-1	1	1	2	3	1	1	2	2
1																			
1 ST 3	75	-30	-2	-1	0	-1	-2	-2	0	1	1	1	2	3	2	1	0	-1	-1
-2 -3																			
1 ST 3	75	-20	-1	0	-1	-2	-3	-2	-1	-1	0	0	1	2	2	2	3	2	2
0 -2																			
1 ST 3	75	-10	-2	-2	-2	-3	-3	-1	-1	0	0	2	2	2	3	3	4	2	2
-1 -2																			
1 ST 3	75	0	-2	-2	-2	-2	-2	-1	-1	0	0	1	2	2	2	3	3	2	2
-1 -2																			
1 ST 3	75	10	-1	0	2	3	3	2	0	0	-1	0	-1	-2	-2	-1	0	0	0
-1 -1																			
1 ST 3	75	20	0	1	3	5	4	3	1	0	-1	-1	-1	-2	-2	-2	-2	-2	-2
-1 -1																			
1 ST 3	75	30	1	2	4	5	5	3	1	0	0	-2	-3	-3	-4	-3	-2	-1	-1
-1 -1																			
1 ST 3	75	40	-1	-1	1	3	3	4	4	4	4	4	2	-1	-3	-4	-5	-5	-5
0 0																			
1 ST 3	75	50	0	2	5	7	6	5	4	4	4	2	0	-3	-5	-7	-7	-7	-7
-4 -3																			
1 ST 3	75	60	1	4	6	7	7	6	6	6	5	2	0	-3	-6	-9	-10	-10	-10
-5 -3																			
1 ST 3	75	70	0	3	5	7	8	10	10	10	7	3	-2	-7	-11	-12	-12	-10	-10
-7 -3																			
1 ST 3	75	80	-1	1	2	3	6	8	8	5	1	-1	-2	-4	-5	-5	-4	-3	-3
-7 -3																			
1 ST 3	80	-80	-1	-3	-2	1	1	-1	-2	1	0	0	0	0	0	1	3	3	3
-3 -3																			
1 ST 3	80	-70	0	1	1	-2	-3	-2	-2	-2	-4	-3	-2	-1	2	7	6	6	6
3 1																			
1 ST 3	80	-60	-4	-7	-7	-5	-4	-9	-7	1	-1	2	5	5	4	6	10	6	6
4 2																			
1 ST 3	80	-50	-2	-6	-6	-2	1	-2	-4	-2	-4	-3	2	5	7	5	5	5	6
-1 -2																			
1 ST 3	80	-40	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
3 -2																			

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 ST	3	85	50	0	1	8	12	6	-5	-9	-3	3	2	-2	-4	-3	-4	-5	-2
2	3	85	60	15	16	18	18	9	-5	-10	-6	-1	-4	-9	-10	-9	-10	-14	-11
1 ST	0	11	3	85	70	12	9	6	8	8	6	3	0	-3	-9	-17	-20	-17	0
1 ST	8	13	3	85	80	2	11	12	8	9	16	18	9	-5	-13	-16	-15	-8	0
1 ST	-4	-5	3	90	-80	-5	-12	-9	-1	2	-5	-7	2	1	2	2	2	3	9
1 ST	8	2	3	90	-70	-3	-3	-9	-7	-1	-2	3	-3	-1	0	-1	-3	4	15
1 ST	6	-1	3	90	-60	-13	-22	-19	-12	-5	-18	-13	11	7	12	16	11	6	18
1 ST	4	-5	3	90	-50	-7	-19	-17	-2	4	0	-4	1	-5	-6	5	11	13	8
1 ST	5	-6	3	90	-40	-27	-23	-7	0	3	6	7	8	8	7	10	16	13	8
1 ST	12	-18	3	90	-30	-11	6	8	-5	-13	0	15	9	9	16	22	22	6	-8
1 ST	26	-25	3	90	-20	-3	11	5	-18	-15	2	13	2	-7	-1	2	5	5	11
1 ST	17	-17	3	90	-10	-5	7	6	-6	-4	6	9	-1	-7	-2	-1	2	1	6
1 ST	13	-14	3	90	0	-7	2	8	7	9	11	6	-3	-7	-3	-1	-1	1	6
1 ST	-9	-12	3	90	10	-9	-2	10	18	21	13	3	-5	-7	-5	-6	-6	-3	-2
1 ST	-5	-9	3	90	20	-10	-3	7	15	17	13	11	6	1	0	-1	-2	-6	-12
1 ST	-6	-8	3	90	30	-10	-5	6	15	15	10	8	7	4	-1	-7	-11	-12	-10
1 ST	0	-5	3	90	40	9	1	-3	-3	1	-2	-4	0	9	11	2	-9	-12	-10
1 ST	6	10	3	90	50	1	2	9	12	4	-9	-13	-6	1	1	-2	-4	-2	-3
1 ST	5	6	3	90	60	21	21	21	19	7	-9	-17	-12	-6	-8	-12	-11	-10	-9
1 ST	4	17	3	90	70	17	12	8	6	6	5	0	-4	-6	-8	-13	-20	-21	-16
1 ST	15	20	3	90	80	6	15	16	10	9	15	16	7	-9	-18	-21	-20	-17	-8
1 ST	-1	-1	4	20	-80	5	6	4	2	-1	-2	-4	-6	-6	-5	-4	-3	-2	0
1 ST	5	5	4	20	-70	5	5	4	1	-3	-5	-7	-8	-7	-5	-3	-1	1	2
1 ST	7	6	4	20	-60	2	1	-1	-3	-5	-7	-7	-7	-4	-1	1	3	4	6
1 ST	6	3	4	20	-50	-1	-2	-3	-4	-5	-6	-6	-4	-1	1	3	4	5	6
1 ST	4	4	1	20	-40	0	0	-1	-1	-2	-2	-2	-1	0	1	1	0	1	3
1 ST	2	1	2																

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0										
1 ST	4	20	-30	0	0	-1	0	0	1	0	0	-1	0	0	1					
2	1	4	20	-20	-1	0	0	1	1	0	0	0	0	0	-1	0				
0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	-1	0				
1 ST	4	20	-10	0	1	1	1	0	0	1	0	-1	0	0	0	0				
-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1 ST	4	20	0	0	1	1	0	0	0	0	0	0	0	0	0	-1				
-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1				
1 ST	4	20	10	0	0	2	1	0	0	1	1	1	0	1	0	-2	-3			
-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-3			
1 ST	4	20	20	0	1	3	1	1	0	2	3	2	1	-1	0	0	-5	-4		
-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-5	-4		
1 ST	4	20	30	-2	0	2	2	0	1	3	5	6	4	2	-2	-3	-6	-5		
-5	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-5	-5		
1 ST	4	20	40	0	-1	0	0	-1	0	1	0	2	4	3	0	-4	-2	1		
2	1	4	20	50	9	6	4	1	-1	-2	-3	-6	-7	-6	-7	-7	-4	-2	1	
1 ST	4	20	60	12	9	6	3	1	-1	-3	-8	-11	-12	-11	-9	-4	3	9	8	
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	8
1 ST	4	20	70	7	5	3	2	1	-1	-2	-5	-7	-8	-7	-5	-1	3	7	7	9
14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	9
1 ST	4	20	80	1	1	1	1	1	1	0	0	-2	-3	-3	-2	0	1	2	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7
1 ST	4	25	-80	3	3	1	-1	-3	-5	-5	-5	-4	-2	-1	0	2	3	5	5	7
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1 ST	4	25	-70	1	0	-2	-5	-7	-9	-9	-7	-4	0	3	4	6	7	9	8	5
5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	8
1 ST	4	25	-60	-3	-5	-7	-9	-10	-10	-9	-5	-1	3	6	8	10	10	10	8	8
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1 ST	4	25	-40	-3	-4	-4	-4	-3	-2	-1	2	3	4	4	4	3	3	3	1	5
2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	7
1 ST	4	25	-30	-1	-1	0	0	0	0	1	1	1	0	1	0	1	0	0	0	7
0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
1 ST	4	25	-20	0	0	1	1	1	1	0	0	0	0	-1	0	-1	0	-1	0	0
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1 ST	4	25	-10	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	-1	-1
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1 ST	4	25	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	-2
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1 ST	4	25	10	0	0	1	1	1	1	0	0	1	1	1	0	0	0	-1	-2	-2
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1 ST	4	25	20	0	0	1	1	1	1	1	1	2	1	0	0	1	0	0	-1	-2
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1 ST	4	25	30	-2	-1	0	0	0	2	3	4	4	3	1	-1	-2	-3	-3	-3	-3
-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-3
1 ST	4	25	40	-1	-2	-2	-3	-2	0	0	2	3	4	3	0	-2	-1	1	2	-3
-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
1 ST	4	25	50	6	2	-1	-3	-4	-4	-5	-5	-4	-3	0	-2	-1	1	2	1	2
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 MEMBER: SCIDAT9

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14		13																		
1	ST	4	25	70	7	5	3	1	-2	-3	-5	-6	-8	-8	-7	-6	-3	1	6	9
9		8																		
1	ST	4	25	80	6	4	14	1	-1	-2	-2	-1	-3	-3	-4	-3	-5	-6	-1	1
4		2																		
1	ST	4	30	-80	0	-1	-4	-5	-6	-3	-5	-2	-1	1	3	3	4	5	3	4
3		2																		
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2		-1																		
1	ST	4	30	-60	-8	-10	-12	-13	-12	-9	-6	0	4	9	12	13	13	12	9	5
0		-4																		
1	ST	4	30	-50	-10	-11	-13	-12	-11	-8	-3	2	7	11	13	13	12	10	7	3
-2		-7																		
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-3		-5																		
1	ST	4	30	-30	-2	-1	-1	0	0	1	2	2	2	2	2	1	0	0	-1	-1
-1		-2																		
1	ST	4	30	-20	0	1	1	1	1	1	1	0	0	0	0	0	0	0	-1	-1
0		0																		
1	ST	4	30	-10	0	1	1	1	1	1	0	0	0	0	0	0	0	-1	-1	-1
0		0																		
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0		0																		
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0		0																		
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-1		0																		
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-3		-3																		
1	ST	4	30	40	-4	-4	-3	-2	-1	1	2	3	4	5	4	3	2	1	0	-1
-3		-4																		
1	ST	4	30	50	-2	-4	-5	-6	-5	-3	-2	-1	0	2	3	4	4	5	6	5
3		0																		
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8		5																		
1	ST	4	30	70	5	2	1	-1	-3	-5	-6	-6	-6	-5	-4	-2	1	4	8	8
6		5																		
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-3		-5																		
1	ST	4	35	-70	-11	-13	-13	-12	-10	-5	-1	5	9	11	13	13	11	9	5	1
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-6		-9																		
1	ST	4	35	-40	-6	-7	-6	-4	-2	0	3	6	7	7	7	5	4	2	0	-3
-4		-6																		
1	ST	4	35	-30	-2	-2	-1	0	0	1	2	3	3	2	2	1	1	0	-1	-1
-1		-2																		

START
COL

	1	2	3	4	5	6	7	8	9	0										
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-1	-1																			
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0	0																			
1 ST	4	35	30	0	0	0	1	1	1	1	2	2	1	0	0	0	0	0	-1	-1
-1	-1																			
1 ST	4	35	40	-5	-5	-3	-2	0	1	3	4	5	5	4	4	2	1	-1	-1	-2
-3	-4																			
1 ST	4	35	50	-8	-8	-8	-6	-4	-1	1	3	5	7	8	8	7	5	3	0	0
-4	-6																			
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1 ST	4	35	70	2	0	-2	-3	-4	-5	-5	-4	-2	-1	1	3	4	5	5	4	4
3	3																			
1 ST	4	35	80	4	5	4	1	-4	-4	-4	-3	-4	-3	-1	0	3	2	3	2	3
4	3																			
1 ST	4	40	-80	-8	-9	-9	-8	-2	1	1	2	4	6	7	8	7	6	3	1	1
-3	-5																			
1 ST	4	40	-70	-11	-13	-13	-10	-8	-3	2	6	10	12	13	12	10	7	3	0	0
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1 ST	4	40	-60	-11	-12	-12	-9	-6	-2	4	8	11	13	12	11	8	5	1	-3	-3
-6	-9																			
1 ST	4	40	-50	-10	-10	-8	-6	-2	1	5	8	11	11	10	8	5	2	-1	-4	-4
-7	-9																			
1 ST	4	40	-40	-5	-5	-4	-3	0	1	4	5	6	6	5	4	2	0	-2	-3	-3
-4	-5																			
1 ST	4	40	-30	-1	-1	-1	0	1	2	2	2	3	2	1	0	0	-1	-1	-2	-2
-2	-1																			
1 ST	4	40	-20	0	0	1	1	1	2	1	2	0	0	0	-1	-1	-2	-1	-1	-1
-1	-1																			
1 ST	4	40	-10	0	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1	0	0	0
0	0																			
1 ST	4	40	0	1	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1	0	0	0
0	0																			
1 ST	4	40	10	1	1	2	2	2	1	1	0	0	-1	-2	-2	-1	-1	0	0	0
1	1																			
1 ST	4	40	20	1	1	1	2	1	1	1	0	-1	-1	-2	-2	-1	-1	0	0	0
1	1																			
1 ST	4	40	30	1	1	1	1	1	1	1	0	0	-1	-1	-1	-1	-1	-1	0	0
1	1																			
1 ST	4	40	40	-3	-2	-2	-1	0	1	2	3	3	3	2	2	1	0	-1	-2	-2
-2	-2																			
1 ST	4	40	50	-8	-7	-6	-4	-2	0	3	5	6	8	7	7	6	3	0	-3	-3
-5	-7																			
1 ST	4	40	60	-8	-8	-8	-7	-5	-3	0	3	5	7	8	9	8	6	3	0	0
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0	-1	4	80	2	1	1	-1	-3	-3	-3	-1	-2	-1	0	1	2	2	2	2
1 ST	4	40	80	2	1	1	-1	-3	-3	-3	-1	-2	-1	0	1	2	2	2	2
2	2	4	45	-80	-5	-6	-7	-7	-5	-3	0	1	3	5	6	7	6	6	4
1 ST	4	45	-80	-5	-6	-7	-7	-5	-3	0	1	3	5	6	7	6	6	4	2
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1 ST	4	45	-70	-8	-10	-10	-8	-6	-3	0	4	6	8	9	9	8	6	4	1
-3	-6	4	45	-60	-8	-9	-9	-6	-3	0	3	6	8	9	9	8	6	4	1
1 ST	4	45	-60	-8	-9	-9	-6	-3	0	3	6	8	9	9	8	6	4	1	-2
-5	-7	4	45	-50	-7	-6	-5	-3	0	2	4	5	7	7	6	4	3	1	-3
1 ST	4	45	-50	-7	-6	-5	-3	0	2	4	5	7	7	6	4	3	1	-1	-3
-5	-6	4	45	-40	-3	-2	-2	-1	0	1	2	2	3	3	2	1	0	-1	-2
1 ST	4	45	-40	-3	-2	-2	-1	0	1	2	2	3	3	2	1	0	-1	0	-1
-2	-2	4	45	-30	-1	-1	-1	0	0	1	1	1	1	1	1	0	0	0	-1
1 ST	4	45	-30	-1	-1	-1	-1	0	0	1	1	1	1	1	1	0	0	0	-1
-1	-1	4	45	-20	0	0	1	1	1	1	1	1	0	0	-1	-1	-1	-1	-1
1 ST	4	45	-20	0	0	0	1	1	1	1	1	1	0	-1	-1	-2	-1	-1	0
0	0	4	45	-10	1	1	1	1	1	2	1	1	0	-1	-2	-1	-1	-1	0
1 ST	4	45	-10	1	1	1	1	1	1	2	1	1	0	-1	-2	-1	-1	-1	0
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1 ST	4	45	0	1	1	1	1	1	1	1	1	0	0	-1	-2	-2	-1	0	0
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1 ST	4	45	10	1	1	1	1	1	1	1	1	0	0	-1	-2	-2	-1	0	0
0	1	4	45	20	1	1	1	1	1	1	1	0	0	-1	-2	-2	-1	0	1
1 ST	4	45	20	1	1	1	1	1	1	1	1	0	0	-1	-2	-2	-1	0	1
0	1	4	45	30	2	1	1	1	1	1	1	0	0	-1	-2	-2	-1	0	1
1 ST	4	45	30	2	1	1	1	1	1	1	1	0	0	-1	-2	-2	-1	0	1
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1 ST	4	45	40	-1	0	0	0	0	1	1	1	2	1	1	0	0	0	-1	-1
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1 ST	4	45	50	-5	-4	-3	-2	0	1	3	5	5	5	4	2	0	-2	0	-4
-5	-5	4	45	60	-7	-6	-6	-4	-2	0	2	4	6	7	7	5	3	0	-2
1 ST	4	45	60	-7	-6	-6	-4	-2	0	2	4	6	7	7	5	3	0	-2	-2
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-2	-3	4	45	80	-1	-1	-2	0	-1	-1	-1	0	0	2	1	1	2	1	0
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0	1	4	50	-80	-5	-6	-5	-6	-7	-5	0	1	3	5	6	7	7	6	5
1 ST	4	50	-80	-5	-6	-5	-6	-7	-5	0	1	3	5	6	7	7	6	5	3
-3	-3	4	50	-70	-8	-9	-9	-7	-5	-1	2	4	7	8	9	9	7	5	2
1 ST	4	50	-70	-8	-9	-9	-7	-5	-1	2	4	7	8	9	9	7	5	2	-1
-4	-7	4	50	-60	-9	-8	-7	-5	-2	1	3	6	8	8	7	5	2	-1	-4
1 ST	4	50	-60	-9	-8	-7	-5	-2	1	3	6	8	8	7	5	2	-1	-1	-4
-6	-8	4	50	-50	-6	-5	-4	-1	1	2	4	5	5	5	4	3	1	-1	-3
1 ST	4	50	-50	-6	-5	-4	-1	1	2	4	5	5	5	4	3	1	-1	-1	-3
-5	-5	4	50	-40	-2	-2	-1	0	1	1	1	1	1	2	2	1	1	0	-1
1 ST	4	50	-40	-2	-2	-1	0	1	1	1	1	1	1	2	2	1	1	0	-1
-2	-2	4	50	-30	-1	0	0	0	1	1	1	1	1	0	0	0	0	0	-1
1 ST	4	50	-30	-1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	-1
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1 ST	4	50	-20	0	1	1	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1
0	0	4	50	-20	0	1	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1

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START COL	1	2	3	4	5	6	7	8	9	0									
1 ST	4	55	80	-3	-6	-6	0	2	4	3	2	2	1	0	0	-3	1	1	
2	4	60	-80	-5	-4	-3	-1	1	3	4	4	3	3	2	2	1	0	-1	-3
1 ST	4	60	-70	-7	-5	-3	0	2	5	7	8	8	8	6	4	1	-2	-6	-8
1 ST	4	60	-60	-8	-4	-1	2	5	8	10	10	9	8	5	2	-1	-5	-8	-11
1 ST	4	60	-50	-4	-2	0	3	5	7	8	7	6	5	3	1	-1	-4	-7	-9
1 ST	4	60	-40	-1	1	.3	4	4	4	3	2	1	1	0	0	-2	-3	-4	-4
1 ST	4	60	-30	1	2	2	3	2	2	1	0	1	0	0	-1	-2	-2	-2	-2
1 ST	4	60	-20	0	0	1	1	2	2	2	1	2	1	0	-1	-2	-2	-2	-1
1 ST	4	60	-10	0	0	-1	0	1	1	1	1	1	1	0	0	-1	0	0	0
1 ST	4	60	0	0	0	0	0	1	1	0	0	0	0	0	0	-1	0	0	0
1 ST	4	60	10	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
1 ST	4	60	20	0	0	0	0	0	-1	0	0	1	1	1	0	0	0	1	0
1 ST	4	60	30	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	1	1
1 ST	4	60	40	2	2	2	1	1	1	1	0	0	-1	-2	-2	-2	-1	1	1
1 ST	4	60	50	3	3	3	2	2	2	2	1	0	0	-2	-3	-4	-4	-3	-1
1 ST	4	60	60	1	2	2	2	2	1	2	2	2	2	1	0	-1	-3	-3	-2
1 ST	4	60	70	1	1	1	1	1	1	1	2	2	1	0	-1	-2	-2	-2	-1
1 ST	4	60	80	0	1	1	1	2	3	4	2	1	-2	-2	-2	-1	0	0	-1
1 ST	4	65	-80	-3	-2	0	2	4	5	6	5	4	2	1	0	-1	-2	-3	-4
1 ST	4	65	-70	-4	-2	0	3	5	7	9	8	7	6	4	1	-2	-5	-7	-9
1 ST	4	65	-60	-4	-1	1	4	6	9	10	9	7	5	2	0	-4	-7	-9	-10
1 ST	4	65	-50	-2	1	3	5	6	7	7	6	5	3	1	-1	-4	-6	-8	-9
1 ST	4	65	-40	1	3	4	5	5	5	3	2	1	0	-1	-2	-4	-5	-5	-5
1 ST	4	65	-30	1	2	2	2	2	1	0	0	0	0	0	-1	-2	-2	-2	-1
1 ST	4	65	-20	1	1	1	1	1	1	1	1	1	1	0	1	-1	-2	-2	-1
1 ST	4	65	-10	1	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	0
1 ST	4	65	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 ST	4	75	-80	-1	1	3	6	7	6	5	4	2	0	-2	-3	-4	-5	-5
-4	-3																	
1 ST	4	75	-70	0	1	4	6	6	5	4	3	1	0	-1	-2	-4	-5	-6
-4	-2																	
1 ST	4	75	-60	0	1	3	4	4	3	3	2	1	0	-1	-2	-3	-4	-4
-2	0																	
1 ST	4	75	-50	1	2	3	4	4	3	2	1	0	-1	-1	-2	-3	-3	-2
-2	0																	
1 ST	4	75	-40	2	2	3	3	3	1	0	0	0	-1	-1	-2	-2	-3	-2
0	1																	
1 ST	4	75	-30	1	1	2	1	0	-1	-1	-1	-1	0	0	1	0	-1	-1
0	1																	
1 ST	4	75	-20	2	1	1	0	-1	-2	-2	-2	-2	-1	-1	0	0	0	1
2	2																	
1 ST	4	75	-10	2	2	1	1	0	0	-1	-2	-2	-1	-1	0	0	0	0
1	1																	
1 ST	4	75	0	0	1	1	2	1	1	1	0	0	-1	0	0	0	-1	-1
-1	0																	
1 ST	4	75	10	0	1	2	1	2	1	0	-1	-2	-1	-1	0	1	0	0
0	1																	
1 ST	4	75	20	0	0	1	1	1	1	0	-1	-2	-2	-1	0	0	1	1
0	1																	
1 ST	4	75	30	-1	-1	1	1	2	2	1	0	0	0	0	1	2	1	0
-1	-1																	
1 ST	4	75	40	-1	-1	0	1	1	1	1	1	2	1	1	1	0	0	-1
-2	-1																	
1 ST	4	75	50	0	1	2	1	1	1	0	0	0	0	0	1	1	0	-1
-1	0																	
1 ST	4	75	60	1	0	0	0	0	-1	-1	-1	-1	0	0	1	1	1	1
2	1																	
1 ST	4	75	70	2	1	0	0	-1	-3	-4	-3	-1	0	1	0	0	1	2
3	3																	
1 ST	4	75	80	-2	-2	-1	-2	-2	0	2	2	1	1	3	2	0	-1	0
-2	1																	
1 ST	4	80	-80	1	4	7	9	10	10	8	6	2	-1	-4	-6	-8	-9	-8
-6	-3																	
1 ST	4	80	-70	3	6	7	8	8	7	5	3	1	-1	-3	-5	-7	-8	-7
-4	0																	
1 ST	4	80	-60	4	5	5	4	3	2	1	0	-1	-2	-3	-4	-5	-4	-2
0	2																	
1 ST	4	80	-50	3	4	5	4	3	2	0	-1	-1	-2	-2	-3	-3	-2	-1
1	2																	
1 ST	4	80	-40	3	3	3	3	2	1	0	-1	-1	-2	-2	-2	-2	-1	0
1	2																	
1 ST	4	80	-30	1	1	1	0	-1	-1	-1	-1	-1	0	0	1	1	1	1
1	1																	
1 ST	4	80	-20	4	3	1	-1	-2	-3	-4	-4	-4	-3	-2	0	1	2	3
4	4																	
1 ST	4	80	-10	4	2	-1	0	2	2	0	-4	-5	-3	-2	-2	0	2	3
3	3																	
1 ST	4	80	0	1	0	-1	1	4	5	2	-2	-3	-2	-1	-1	0	0	0
1	1																	
0	1																	

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 MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10								
1 ST 4	90	-70	8	11	12	11	10	8	4	1	-3	-5	-7	-9	-11	-11	-9	-6
1 ST 5																		
1 ST 4	90	-60	10	10	8	4	0	-2	-5	-6	-6	-6	-6	-6	-6	-5	-1	4
1 ST 8	90	-50	6	6	6	3	0	-1	-5	-5	-4	-5	-4	-4	-2	-2	2	5
1 ST 4	90	-40	5	3	2	1	0	-1	-2	-3	-2	-3	-2	-2	-1	0	2	3
1 ST 4	90	-30	1	1	0	-2	-3	-2	-2	-2	0	0	0	2	3	3	4	3
1 ST 2	90	-20	6	4	1	-2	-4	-6	-8	-8	-6	-4	0	3	5	7	6	6
1 ST 7	90	-10	8	0	-11	-6	8	12	5	-11	-13	-7	-4	-5	-7	0	6	10
1 ST 4	90	0	4	-4	-12	-3	12	16	5	-8	-12	-7	-4	-4	-2	2	5	5
1 ST 6	90	10	2	-9	-14	-1	15	18	7	-7	-12	-10	-7	-5	0	5	4	1
1 ST 3	90	20	-2	-9	-7	5	16	16	4	-10	-16	-12	-2	5	3	-3	-4	1
1 ST 6	90	30	-10	-12	-2	12	19	16	7	1	-4	-6	-2	5	8	0	-10	-13
1 ST 4	90	40	-7	5	21	25	13	-3	-6	3	11	10	5	4	2	-8	-19	-24
1 ST 21																		
1 ST 4	90	50	-5	-5	1	8	5	-6	-8	1	9	6	1	2	7	7	-2	-8
1 ST 7	90	60	-3	-11	-6	5	8	-2	-8	-5	-3	-5	-6	1	9	8	2	2
1 ST 4	90	70	3	3	4	7	5	-4	-13	-15	-5	4	6	-1	-5	-2	2	4
1 ST 5	90	80	-4	1	5	3	-2	-3	-2	0	2	8	4	-4	-9	-4	4	4
1 ST 3	20	-80	7	7	5	3	2	-1	-4	-7	-7	-7	-6	-6	-4	-1	2	4
1 ST 6	20	-70	11	9	4	0	-3	-7	-11	-13	-12	-10	-7	-5	-1	4	9	11
1 ST 12	20	-60	9	7	1	-3	-7	-11	-14	-15	-12	-8	-4	-1	3	8	12	13
1 ST 13	20	-50	6	4	0	-3	-6	-9	-10	-10	-8	-4	-1	1	4	6	9	9
1 ST 9	20	-40	2	1	-2	-4	-4	-4	-4	-3	-2	0	1	1	2	3	4	5
1 ST 4	20	-30	0	0	-2	-2	-1	0	1	1	2	2	1	0	0	0	0	1
1 ST 5	20	-20	0	0	0	1	1	2	2	2	2	1	0	0	-1	-2	-2	-1
1 ST 1	0	-10	-1	0	1	1	1	1	1	1	1	0	-1	0	-1	-1	-1	-2
1 ST 5	20	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	-1	-1
1 ST 1	0	10	1	1	1	1	0	1	3	2	2	1	1	-1	0	-1	-4	-4
1 ST 5																		
1 ST 1																		

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DATASET: CWEJ412.GRAM0D90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10									
1 ST	5	30	-60	1	-4	-9	-11	-13	-10	-8	-6	-2	3	6	8	7	9	10	10
8	3																		
1 ST	5	30	-50	2	-2	-5	-7	-9	-10	-10	-7	-4	-1	3	5	7	9	10	10
8	6																		
1 ST	5	30	-40	-1	-4	-4	-4	-4	-3	-2	0	1	3	3	3	2	2	3	3
2	0																		
1 ST	5	30	-30	-3	-4	-3	-1	0	2	3	4	4	4	3	2	0	-1	-1	-1
-2	-3																		
1 ST	5	30	-20	-4	-3	-1	0	2	3	3	4	4	3	2	1	0	-1	-1	-2
-3	-4																		
1 ST	5	30	-10	-1	-2	-1	0	1	1	1	2	2	2	2	1	-1	-1	-1	-2
-2	-2																		
1 ST	5	30	0	-1	-1	1	0	1	0	1	1	1	1	1	0	-1	-1	-1	-1
-1	0																		
1 ST	5	30	10	-1	0	1	1	1	1	1	1	1	1	1	0	-1	-2	-2	-1
-1	-1																		
1 ST	5	30	20	-1	-1	-1	1	1	1	1	1	2	2	2	1	0	-1	-2	-2
-2	-2																		
1 ST	5	30	30	-2	-1	0	1	1	2	2	2	2	2	1	0	-1	-2	-2	-2
-2	-2																		
1 ST	5	30	40	-1	1	0	1	1	1	2	2	1	1	-1	-1	-2	-2	-2	-1
-1	-1																		
1 ST	5	30	50	2	2	1	1	1	1	1	0	-1	-2	-3	-3	-2	-1	0	1
2	2																		
1 ST	5	30	60	2	1	0	-1	-1	0	0	0	-2	-2	-3	-2	-1	1	2	2
2	2																		
1 ST	5	30	70	1	1	1	-1	-1	-1	0	-1	-1	-1	-2	-2	-1	1	1	1
2	1																		
1 ST	5	30	80	1	-5	-3	3	-2	-2	-1	-1	-1	-1	-1	-1	-1	1	3	4
4	2																		
1 ST	5	35	-80	-5	-6	-9	-8	3	-1	-4	-2	1	3	5	7	6	7	5	3
1	-3																		
1 ST	5	35	-70	-8	-11	-12	-10	-9	-6	-1	4	8	10	12	10	9	7	4	1
-1	-1																		
1 ST	5	35	-60	-8	-10	-12	-11	-8	-4	1	6	9	11	10	9	7	6	4	1
-2	-5																		
1 ST	5	35	-50	-6	-8	-9	-7	-6	-2	1	4	6	7	6	5	4	4	3	2
0	-3																		
1 ST	5	35	-40	-4	-5	-5	-3	-1	2	4	5	5	4	3	2	1	1	0	0
-2	-3																		
1 ST	5	35	-30	-5	-4	-3	-1	1	3	5	5	4	4	2	1	0	0	-1	-2
-3	-4																		
1 ST	5	35	-20	-5	-4	-3	-1	1	3	4	4	4	3	2	1	0	-1	-2	-2
-3	-4																		
1 ST	5	35	-10	-2	-2	-1	0	0	1	2	2	2	2	2	1	0	-1	-2	-2
-2	-3																		
1 ST	5	35	0	-1	-1	-1	0	1	1	1	1	1	1	1	1	0	-1	-1	-1
-1	-1																		
1 ST	5	35	10	-1	-1	0	1	1	1	1	1	1	1	1	1	0	0	-1	-1
-1	-1																		
1 ST	5	35	20	-1	-1	-1	0	-1	1	1	1	1	1	1	1	0	0	-1	-1
-1	-1																		

DATASET: CWEJ412.GRAMOD90.DATA
 MEMBER: SCIDAT9

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START COL	1	2	3	4	5	6	7	8	9	0	
1 ST 5	35	30	-1	0	0	1	1	1	1	-1	-1
-1	-1	0	0	0	1	1	1	0	0	0	-1
1 ST 5	35	40	0	0	1	1	1	0	0	-1	-1
-1	-1	1	1	1	0	0	0	-1	-1	-1	-1
1 ST 5	35	50	1	1	0	0	0	-1	-1	-1	1
1	0	0	0	0	0	0	0	-1	-1	-1	-1
1 ST 5	35	60	0	-1	-1	0	-1	-1	0	0	2
1	1	1	1	-1	-1	-2	-2	-2	-1	0	1
1 ST 5	35	70	1	1	-1	-2	-2	-2	-1	0	1
2	2	2	2	3	-2	-2	-2	-2	0	0	1
1 ST 5	35	80	2	-2	2	-2	-2	-2	-2	-1	3
3	2	-2	2	-2	-2	-2	-3	-3	-2	-2	-1
1 ST 5	40	-80	-5	-6	-9	-8	-1	2	4	6	7
0	-3	-10	-11	-9	-6	-3	2	6	9	11	10
1 ST 5	40	-70	-10	-11	-9	-6	-3	2	6	9	11
-4	-7	-12	-13	-11	-8	-4	1	6	11	13	12
1 ST 5	40	-60	-12	-13	-11	-8	-4	1	6	11	13
-8	-10	-9	-8	-4	-1	3	7	9	10	9	7
1 ST 5	40	-50	-9	-8	-4	-1	3	7	9	10	9
-5	-8	-6	-5	-3	-1	2	4	6	5	4	2
1 ST 5	40	-40	-6	-5	-3	-1	2	4	6	5	4
-4	-5	-4	-3	-1	1	3	4	4	3	2	1
1 ST 5	40	-30	-5	-4	-3	-1	1	3	4	3	2
-2	-4	-4	-4	-2	-1	0	1	3	3	4	3
1 ST 5	40	-20	-4	-4	-2	-1	0	1	3	4	3
-2	-3	-3	-2	-2	-1	1	2	2	2	2	1
1 ST 5	40	-10	-3	-2	-2	-1	1	2	2	2	1
-1	-2	-1	-1	0	1	1	1	1	1	1	0
1 ST 5	40	0	-1	-1	0	1	1	1	1	1	1
-1	-1	-1	-1	0	1	1	1	1	1	1	1
1 ST 5	40	10	-1	-1	1	1	1	1	1	0	0
0	-1	0	0	0	1	1	1	1	1	0	0
1 ST 5	40	20	0	-1	1	1	1	0	-1	-1	0
0	0	0	0	1	1	1	1	0	-1	-1	0
1 ST 5	40	30	0	0	1	1	1	1	0	-1	-1
0	0	0	0	0	1	1	1	1	0	-1	-1
1 ST 5	40	40	0	0	1	1	1	1	0	0	-1
0	0	0	0	0	0	-1	0	0	0	0	-1
1 ST 5	40	50	0	0	0	0	0	0	0	0	-1
0	0	0	0	0	0	0	0	0	0	0	-1
1 ST 5	40	60	0	0	1	0	-1	-1	0	0	1
1	0	0	0	0	-1	-1	-1	-1	-1	-1	1
1 ST 5	40	70	0	0	1	-1	-1	-1	-1	0	1
3	1	2	-4	-1	3	-1	-1	-1	-1	0	1
1 ST 5	40	80	2	-4	-1	3	-1	-1	-1	-2	-1
4	2	-4	-5	-7	-8	-6	-5	-1	1	3	4
1 ST 5	45	-80	-4	-5	-7	-8	-6	-5	-1	1	3
0	-2	-10	-10	-9	-8	-6	-2	2	7	9	10
1 ST 5	45	-70	-10	-10	-9	-8	-6	-2	2	7	9
-5	-8	-12	-10	-8	-4	0	6	11	12	13	12
1 ST 5	45	-60	-13	-12	-10	-8	-4	0	6	11	12
-8	-11	-10	-8	0	6	11	12	10	7	4	0

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START COL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
1 ST 5	45	-50	-10	-10	-7	-4	-4	-1	3	6	8	8	6	4	2	4	2	0	-4													
1 ST 5	45	-40	-6	-6	-3	-1	1	3	4	5	4	4	3	2	2	1	0	-1														
1 ST 5	45	-30	-4	-4	-3	-1	0	1	2	3	3	2	2	2	2	2	1	0														
1 ST 5	45	-20	-3	-3	-2	-2	-1	0	1	3	3	3	2	2	2	2	1	0	0													
1 ST 5	45	-10	-2	-2	-2	-1	-1	1	1	2	2	2	2	1	1	1	-1	-1														
1 ST 5	45	0	-1	-1	-1	-1	0	0	1	1	1	1	0	0	1	1	1	0	0													
1 ST 5	45	10	-1	-1	-1	0	0	0	1	1	1	0	0	0	1	1	1	0	0													
1 ST 5	45	20	-1	-1	-1	0	1	0	0	0	0	-1	-1	-1	0	1	1	0	0													
1 ST 5	45	30	0	0	0	1	1	1	1	1	1	0	-1	-1	-1	0	0	0	0													
1 ST 5	45	40	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0													
1 ST 5	45	50	-1	-1	-1	0	0	1	0	1	1	1	1	1	1	0	0	0	-1													
1 ST 5	45	60	-1	-1	-1	-1	0	1	1	1	1	1	1	1	1	1	1	1	0													
1 ST 5	45	70	-2	-1	-1	-1	-1	-1	0	0	1	1	1	1	1	1	0	0	0													
1 ST 5	45	80	1	-6	-6	2	0	-1	0	-1	0	0	0	-1	0	-1	0	-1	0													
1 ST 5	50	-80	-4	-5	-6	-9	-16	-10	0	3	5	6	7	7	8	7	5	3														
1 ST 5	50	-70	-11	-11	-9	-8	-5	-1	3	7	10	10	10	10	7	5	1	-2														
1 ST 5	50	-60	-12	-12	-10	-7	-2	2	7	11	12	12	11	9	6	3	-1	-5														
1 ST 5	50	-50	-10	-9	-7	-4	0	4	7	9	9	8	6	4	2	-1	-5															
1 ST 5	50	-40	-6	-5	-3	-1	1	3	4	4	4	3	3	3	2	1	0	-2														
1 ST 5	50	-30	-3	-3	-2	-1	0	1	1	1	1	1	1	1	2	2	2	1														
1 ST 5	50	-20	-1	-1	-2	-1	-1	-1	0	1	1	1	1	1	1	2	1	1														
1 ST 5	50	-10	-1	-1	-1	-1	-1	-1	0	1	2	1	1	1	1	1	0	0														
1 ST 5	50	0	-1	-1	-1	-1	0	0	0	1	1	0	0	0	1	1	1	0														
1 ST 5	50	10	-1	-2	-1	-1	-1	-1	-1	0	1	1	0	1	1	1	1	1														
1 ST 5	50	20	0	-1	-1	1	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1														
1 ST 5	50	30	-1	0	-1	0	1	1	1	1	1	0	-1	0	-1	-1	0	-1														

START
COL

	1	2	3	4	5	6	7	8	9	0									
1 ST	5	50	40	0	0	0	0	0	1	1	0	0	-1	0	0	0	0	0	
-1	-1																		
1 ST	5	50	50	-1	-1	0	1	1	1	1	1	0	-1	-1	-1	-1	-1	-1	
-1	-1																		
1 ST	5	50	60	-1	-1	-1	0	1	1	2	1	1	1	1	1	0	-1	-1	
-1	-1																		
1 ST	5	50	70	-1	-1	0	0	0	1	0	1	1	1	0	-1	-1	-1	-1	
1	0																		
1 ST	5	50	80	0	-4	-4	1	0	-1	-1	0	1	1	-1	1	1	-1	2	3
3	2																		
1 ST	5	55	-80	-7	-7	-7	-6	-4	-2	1	2	4	5	6	6	6	5	3	1
-2	-4																		
1 ST	5	55	-70	-12	-12	-11	-8	-4	1	4	7	9	10	10	9	8	5	2	-2
-6	-9																		
1 ST	5	55	-60	-14	-13	-10	-6	0	5	9	12	13	13	11	8	5	1	-3	-6
10	-13																		
1 ST	5	55	-50	-10	-8	-5	-3	2	6	9	11	11	10	7	4	2	-1	-5	-7
-9	-10																		
1 ST	5	55	-40	-7	-6	-4	1	4	5	5	5	4	4	4	3	3	0	-1	-2
-5	-7																		
1 ST	5	55	-30	-1	-1	0	1	1	1	1	0	0	0	0	0	1	0	0	0
-1	-1																		
1 ST	5	55	-20	1	1	0	0	0	-1	-1	-1	-2	-1	-1	-1	0	1	1	2
2	2																		
1 ST	5	55	-10	1	1	0	0	0	0	-1	-1	-1	-1	-1	-1	0	1	1	1
1	1																		
1 ST	5	55	0	1	0	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	1	1	1
1	1																		
1 ST	5	55	10	0	-1	-2	-2	-1	-1	-1	0	0	0	0	1	1	1	1	1
1	0																		
1 ST	5	55	20	0	-1	-1	-1	0	0	0	0	0	-1	-1	0	1	1	1	1
1	0																		
1 ST	5	55	30	-1	-1	-1	-1	1	1	1	1	1	0	0	-1	0	0	0	0
-1	-1																		
1 ST	5	55	40	1	1	1	0	0	0	1	0	-1	-1	-1	-1	1	1	1	1
1	0																		
1 ST	5	55	50	-1	-1	0	0	1	1	1	1	1	1	1	0	0	-1	-1	-1
-1	-1																		
1 ST	5	55	60	-2	-2	-2	-1	0	1	2	2	1	1	1	1	1	0	0	-1
-1	-1																		
1 ST	5	55	70	-3	-1	-1	-1	1	2	2	2	2	1	1	1	1	0	0	-1
-1	-1																		
1 ST	5	55	80	-2	-8	-11	1	1	1	2	2	3	3	2	2	-1	-1	-1	-2
3	2																		
1 ST	5	60	-80	-4	-5	-5	-5	-3	-1	1	2	3	4	4	4	4	3	2	0
-2	-3																		
1 ST	5	60	-70	-8	-8	-7	-6	-2	1	5	7	7	7	7	6	4	3	0	-2
-5	-7																		
1 ST	5	60	-60	-9	-7	-6	-3	1	6	9	11	11	9	7	3	1	-2	-5	-7
-9	-10																		
1 ST	5	60	-50	-6	-4	-2	-1	3	7	9	10	9	7	4	1	-1	-3	-6	-7
-7	-7																		

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START COL	1	2	3	4	5	6	7	8	9	0									
1 ST	5	60	-40	-1	0	2	3	4	4	3	2	1	0	-1	-1	-1	-2	-2	-3
-2																			
1 ST	5	60	-30	4	3	3	2	1	0	-2	-3	-4	-4	-3	-2	-1	0	1	2
3																			
1 ST	5	60	-20	3	3	2	1	1	0	-2	-3	-4	-4	-3	-2	0	1	2	2
3																			
1 ST	5	60	-10	4	2	1	1	0	-1	-2	-3	-3	-3	-2	-1	1	2	3	3
3																			
1 ST	5	60	0	3	2	0	0	0	0	-1	-2	-2	-2	-1	-1	1	2	2	2
3																			
1 ST	5	60	10	2	0	-2	-2	-1	-1	-1	-1	-1	-1	0	1	1	2	2	2
2																			
1 ST	5	60	20	0	-1	-2	-1	-1	0	0	1	1	2	1	1	0	1	0	1
0																			
1 ST	5	60	30	-1	-1	-1	-1	0	1	2	1	1	1	1	-1	-1	-1	-1	-1
0																			
1 ST	5	60	40	0	-1	0	0	1	1	1	1	1	1	0	-1	-1	-1	-1	0
0																			
1 ST	5	60	50	0	-1	-1	0	1	1	1	1	1	1	0	0	0	-1	-1	-1
0																			
1 ST	5	60	60	-1	-1	-1	0	0	1	1	1	1	1	0	0	-1	-1	-1	-1
0																			
1 ST	5	60	70	0	0	0	1	1	1	2	1	1	1	0	-1	-1	-1	-2	-1
0																			
1 ST	5	60	80	-1	-1	-1	-1	0	1	1	1	1	1	1	1	1	0	-1	-1
0																			
1 ST	5	65	-80	-3	-3	-2	-2	-1	1	2	3	3	3	2	2	2	1	0	-1
-1																			
1 ST	5	65	-70	-5	-4	-3	-2	0	2	5	6	6	4	3	2	1	1	-1	-3
-2																			
1 ST	5	65	-60	-5	-3	-2	-1	2	6	8	9	8	5	3	1	-1	-3	-5	-6
-4																			
1 ST	5	65	-50	-2	-1	0	1	4	6	7	6	5	2	1	-2	-3	-4	-5	-5
-6																			
1 ST	5	65	-40	1	2	3	3	3	3	1	0	-1	-2	-3	-3	-2	-2	-1	-1
-5																			
1 ST	5	65	-30	5	4	3	2	0	-3	-5	-5	-5	-4	-3	-1	0	1	2	2
0																			
1 ST	5	65	-20	4	3	2	1	1	-1	-3	-4	-5	-4	-4	-2	0	1	2	2
4																			
1 ST	5	65	-10	5	3	2	1	0	-1	-3	-4	-5	-4	-3	-2	-1	1	2	3
3																			
1 ST	5	65	0	3	1	0	-1	0	0	-1	-2	-3	-4	-3	-2	-1	1	1	2
4																			
1 ST	5	65	10	3	1	-1	-1	-1	1	-1	-2	-2	-2	-1	0	1	1	1	2
2																			
1 ST	5	65	20	1	0	-2	-2	-1	0	-1	0	0	-1	0	-1	0	1	1	1
3																			
1 ST	5	65	30	0	-1	-1	-1	0	1	1	0	1	-1	-1	-1	-1	0	0	1
1																			
1 ST	5	65	40	0	-1	-1	-1	0	1	2	3	3	2	1	0	-1	-1	-2	-1
-1																			

START COL	1	2	3	4	5	6	7	8	9	0									
1 ST	5	65	50	-1	-1	-2	-1	-1	0	1	1	1	1	1	2	1	0	-1	-1
1 ST	0	1	5	60	-1	-1	-1	-1	1	1	2	1	1	1	0	0	-1	-2	-1
1 ST	0	1	5	70	-1	-1	0	0	0	1	2	1	1	1	1	0	0	-1	0
1 ST	0	1	5	80	-2	-1	-1	0	1	1	2	2	2	2	1	1	0	-1	-2
1 ST	-1	-1	5	-80	-1	0	1	2	2	2	3	3	1	0	0	-1	-2	-2	-2
1 ST	-2	-2	5	-70	-1	0	2	3	3	4	4	1	0	-1	-2	-3	-3	-3	-3
1 ST	-3	-3	5	-60	-1	1	3	3	4	5	5	4	2	0	-1	-3	-4	-5	-4
1 ST	-3	-2	5	-50	1	2	3	3	4	4	3	2	0	-1	-2	-3	-4	-3	-2
1 ST	0	0	5	-40	2	3	3	3	2	0	-1	-3	-3	-4	-3	-1	0	1	1
1 ST	1	2	5	-30	4	4	3	2	1	0	-2	-3	-4	-3	-2	-2	-1	0	1
1 ST	3	3	5	-20	3	2	2	0	0	-1	-3	-3	-2	-1	-1	0	1	1	2
1 ST	4	4	5	-10	3	2	1	1	0	-1	-3	-4	-3	-2	-2	0	1	1	2
1 ST	3	3	5	0	2	1	1	0	0	-1	-1	-1	-2	-1	-1	0	1	1	2
1 ST	2	2	5	10	3	1	-1	-1	-1	-2	-2	-2	-2	-2	-1	0	1	1	2
1 ST	2	2	5	20	2	1	-1	-1	0	-1	-1	-1	-1	-1	-1	0	1	1	1
1 ST	2	2	5	30	0	-1	-2	-2	-1	0	1	1	0	0	0	1	1	0	1
1 ST	1	1	5	40	-2	-2	-1	1	2	3	4	3	3	1	0	-1	-2	-2	-2
1 ST	-1	-1	5	50	-2	-2	-3	-2	-1	1	2	2	2	2	2	1	1	0	0
1 ST	-1	-1	5	60	-2	-2	-2	-1	1	1	2	2	2	2	1	1	1	0	-1
1 ST	-1	-1	5	70	-1	-2	-2	-2	-1	-1	0	1	1	1	1	2	1	0	1
1 ST	1	0	5	80	-1	-1	0	1	1	2	2	1	1	1	1	0	-1	-2	-2
1 ST	-2	-1	5	-80	1	2	4	4	4	4	3	0	-1	-2	-4	-5	-5	-4	-3
1 ST	-2	-1	5	-70	2	4	5	6	5	6	4	2	-1	-3	-4	-5	-6	-5	-4
1 ST	0	2	5	-60	3	5	6	6	5	4	3	1	-2	-3	-4	-5	-6	-5	-4
1 ST	2	3	5	-50	4	4	5	4	3	2	0	-1	-3	-4	-4	-4	-4	-3	0
1 ST	2	3	5	-40	3	3	3	3	2	1	-1	-2	-4	-3	-3	-3	-2	-1	0
1 ST	2	3	5	-30	3	3	3	3	2	1	-1	-2	-4	-3	-3	-2	-1	0	1

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START COL	1	2	3	4	5	6	7	8	9	0									
1 ST	5	75	-30	1	2	2	1	1	0	-1	-1	-1	-1	-1	-1	-1	0	1	
2	2	75	-20	1	1	0	0	-1	-1	-2	-2	-1	0	0	0	1	1	1	
1 ST	2	75	-10	1	1	1	1	0	-1	-1	-2	-1	0	0	0	1	0	0	
1 ST	0	75	0	0	0	0	1	0	-1	-1	-1	1	0	1	1	1	0	0	
1 ST	5	75	10	2	2	1	1	-1	-2	-2	-2	-2	-1	-1	0	1	2	1	
2	2	75	20	2	2	1	-1	-1	-1	-2	-2	-2	-2	-1	1	1	1	1	
1 ST	2	75	30	-1	-1	-2	-2	-1	-1	1	1	1	1	1	1	1	0	1	
1	1	75	40	-3	-2	-2	-1	0	1	3	4	4	4	3	1	-1	-2	-2	
1 ST	-1	75	50	-3	-2	-3	-2	-1	-1	1	2	3	3	3	3	2	1	0	0
1 ST	-1	75	60	-3	-2	-2	-1	-1	0	1	1	3	3	2	2	1	1	-1	-1
1 ST	-1	75	70	-2	-2	-3	-3	-3	-3	-2	-1	2	2	3	3	3	2	2	2
1 ST	1	75	80	0	1	2	2	2	2	2	1	1	0	-1	-2	-2	-2	-1	-1
1 ST	-1	80	-80	3	6	8	9	9	8	7	4	1	-2	-5	-7	-9	-8	-7	-7
1 ST	0	80	-70	7	10	12	13	11	9	6	2	-2	-6	-9	-11	-12	-11	-9	-6
1 ST	3	80	-60	10	12	12	11	8	4	1	-3	-6	-8	-10	-10	-10	-8	-6	-2
1 ST	7	80	-50	9	9	8	6	3	0	-3	-5	-7	-8	-8	-6	-3	0	3	3
1 ST	6	80	-40	6	6	4	3	1	0	-2	-3	-4	-5	-5	-4	-3	-1	0	3
1 ST	4	80	-30	1	0	-1	-1	-1	1	1	1	2	1	0	-1	-1	-1	-1	1
1 ST	1	80	-20	1	-1	-2	-3	-3	-3	-2	-1	0	0	1	1	2	2	3	3
1 ST	2	80	-10	0	-1	-1	-1	-1	0	0	0	0	1	1	1	1	0	0	0
1 ST	0	80	0	-2	-2	-2	-2	-1	-1	0	0	1	2	2	2	1	1	0	0
1 ST	0	80	10	3	2	1	0	-1	-2	-3	-4	-4	-3	-2	-1	0	1	2	3
1 ST	4	80	20	4	4	3	1	0	-2	-3	-4	-4	-4	-4	-3	-1	0	2	3
1 ST	4	80	30	0	-1	-2	-3	-3	-3	-2	-1	-1	0	1	2	3	3	3	2
1 ST	1	80	40	-4	-3	-2	-1	1	2	3	4	4	4	3	2	1	-1	-2	-3
1 ST	5	80	50	-4	-5	-5	-4	-4	-3	-2	0	1	3	4	5	4	3	2	0
1 ST	-1	80	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-3

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START COL	1	2	3	4	5	6	7	8	9	0										
1 ST	5	90	-20	-1	-4	-6	-6	-5	-1	1	3	2	3	3	4	3	4	3	5	4
3	0																			
1 ST	5	90	-10	-3	-4	-3	-2	1	3	4	3	4	4	4	4	2	1	-1	-2	
-4	-4																			
1 ST	5	90	0	-6	-5	-3	-2	-1	1	1	3	6	5	5	4	1	1	1	-2	
-2	-5																			
1 ST	5	90	10	3	3	3	2	-1	-3	-4	-6	-4	-2	-1	0	1	3	4		
6	5																			
1 ST	5	90	20	6	7	7	3	1	-4	-5	-7	-7	-7	-7	-5	-2	-1	3	5	
6	6																			
1 ST	5	90	30	0	-1	-2	-4	-5	-6	-5	-3	-3	0	2	4	5	5	6	3	
1	1																			
1 ST	5	90	40	-6	-4	-2	-1	1	2	3	4	5	5	4	3	0	-2	-4		
-7	-6																			
1 ST	5	90	50	-6	-8	-7	-6	-5	-3	-1	0	4	6	8	8	7	5	4	0	
-1	-5																			
1 ST	5	90	60	-4	-4	-6	-5	-5	-3	0	2	4	5	7	5	6	5	3		
-1	-4																			
1 ST	5	90	70	-3	-6	-10	-12	-11	-7	-4	-1	3	7	10	13	13	12	7		
3	0																			
1 ST	5	90	80	7	9	8	7	4	0	-2	-5	-7	-9	-8	-7	-6	-4	0		
2	5																			
1 ST	5	90	-80	6	7	6	3	1	-1	-3	-4	-5	-4	-4	-3	-2	0	2		
4	5																			
1 ST	6	20	-70	9	9	7	2	-2	-5	-9	-11	-11	-8	-5	-3	0	3	5	7	
8	6																			
1 ST	6	20	-60	9	8	5	0	-4	-8	-11	-14	-13	-10	-5	-1	2	6	9	11	
11	9																			
1 ST	6	20	-50	6	5	4	1	-3	-5	-8	-9	-9	-7	-5	-2	1	4	7	8	
8	6																			
1 ST	6	20	-40	3	3	2	-1	-3	-3	-3	-4	-5	-4	-3	-2	-1	1	4	6	
6	5																			
1 ST	6	20	-30	0	0	0	-1	0	1	2	2	1	1	-1	-2	-3	-2	0	1	
1	1																			
1 ST	6	20	-20	-1	0	1	2	3	3	4	4	3	2	0	-2	-3	-4	-3	-3	
-2	-1																			
1 ST	6	20	-10	-2	-1	-1	1	1	2	2	3	2	2	0	0	-1	-1	-2	-2	
-2	-2																			
1 ST	6	20	0	-1	0	0	-1	1	1	1	1	1	1	0	0	1	0	-1	-2	
-1	-1																			
1 ST	6	20	10	0	1	1	1	1	1	2	2	1	1	0	-1	-1	-1	-4	-4	
0	-1																			
1 ST	6	20	20	3	3	3	3	2	4	5	7	4	2	1	-4	-4	-6	-11	-6	
-2	-1																			
1 ST	6	20	30	0	2	4	5	4	6	7	8	8	5	3	-4	-10	-10	-12	-6	
-4	-3																			
1 ST	6	20	40	1	1	2	2	1	3	4	3	5	4	2	-4	-9	-7	-7	-1	
-1	-1																			
1 ST	6	20	50	3	2	2	0	-1	1	2	1	1	-2	-4	-6	-4	-2	1		
2	4																			
1 ST	6	20	60	3	2	1	0	1	2	3	2	1	-1	-2	-3	-4	-3	-2	-1	
1	1																			

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 ST	6	30	-10	-2	-2	-1	0	1	1	1	1	1	2	2	1	1	-1	-1	-1
-1	-2																		
1 ST	6	30	0	0	0	0	0	1	0	0	-1	0	1	1	1	1	0	0	0
0	0																		
1 ST	6	30	10	1	1	0	1	1	-1	-1	0	1	0	1	1	0	0	-1	-1
-1	0																		
1 ST	6	30	20	-1	0	1	1	1	1	1	1	1	1	1	1	0	-1	-3	-2
-2	-2																		
1 ST	6	30	30	-1	0	1	2	2	2	3	3	2	1	1	-1	-2	-2	-3	-3
-3	-2																		
1 ST	6	30	40	0	1	1	2	2	2	2	2	1	0	-1	-2	-3	-2	-2	-1
-1	-1																		
1 ST	6	30	50	1	2	1	1	1	1	2	1	0	-1	-2	-2	-2	-1	-1	-1
0	1																		
1 ST	6	30	60	1	1	0	0	1	2	2	2	1	-1	-1	-2	-2	-1	-1	-1
0	0																		
1 ST	6	30	70	1	2	2	2	2	2	2	2	1	0	-2	-3	-3	-2	-1	-1
-1	0																		
1 ST	6	30	80	1	1	2	3	1	1	1	1	0	-1	-1	-2	-1	0	-1	-2
-1	1																		
1 ST	6	35	-80	-5	-5	-5	-2	-3	-1	-2	1	2	3	4	5	5	4	2	0
-2	-2																		
1 ST	6	35	-70	-8	-8	-8	-8	-6	-3	1	4	7	9	11	10	7	5	1	-1
-4	-6																		
1 ST	6	35	-60	-12	-12	-10	-9	-5	-1	4	9	13	15	16	13	8	3	-2	-6
-9	-11																		
1 ST	6	35	-50	-12	-11	-9	-7	-4	0	5	10	15	17	16	12	6	1	-5	-9
11	-12																		
1 ST	6	35	-40	-9	-8	-6	-5	-3	0	4	8	12	14	14	11	5	0	-6	-9
10	-10																		
1 ST	6	35	-30	-4	-4	-3	-2	-1	0	2	5	7	9	9	6	2	-1	-4	-6
-6	-5																		
1 ST	6	35	-20	-2	-2	-2	-1	0	1	1	1	3	3	4	3	1	0	-2	-2
-2	-2																		
1 ST	6	35	-10	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	0	-1	-1
-1	-1																		
1 ST	6	35	0	-1	-1	-1	0	1	1	1	1	0	0	1	1	1	0	0	0
-1	-1																		
1 ST	6	35	10	-1	-1	0	0	0	0	0	0	0	0	1	1	1	0	0	0
0	0																		
1 ST	6	35	20	-1	-1	0	0	1	1	1	1	1	1	0	0	0	0	0	0
-1	-1																		
1 ST	6	35	30	-1	0	0	1	1	1	1	1	1	0	-1	0	-1	-1	-1	-1
-1	-1																		
1 ST	6	35	40	0	-1	0	1	1	1	2	2	1	1	0	-1	-1	-1	-1	-1
0	-1																		
1 ST	6	35	50	0	0	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
-1	0																		
1 ST	6	35	60	-1	0	-1	0	1	1	1	1	1	0	-1	-1	-1	-1	0	1
1	0																		
1 ST	6	35	70	2	2	2	2	2	1	1	1	0	-1	-1	-2	-2	-1	-1	-1
1	0																		
1 ST	6	35	70	2	2	2	2	2	1	1	1	0	-1	-1	-2	-2	-1	-1	-1
-1	-1																		

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0						
1 ST	6	45	0	-1	-1	0	0	1	1	1	0	1	1	1	0	-1
-1	-1															
1 ST	6	45	10	-1	-1	0	1	-1	0	0	0	-1	0	0	1	1
1	0															
1 ST	6	45	20	0	0	0	0	-1	-1	-1	-2	-2	-1	0	0	1
1	1															
1 ST	6	45	30	1	1	1	0	0	0	-1	-1	-2	-1	-1	-1	0
1	1															
1 ST	6	45	40	-1	-1	0	0	1	1	1	1	0	-1	-1	-1	-1
0	-1															
1 ST	6	45	50	-1	-1	0	1	1	1	1	0	0	-1	-1	-1	-1
-1	-1															
1 ST	6	45	60	-1	-1	-1	0	1	1	1	1	0	0	0	1	1
-1	-1															
1 ST	6	45	70	-3	-2	-1	-1	0	1	2	1	1	0	0	0	1
-1	-1															
1 ST	6	45	80	-1	-5	-8	-1	3	3	3	2	2	2	-3	-1	-1
1	1															
1 ST	6	50	-80	-6	-5	-6	-4	-3	-9	5	6	7	5	4	4	0
-2	-4															
1 ST	6	50	-70	-10	-10	-9	-6	-3	1	5	9	11	13	11	9	6
-9	-10															
1 ST	6	50	-60	-12	-10	-8	-5	-1	3	8	12	14	14	12	8	4
11	-12															
1 ST	6	50	-50	-8	-6	-4	-1	3	5	8	9	9	7	5	3	1
-7	-8															
1 ST	6	50	-40	0	2	3	5	5	4	3	1	0	-1	-2	-3	-2
-2	-1															
1 ST	6	50	-30	3	3	4	3	3	1	-1	-2	-3	-4	-3	-2	-1
1	2															
1 ST	6	50	-20	2	2	1	0	0	-1	-2	-2	-1	-2	-1	0	1
2	2															
1 ST	6	50	-10	1	0	-1	-1	-1	-2	-1	-1	-1	-1	-1	1	2
1	1															
1 ST	6	50	0	-1	-1	0	0	0	-1	1	0	0	-1	0	1	1
0	-1															
1 ST	6	50	10	0	-1	0	1	-1	-1	0	-1	-1	-1	-1	1	1
1	0															
1 ST	6	50	20	1	1	1	1	1	0	-1	-1	-2	-2	-1	-1	1
2	1															
1 ST	6	50	30	1	1	1	1	1	1	1	0	-1	-2	-2	-1	-1
1	1															
1 ST	6	50	40	-2	-2	-1	-1	1	1	2	3	3	2	2	1	0
-3	-3															
1 ST	6	50	50	0	0	0	1	1	1	1	0	-1	-1	-1	0	0
0	0															
1 ST	6	50	60	-1	-1	-1	-1	-1	1	1	1	1	1	0	1	1
-1	-1															
1 ST	6	50	70	-3	-2	-2	-1	1	1	1	1	1	1	1	1	1
0	-2															
1 ST	6	50	80	-2	-6	-9	-1	3	3	2	2	1	2	2	0	2
2	2															

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0							
1 ST	6	10	2	1	0	0	-1	-1	-1	-1	-2	-2	-1	0	1	1	1
2	3	6	20	2	-1	0	1	1	1	1	-1	-2	-2	-3	-2	-1	1
2	2	6	30	1	1	1	1	2	2	2	1	0	-1	-2	-3	-3	-2
1	1	6	40	1	0	0	1	2	2	2	2	1	0	-1	-2	-2	-2
-1	-1	6	50	0	1	1	1	2	1	1	1	-1	-1	-1	-1	-1	-1
1	6	60	1	2	2	2	2	1	1	1	-1	-2	-2	-2	-2	-1	-1
1	2	6	70	-2	-1	-1	0	1	2	3	3	1	-1	-1	1	1	-1
-1	-1	6	80	-1	-2	-2	-1	-1	0	1	2	1	1	2	2	1	0
1	1	6	85	-80	-3	-3	-2	0	2	3	5	4	3	1	1	1	0
-4	-3	6	65	-70	-5	-4	-3	-1	3	4	6	6	5	3	2	2	-3
-5	-4	6	65	-60	-2	-2	-1	1	4	5	6	5	4	2	1	0	-5
-4	-3	6	65	-50	-1	0	0	1	3	3	3	2	0	0	0	-1	-3
-2	0	6	65	-40	6	6	5	4	2	2	1	-1	-3	-3	-4	-5	-2
1	2	6	65	-30	11	10	7	4	1	-3	-7	-9	-8	-7	-6	-5	2
8	10	6	65	-20	9	8	5	2	-1	-4	-7	-8	-8	-7	-5	-3	0
9	9	6	65	-10	6	5	4	2	1	-2	-5	-6	-6	-6	-5	-3	0
6	7	6	65	0	3	2	1	1	1	-1	-3	-3	-4	-4	-3	-2	1
4	5	6	65	10	3	2	1	1	1	0	-1	-2	-3	-3	-2	-1	0
3	4	6	65	20	3	0	0	1	1	2	1	1	-1	-2	-2	-3	-1
1	2	6	65	30	1	0	0	1	2	2	2	1	0	-1	-2	-2	-2
1	2	6	65	40	3	2	2	3	3	2	1	1	-1	-3	-4	-5	0
1	3	6	65	50	1	0	1	1	2	2	2	1	0	-1	-1	-1	-1
-1	0	6	65	60	1	2	2	2	2	2	1	1	-1	-2	-3	-3	-2
1	1	6	65	70	3	2	1	1	0	-1	-1	1	-2	-4	-4	-2	1
2	3	6	65	80	2	0	-1	-1	-2	-2	-1	0	-1	0	1	1	0
1	2	6	70	-80	-1	-1	1	2	2	3	3	2	1	1	0	-1	-2
-1	-2	6															-3

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10									
1 ST	6	75	20	3	2	2	3	2	1	0	0	-1	-2	-2	-3	-2	-2	-2	-2
0	2																		
1 ST	6	75	30	1	-1	-1	1	0	-1	1	2	2	1	0	-1	-1	-1	-2	-1
1	2																		
1 ST	6	75	40	-5	-7	-4	0	2	3	5	8	9	7	4	1	0	-2	-4	-5
-6	-5																		
1 ST	6	75	50	1	-1	-1	2	2	1	1	1	1	1	-2	-2	-1	-1	-2	-1
1	1																		
1 ST	6	75	60	0	-1	-1	-1	-1	-2	-1	1	2	1	0	1	1	1	0	1
2	1																		
1 ST	6	75	70	10	9	4	2	3	3	0	-4	-6	-7	-8	-7	-3	0	1	1
3	7																		
1 ST	6	75	80	6	6	2	-2	0	2	1	-4	-7	-8	-5	-4	-3	0	3	4
4	5																		
1 ST	6	80	-80	5	5	4	1	1	-1	-1	-1	-1	-1	-2	-3	-3	-3	-1	-1
0	3																		
1 ST	6	80	-70	9	11	10	7	3	0	-3	-5	-7	-7	-7	-7	-7	-5	-2	-2
2	5																		
1 ST	6	80	-60	7	9	9	7	4	2	-1	-2	-4	-5	-5	-6	-6	-5	-4	-2
1	5																		
1 ST	6	80	-50	3	4	4	2	1	0	-1	0	-1	0	-1	-1	-1	-2	-2	-2
0	2																		
1 ST	6	80	-40	-1	-2	-3	-4	-4	-3	-1	3	5	7	6	4	2	-1	-2	-2
-1	-1																		
1 ST	6	80	-30	-2	-4	-5	-4	-3	0	2	4	5	4	3	2	1	0	0	1
0	-1																		
1 ST	6	80	-20	-4	-4	-2	-1	2	4	6	6	5	4	2	1	-1	-2	-2	-3
-4	-4																		
1 ST	6	80	-10	-3	-1	1	2	4	5	5	5	4	3	1	-1	-2	-4	-5	-5
-5	-4																		
1 ST	6	80	0	1	2	2	3	3	2	2	1	0	-1	-2	-2	-3	-3	-2	-2
-1	0																		
1 ST	6	80	10	5	6	4	2	1	1	0	-1	-1	-1	-2	-4	-7	-7	-3	0
2	4																		
1 ST	6	80	20	8	9	6	6	6	4	1	-2	-3	-4	-4	-2	-2	-4	-8	-10
-6	3																		
1 ST	6	80	30	2	-1	-1	1	2	1	1	2	2	1	-1	0	-1	-4	-6	-4
4	2																		
1 ST	6	80	40	-10	-10	-5	4	7	7	7	13	17	12	5	0	-1	-4	-10	-14
12	-9																		
1 ST	6	80	50	2	-2	0	5	6	1	-3	-2	2	2	-2	-4	-4	-4	-4	-2
3	5																		
1 ST	6	80	60	1	0	1	1	1	-2	-6	-6	-3	2	4	3	2	1	-1	-1
1	2																		
1 ST	6	80	70	12	10	4	2	4	5	1	-6	-8	-7	-7	-9	-8	-4	1	1
3	7																		
1 ST	6	80	80	8	7	2	-1	2	5	2	-5	-10	-10	-6	-5	-4	-1	4	5
4	6																		
1 ST	6	85	-80	8	8	7	5	0	0	-3	-3	-3	-2	-2	-3	-4	-4	-3	0
1	5																		
1 ST	6	85	-70	14	17	16	13	8	2	-2	-7	-8	-10	-10	-10	-9	-9	-5	-1
4	8																		

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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10	11	12									
1 ST	6	90	30	5	-1	-1	4	5	2	2	5	4	1	-3	-1	-3	-10	-17	-12		
3	10	6	90	40	-2	-3	4	17	16	6	2	12	20	10	-7	-13	-8	-9	-16	-19	
10	0	6	90	50	3	-5	-3	8	11	0	-8	-4	5	6	-3	-8	-8	-8	-9	-3	
8	11	6	90	60	4	6	7	7	1	-10	-12	-7	1	6	5	3	2	-1	-5	-7	
-4	0	6	90	70	19	16	2	-1	8	12	3	-13	-17	-11	-8	-11	-12	-5	2	0	
1 ST	1	10	6	90	80	10	9	-1	-5	5	16	10	-7	-19	-19	-11	-9	-6	3	11	9
4	4	7	20	-80	13	14	12	8	4	0	-4	-7	-8	-9	-9	-10	-9	-7	-3	1	
6	10	7	20	-70	18	16	13	7	2	-3	-9	-13	-14	-15	-13	-12	-8	-3	2	7	
12	16	7	20	-60	18	15	9	3	-2	-8	-14	-18	-20	-19	-16	-11	-4	4	10	16	
1 ST	19	7	20	-50	15	11	6	1	-3	-8	-13	-16	-17	-16	-13	-8	-2	5	11	15	
17	17	7	20	-40	11	7	3	-1	-3	-6	-8	-9	-9	-9	-7	-5	-2	2	6	9	
11	12	7	20	-30	4	3	1	0	0	0	-1	-1	-1	-2	-3	-3	-2	0	2	2	
1 ST	7	4	5	7	20	-20	-1	0	1	2	3	4	3	2	-1	-1	-3	-3	-3	-2	
-2	-1	7	20	-10	-2	-1	-1	0	1	2	2	2	2	2	0	0	0	-1	-2	-2	
-2	-2	7	20	0	-1	-1	-1	-1	1	1	1	1	1	1	1	1	0	1	1	-2	-1
-1	-1	7	20	10	0	0	0	1	1	1	1	2	1	1	-1	0	-1	1	-2	-3	
0	-1	7	20	20	4	3	2	3	4	4	5	4	1	0	-2	-5	-6	-5	-8	-5	
0	-1	7	20	30	3	5	6	6	4	6	7	5	5	1	-1	-8	-11	-10	-11	-6	
-3	-1	7	20	40	1	2	4	3	2	5	5	3	5	4	2	-6	-10	-6	-7	-4	
-2	1	7	20	50	2	1	1	1	-1	2	3	2	2	3	1	-3	-5	-2	-2	-3	
-2	1	7	20	60	1	1	0	0	1	3	4	3	2	2	1	-3	-4	-2	-2	-3	
-3	0	7	20	70	0	0	1	1	2	3	4	4	3	2	0	-3	-3	-3	-2	-3	
-3	-1	7	20	80	-1	0	0	1	2	2	3	2	2	2	0	-1	-2	-2	-2	-2	
-2	-1	7	25	-80	4	2	-1	-4	-5	-7	-8	-6	-4	-2	0	2	4	5	6	6	
6	6	7	25	-70	6	1	-4	-9	-12	-16	-16	-13	-8	-3	3	7	11	12	13	13	
11	9	7	25	-60	6	0	-6	-11	-13	-17	-18	-18	-14	-8	-2	5	13	18	20	20	
17	12	7	25	-50	6	0	-6	-11	-13	-17	-18	-18	-14	-8	-2	5	13	18	20	20	

START COL	1	2	3	4	5	6	7	8	9	10									
1 ST	7	25	-50	6	0	-6	-9	-10	-13	-15	-15	-13	-9	-4	2	9	15	19	19
16	11	7	25	-40	2	-2	-6	-8	-7	-7	-7	-6	-5	-2	0	2	5	7	10
1 ST	7	25	-30	0	-2	-3	-3	-2	-1	0	1	1	1	1	0	1	1	1	2
9	7	25	-20	-1	-2	-1	0	1	3	3	3	3	3	2	1	1	-1	-1	-2
1 ST	7	25	-10	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	0	-1	-1
1	7	25	0	-1	-1	0	0	0	1	1	1	1	1	1	1	1	0	0	-1
1 ST	7	25	10	0	0	0	1	0	-1	1	1	1	1	1	1	0	-1	0	-1
1	7	25	20	2	1	2	2	3	2	3	3	3	2	1	-1	-2	-2	-5	-4
1 ST	7	25	30	1	3	3	3	2	4	4	4	4	3	1	-1	-4	-5	-5	-4
1	7	25	40	2	3	3	2	2	3	4	3	3	3	0	-1	-5	-6	-4	-3
1 ST	7	25	50	2	2	1	1	2	2	3	3	3	3	1	-2	-4	-4	-3	-2
1	7	25	60	0	1	1	1	3	3	4	5	3	3	1	-4	-4	-4	-4	-4
1 ST	7	25	70	-1	1	1	2	3	3	4	5	4	3	0	-3	-4	-4	-5	-4
1	7	25	80	-1	1	2	1	1	2	2	3	3	3	2	1	-1	-3	-3	-2
1 ST	7	30	-80	-7	-10	-10	-11	-11	-7	-6	-1	3	7	10	12	13	11	10	6
1	7	30	-70	-14	-18	-20	-20	-19	-15	-10	-3	6	15	20	23	24	21	15	8
1 ST	7	30	-60	-18	-23	-24	-23	-20	-15	-9	-2	6	15	22	26	27	26	19	9
1	7	30	-50	-13	-19	-19	-19	-16	-13	-9	-4	2	8	13	18	22	22	19	12
1 ST	7	30	-40	-10	-15	-17	-15	-10	-6	-3	0	4	8	11	13	14	13	10	7
1	7	30	-30	-8	-10	-9	-7	-3	0	3	5	5	6	6	6	5	4	3	0
1 ST	7	30	-20	-4	-5	-4	-2	0	2	3	3	3	4	3	3	1	1	0	-1
1	7	30	-10	-2	-2	-2	-1	-1	1	1	1	1	1	2	2	1	1	-1	-1
1 ST	7	30	0	-2	-2	-1	0	1	-1	0	1	1	1	1	1	0	1	0	0
1	7	30	10	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	-1
1 ST	7	30	20	-1	0	1	1	2	1	1	2	1	1	1	0	-1	-2	-2	-2
1	7	30	30	0	1	2	2	3	3	3	3	2	0	-1	-2	-3	-3	-3	-3
1 ST	7	30	30	0	1	2	2	3	3	3	3	2	0	-1	-2	-3	-3	-3	-3
1	7	30	30	0	1	2	2	3	3	3	3	2	0	-1	-2	-3	-3	-3	-3

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10						
1 ST 7	30	40	1	1	2	2	3	3	3	2	0	0	-2	-3	-3	-2
-2 -1	7	30	50	1	1	1	1	2	2	2	1	0	-1	-2	-2	-1
-1 0	7	30	60	-1	-1	0	2	2	3	3	2	1	-1	-2	-2	-2
-1 -1	7	30	70	-1	0	1	1	2	3	3	2	1	-1	-3	-3	-3
-1 0	7	30	80	0	2	3	1	1	2	1	2	0	-1	-1	-1	-3
-3 -1	7	35	-80	-9	-11	-13	-9	-11	-3	-4	0	5	8	9	12	11
-1 -6	7	35	-70	-17	-19	-20	-18	-17	-11	-5	2	10	16	20	22	21
-5 -12	7	35	-60	-26	-27	-25	-22	-18	-10	-1	9	17	24	28	27	25
12 -20	7	35	-50	-29	-30	-27	-21	-12	-5	4	12	19	25	28	27	24
13 -23	7	35	-40	-23	-24	-21	-14	-6	1	7	12	16	18	20	19	16
1 ST 7	35	-30	-13	-13	-10	-6	-2	3	6	8	9	10	10	9	8	5
1 ST 7	35	-20	-5	-4	-2	0	2	3	3	3	3	3	4	4	3	2
-2 -4	7	35	-10	-2	-2	-1	0	1	1	1	1	0	1	2	2	2
-1 -2	7	35	0	-2	-1	-1	0	0	1	1	0	-1	0	1	1	1
0 -2	7	35	10	-1	-1	0	0	0	1	1	0	-1	-1	0	0	0
-1 -1	7	35	20	-1	-1	0	1	1	1	1	1	0	0	0	-1	-1
-1 -1	7	35	30	-1	0	1	1	2	1	2	1	1	0	0	-1	-2
-1 0	7	35	40	-1	0	1	1	1	1	1	1	0	0	0	-1	-1
0 0	7	35	50	1	1	0	0	0	1	1	0	0	-1	-1	-1	0
0 0	7	35	60	1	1	1	0	1	1	1	0	0	-1	-2	-1	0
1 1	7	35	70	1	1	1	1	1	0	0	1	0	0	-1	-2	-1
1 0	7	35	80	2	4	6	2	0	1	-1	-1	-2	-2	-2	-1	-2
-2 1	7	40	-80	-5	-7	-8	-6	-9	-4	-4	0	3	5	7	8	7
1 -2	7	40	-70	-14	-15	-15	-15	-12	-6	-1	4	10	13	16	15	13
-5 -10	7	40	-60	-22	-21	-18	-16	-11	-4	3	11	18	22	24	21	18
14 -18	7	40	-50	-25	-24	-20	-14	-7	0	8	15	21	24	25	22	17
17 -23	7	40														

START
 COL

	1	2	3	4	5	6	7	8	9	0								
1 ST	7	55	-30	0	2	5	6	7	7	5	3	1	-1	-3	-5	-6	-5	-4
-3	-2																	
1 ST	7	55	-20	2	2	3	4	3	2	0	-1	-1	-2	-2	-3	-2	-1	-1
0	1																	
1 ST	7	55	-10	2	1	1	1	2	0	-1	-1	-1	0	-2	-2	-1	-1	0
1	1																	
1 ST	7	55	0	1	1	0	1	1	-1	-1	-1	0	-1	-1	-1	-1	0	1
1	1																	
1 ST	7	55	10	1	1	0	1	1	0	-1	-2	-1	-1	-2	-1	0	1	2
2	2																	
1 ST	7	55	20	2	1	1	1	1	-1	-1	-2	-2	-2	-2	0	1	2	2
2	2																	
1 ST	7	55	30	2	1	1	2	1	1	0	-1	-1	-3	-3	-2	-1	0	1
1	2																	
1 ST	7	55	40	1	1	1	1	1	1	1	1	1	-1	-2	-2	-1	-1	-1
1	1																	
1 ST	7	55	50	0	1	1	1	1	1	1	1	1	-1	-2	-2	-1	-1	-1
1	1																	
1 ST	7	55	60	-3	-3	-3	-2	-1	1	2	2	2	2	2	1	1	1	0
0	-2																	
1 ST	7	55	70	-3	-3	-2	-1	1	2	3	3	2	2	2	1	1	0	1
-1	-3																	
1 ST	7	55	80	1	-6	-11	-2	0	2	2	3	3	2	2	2	-1	-2	1
1	2																	
1 ST	7	60	-80	-6	-6	-6	-5	-3	1	3	5	6	5	5	4	3	1	-2
-3	-5																	
1 ST	7	60	-70	-6	-5	-4	-2	1	4	6	7	6	3	3	2	1	0	-4
-6	-7																	
1 ST	7	60	-60	-4	-3	-1	1	5	9	10	9	5	1	-1	-3	-4	-4	-5
-5	-5																	
1 ST	7	60	-50	0	1	4	5	9	12	11	8	3	-3	-7	-9	-8	-7	-5
-4	-2																	
1 ST	7	60	-40	5	6	8	10	11	10	7	4	0	-5	-9	-12	-12	-10	-7
-1	2																	
1 ST	7	60	-30	6	7	8	8	8	5	2	-1	-4	-6	-8	-9	-8	-6	-4
2	4																	
1 ST	7	60	-20	5	5	5	5	3	1	-2	-4	-4	-5	-5	-5	-3	-1	0
4	4																	
1 ST	7	60	-10	3	3	3	3	3	1	-2	-3	-2	-2	-3	-3	-2	0	1
2	3																	
1 ST	7	60	0	2	2	2	3	3	1	-1	-2	-1	-2	-3	-3	-2	-1	0
1	1																	
1 ST	7	60	10	2	1	2	3	2	1	-1	-2	-1	-2	-3	-3	-2	-1	1
2	2																	
1 ST	7	60	20	1	1	1	3	2	1	0	-1	-1	-2	-3	-3	-1	0	1
2	2																	
1 ST	7	60	30	1	1	2	3	3	3	2	1	1	-1	-2	-4	-4	-3	-1
1	1																	
1 ST	7	60	40	1	0	1	2	2	2	2	2	2	0	-1	-2	-3	-2	-2
0	1																	
1 ST	7	60	50	0	1	1	1	1	1	1	1	1	1	0	-1	-1	-2	-2
-1	0																	

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MEMBER: SCIDAT9

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0	1																		
1 ST	7	60	70	1	0	0	1	1	2	1	0	-1	-1	-2	-2				
0	1																		
1 ST	7	60	80	-1	-1	0	-1	-2	1	2	2	1	0	1	-1	-1			
-1	-1																		
1 ST	7	65	-80	-4	-5	-4	-3	0	3	5	7	6	4	3	2	1	0	-1	-3
-4	-4																		
1 ST	7	65	-70	-3	-2	0	1	3	6	8	7	4	1	-1	-2	-2	-3	-4	-4
-4	-4																		
1 ST	7	65	-60	1	2	3	5	7	9	9	6	1	-3	-6	-6	-5	-5	-4	-4
-2	0																		
1 ST	7	65	-50	4	4	6	7	9	10	9	4	-2	-7	-10	-11	-10	-7	-5	-2
0	3																		
1 ST	7	65	-40	8	8	9	10	10	8	5	1	-4	-9	-11	-13	-12	-8	-5	-2
2	5																		
1 ST	7	65	-30	8	8	9	8	6	3	-1	-4	-6	-8	-9	-9	-8	-5	-2	2
4	7																		
1 ST	7	65	-20	6	5	5	5	3	1	-3	-5	-6	-6	-6	-5	-4	-1	1	3
5	6																		
1 ST	7	65	-10	4	4	4	4	4	2	-2	-5	-4	-3	-4	-4	-4	-2	-1	1
2	4																		
1 ST	7	65	0	3	3	3	3	3	2	-1	-3	-3	-2	-3	-4	-3	-2	-1	0
1	2																		
1 ST	7	65	10	2	2	2	3	3	2	0	-1	-2	-2	-4	-4	-3	-1	-1	0
2	2																		
1 ST	7	65	20	1	0	2	2	2	2	1	0	0	-1	-2	-4	-3	-2	-2	0
1	1																		
1 ST	7	65	30	0	0	1	2	3	3	3	3	2	1	-1	-3	-4	-4	-3	-1
0	1																		
1 ST	7	65	40	0	-1	1	1	2	2	2	3	3	1	-1	-2	-3	-3	-3	-2
-1	1																		
1 ST	7	65	50	0	0	1	1	1	2	2	2	2	1	1	-1	-2	-2	-3	-3
-2	0																		
1 ST	7	65	60	1	2	1	1	2	2	1	0	-1	-1	-2	-2	-2	-2	-2	-1
0	1																		
1 ST	7	65	70	2	0	1	2	2	2	-1	-2	-1	1	0	-1	-1	-1	-1	-1
2	3																		
1 ST	7	65	80	2	3	2	-1	-3	-2	0	1	0	-3	-2	-2	-1	0	2	2
1	1																		
1 ST	7	70	-80	-3	-3	-2	0	2	4	5	5	4	2	1	0	-1	-1	-2	-2
-3	-3																		
1 ST	7	70	-70	0	1	2	3	5	6	6	3	0	-2	-3	-4	-3	-3	-3	-2
-2	-1																		
1 ST	7	70	-60	3	3	4	6	7	5	4	0	-3	-6	-7	-7	-5	-3	-2	0
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1 ST	7	70	-50	4	4	4	5	6	5	2	-1	-4	-8	-9	-8	-5	-2	0	2
4	4																		
1 ST	7	70	-40	6	5	5	6	6	3	1	-2	-5	-7	-8	-8	-6	-3	-1	2
3	4																		
1 ST	7	70	-30	5	5	5	4	4	2	-1	-3	-4	-6	-6	-5	-4	-2	0	2
4	4																		

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START COL	1	2	3	4	5	6	7	8	9	0										
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4	5	75	80	3	3	1	-1	-3	-2	-1	-2	-3	-5	-3	-3	0	4	7		
6	4	7	80	-80	1	2	3	5	5	4	3	1	-1	-3	-4	-4	-3			
-2	-1	7	80	-70	6	8	9	8	7	4	-1	-4	-7	-9	-8	-6	-3	-1	2	
3	5	7	80	-60	9	9	8	6	2	-3	-8	-13	-15	-14	-10	-5	-1	4	7	8
9	9	7	80	-50	4	2	0	-3	-6	-9	-11	-12	-11	-7	-2	3	7	10	11	11
9	7	7	80	-40	1	-1	-3	-4	-5	-6	-7	-5	-3	-1	3	7	9	9	7	7
6	3	7	80	-30	-1	-2	-2	-3	-3	-2	-2	-1	0	1	3	4	5	4	3	3
2	1	7	80	-20	-2	-2	-2	-1	1	2	3	3	2	2	1	0	-1	-2	-3	-2
-2	-2	7	80	-10	0	1	2	2	3	3	2	2	1	0	-1	-2	-2	-3	-3	-2
-2	-1	7	80	0	4	4	0	-4	-2	3	3	-1	-5	-2	6	4	-2	-6	-4	-2
1	4	7	80	10	5	6	1	-3	-2	2	2	-3	-5	-1	5	4	-2	-5	-4	-2
-1	2	7	80	20	2	2	-1	-4	-3	2	5	2	-2	0	4	4	-2	-7	-6	-1
1	ST	7	80	30	-3	-1	-1	-2	-2	1	3	2	1	3	5	5	0	-3	-2	0
-1	-3	7	80	40	-3	-1	2	3	3	2	3	3	3	2	1	-2	-4	-5	-4	-4
1	ST	7	80	50	1	2	5	6	3	-1	-1	0	1	0	-2	-2	-3	-5	-5	-2
1	ST	7	80	60	4	3	3	4	6	4	-1	-5	-4	-5	-5	-3	0	2	1	1
1	ST	7	80	70	5	4	5	5	3	-3	-8	-9	-7	-6	-6	-4	-1	3	4	4
5	5	7	80	80	2	1	0	-2	-2	-1	-1	-3	-4	-5	-3	-3	-3	0	5	8
7	4	7	85	-80	3	5	5	7	6	5	3	1	-1	-3	-5	-6	-5	-5	-5	-3
-1	0	7	85	-70	9	11	12	10	8	3	-4	-8	-10	-12	-12	-10	-7	-3	0	4
5	8	7	85	-60	12	12	10	6	0	-7	-14	-19	-21	-17	-11	-4	1	7	11	12
13	12	7	85	-50	4	1	-2	-7	-12	-15	-17	-17	-14	-6	2	8	13	16	16	15
11	8	7	85	-40	-2	-4	-7	-9	-10	-10	-9	-9	-5	-1	3	9	13	15	14	9
7	2	7	85	-30	-4	-5	-5	-6	-6	-5	-2	-1	1	3	5	7	8	8	6	3
1	ST	7	85	-20	-5	-5	-4	-3	0	3	5	6	6	5	5	4	2	-1	-2	-3
-4	-5	7	85	-10	-5	-4	-3	0	3	5	6	6	5	5	4	2	-1	-2	-3	-3

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1 ST	7	90	80	-1	-5	-3	1	3	0	-5	-8	-7	-2	-4	-5	0	9	14	
1 11	5																		
1 ST	8	20	-80	20	18	11	4	-3	-7	-11	-12	-13	-12	-11	-9	-7	-3	2	8
1 14	18																		
1 ST	8	20	-70	27	22	11	0	-10	-15	-17	-17	-15	-13	-11	-10	-8	-3	4	14
1 21	27																		
1 ST	8	20	-60	24	15	2	-9	-18	-20	-18	-14	-10	-8	-6	-3	1	9	17	
1 23	27																		
1 ST	8	20	-50	13	6	-4	-13	-17	-16	-11	-5	-1	1	1	0	-1	1	6	12
1 15	16																		
1 ST	8	20	-40	6	2	-3	-7	-9	-8	-4	0	3	4	3	1	-1	-2	1	4
1 6	8																		
1 ST	8	20	-30	2	0	-1	-2	-3	-1	1	4	5	5	3	0	-3	-3	-3	-2
1 0	2																		
1 ST	8	20	-20	-1	-1	0	1	1	2	3	4	5	4	2	0	-2	-4	-4	-4
1 -3	-2																		
1 ST	8	20	-10	-2	-1	-1	1	1	1	2	2	2	2	1	0	0	0	-1	-2
1 -2	-2																		
1 ST	8	20	0	-1	-1	-1	0	0	0	0	1	1	1	0	0	1	1	-1	-1
1 0	-1																		
1 ST	8	20	10	0	0	0	1	1	1	1	1	1	0	-1	-1	-1	1	-2	-2
1 -1	-1																		
1 ST	8	20	20	3	3	2	3	3	3	4	2	1	-1	-5	-3	-4	-7	-5	-5
1 -1	-1																		
1 ST	8	20	30	2	4	5	5	4	6	6	5	5	4	1	-5	-9	-8	-11	-6
1 -1	-1																		
1 ST	8	20	40	-1	1	4	3	2	5	5	3	6	6	3	-4	-7	-5	-7	-5
1 -4	-1																		
1 ST	8	20	50	-1	-1	0	-1	1	3	4	3	3	4	1	-2	-4	-2	-2	-2
1 -3	-2																		
1 ST	8	20	60	-1	-1	-2	-1	1	4	5	4	3	1	-1	-3	-3	-2	-2	-2
1 -2	-2																		
1 ST	8	20	70	-2	-2	-2	-1	1	3	4	4	3	2	0	-2	-2	-2	-2	-1
1 -2	-1																		
1 ST	8	20	80	-1	-2	-2	-1	0	1	2	2	2	2	1	1	0	0	-1	-1
1 -1	-1																		
1 ST	8	25	-80	9	4	-4	-8	-12	-14	-13	-10	-6	-3	-1	2	4	7	11	13
1 14	12																		
1 ST	8	25	-70	12	3	-9	-17	-22	-22	-19	-12	-6	-1	2	4	6	10	15	19
1 21	18																		
1 ST	8	25	-60	11	0	-12	-20	-24	-23	-17	-8	-2	2	3	3	5	9	15	20
1 21	18																		
1 ST	8	25	-50	7	-2	-12	-18	-19	-16	-9	-1	4	6	5	3	2	4	8	13
1 14	13																		
1 ST	8	25	-40	2	-3	-8	-11	-10	-6	-1	5	8	8	5	2	0	-1	1	4
1 5	5																		
1 ST	8	25	-30	-1	-2	-4	-4	-3	0	3	6	7	6	3	0	-2	-3	-2	-1
1 -1	0																		
1 ST	8	25	-20	-1	-1	0	0	1	2	3	4	4	3	2	0	-1	-2	-3	-3
1 -2	-2																		
1 ST	8	25	-10	-1	-1	0	0	1	1	1	1	1	1	1	1	0	0	-1	-1
1 -1	-1																		

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START COL	1	2	3	4	5	6	7	8	9	0
1 ST	8	25	0	0	0	0	0	0	0	0
1 O	0	0	0	0	0	0	0	0	0	0
1 ST	8	25	10	1	0	0	1	1	0	0
1 O	0	0	0	0	1	1	0	0	0	0
1 ST	8	25	20	2	0	2	2	1	2	2
1 -1	-2	0	2	2	1	2	3	2	2	1
1 ST	8	25	30	1	2	3	2	1	3	2
1 -5	-2	0	1	2	3	4	3	2	1	2
1 ST	8	25	40	0	1	2	2	3	3	2
1 -4	-2	0	1	2	3	4	3	2	0	3
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1 6	2	30	-80	0	-5	-9	-10	-12	-9	-11
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1 7	-1	30	-70	-9	-16	-20	-21	-19	-14	-7
1 ST	8	30	-60	-16	-23	-25	-22	-17	-9	0
1 2	-6	30	-60	-16	-23	-25	-22	-17	-9	0
1 ST	8	30	-50	-5	-13	-17	-17	-14	-9	-3
1 7	2	30	-50	-5	-13	-17	-17	-14	-9	-3
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1 2	0	30	-40	-4	-9	-12	-12	-9	-3	4
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1 -1	-2	30	-30	-4	-5	-7	-5	-2	2	6
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1 -2	-2	30	60	-1	0	1	1	2	3	4
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1 -2	-1	30	70	1	0	1	1	1	2	3
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3 3																					
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1 ST	8	20	3	6	7	8	8	7	2	-5	-8	-5	-2	-2	-5	-8	-6	-2							
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1	ST	9	20	-20	-1	-1	0	0	0	1	0	2	2	2	1	2	1	-1	-1	-1
-2																				
1	ST	9	20	-10	-1	-1	0	0	1	1	1	1	1	1	1	1	0	0	-1	-1
-1																				
1	ST	9	20	0	-1	-1	0	0	1	1	1	1	1	1	0	0	0	0	-1	-1
-1																				
1	ST	9	20	10	0	-1	0	0	1	2	2	2	2	1	0	-1	0	0	-2	-2
0																				
1	ST	9	20	20	1	1	1	1	0	2	2	4	4	3	1	-2	-2	-3	-6	-3
-2																				
1	ST	9	20	30	-1	0	1	2	1	2	4	4	6	5	3	-1	-4	-5	-7	-4
-3																				
1	ST	9	20	40	-2	-1	-1	0	0	1	1	0	2	3	2	-1	-2	0	-2	2
1																				
1	ST	9	20	50	1	0	-1	-2	-1	1	1	0	0	-1	-2	-3	-3	0	1	4
4																				
1	ST	9	20	60	2	1	0	0	2	4	5	4	1	-1	-3	-5	-6	-4	-1	1
2																				
1	ST	9	20	70	0	0	0	1	3	4	5	5	2	0	-2	-4	-5	-4	-2	-1
-1																				
1	ST	9	20	80	0	0	1	2	2	2	2	2	2	1	-1	-2	-2	-2	-2	-1
-1																				
1	ST	9	25	-80	-6	-14	-22	-28	-31	-30	-24	-13	-2	9	18	24	27	28	26	20
12																				
1	ST	9	25	-70	-8	-21	-31	-40	-44	-44	-36	-21	-5	12	27	36	42	43	40	31
19																				
1	ST	9	25	-60	-8	-21	-32	-41	-45	-45	-38	-23	-6	11	26	38	44	46	43	33
20																				
1	ST	9	25	-50	-7	-17	-25	-32	-35	-34	-28	-16	-3	10	21	29	33	34	31	24
14																				
1	ST	9	25	-40	-5	-9	-12	-15	-15	-14	-10	-5	1	6	10	13	15	15	13	9
5																				
1	ST	9	25	-30	-2	-3	-4	-4	-4	-3	-2	1	2	3	4	4	4	3	2	1
0																				
1	ST	9	25	-20	-1	-1	0	0	0	1	1	1	1	1	1	1	1	0	0	-1
-1																				
1	ST	9	25	-10	-1	0	1	1	1	1	1	1	1	0	0	0	0	0	-1	-1
-1																				
1	ST	9	25	0	-1	0	0	1	1	1	2	1	1	0	0	0	0	0	0	0
0																				
1	ST	9	25	10	0	0	0	0	0	1	2	2	2	1	0	0	-1	0	-1	-1
0																				
1	ST	9	25	20	1	1	1	1	1	1	2	3	2	3	1	0	-1	-1	-4	-3
-1																				
1	ST	9	25	30	0	0	0	1	0	1	3	3	4	3	2	0	-2	-2	-3	-3
-3																				
1	ST	9	25	40	0	0	-1	-1	0	0	1	1	1	1	0	-1	-1	1	1	1
-1																				

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0						
1 ST 9	50	-20	-1	0	0	1	3	2	2	1	1	-1	-2	-2	-2	-1
-1																
1 ST 9	50	-10	0	0	1	2	2	2	1	1	0	0	-1	-2	-1	-1
0																
1 ST 9	50	0	0	1	1	2	2	2	1	0	0	0	-1	-1	-1	-1
0																
1 ST 9	50	10	0	1	2	2	2	2	1	1	0	-1	-1	-1	-1	-1
0																
1 ST 9	50	20	1	1	1	1	1	0	0	0	-1	-1	0	0	0	0
0																
1 ST 9	50	30	0	0	0	0	0	-1	0	0	0	0	0	0	0	0
0																
1 ST 9	50	40	-1	-1	-1	-1	-1	0	1	1	2	2	2	1	1	0
0																
1 ST 9	50	50	-1	-1	-1	-1	-1	-1	0	0	1	2	3	3	1	0
-1																
1 ST 9	50	60	-2	-2	-2	-2	-2	-1	-1	0	1	2	3	4	3	2
0																
1 ST 9	50	70	-2	-3	-3	-2	-1	0	-1	0	1	2	3	3	3	1
0																
1 ST 9	50	80	0	-2	-3	-2	1	1	2	2	2	2	2	0	-2	0
0																
1 ST 9	55	-80	-12	-5	0	5	10	14	18	19	16	11	4	-1	-6	-10
17	-15															
1 ST 9	55	-70	-18	-8	1	9	17	24	28	28	24	17	9	0	-9	-16
27	-24															
1 ST 9	55	-60	-21	-11	-1	7	16	23	30	35	27	20	3	-6	-15	-14
25	-22															
1 ST 9	55	-50	-11	-6	-1	8	14	18	20	19	16	10	3	-2	-7	-12
18	-16															
1 ST 9	55	-40	-5	-3	1	5	7	9	9	7	6	4	2	-1	-3	-5
-8																
1 ST 9	55	-30	-1	-1	0	1	2	2	1	1	1	2	1	0	-1	-1
-2																
1 ST 9	55	-20	0	-1	0	1	2	1	0	0	1	1	0	-1	-1	0
0																
1 ST 9	55	-10	0	0	0	1	1	1	0	0	1	1	0	-1	-1	0
0																
1 ST 9	55	0	1	0	1	1	2	1	0	1	1	0	-1	-2	-1	-1
0																
1 ST 9	55	10	0	0	1	2	2	2	1	1	1	0	-1	-2	-2	-1
-1																
1 ST 9	55	20	0	0	1	2	1	1	1	1	1	0	0	-1	-1	-1
0																
1 ST 9	55	30	0	0	1	1	1	1	0	1	0	0	0	0	0	-1
0																
1 ST 9	55	40	-1	-1	-1	-1	-1	0	0	1	1	2	1	1	1	0
0																
1 ST 9	55	50	-1	-1	0	0	0	0	0	0	1	1	2	2	1	0
-1																
1 ST 9	55	60	-2	-3	-2	-1	0	1	1	1	1	2	2	2	1	-1
-2																

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0							
1 ST	9	65	-10	1	0	0	0	-1	-2	-2	-2	-1	-1	0	2	2	2
2	2	65	0	1	0	0	1	0	-1	-1	-1	-1	-1	0	1	2	2
1 ST	9	65	10	0	0	0	1	1	0	0	-1	-1	-1	-1	1	1	1
2	1	65	20	1	1	1	2	1	1	1	1	1	0	-1	-2	-1	-1
1 ST	9	65	30	0	2	2	3	3	2	1	1	0	-1	-2	-3	-2	-2
2	0	65	40	0	1	2	3	3	2	0	1	0	-1	-1	-2	-2	-2
1 ST	9	65	50	0	2	2	2	2	1	1	1	0	0	0	0	-2	-2
2	0	65	60	-1	0	1	1	2	1	1	1	2	1	0	0	-2	-2
1 ST	9	65	70	0	1	1	0	0	1	1	1	1	1	1	0	-1	-2
2	0	65	80	0	-1	-2	-3	-2	0	1	1	0	0	1	1	1	0
1 ST	9	70	-80	2	7	11	13	13	9	5	-1	-4	-8	-10	-12	-11	-10
2	0	70	-70	2	8	13	15	15	14	4	-2	-5	-8	-11	-13	-13	-10
1 ST	9	70	-60	1	5	9	11	12	11	9	4	-1	-3	-6	-8	-10	-8
2	0	70	-50	-2	1	5	7	9	9	7	3	0	-4	-7	-8	-8	-6
1 ST	9	70	-40	1	2	3	5	6	6	5	4	0	-2	-4	-5	-5	-4
2	0	70	-30	3	3	3	3	3	2	0	-1	-2	-3	-3	-2	-1	0
1 ST	9	70	-20	1	1	1	0	0	0	-2	-2	-2	-1	-1	0	0	1
2	1	70	-10	1	1	1	0	-1	0	-1	-2	-2	0	0	1	1	1
1 ST	9	70	0	1	1	1	0	-1	-1	-2	-2	-1	-1	0	0	1	1
2	1	70	10	1	1	1	0	-1	-1	-2	-2	-1	0	1	1	2	1
1 ST	9	70	20	2	2	2	1	0	0	-1	-1	-1	-1	-1	-1	0	0
2	0	70	30	1	2	3	3	2	1	0	0	0	-1	-1	-1	-2	-1
1 ST	9	70	40	0	1	2	3	3	1	0	0	0	-1	-1	-1	-1	-2
2	0	70	50	-1	-1	0	0	0	0	1	1	1	1	1	0	0	-1
1 ST	9	70	60	-1	-1	-1	-1	0	0	1	2	2	2	1	0	0	-1
2	0	70	70	1	1	0	-1	-2	-2	-1	0	1	2	1	1	0	0
1 ST	9	70	70	1	1	0	-1	-2	-1	-1	0	1	2	1	1	0	0
2	0	70	70	1	1	0	-1	-2	-1	-1	0	1	2	1	1	0	0

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DATASET: CWEJ412.GRAMDD90.DATA
MEMBER: SCIDAT9

START
COL

	1	2	3	4	5	6	7	8	9	0
1 ST 9 70 80 0 -1 -2 -2 -3 -2 -1 0 1 1 1 3 4 3 2 0										
0 0 5 8 10 12 10 7 4 -1 -5 -7 -9 -10 -10 -8 -6 -2										
1 ST 9 75 -80 5 8 10 12 10 7 4 -1 -5 -7 -9 -10 -10 -8 -6 -2										
1 3 7 5 -70 8 11 14 14 12 8 3 -3 -8 -10 -11 -13 -12 -9 -5 -1										
2 4 7 5 -60 7 7 8 9 7 4 2 -3 -6 -8 -9 -9 -7 -3 1										
5 6 7 5 -50 1 2 4 5 6 5 4 3 0 -3 -5 -6 -6 -4 -2										
1 ST 9 75 -40 1 2 2 3 4 4 3 2 -1 -2 -3 -3 -3 -4 -4 -1										
0 0 7 5 -30 2 3 2 2 3 3 1 0 -2 -3 -2 -2 -2 -1 0										
1 ST 9 75 -20 0 1 0 0 0 0 0 1 1 -1 0 0 1 0 0 -1 0										
0 0 7 5 -10 0 1 0 -1 -1 0 0 0 -1 -1 0 0 0 1 1										
1 ST 9 75 0 1 2 1 0 0 0 0 -1 -2 -3 -3 -2 0 0 1 2										
1 2 1 7 5 10 1 1 1 0 -1 -2 -2 -4 -4 -3 -1 2 2 3 3										
1 ST 9 75 20 2 3 2 0 -1 -2 -3 -4 -5 -3 0 1 1 2 2 2 2										
3 1 7 5 30 1 2 3 2 1 -1 -2 -2 -4 -4 -3 -1 0 0 0 0										
1 ST 9 75 40 -1 0 1 2 1 1 0 0 0 0 0 0 0 0 0 0 0										
1 -1 0 7 5 50 -2 -2 -2 -2 -1 -1 0 1 2 2 3 3 1 1 0										
1 ST 9 75 60 -2 -2 -2 -2 -2 -2 0 1 2 3 3 3 2 1 1 0 0										
0 -1 7 5 70 1 0 -1 -2 -4 -5 -4 -2 0 2 2 2 2 2 2 2										
1 ST 9 75 80 -1 -2 -2 -3 -4 -4 -4 -1 1 2 3 5 6 5 2 0 0										
0 0 7 5 80 7 8 9 9 6 2 -2 -5 -7 -8 -9 -9 -7 -5 -2 2										
1 ST 9 80 -80 7 8 9 9 6 2 -2 -5 -7 -8 -9 -9 -7 -5 -2 2										
5 7 7 5 80 -70 11 13 13 13 8 3 -3 -7 -12 -12 -13 -13 -11 -6 -1 4										
1 ST 9 80 -60 11 9 7 6 3 -1 -3 -6 -9 -10 -11 -10 -9 -5 0 6										
11 13 7 5 80 -50 4 3 2 1 0 -1 0 -3 -5 -6 -4 -4 -4 1 6										
1 ST 9 80 -40 -1 1 3 2 2 4 4 -1 -4 -2 1 0 -2 -4 -2 1										
1 0 7 5 80 -30 -1 1 2 2 2 5 5 0 -4 -2 1 1 -1 -3 0 0										
1 ST 9 80 -20 -1 0 -1 -2 -1 4 6 4 1 1 2 2 -2 -3 -2 -1										
1 ST 9 80 -10 -1 1 0 -2 -1 2 4 2 4 2 -1 -1 1 1 -2 0 2										
0 -2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0										
1 ST 9	80	0	0	3	3	0	-1	1	-2	-5	-5	-1	1	0	-1	2	4			
3 -1	9	80	10	-1	2	3	0	-3	-2	-5	-8	-6	1	4	2	2	4	6		
1 ST 9	80	20	3	3	3	0	-2	-3	-4	-7	-9	-6	0	4	4	2	3	4		
4 0	9	80	30	0	1	3	3	1	-1	-3	-4	-3	0	2	2	0	0	1		
1 ST 9	80	40	-2	-1	2	3	1	0	1	1	1	-1	-1	1	2	1	-1	-1		
2 1	9	80	50	-4	-4	-2	-3	-4	-1	2	4	4	4	4	4	3	1	0		
-1 -2	9	80	60	-3	-4	-4	-5	-5	-2	1	4	5	5	4	3	3	3	2		
1 ST 9	80	70	1	-1	-2	-3	-5	-6	-6	-3	0	2	3	3	3	3	3	3		
1 -2	9	80	80	-1	-2	-2	-2	-4	-6	-5	-2	1	3	4	6	7	6	2	0	
3 2	9	85	-80	11	8	6	7	1	-7	-9	-11	-10	-9	-8	-6	-1	3	11		
-1 0	9	85	-70	15	17	17	19	7	-3	-10	-15	-19	-17	-16	-17	-14	-5	4	13	
1 ST 9	85	-60	20	11	4	5	-2	-10	-9	-13	-17	-16	-17	-13	-12	-5	3	15		
1 12	11	9	85	-50	5	3	-3	-6	-9	-5	-13	-14	-14	-1	-1	-2	-4	5	18	
1 ST 9	85	-40	-10	-1	3	-3	-3	-1	-2	5	9	-7	-15	-4	13	11	2	-5	-1	5
24 19	9	85	-30	-11	0	3	0	0	11	15	1	-11	-3	13	10	2	-5	1	1	
4 -3	9	85	-20	0	3	-3	-7	-3	11	17	8	-2	-3	5	4	-3	-6	-3	-1	
1 ST 9	85	-10	-2	4	2	-4	-5	6	12	3	-7	-5	6	8	-1	-6	-1	4		
-7 -10	9	85	0	-5	5	6	-2	-7	1	6	-2	-12	-7	7	11	1	-6	1	8	
1 ST 9	85	10	-7	5	10	0	-8	-4	0	-7	-16	-9	9	15	4	-5	3	12		
-2 -9	9	85	20	2	8	9	3	-2	0	-1	-10	-19	-14	2	11	6	-2	-2	3	
1 ST 9	85	30	-1	1	7	9	6	1	-3	-6	-9	-8	-1	4	2	-3	-4	2		
3 0	9	85	40	-4	1	8	9	4	-1	1	3	0	-5	0	3	0	-4	-4		
5 3	9	85	50	-7	-5	0	2	-4	-8	-3	6	8	4	1	3	4	2	-1	-1	
-3 -4	9	85	60	-6	-5	-4	-6	-9	-9	-4	3	8	7	4	2	1	4	7	7	
1 ST 9	85	70	-1	-5	-5	-4	-6	-10	-10	-4	3	6	4	2	3	5	6	7		
0 -3	9	85	80	-3	-3	1	4	1	-5	-5	0	4	5	3	5	6	3	-4	-7	
1 ST 9	85	9	4	1	4	1	4	1	-5	0	4	5	3	5	6	3	-4	-7		
7 4	9	85	0	-3	-3	1	4	1	-5	0	4	5	3	5	6	3	-4	-7		
-3 -2	9	85																		

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START COL	1	2	3	4	5	6	7	8	9	0										
1 ST	10	20	10	0	0	1	1	0	1	2	2	1	1	0	-2	-3				
-2	-1																			
1 ST	10	20	20	-1	0	1	1	1	2	5	5	3	0	1	-1	-6	-5			
-4	-4																			
1 ST	10	20	30	-3	-2	0	2	1	3	4	6	6	5	2	-1	-2	-6	-4		
-5	-6																			
1 ST	10	20	40	-1	-1	-1	-1	1	0	-1	1	2	1	-1	-2	0	-1	3		
3	0																			
1 ST	10	20	50	10	8	4	1	1	1	0	-3	-5	-6	-8	-10	-9	-6	-1	6	
11	11																			
1 ST	10	20	60	16	14	11	7	5	3	2	-1	-6	-10	-12	-16	-16	-12	-6	1	
9	14																			
1 ST	10	20	70	14	15	13	10	7	4	1	-1	-6	-9	-12	-14	-14	-12	-7	-1	
5	11																			
1 ST	10	20	80	8	9	8	7	4	1	-1	-2	-4	-5	-7	-8	-7	-6	-3	0	
3	6																			
1 ST	10	25	-80	4	-2	-10	-16	-19	-18	-15	-10	-5	-2	3	7	11	14	17	17	
15	11																			
1 ST	10	25	-70	8	-2	-14	-24	-29	-29	-25	-17	-10	-4	4	11	17	22	26	27	
23	17																			
1 ST	10	25	-60	8	-2	-14	-25	-30	-31	-27	-19	-12	-5	3	12	19	24	28	28	
25	17																			
1 ST	10	25	-50	5	-2	-12	-20	-24	-24	-20	-14	-8	-2	3	10	15	19	22	22	
19	13																			
1 ST	10	25	-40	1	-3	-7	-11	-11	-9	-6	-3	-1	0	1	4	6	8	10	10	
8	5																			
1 ST	10	25	-30	0	-1	-2	-2	-1	0	0	1	1	0	0	1	1	1	2	2	
1	0																			
1 ST	10	25	-20	0	0	1	2	2	1	0	0	0	1	-1	0	-1	-1	-1	-1	
-1	0																			
1 ST	10	25	-10	0	0	1	1	1	0	0	-1	0	1	0	0	0	0	0	-1	
-1	0																			
1 ST	10	25	0	0	0	1	1	1	1	0	1	0	0	0	0	0	-1	-1	-1	
-1	0																			
1 ST	10	25	10	-1	0	0	1	1	0	0	2	1	2	1	1	0	0	-2	-2	
1 ST	10	25	20	-1	-1	0	1	1	1	2	4	4	4	3	1	0	1	-5	-4	
-2	-1																			
1 ST	10	25	30	-3	-2	-1	0	0	2	3	4	5	5	4	2	0	0	-3	-3	
-3	-3																			
1 ST	10	25	40	0	-1	-3	-4	-4	-3	-2	-1	0	1	1	1	1	4	4	5	
-5	-4																			
1 ST	10	25	50	13	8	2	-3	-6	-8	-9	-10	-10	-11	-10	-8	-4	2	9	15	
3	2																			
1 ST	10	25	60	24	19	10	2	-4	-8	-11	-14	-18	-18	-17	-12	-4	6	17	17	
17	16																			
1 ST	10	25	70	26	21	14	7	0	-6	-10	-14	-18	-20	-19	-14	-6	3	13	13	
24	26																			
1 ST	10	25	80	16	12	9	6	0	-4	-8	-10	-12	-13	-10	-7	-1	3	9	9	
20	25																			
1 ST	10	30	-80	0	-3	-6	-5	-9	-9	-11	-6	-3	3	7	7	10	11	8	7	
12	14																			
1 ST	10																			
3	0																			

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START COL	1	2	3	4	5	6	7	8	9	0								
1 ST 10	35	20	-1	-1	0	0	2	3	3	3	3	2	1	0	0	-2	-2	-3
-3 -2																		
1 ST 10	35	30	-4	-4	-3	-2	0	2	3	4	4	5	4	3	2	0	-2	
-3 -3																		
1 ST 10	35	40	-4	-8	-10	-11	-10	-9	-6	-3	0	4	7	10	11	11	10	7
3 0																		
1 ST 10	35	50	3	-5	-12	-18	-22	-23	-22	-18	-13	-6	3	12	19	24	27	24
18 11																		
1 ST 10	35	60	17	3	-11	-22	-30	-35	-36	-34	-29	-21	-8	7	21	33	41	42
38 29																		
1 ST 10	35	70	25	11	-4	-16	-27	-34	-38	-38	-35	-28	-17	-2	14	28	39	44
43 36																		
1 ST 10	35	80	17	12	4	-6	-15	-21	-25	-26	-24	-20	-13	-3	9	19	23	26
23 21																		
1 ST 10	40	-80	-8	-6	-4	-3	1	0	2	3	6	6	6	7	5	2	0	-2
-5 -6																		
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14 -16																		
1 ST 10	40	-60	-19	-16	-11	-5	0	4	9	13	16	20	21	18	11	2	-7	-14
19 -20																		
1 ST 10	40	-50	-17	-14	-10	-5	0	6	10	14	16	17	16	13	8	1	-6	-12
16 -17																		
1 ST 10	40	-40	-11	-9	-6	-2	1	5	7	9	10	11	10	7	4	0	-5	-8
10 -11																		
1 ST 10	40	-30	-4	-2	-1	1	3	3	4	4	4	4	2	1	0	-2	-3	-4
-4 -4																		
1 ST 10	40	-20	0	1	2	3	3	2	2	1	0	-1	-1	-1	-2	-2	-1	-1
-1 0																		
1 ST 10	40	-10	0	1	2	2	2	2	2	1	0	-1	-1	-1	-1	-1	-1	0
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-1 0																		
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-2 -2																		
1 ST 10	40	30	-4	-4	-3	-2	0	2	3	4	4	4	4	4	3	2	0	-1
-2 -3																		
1 ST 10	40	40	-5	-8	-10	-10	-9	-7	-4	-1	2	5	8	10	11	10	8	5
1 1																		
1 ST 10	40	50	-3	-10	-16	-19	-20	-20	-18	-13	-7	0	8	16	22	24	23	18
12 4																		
1 ST 10	40	60	4	-8	-18	-25	-30	-31	-30	-26	-20	-10	2	16	28	35	38	35
27 16																		
1 ST 10	40	70	8	-4	-14	-22	-27	-30	-30	-28	-23	-15	-4	9	22	32	37	37
31 21																		
1 ST 10	40	80	6	0	-6	-12	-15	-17	-17	-15	-13	-9	-3	5	12	17	20	21
16 13																		
1 ST 10	45	-80	-9	-7	-4	-3	2	2	5	6	8	7	6	6	3	-1	-3	-5
-6 -8																		
1 ST 10	45	-70	-16	-12	-7	-2	3	7	10	13	14	15	14	11	6	-1	-7	-13
17 -17																		

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START COL	1	2	3	4	5	6	7	8	9	0									
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21 -21	45	-50	-16	-13	-8	-1	4	10	14	16	16	16	13	9	3	-3	-9	-15	-
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1 ST 10	45	-30	-2	-1	0	2	3	3	3	3	3	3	1	1	-1	-2	-3	-4	-
10 -11	45	-20	0	1	2	2	2	2	2	1	1	0	-1	-2	-2	-2	-2	-1	-
4 -3	45	-10	1	1	2	2	2	2	2	2	0	-1	-1	-2	-2	-2	-2	-1	-
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1 ST 10	45	70	-6	-13	-17	-19	-19	-18	-16	-12	-7	-1	7	16	22	25	25	20	-
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1 ST 10	50	-30	0	1	2	3	3	3	2	1	1	0	0	-1	-1	-2	-2	-3	-
1 ST 10	50	-20	1	1	1	2	1	2	2	2	1	1	-1	-2	-1	-2	-2	-2	-
1 ST 10	50	-10	1	1	1	2	2	2	2	2	1	0	0	-1	-2	-2	-2	-2	-
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1 ST 10	50	20	-1	0	0	1	2	2	2	2	2	1	0	0	0	-1	-1	-2	-

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-1																		
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-6																		
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1 ST 10	55	-10	0	0	0	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1
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1 ST 10	55	0	0	0	0	1	1	1	1	0	0	0	0	-1	-1	-1	-1	0
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1 ST 10	55	60	-12	-15	-12	-8	-4	0	4	6	7	9	10	9	11	9	4	0
-6																		
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-4																		
1 ST 10	60	-80	-5	-3	0	3	5	8	9	8	7	5	3	0	-2	-4	-6	-8
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-6																		
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13 -11																		
1 ST 10	65	60	-8	-4	-1	4	8	11	13	14	14	11	7	2	-4	-9	-13	-15
15 -12																		
1 ST 10	65	70	-7	0	6	10	14	16	18	18	16	12	4	-3	-11	-17	-20	-21
18 -13																		
1 ST 10	65	80	-3	-1	1	4	7	7	6	5	5	4	1	-1	-3	-5	-6	-7
-6 -5																		
1 ST 10	70	-80	1	3	.4	5	5	5	3	1	0	-1	-2	-3	-4	-5	-5	-4
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1 ST 10	70	-30	2	2	1	0	0	-1	-2	-1	0	1	1	1	0	0	0	0
0 1																		
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1 ST 10	70	-10	0	0	-2	-3	-3	-4	-3	-2	0	2	3	4	4	4	3	3
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2 2																		
1 ST 10	70	30	2	3	3	4	3	2	0	0	-1	-2	-2	-1	-1	-2	-1	-1
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-4 -3																		
1 ST 10	70	50	-3	1	3	4	6	9	10	10	8	5	1	-3	-6	-9	-10	-11
10 -6																		
1 ST 10	70	60	-4	0	2	5	8	9	11	11	11	8	3	-1	-7	-10	-12	-13
11 -8																		
1 ST 10	70	70	-3	4	9	12	13	14	15	14	12	8	1	-6	-13	-17	-20	-18
14 -8																		
1 ST 10	70	80	-2	0	4	8	9	7	4	3	2	2	-1	-2	-3	-4	-6	-7
-6 -4																		
1 ST 10	75	-80	3	4	4	4	4	2	1	-1	-2	-2	-2	-2	-2	-3	-3	-1
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1 ST 10	75	-70	4	5	5	6	6	4	1	-2	-3	-5	-5	-5	-4	-5	-4	-1
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1 ST 10	75	-60	4	5	6	6	6	3	0	-4	-5	-5	-4	-3	-3	-3	-3	-1
2 3																		
1 ST 10	75	-50	2	2	2	2	3	2	0	-3	-3	-2	-1	0	0	-1	0	0
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0 3																		
1 ST 10	80	60	3	6	9	9	7	4	3	5	4	2	-2	-6	-8	-10	-8	
-4 -1																		
1 ST 10	80	70	4	8	10	10	9	8	7	6	4	1	-3	-8	-10	-13	-9	
-5 -1																		
1 ST 10	80	80	-2	1	7	11	10	5	0	-2	-2	-3	-3	-2	-1	-3	-4	
-4 -3																		
1 ST 10	85	-80	8	9	7	3	-1	-4	-6	-5	-4	-2	-1	-2	-2	0	1	
4 6																		
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4 7																		
1 ST 10	85	-60	7	8	8	7	4	-1	-3	-5	-6	-5	-3	-2	-2	-1	0	
3 4																		
1 ST 10	85	-50	0	0	-2	-2	-3	-3	-2	-1	0	0	1	4	4	3	2	
1 1																		
1 ST 10	85	-40	-5	-6	-5	-4	-3	-2	1	3	5	8	8	8	5	3	1	-3
-4 -5																		
1 ST 10	85	-30	-5	-5	-3	-3	-5	-3	-1	3	6	9	11	9	6	3	-3	-5
-6 -7																		
1 ST 10	85	-20	-4	-4	-5	-6	-6	-5	0	4	8	10	10	8	4	2	-1	-3
-4 -4																		
1 ST 10	85	-10	0	2	0	-9	-12	-5	-2	-1	-2	5	12	9	-2	-4	0	3
3 0																		
1 ST 10	85	0	-2	2	3	-4	-7	-3	-2	-7	-11	-3	7	7	-3	-5	5	13
10 0																		
1 ST 10	85	10	-4	3	7	1	-3	-1	-3	-12	-19	-11	2	4	-5	-5	10	22
16 1																		
1 ST 10	85	20	-2	8	17	16	9	3	-3	-13	-20	-17	-9	-3	-2	4	9	9
-3 4																		
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-3 0																		
1 ST 10	85	40	10	6	6	12	15	9	0	-3	-1	-3	-9	-12	-10	-9	-10	-9
-1 8																		
1 ST 10	85	50	7	5	8	12	11	4	-3	-4	-3	-5	-9	-11	-10	-9	-6	0
7 9																		
1 ST 10	85	60	6	11	16	15	7	-3	-6	-2	0	-3	-7	-9	-9	-8	-7	-4
0 3																		
1 ST 10	85	70	6	9	9	6	2	0	0	1	0	-1	-2	-5	-8	-9	-8	-4
-1 2																		
1 ST 10	85	80	-7	-3	9	18	14	0	-8	-7	-2	-1	-3	1	5	4	-2	-5
-4 -5																		
1 ST 10	90	-80	11	11	8	3	-3	-7	-9	-9	-6	-5	-2	-1	-2	-1	1	3
6 8																		
1 ST 10	90	-70	11	12	11	10	5	2	-1	-4	-7	-9	-10	-11	-8	-6	-2	3
5 9																		
1 ST 10	90	-60	8	9	9	7	3	-3	-5	-6	-6	-5	-3	-3	-1	-1	0	0
4 4																		
1 ST 10	90	-50	-1	-2	-5	-5	-6	-6	-3	-1	2	2	3	6	7	7	5	3
1 1																		
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-6 -7																		

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17	28																				
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8	21																				
1	ST	11	20	80	18	22	24	23	18	12	4	-3	-10	-15	-20	-22	-22	-19	-14	-6	
2	10																				
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1	ST	11	25	-70	0	-4	-8	-13	-14	-13	-10	-7	-3	2	7	10	11	12	12	10	
8	4																				
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5	1																				
1	ST	11	25	-40	-1	-2	-3	-3	-3	-1	-1	1	1	1	2	2	2	2	3	2	
1	0																				
1	ST	11	25	-30	1	1	1	1	2	2	1	1	0	-1	-1	-1	-1	-1	0	0	
0	0																				
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1	ST	11	25	10	-2	-1	0	1	2	2	1	2	3	3	2	1	1	0	-2	-3	
-3	-3																				
1	ST	11	25	20	-4	-3	-2	0	1	2	3	5	6	6	5	3	2	1	-3	-5	
-6	-6																				
1	ST	11	25	30	-6	-6	-6	-5	-4	-2	0	2	5	6	7	7	6	5	2	1	
-4	-5																				
1	ST	11	25	40	6	2	-3	-7	-8	-9	-10	-10	-10	-8	-5	-1	3	8	13	16	
15	11																				
1	ST	11	25	50	29	23	15	7	-1	-8	-15	-22	-28	-29	-27	-23	-15	-4	10	24	
32	34																				
1	ST	11	25	60	46	43	35	25	13	-1	-13	-24	-35	-40	-42	-41	-33	-20	-2	17	
34	44																				
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24	37																				
1	ST	11	25	80	25	24	23	19	16	6	-3	-11	-18	-23	-25	-25	-20	-15	-5	3	
12	21																				
1	ST	11	30	-80	-6	-7	-6	-4	-2	1	3	5	7	7	6	6	4	2	0	-2	
-3	-6																				
1	ST	11	30	-70	-10	-11	-10	-8	-4	0	4	8	10	11	11	10	8	4	1	-3	
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1	ST	11	30	-40	-3	-3	-1	-1	1	3	3	4	3	2	2	1	1	0	-1	-2	
-3	-3																				
1	ST	11	30	-30	0	0	1	1	2	1	1	1	0	0	0	0	0	-1	-1	-1	
-1	0																				
1	ST	11	30	-20	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0

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MEMBER: SCIDAT9

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1 ST 11	35	70	32	21	9	-4	-16	-29	-36	-40	-40	-35	-25	-12	3	19	32	41
43 39	35	80	17	17	11	5	-15	-22	-27	-27	-25	-20	-14	-5	6	15	18	23
1 ST 11	40	-80	-12	-9	-5	0	2	8	12	13	13	11	9	6	1	-3	-7	-10
1 ST 11	40	-70	-16	-11	-4	2	9	14	18	19	18	16	12	6	-1	-8	-14	-18
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1 ST 11	40	-50	-7	-3	1	6	10	12	12	11	8	6	3	0	-4	-7	-10	-12
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1 ST 11	40	-30	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1 ST 11	40	-20	-1	-1	-1	-1	-1	0	0	0	1	1	1	1	1	1	0	0
1 ST 11	40	-10	-1	-1	-1	-1	0	0	1	1	1	1	1	1	1	1	0	0
1 ST 11	40	0	-2	-3	-2	-1	-1	0	1	2	2	2	2	2	2	1	1	0
1 ST 11	40	10	-4	-3	-3	-1	0	0	2	2	3	4	3	3	2	1	0	-1
1 ST 11	40	20	-5	-5	-5	-3	-2	0	2	4	5	6	5	5	4	2	0	-1
1 ST 11	40	30	-7	-7	-6	-6	-4	-3	-1	2	5	7	8	8	8	5	2	-1
1 ST 11	40	40	-6	-6	-7	-7	-7	-7	-6	-3	0	5	8	11	12	11	7	3
1 ST 11	40	50	1	-3	-6	-9	-13	-16	-17	-17	-12	-6	2	10	17	21	21	17
1 ST 11	40	60	10	2	-6	-14	-20	-26	-28	-29	-25	-18	-7	5	18	29	34	34
1 ST 11	40	70	12	2	-8	-16	-22	-27	-28	-27	-24	-17	-8	4	16	27	34	35
1 ST 11	40	80	5	1	-5	-10	-16	-18	-18	-15	-12	-8	-1	6	12	17	19	19
1 ST 11	45	-80	-8	-7	-4	-4	2	7	12	12	11	8	6	3	0	-3	-6	-8
1 ST 11	45	-70	-12	-7	-2	3	9	12	15	15	14	12	8	3	-3	-8	-12	-14
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1 ST 11	45	-50	-4	-1	2	6	8	9	9	7	5	3	1	-1	-3	-6	-8	-9
1 ST 11	45	-40	-1	0	2	3	3	3	2	1	1	0	0	-1	-1	-2	-2	-3
1 ST 11	45	-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1	3																		
1 ST	11	70	-50	2	2	2	1	0	0	-1	-2	-3	-2	-1	0	0	0	1	2
2	2																		
1 ST	11	70	-40	1	1	0	-2	-3	-3	-3	-2	0	0	2	2	2	2	2	1
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1 ST	11	70	-30	0	1	-1	-1	-1	-1	-1	0	1	2	2	2	1	1	1	0
-1	-1																		
1 ST	11	70	-20	0	0	-1	-1	-1	-1	-2	-1	0	0	1	2	2	2	2	0
0	0																		
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3	3																		
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1	3																		
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-1	-1																		
1 ST	11	70	40	-2	-1	1	3	5	8	9	9	6	4	0	-2	-6	-8	-8	-7
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15	-14																		
1 ST	11	70	60	-23	-19	-13	-5	3	11	18	24	25	24	20	14	6	-4	-13	-19
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1 ST	11	70	70	-24	-22	-16	-8	0	7	15	21	25	26	24	18	11	0	-10	-18
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1 ST	11	70	80	-11	-11	-8	-4	-1	2	6	10	13	14	12	7	2	-2	-4	-5
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1 ST	11	75	-20	0	0	1	-1	-1	-1	-1	-1	-1	0	2	1	1	1	1	1
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2	2																		

START
COL

	1	2	3	4	5	6	7	8	9	0							
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1 ST 11	75	50	-9	-4	0	4	9	13	15	16	15	11	7	1	-5	-11	-17
1 ST 11	75	60	-17	-11	-4	2	9	15	19	22	22	18	13	6	-1	-10	-22
1 ST 11	75	70	-19	-14	-7	0	7	12	17	20	21	21	17	12	4	-6	-21
1 ST 11	75	80	-9	-7	-4	-1	2	5	8	10	11	11	9	5	0	-4	-8
1 ST 11	80	-80	1	1	0	0	1	1	0	-1	-1	-1	-2	-1	-1	0	1
1 ST 11	80	-70	-1	-2	1	2	0	0	0	2	2	1	1	0	-2	-2	-1
1 ST 11	80	-60	4	5	3	1	0	2	0	-1	-2	-3	-3	-1	-1	0	-1
1 ST 11	80	-50	1	2	0	0	0	1	1	-1	-2	-2	0	-1	-1	0	1
1 ST 11	80	-40	-2	0	0	-3	-4	-3	-1	0	0	3	5	5	3	1	0
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1 ST 11	80	-20	1	2	1	0	0	1	0	-2	-4	-2	-1	1	0	0	1
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1 ST 11	80	20	-2	2	4	4	4	4	3	1	-2	-3	2	7	8	3	-7
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1 ST 11	80	50	-7	0	6	10	13	16	16	15	12	8	5	0	-7	-14	-20
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1 ST 11	80	80	-7	-4	-1	2	5	6	8	9	9	9	7	3	-2	-6	-9
1 ST 11	85	-80	0	-2	-1	0	0	1	2	2	2	0	-1	0	0	-1	0
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7 1																				
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-2 3																				
1 ST 11	85	-50	1	3	-3	-4	-2	2	6	5	0	-5	-7	0	-2	-3	1	3		
4 3																				
1 ST 11	85	-40	-5	1	-1	-8	-11	-6	1	3	-3	4	10	11	3	-2	-1	5		
2 -5																				
1 ST 11	85	-30	7	7	0	-10	-6	4	6	-3	-8	4	13	11	-2	-10	-9	-4		
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1 ST 11	85	-20	2	6	-5	1	0	5	3	-5	-13	-7	-3	4	1	-3	0	4		
4 2																				
1 ST 11	85	-10	1	4	4	3	4	7	2	-8	-15	-8	0	5	1	-4	-3	1		
3 2																				
1 ST 11	85	0	2	3	4	5	8	9	1	-11	-16	-8	3	8	1	-6	-5	0		
3 3																				
1 ST 11	85	10	1	2	3	7	12	11	0	-14	-18	-8	6	10	1	-8	-8	-2		
2 2																				
1 ST 11	85	20	-5	5	10	10	10	11	11	6	-5	-8	4	20	23	7	-13	-22	-21	
18 -13																				
1 ST 11	85	30	-19	-7	9	17	13	8	7	6	3	2	9	18	15	-1	-15	-20	-	
21 -21																				
1 ST 11	85	40	-18	-11	3	11	10	7	10	13	10	4	6	12	10	-3	-15	-18	-	
15 -16																				
1 ST 11	85	50	-4	8	17	22	22	20	18	13	6	1	1	0	-6	-18	-29	-31	-	
26 -16																				
1 ST 11	85	60	-10	9	23	29	27	26	26	21	11	2	0	-4	-14	-27	-34	-33	-	
29 -22																				
1 ST 11	85	70	-8	3	12	19	21	19	13	10	9	9	7	1	-7	-15	-23	-27	-	
25 -18																				
1 ST 11	85	80	-7	-3	3	6	9	10	9	8	8	10	9	5	-4	-12	-15	-14	-	
12 -10																				
1 ST 11	90	-80	-1	-3	-2	-1	-1	1	2	2	2	0	-1	1	0	0	1	2	-	
3 2																				
1 ST 11	90	-70	-8	-17	-5	2	-3	-2	2	2	6	7	5	3	-1	-7	-3	4	-	
7 -1																				
1 ST 11	90	-60	6	8	2	-6	-2	6	6	3	-1	-7	-8	-4	-3	-2	2	-3	-	
-3 2																				
1 ST 11	90	-50	0	3	-4	-5	-2	2	7	7	1	-5	-7	0	-2	-4	0	3	-	
4 3																				
1 ST 11	90	-40	-7	1	-1	-8	-11	-6	2	4	-3	5	12	12	4	-2	-2	5	-	
2 -6																				
1 ST 11	90	-30	7	8	1	-11	-7	5	7	-3	-8	6	15	13	-3	-12	-11	-5	-	
-3 1																				
1 ST 11	90	-20	2	7	6	1	1	6	4	-5	-15	-8	-4	4	0	-4	-1	5	-	
5 2																				
1 ST 11	90	-10	2	5	5	4	5	8	2	-10	-17	-10	-1	5	0	-4	-3	2	-	
4 3																				
1 ST 11	90	0	1	4	4	6	10	11	2	-12	-18	-9	3	9	1	-6	-5	0	-	
3 3																				
1 ST 11	90	10	-1	1	4	9	14	12	0	-15	-20	-8	8	12	2	-9	-9	-4	-	
1 O																				

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22 -17	90	30	-24	-10	8	17	13	8	7	6	3	3	13	23	20	2	-15	-22	-
25 -25	90	40	-21	-13	3	12	11	6	10	13	11	5	8	15	14	-1	-15	-20	-
17 -19	90	50	-2	12	22	27	26	23	19	11	4	-3	-2	-2	-8	-21	-33	-34	-
28 -16	90	60	-6	16	32	37	34	31	29	21	8	-3	-6	-11	-21	-34	-40	-37	-
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1 -2	20	-70	-5	-6	-4	-4	-3	-1	1	1	1	2	4	4	2	1	4	3	3
1 ST 12	20	-60	-5	-6	-4	-4	-3	-2	1	1	1	2	4	4	2	2	4	3	3
1 O	20	-50	-6	-6	-4	-3	-3	-2	-1	2	4	4	5	5	3	3	4	2	2
1 -1	20	-40	-1	0	1	1	1	0	-1	0	1	0	0	0	-2	-1	1	1	1
1 ST 12	20	-30	2	4	4	3	3	1	-3	-1	-1	-1	-2	-2	-2	-1	-1	-1	-1
1 -1	20	-20	0	2	3	4	3	1	-3	1	3	1	-3	-2	-1	-1	-2	-3	-3
1 ST 12	20	-10	-2	-1	2	3	2	1	-1	2	3	1	-1	-1	-1	-1	-1	-2	-2
1 -3	20	0	-2	-2	0	1	1	1	1	1	2	1	1	0	1	1	0	-1	-1
1 ST 12	20	10	-3	-2	-1	1	1	1	2	4	4	3	2	2	2	1	-3	-4	-4
1 -3	20	20	-6	-3	-1	1	2	3	4	7	8	7	6	4	2	1	-7	-7	-7
1 ST 12	20	30	-3	-3	-2	-4	-5	-5	-4	-2	2	5	6	8	7	5	1	1	1
1 -9	20	40	19	15	8	1	-4	-11	-16	-20	-20	-17	-14	-7	-2	4	9	17	17
1 ST 12	20	50	43	39	30	19	7	-4	-16	-26	-32	-34	-34	-31	-26	-16	-2	15	15
21 21	20	60	51	53	47	36	22	7	-7	-19	-30	-37	-41	-43	-42	-35	-21	0	0
1 ST 12	20	70	41	48	47	39	26	11	-2	-13	-23	-29	-34	-38	-38	-34	-24	-9	-9
9 27	20	80	18	24	26	24	18	10	2	-4	-10	-15	-18	-20	-20	-19	-15	-9	-9
1 ST 12	25	-80	-3	-2	-2	-1	0	0	0	0	1	2	2	2	2	1	1	1	1
1 O	25	-70	-3	-3	-2	-2	-1	0	0	1	2	3	3	2	2	2	2	1	1
1 ST 12	25	-60	-3	-3	-2	-2	-1	0	0	1	2	3	3	2	2	2	2	1	1
1 -1	25	-50	-4	-4	-3	-3	-2	-1	0	1	2	3	3	2	2	2	2	1	1

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0						
1 ST 12	25	-60	-4	-3	-2	-1	-1	1	2	3	3	3	2	2	2	1
-1	-2															
1 ST 12	25	-50	-5	-4	-3	-2	-1	1	3	4	4	4	4	3	2	1
-2	-3															
1 ST 12	25	-40	-1	0	0	1	0	-1	1	0	1	1	-1	0	1	0
-1	-2															
1 ST 12	25	-30	1	2	1	1	1	0	0	0	-1	-1	0	-1	-1	0
0	1															
1 ST 12	25	-20	1	1	1	1	1	0	-1	1	1	-1	0	-1	-1	0
-1	0															
1 ST 12	25	-10	0	0	0	1	1	0	0	1	1	0	1	1	0	-1
-1	0															
1 ST 12	25	0	-1	-1	0	0	1	1	1	1	1	1	1	1	0	-1
-1	-1															
1 ST 12	25	10	-2	-2	-1	1	1	2	2	3	2	2	1	1	1	-2
-2	-2															
1 ST 12	25	20	-6	-5	-3	-1	1	2	4	5	6	7	6	4	2	-3
-6	-7															
1 ST 12	25	30	-5	-7	-8	-8	-8	-6	-3	0	4	7	8	9	9	3
-1	-3															
1 ST 12	25	40	14	6	-2	-9	-16	-20	-21	-20	-17	-11	-6	1	7	13
23	20															
1 ST 12	25	50	44	35	21	6	-9	-21	-30	-36	-39	-36	-31	-24	-13	-1
43	47															
1 ST 12	25	60	57	53	40	25	8	-10	-25	-36	-45	-47	-45	-40	-31	-18
40	53															
1 ST 12	25	70	51	52	43	31	15	-3	-18	-30	-39	-42	-42	-39	-32	-21
30	44															
1 ST 12	25	80	27	29	27	20	12	1	-7	-14	-20	-23	-24	-23	-20	-15
14	22															
1 ST 12	30	-80	-2	-2	-2	-2	-1	-1	-1	0	0	1	1	1	1	1
0	-1															
1 ST 12	30	-70	-3	-4	-3	-3	-1	-2	-1	1	2	3	2	3	2	2
-1	-1															
1 ST 12	30	-60	-3	-3	-3	-2	-1	-1	-1	0	1	2	3	3	2	2
0	-1															
1 ST 12	30	-50	-3	-4	-3	-2	-1	-1	-1	1	2	2	3	2	2	2
-1	-2															
1 ST 12	30	-40	-1	0	0	0	0	0	-1	0	0	1	1	1	0	1
-1	-1															
1 ST 12	30	-30	1	1	1	1	1	0	-1	-1	-1	-1	0	0	-1	1
-1	1															
1 ST 12	30	-20	1	1	1	1	0	-1	-1	-1	-1	0	0	0	0	1
0	1															
1 ST 12	30	-10	0	0	0	1	0	-1	-1	-1	0	0	0	1	1	1
1	0															
1 ST 12	30	0	-1	-1	0	1	0	-1	0	0	1	1	1	1	1	0
0	0															
1 ST 12	30	10	-2	-2	-1	-1	0	1	1	2	2	2	1	1	1	0
-1	-2															
1 ST 12	30	20	-7	-6	-5	-3	-1	0	3	5	5	6	5	4	3	2
-3	-5															

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0
1 ST 12 40 -50 0 -1 -1 -2 -1 -1 0 0 0 1 1 1 1 1 1 1										
1 ST 12 40 -40 0 0 0 -1 -1 -1 0 0 0 0 1 1 1 1 1 1 0										
1 ST 12 40 -30 0 0 -1 -1 -1 0 0 0 0 0 0 0 0 0 0 1 1										
1 ST 12 40 -20 -1 -1 -1 -1 0 -1 0 0 -1 -1 0 -1 -1 1 1 2										
1 ST 12 40 -10 -1 -1 -1 0 0 1 1 1 0 -1 0 -1 -1 0 0 1										
1 ST 12 40 0 -1 -1 -1 0 0 1 1 1 1 0 0 -1 0 -1 -1 0										
1 ST 12 40 10 -1 -1 -1 0 1 1 1 1 1 0 0 0 0 -1 -1 0										
1 ST 12 40 20 -3 -3 -2 -1 1 2 3 4 3 2 2 1 0 -1 -1 -1										
1 ST 12 40 30 -10 -10 -8 -4 1 6 9 12 12 10 7 4 2 -1 -3 -5										
1 ST 12 40 40 -23 -26 -25 -19 -10 1 11 20 24 24 22 18 13 8 2 -4 -										
1 ST 12 40 50 -27 -36 -39 -36 -27 -15 -2 9 18 23 27 30 30 28 22 12										
1 ST 12 40 60 -21 -34 -40 -41 -35 -26 -15 -5 4 12 21 29 36 39 38 29										
1 ST 12 40 70 -11 -24 -30 -32 -29 -22 -15 -8 -2 3 11 19 27 32 34 28										
1 ST 12 40 80 1 -5 -11 -15 -16 -14 -10 -8 -6 -4 0 6 13 17 20 17										
1 ST 12 45 -80 2 2 -2 -1 -15 -2 -1 2 1 1 1 2 2 2 2 2										
1 ST 12 45 -70 -1 -1 -2 -2 -2 -1 0 -1 0 0 1 2 2 2 1 1 1										
1 ST 12 45 -60 -1 -1 -2 -2 -1 -1 -1 0 1 1 2 2 2 1 1 0										
1 ST 12 45 -50 0 -1 -1 -1 -1 -1 0 0 0 0 1 1 1 1 1 0										
1 ST 12 45 -40 0 -1 -1 -1 -1 -1 0 0 0 -1 0 0 1 0 0 0										
1 ST 12 45 -30 1 -1 -1 -1 0 0 0 0 -1 0 0 1 0 1 1 1 0										
1 ST 12 45 -20 -1 -1 -1 -1 -1 0 1 1 0 0 0 0 0 0 1 1										
1 ST 12 45 -10 -1 -1 -1 -1 -1 1 2 2 0 0 1 0 0 1 1 0										
1 ST 12 45 0 0 -1 -1 -1 -1 0 1 1 1 1 1 1 1 0 0 1										
1 ST 12 45 10 0 0 0 1 1 1 1 1 1 1 1 0 -1 -1 -1 -2										
1 ST 12 45 20 -1 0 0 1 1 1 2 2 2 2 1 0 0 -1 -2 -2										
1 ST 12 45 30 -7 -5 -2 1 4 8 10 10 9 7 4 1 -2 -5 -7 -8										

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0
1 ST 12 55 -40 1 -1 -1 0 -1 -1 -1 -1 -1 0 0 1 1 1 1 0 1										
1 ST 12 55 -30 0 -1 -1 -1 -1 -1 -1 -1 0 1 1 1 1 1 1 1 0 1										
1 ST 12 55 -20 0 -1 0 -1 -1 1 1 1 1 0 -1 0 1 1 1 0 0										
1 ST 12 55 -10 -1 -1 -1 0 -1 1 2 2 1 1 0 0 0 0 0 0 -1 -1										
1 ST 12 55 0 0 0 0 -1 -1 1 1 1 1 1 0 1 1 0 1 -1 -1										
1 ST 12 55 10 2 2 2 1 1 0 1 1 0 -1 -1 -1 -1 -1 -1 -1 -1										
1 ST 12 55 20 2 3 3 3 2 1 1 1 0 -1 -1 -1 -2 -2 -3 -3 -2										
1 ST 12 55 30 0 3 5 7 7 7 6 5 3 2 -1 -3 -5 -7 -8 -8 -8										
1 ST 12 55 40 -8 -3 1 5 6 10 11 12 10 8 5 2 -2 -7 -11 -13 -										
1 ST 12 55 50 -15 -12 -8 -2 3 8 10 13 11 12 11 8 5 2 -4 -10 -										
1 ST 12 55 60 -19 -20 -17 -12 -6 1 7 10 13 14 15 15 12 8 3 -2										
1 ST 12 55 70 -19 -20 -18 -15 -11 -6 0 7 13 18 21 21 18 12 6 -1										
1 ST 12 55 80 -11 -10 -10 -9 -7 -5 -2 2 8 13 15 14 12 9 4 -3										
1 ST 12 60 -80 0 0 1 0 -1 0 -1 -1 -1 0 1 1 1 1 1 1 1										
1 ST 12 60 -70 -1 0 0 -1 -2 -2 -2 -1 1 1 1 2 2 2 1 1										
1 ST 12 60 -60 -1 -1 -1 -2 -3 -2 -2 1 1 1 2 2 2 1 1										
1 ST 12 60 -50 0 0 -1 -2 -2 -2 -2 -1 1 1 2 2 2 1 1										
1 ST 12 60 -40 1 -1 -1 -1 -2 -3 -3 -2 -1 1 0 1 2 3 1 1										
1 ST 12 60 -30 0 -1 -1 0 -1 0 -1 1 1 1 1 1 2 1 1 -1 0										
1 ST 12 60 -20 0 -1 0 0 -1 1 1 1 2 1 0 0 0 1 1 -1 -1										
1 ST 12 60 -10 -1 0 1 1 1 1 1 1 2 1 0 0 0 0 -1 -1 -1										
1 ST 12 60 0 -1 1 1 0 -1 0 2 1 1 0 1 0 1 0 -1 -1										
1 ST 12 60 10 2 3 2 1 -1 -1 1 0 -1 -2 -2 -1 -1 0 0										
1 ST 12 60 20 4 5 5 4 2 2 1 0 -1 -3 -3 -3 -3 -2 -2										
1 ST 12 60 30 4 8 10 10 8 7 5 2 0 -3 -4 -6 -8 -9 -8 -7										
1 ST 12 60 40 -4 2 6 10 11 12 11 9 7 4 0 -3 -7 -11 -12 -13 -										

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 ST 12	70	-30	-1	-1	-2	-1	-1	1	0	0	1	1	1	2	1	1	1	-1
-1	-1																	
1 ST 12	70	-20	-1	-1	-2	1	0	1	1	1	1	1	1	1	1	1	0	-1
-1	-1																	
1 ST 12	70	-10	-1	-1	0	1	1	2	2	1	-1	-1	-1	1	-1	-1	-2	
-1	-1																	
1 ST 12	70	0	-1	-1	0	1	-1	1	1	-1	-2	-1	1	1	1	0	-1	-1
-1	-1																	
1 ST 12	70	10	1	2	2	1	0	1	1	-2	-3	-2	-1	-1	0	0	1	1
-1	-1																	
1 ST 12	70	20	1	2	.3	2	1	2	2	0	-1	-1	-1	-1	-2	-3	-2	-1
0	0																	
1 ST 12	70	30	2	3	4	4	3	3	2	1	0	0	0	-1	-3	-5	-6	-4
-2	0																	
1 ST 12	70	40	-1	1	3	4	5	5	5	4	2	0	-2	-4	-6	-7	-6	
-4	-2																	
1 ST 12	70	50	0	4	8	9	11	11	10	9	6	4	0	-4	-8	-12	-14	-14
11	-6																	
1 ST 12	70	60	-7	-1	5	11	14	16	16	15	12	9	5	-1	-8	-14	-19	-21
18	-13																	
1 ST 12	70	70	-8	-2	2	6	11	14	15	16	16	14	8	1	-6	-13	-19	-21
19	-13																	
1 ST 12	70	80	-9	-6	-2	1	6	9	10	10	10	11	10	7	1	-6	-12	-14
13	-11																	
1 ST 12	75	-80	1	-1	-3	-2	0	-2	-2	-1	-1	-1	0	1	2	2	3	3
2	2																	
1 ST 12	75	-70	-1	-2	-4	-1	2	0	1	1	1	-1	0	1	2	1	2	2
1	0																	
1 ST 12	75	-60	-1	-3	-5	-2	1	-1	0	-1	-1	-2	0	1	2	2	3	2
1	0																	
1 ST 12	75	-50	-1	-3	-5	-2	1	-1	0	0	-1	-1	0	1	3	2	3	2
2	1																	
1 ST 12	75	-40	-2	-2	-6	-4	-2	0	1	0	1	0	3	3	4	3	3	2
-1	-1																	
1 ST 12	75	-30	-1	-1	-3	-3	-2	0	1	-1	0	1	2	2	3	2	3	1
-1	-1																	
1 ST 12	75	-20	-1	-2	-3	-1	-1	1	1	1	1	1	1	1	2	1	1	-1
0	-1																	
1 ST 12	75	-10	-1	-1	-1	0	1	2	2	1	-1	0	0	-1	1	0	-1	-1
1	0																	
1 ST 12	75	0	0	-1	-1	1	-1	1	0	-1	-2	-1	0	1	2	1	1	1
2	1																	
1 ST 12	75	10	0	0	1	2	1	1	-1	-3	-2	-1	0	1	0	1	0	1
1	-1																	
1 ST 12	75	20	0	0	1	1	1	1	1	0	0	0	1	1	-1	-2	-2	-1
1	0																	
1 ST 12	75	30	-1	0	0	0	0	0	1	2	2	4	4	3	1	-2	-4	-4
-3	-1																	
1 ST 12	75	40	0	0	1	1	0	1	2	4	4	3	1	0	-2	-4	-4	-3
-2	-1																	
1 ST 12	75	50	3	7	9	9	8	8	7	5	4	2	-1	-4	-8	-12	-13	-12
-8	-3																	

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0										
1 ST 12	85	-20	-2	-1	0	0	1	2	2	2	2	1	0	-1	-2	-2	-2			
-2																				
1 ST 12	85	-10	3	-9	-11	-5	2	-1	-5	-2	3	0	-1	1	-1	-2	2			
12 14																				
1 ST 12	85	0	-3	-7	-3	6	12	7	-2	-7	-5	1	2	1	0	-3	-4	-1		
4																				
1 ST 12	85	10	-8	-6	4	16	21	14	0	-9	-8	-1	3	2	-2	-6	-7	-5		
-4																				
1 ST 12	85	20	-8	-8	0	6	5	2	0	-2	-3	3	11	10	-3	-15	-12	3		
10																				
1 ST 12	85	30	-5	-8	-5	0	0	-3	-3	0	6	11	15	13	3	-10	-14	-7		
1																				
1 ST 12	85	40	8	1	0	0	-4	-7	-3	3	6	3	0	0	-4	-11	-13	-3		
10																				
1 ST 12	85	50	19	22	18	11	5	1	0	1	3	2	-4	-11	-18	-20	-19	-13		
1																				
1 ST 12	85	60	9	22	28	24	13	4	3	8	11	7	-2	-10	-18	-23	-27	-26	-	
-3																				
1 ST 12	85	70	10	14	14	15	16	15	11	7	3	-2	-7	-13	-16	-18	-20	-19	-	
18																				
1 ST 12	85	80	1	1	2	2	4	10	14	10	1	-4	-5	-6	-11	-15	-11	-2		
12																				
1 ST 12	90	-80	4	4	1	0	-3	-4	-4	-4	-3	-4	-3	-1	0	2	4	4		
4																				
1 ST 12	90	-70	1	2	4	3	3	3	3	3	2	-2	-2	-4	-4	-4	-2	-2		
5																				
1 ST 12	90	-60	3	3	4	4	2	1	1	-1	-2	-4	-4	-4	-5	-5	-1	-1		
-3																				
1 ST 12	90	-50	0	1	2	2	2	1	2	2	1	0	-1	-1	-3	-2	-1	-1		
1																				
1 ST 12	90	-40	-5	-2	1	1	4	6	5	7	6	4	2	1	-2	-6	-6	-4		
-2																				
1 ST 12	90	-30	-1	1	1	0	2	1	1	2	2	1	-1	-1	-1	-2	-2	0		
-5																				
1 ST 12	90	-20	-3	-1	1	0	2	3	3	3	3	3	1	-1	-2	-3	-3	-3		
-1																				
1 ST 12	90	-10	5	-10	-13	-5	3	-2	-7	-6	-2	4	0	-1	0	-2	-3	3		
-3																				
1 ST 12	90	0	-2	-7	-3	7	14	7	-4	-9	-6	1	2	1	0	-3	-4	1		
15																				
1 ST 12	90	10	-10	-8	4	19	25	16	-1	-11	-9	-1	3	3	-3	-7	-9	-6		
7																				
1 ST 12	90	20	-10	-10	-1	6	5	2	-1	-2	-3	4	13	12	-3	-16	-13	3		
-4																				
1 ST 12	90	30	-7	-12	-8	-2	-2	-5	-5	0	8	14	19	17	6	-9	-14	-7		
11																				
1 ST 12	90	40	10	1	-2	-2	-8	-11	-5	2	6	4	1	1	-2	-11	-12	-1		
1																				
1 ST 12	90	50	23	26	20	11	3	-2	-3	-2	2	1	-5	-13	-20	-22	-20	-12		
13																				
1 ST 12	90	60	15	29	35	29	15	4	1	6	9	5	-6	-14	-22	-27	-30	-27		
0																				
1 ST 12	90	18																		

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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1 SU	1	25	-10	-7	17	14	26	-11	16	45	14	-34	-16	53	14	-9	-45	-59	18
2 -38																			
1 SU	1	25	0	-27	42	-17	-7	10	43	17	-21	-41	-18	7	55	-29	-9	-33	30
19 13																			
1 SU	1	25	10	-46	68	-48	-41	30	69	-12	-54	-45	-19	-38	96	-47	27	-6	41
39 65																			
1 SU	1	25	20	-11	-38	5	48	59	-23	-26	-32	-10	1	23	-7	50	-23	13	-51
57 -36																			
1 SU	1	25	30	-77	-91	-45	-14	53	98	127	48	18	56	91	-15	-11	-31	-13	-41
48 -104																			
1 SU	1	25	40	-166	-181	-136	-91	-13	64	102	88	47	43	60	106	119	113	50	-5
77 -123																			
1 SU	1	25	50	-177	-196	-162	-106	-39	32	56	57	67	47	48	101	144	167	119	37
66 -128																			
1 SU	1	25	60	-66	-82	-92	-75	-50	-36	-15	7	20	25	32	47	80	97	87	51
5 -37																			
1 SU	1	25	70	77	64	29	2	-51	-72	-64	-28	6	41	28	-17	-45	-57	-29	13
36 68																			
1 SU	1	25	80	-16	-23	-37	-39	-48	-30	-17	5	16	20	17	25	25	37	28	32
1 SU	1	30	-80	-46	3	-7	-3	14	16	14	6	-2	3	-35	13	-20	45	36	-7
1 SU	1	30	-70	-63	0	-10	-4	22	22	20	9	0	6	-50	15	-29	62	50	-14
1 SU	1	30	-60	-58	-4	-9	-1	25	19	19	11	5	9	-48	9	-27	56	47	-19
1 SU	1	30	-50	-39	-8	-4	2	24	13	15	10	11	11	-35	1	-20	37	32	-21
1 SU	1	30	-40	-14	-5	6	9	23	9	14	8	8	9	-3	-8	-6	6	-4	-29
1 SU	1	30	-30	-10	-16	-2	13	11	-4	2	11	18	10	-8	-5	-16	-12	7	-2
1 SU	1	30	-20	42	6	1	-4	21	-10	-20	-24	14	6	-1	-10	2	-27	-16	-8
1 SU	1	30	-10	-19	36	22	32	5	22	22	7	-37	-10	67	17	-2	-49	-76	-3
1 SU	1	30	0	-30	63	-2	4	11	25	-2	-27	-47	-17	12	47	-27	-14	-29	30
22 17																			
1 SU	1	30	10	-41	90	-26	-24	16	29	-25	-59	-53	-22	-41	77	-49	20	18	62
48 74																			
1 SU	1	30	20	0	-16	47	76	86	-17	-29	-44	-41	-14	0	-26	9	-18	40	-50
35 -39																			
1 SU	1	30	30	-118	-111	-25	51	133	194	208	91	44	84	75	-18	-40	-95	-69	-128
26 -150																			
1 SU	1	30	40	-234	-236	-163	-99	-5	82	148	158	119	119	142	166	150	109	-4	-79
59 -213																			
1 SU	1	30	50	-232	-243	-200	-138	-67	22	77	110	141	117	115	174	192	185	98	-16
42 -194																			
1 SU	1	30	60	-70	-101	-120	-94	-62	-66	-41	5	24	35	56	74	114	123	99	53
3 -34																			
1 SU	1	30	70	101	69	25	-12	-59	-54	-53	-28	8	38	16	-50	-76	-74	-23	33
45 95																			

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0												
1 SU 1	40	0	-11	81	9	19	9	-1	-19	-14	-42	-37	-11	34	-25	-16	-41	26				
1 SU 1	28	1	40	10	-8	128	7	11	14	-17	-47	-59	-78	-69	-73	61	-55	-2	15	85		
12 101	1	40	20	20	60	127	118	85	-4	-42	-88	-124	-97	-66	-86	-93	-72	56	83	1		
1 SU 1	15	9	40	30	-81	-36	45	111	140	143	128	72	18	3	11	15	14	-57	-99	-149	-1	
44 -131	1	40	40	-241	-239	-137	-31	74	156	209	216	167	154	158	147	93	9	-115	-172	-2		
1 SU 1	13	-236	1	40	50	-308	-289	-217	-128	-24	106	201	249	253	207	175	188	172	122	9	-134	-2
73 -309	1	40	60	-144	-175	-154	-110	-77	-74	-25	73	120	123	113	104	116	106	79	30	-	-	
1 SU 1	24	-82	1	40	70	141	95	-14	-120	-144	-100	-78	-54	-12	33	52	-6	-27	-8	21	53	
1 SU 1	50	117	1	40	80	-42	-70	-99	-107	-87	-39	1	54	86	90	87	66	63	57	20	-2	-
1 SU 1	38	-32	1	45	-80	-11	1	-4	-11	-17	-9	-2	-3	-2	11	12	19	-5	4	13	12	
1 -5 -3	1	45	-70	-8	-16	-23	-35	-34	-13	-4	-4	11	34	36	25	12	11	13	6	-	-	
1 SU 1	1	45	-60	-14	-6	1	-3	-15	-6	2	15	12	14	16	18	-10	-11	11	5	-	-	
1 SU 1	-9	-21	1	45	-50	3	-3	12	0	5	-4	3	-9	-7	11	1	3	-1	8	-2	-5	-
11 11	1	45	-40	-3	3	10	1	16	10	9	-8	-3	5	2	-18	6	8	8	-5	-19	-	
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1 SU 1	-7	15	1	45	-20	38	-9	-9	6	32	15	-9	-1	4	-4	-26	-31	9	-7	-10	-12	
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11 26	1	45	10	-8	119	-5	-4	2	-17	-43	-57	-80	-80	-88	54	-49	7	29	102	-	-	
1 SU 1	9	109	1	45	20	60	80	128	112	79	-12	-59	-111	-154	-131	-98	-102	-87	-55	67	93	1
38 51	1	45	30	-42	9	87	146	161	144	113	49	-2	-19	-12	-9	-15	-85	-122	-161	-1	-	
37 -104	1	45	40	-208	-187	-80	17	107	180	222	218	155	131	132	115	52	-38	-160	-204	-2	-	
1 SU 1	26	-226	1	45	50	-292	-265	-188	-102	-1	128	222	269	267	212	167	161	132	76	-32	-161	-2
1 SU 1	86	-309	1	45	60	-160	-186	-163	-114	-66	-52	8	110	150	140	114	97	104	93	63	10	-
44 -105	1	45	70	104	59	-36	-129	-141	-99	-71	-39	5	52	69	11	-14	8	27	55	-	-	
45 93	1	45	80	-63	-86	-107	-109	-80	-28	19	77	108	108	97	68	58	51	11	-12	-	-	
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DATASE1: GWEJ412.GRAM0090.DATA
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1 SU 100	55	20	96	77	100	87	62	-34	-88	-138	-174	-147	-113	-101	-53	-11	90	99
1 SU 92	55	30	19	70	135	174	164	118	61	-7	-41	-53	-40	-37	-46	-100	-123	-148
1 SU -49	55	40	-101	-68	1	47	94	159	188	183	109	68	60	15	-31	-85	-169	-169
1 SU -143	55	50	-222	-161	-97	-30	52	170	231	267	260	178	91	51	21	-45	-95	-154
1 SU -265	55	60	-186	-193	-168	-123	-52	-19	64	212	229	152	86	58	84	59	31	-29
1 SU -140	55	70	30	8	-23	-110	-181	-173	-111	2	118	141	179	93	-11	-16	-26	12
1 SU 38	55	80	-89	-90	-90	-94	-78	-30	30	122	166	137	115	66	33	12	-23	-36
1 SU -82	60	-80	-20	32	3	0	-22	-18	12	-34	-12	-15	-32	26	-15	-6	28	34
1 SU -37	60	-70	-26	40	6	3	-24	-21	20	-45	-14	-21	-46	31	-23	-10	38	41
1 SU -3	60	-60	-22	32	6	8	-14	-11	26	-38	-10	-20	-46	21	-24	-12	33	28
1 SU -6	60	-50	-14	15	3	12	2	3	28	-20	-2	-14	-36	3	-21	-11	19	6
1 SU -9	60	-40	-10	1	4	13	17	25	24	1	3	5	3	-18	-4	-3	-2	-32
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1 SU -8	60	20	84	56	82	73	51	-45	-98	-138	-162	-126	-93	-87	-37	4	99	100
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1 SU -85	60	40	-48	-21	36	95	158	189	183	131	36	20	33	6	-72	-138	-217	-165
1 SU -25	60	50	-175	-147	-83	-33	52	175	223	217	195	122	55	53	11	-26	-62	-126
1 SU -32	60	60	-172	-195	-166	-126	-79	-49	28	173	183	115	68	61	90	86	67	30
1 SU -10	60	70	17	14	-34	-136	-210	-202	-134	-33	68	124	180	104	15	-4	40	81
1 SU -74	60	80	-87	-88	-90	-102	-93	-43	15	94	127	111	106	74	42	24	7	2
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61 29																				
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89 -14																				
1 SU 1	70	40	-43	-58	-6	77	154	156	122	79	21	22	27	-4	-63	-104	-168	-104	-	
59 -49																				
1 SU 1	70	50	-152	-129	-87	-49	35	171	221	189	144	68	9	32	13	8	-13	-78	-1	
95 -188																				
1 SU 1	70	60	-126	-160	-108	-79	-88	-115	-54	110	119	60	42	62	90	70	65	72		
70 -30																				
1 SU 1	70	70	122	123	24	-126	-202	-176	-127	-91	-52	-9	86	70	26	27	62	80		
76 87																				
1 SU 1	70	80	-35	-41	-59	-87	-88	-45	-1	53	59	38	54	58	48	35	16	13		
-5 -21																				
1 SU 1	75	-80	-3	12	-14	34	-24	-40	-9	-59	17	13	-27	-1	-20	2	22	36		
14 43																				
1 SU 1	75	-70	0	15	-14	56	-24	-50	-10	-81	25	17	-41	-11	-34	0	29	45		
18 59																				
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26 -14																				
1 SU 1	75	-30	12	-14	-4	27	30	9	38	30	14	-26	-31	-35	-56	-35	-2	20		
17 7																				
1 SU 1	75	-20	2	-48	-15	-4	65	106	53	74	-3	-6	-29	-49	-29	-15	-6	-28	-	
54 -16																				
1 SU 1	75	-10	-113	13	-35	-79	-36	90	81	48	-40	0	113	75	51	30	-12	-54	-	
28 -102																				
1 SU 1	75	0	-117	-19	-113	-119	-73	61	90	72	-15	1	41	92	20	39	37	55	-	
17 -22																				
1 SU 1	75	10	-120	-52	-193	-159	-114	26	92	89	10	2	-29	108	-10	47	85	165		
-5 59																				
1 SU 1	75	20	17	17	64	38	4	-72	-110	-124	-123	-36	3	-57	-66	-26	127	153	1	
68 21																				
1 SU 1	75	30	109	178	207	177	130	53	14	-60	-82	-88	-85	-100	-79	-81	-63	-123	-	
95 -12																				
1 SU 1	75	40	-67	-90	-26	74	157	153	114	74	24	32	37	3	-58	-97	-154	-84	-	
43 -48																				
1 SU 1	75	50	-164	-141	-103	-66	17	162	226	199	148	67	10	42	25	21	-1	-64	-1	
89 -190																				
1 SU 1	75	60	-117	-153	-94	-63	-78	-119	-70	89	91	42	37	70	95	65	61	74		
84 -14																				
1 SU 1	75	70	165	170	54	-110	-191	-167	-132	-115	-84	-34	71	58	19	24	54	60		
60 99																				
1 SU 1	75	80	-24	-28	-49	-79	-82	-41	-3	43	42	23	46	59	51	35	13	7		
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1 SU 1	80	-80	3	11	-17	48	-27	-55	-24	-74	25	25	-20	-4	-21	4	23	39		
23 43																				
1 SU 1	80	-70	8	14	-16	77	-28	-71	-32	-103	35	33	-31	-18	-36	2	31	49		
1 31																				

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1 SU	1	80	-60	13	12	-7	88	-10	-57	-26	-97	35	28	-37	-31	-45	-8	23	41
25 55	1	80	-50	18	6	3	82	14	-24	-11	-66	25	15	-34	-43	-49	-17	12	18
8 36	1	80	-40	-5	3	20	58	38	50	19	-29	0	13	2	-36	-21	-12	-10	-43
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31 -17	1	80	-20	-4	-51	-14	-8	69	121	63	86	1	-6	-32	-50	-36	-23	-9	-27
26 10	1	80	-10	-137	15	-32	-91	-35	122	117	70	-59	-12	115	89	58	30	-19	-71
1 SU	1	80	0	-142	-29	-124	-138	-83	79	120	101	-17	1	49	103	26	42	34	48
66 -20	1	80	10	-145	-75	-217	-185	-134	31	116	124	24	13	-15	114	-4	52	84	169
46 -111	1	80	20	-48	19	42	19	7	-27	-96	-158	-118	-11	48	-26	-121	-47	143	250
1 SU	1	80	30	111	232	243	194	95	-32	-88	-75	-45	-53	-67	-17	63	42	-87	-203
25 -30	1	80	40	-97	-281	-264	-77	75	66	-11	-39	-21	11	33	64	93	70	40	95
1 SU	1	80	50	-184	-163	-156	-157	-78	104	235	205	71	-29	-30	32	73	105	122	62
24 -88	1	80	60	10	-25	37	-5	-173	-271	-216	-89	-20	-18	-4	27	4	-23	65	217
1 SU	1	80	70	205	212	79	-96	-177	-163	-144	-136	-99	-37	67	46	8	16	37	32
1 SU	1	80	80	89	103	55	-75	-177	-173	-127	-92	-59	-18	46	20	-41	-25	74	146
51 103	1	85	-80	9	10	-20	62	-30	-70	-39	-89	33	37	-13	-7	-22	6	24	42
32 43	1	85	-70	16	13	-18	98	-32	-92	-54	-125	45	49	-21	-25	-38	4	33	53
44 59	1	85	-60	21	13	-7	110	-12	-77	-48	-119	45	42	-29	-38	-49	-9	23	47
37 56	1	85	-50	26	9	5	101	15	-38	-28	-83	31	23	-29	-50	-55	-20	12	23
1 SU	1	85	-40	-4	6	25	71	43	54	15	-38	0	17	4	-38	-25	-16	-13	-46
14 37	1	85	-30	16	2	14	39	30	-15	40	36	6	-42	-35	-49	-70	-55	-6	44
36 -20	1	85	-20	-10	-54	-13	-12	73	136	73	98	5	-6	-35	-51	-43	-31	-12	-26
1 SU	1	85	-10	-161	17	-29	-103	-34	154	153	92	-78	-24	117	103	65	30	-26	-88
64 -120	1	85	0	-167	-39	-135	-157	-93	97	150	130	-19	1	57	114	32	45	31	41
33 -38	1	85	10	-170	-98	-241	-211	-154	36	140	159	38	24	-1	120	2	57	83	173
1 SU	1	85	20	33	61	12	-42	-28	-30	-96	-179	-145	-29	38	-30	-111	-30	147	239
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43 -72	85	40	-181	-348	-291	-77	83	83	12	-17	-3	35	70	99	106	70	50	116	1
45 46	85	50	-237	-212	-193	-199	-127	73	250	252	115	5	11	81	107	114	124	73	-
53 -183	85	60	7	-29	39	17	-129	-226	-200	-129	-54	-33	9	49	13	-33	42	193	2
84 179	85	70	232	242	101	-77	-160	-153	-149	-147	-96	-23	73	35	-9	-1	12	-4	-
12 113	85	80	118	125	60	-72	-164	-156	-122	-111	-75	-25	46	20	-43	-34	53	119	1
37 116	90	-80	15	9	-23	76	-33	-85	-54	-104	41	49	-6	-10	-23	8	25	45	-
41 43	90	-70	24	12	-20	119	-36	-113	-76	-147	55	65	-11	-32	-40	6	35	57	-
57 59	90	-60	29	14	-7	132	-14	-97	-70	-141	55	56	-21	-45	-53	-10	23	53	-
49 57	90	-50	34	12	7	120	16	-52	-45	-100	37	31	-24	-57	-61	-23	12	28	-
20 38	90	-40	-3	9	30	84	48	58	11	-47	0	21	6	-40	-29	-20	-16	-49	-
41 -23	90	-30	18	10	23	45	30	-27	41	39	2	-50	-37	-56	-77	-65	-8	56	-
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1 SU 1	90	-10	-185	19	-26	-115	-33	186	189	114	-97	-36	119	117	72	30	-33	-105	-
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82 -129	90	10	-195	-121	-265	-237	-174	41	164	194	52	35	13	126	8	62	82	177	-
1 SU 1	90	20	-3	61	-2	-59	-34	-10	-91	-196	-141	-6	72	-12	-144	-46	158	295	1
52 7	90	30	166	312	292	218	81	-95	-178	-111	-23	-23	-70	-10	114	110	-97	-265	-3
10 -109	90	40	-208	-459	-420	-154	44	38	-55	-76	-24	29	73	133	184	157	154	216	2
47 119	90	50	-253	-229	-227	-253	-183	39	257	260	79	-44	-9	81	137	163	192	143	-
17 -166	90	60	75	38	112	54	-171	-304	-281	-229	-124	-72	-14	32	-30	-80	42	265	3
1 SU 1	90	70	274	287	129	-62	-148	-146	-158	-169	-119	-37	63	23	-18	-6	-1	-28	-
98 286	90	80	180	197	117	-66	-208	-220	-185	-184	-134	-53	42	1	-88	-64	82	186	2
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1 SU 2	71	-126	25	60	-114	-122	-111	-89	-55	-20	11	41	51	54	66	86	112	105	71	28
1 SU 2	31	-83	25	70	23	5	-9	-25	-40	-59	-48	-7	23	50	44	9	-6	-19	-12	-1
1 SU 2	29	43	25	80	-48	-50	-56	-48	-38	-10	-2	18	29	38	30	34	37	54	28	19
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1 SU 2	67	-12	30	-70	-49	-7	-6	-46	10	52	101	50	19	0	-43	-2	-9	51	36	-43
1 SU 2	92	-18	30	-60	-45	-12	-2	-40	12	44	98	51	21	3	-40	-7	-6	43	33	-47
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1 SU 2	60	-17	30	-40	-14	-9	19	7	14	-2	14	18	11	14	7	-24	-4	16	2	-26
1 SU 2	22	-23	30	-30	-2	-9	11	10	7	11	25	15	0	5	-27	-15	-15	-33	0	-8
1 SU 2	16	10	30	-20	15	-2	-3	12	23	-37	-39	-33	7	19	20	4	18	-38	-2	4
1 SU 2	12	20	30	-10	-21	53	39	52	0	29	-84	-44	-37	-5	29	-36	-68	19	-30	64
1 SU 2	56	-16	30	0	-45	70	-11	-7	12	67	-34	-61	-30	-14	-15	15	-59	18	11	77
1 SU 2	-5	30	30	10	-71	79	-62	-69	24	99	11	-78	-26	-24	-59	66	-50	17	52	88
1 SU 2	68	71	30	20	-2	-26	43	49	25	-64	-67	-42	-29	-42	13	36	55	-30	46	-10
1 SU 2	86	-41	30	30	-31	-39	5	9	31	26	43	49	14	24	61	35	52	-52	-67	-77
1 SU 2	27	-56	30	40	-152	-156	-120	-76	-9	54	73	69	66	87	108	138	122	92	-2	-46
1 SU 2	09	-136	30	50	-204	-199	-165	-118	-45	29	58	68	111	111	114	168	186	151	55	-23
1 SU 2	24	-174	30	60	-135	-148	-139	-113	-75	-32	10	49	60	65	93	130	158	136	75	19
1 SU 2	54	-101	30	70	24	-7	-27	-55	-65	-52	-43	-5	25	55	42	7	-13	-21	6	16
1 SU 2	52	62	30	80	-58	-64	-74	-67	-52	-12	0	22	41	54	51	51	51	62	25	14
1 SU 2	24	-28	35	-80	-11	-1	-12	-19	-15	7	16	11	11	8	8	16	-10	0	0	1
1 SU 2	-9	-4	35	-70	-8	-11	-10	-7	-10	2	7	4	20	25	20	11	-10	-6	-7	-9
1 SU 2	-3	-6	35	-60	-10	-13	-15	-21	-19	-4	20	26	27	14	21	27	-12	-16	-9	-5
1 SU 2	2	-12	35	-50	-3	-3	-7	-19	-16	-4	21	22	-1	7	6	12	8	-2	-5	1
11	-6																			

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MEMBER: SCIDAT9

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1 SU 2	40	50	-313	-275	-194	-93	20	124	159	179	218	209	203	211	175	85	-48	-141	-2
33 -286	40	60	-242	-267	-235	-177	-92	-5	73	138	147	145	171	204	222	169	68	-31	-1
11 -177	40	70	123	67	-19	-121	-180	-207	-231	-195	-91	13	74	61	63	98	154	151	1
22 117	40	80	-83	-87	-93	-92	-73	-33	-14	18	54	76	93	93	96	94	47	11	-
1 SU 2	45	-80	-7	3	-8	-18	-17	5	9	1	4	7	9	15	-11	0	0	4	-
-6 1	45	-70	-9	-11	-7	-3	-8	3	2	-3	17	28	21	10	-12	-7	-7	-8	-
1 SU 2	45	-60	-3	-10	-12	-18	-18	-3	15	16	19	11	16	19	-13	-11	-6	-4	-
5 -3	45	-50	3	-1	-6	-19	-15	-2	20	16	-8	4	5	9	8	1	-3	0	-
1 SU 2	45	-40	-18	0	20	5	16	3	4	-1	-8	-2	0	-18	25	23	-2	-11	-
11 -2	45	-30	-5	-6	25	17	23	14	11	3	-3	-12	-36	-20	5	-9	-3	-16	-
21 -16	45	-20	3	-27	-30	8	37	-17	-9	-7	20	29	1	-13	26	-29	-3	-9	-
1 SU 2	45	-10	-40	42	7	60	10	33	-60	-27	8	5	29	-41	-69	31	-43	47	-
6 14	45	0	-54	73	-30	-22	1	65	-26	-57	1	-2	-11	1	-63	26	11	82	-
59 -52	45	10	-68	97	-71	-102	-9	88	2	-90	-11	-13	-51	37	-62	21	66	114	-
16 21	45	20	73	-12	0	-4	-26	-91	-120	-109	-72	-30	14	15	0	-41	53	74	1
1 SU 2	45	30	34	39	58	74	77	77	63	48	7	-1	11	-11	-36	-98	-118	-131	-
1 SU 2	45	40	-136	-77	-8	43	100	128	155	172	173	159	124	84	-1	-89	-206	-222	-2
66 -27	45	50	-312	-258	-161	-53	58	152	183	205	244	219	192	183	137	41	-94	-179	-2
1 SU 2	45	60	-244	-267	-234	-165	-65	22	94	154	162	154	171	194	208	154	48	-58	-1
15 -185	45	70	107	47	-44	-147	-196	-212	-231	-193	-87	22	81	70	79	119	173	172	1
1 SU 2	45	80	-95	-96	-100	-93	-66	-25	-5	28	66	86	98	95	97	93	43	5	-
32 109	50	-80	-4	4	-7	-19	-18	2	4	-3	2	7	10	16	-10	2	2	6	-
1 SU 2	50	-70	-9	-12	-6	-1	-5	3	-1	-8	14	29	22	10	-13	-8	-7	-8	-
-3 4	50	-60	2	-8	-13	-20	-21	-5	13	13	17	11	16	17	-13	-9	-5	-4	-
1 SU 2	50	-50	4	0	-4	-19	-17	-6	15	14	-9	4	5	9	10	5	-1	1	-
8 2	50	-40	-17	2	20	4	15	4	7	1	-8	-2	-1	-18	26	22	-4	-11	-
1 SU 2	50	-30	-17	2	20	4	15	4	7	1	-8	-2	-1	-18	26	22	-4	-11	-
23 -17	50	-20	-17	2	20	4	15	4	7	1	-8	-2	-1	-18	26	22	-4	-11	-

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1 SU 2	55	60	-157	-189	-168	-101	-20	15	80	137	141	116	137	146	144	100	-11	-81	-1
1 SU 2	35	-153																	
1 SU 2	55	70	146	91	1	-118	-275	-438	-527	-441	-203	11	214	187	133	207	273	302	2
1 SU 2	64	174																	
1 SU 2	55	80	-59	-60	-64	-59	-73	-93	-99	-48	34	72	124	106	86	98	51	39	
1 SU 2	-9	-49																	
1 SU 2	60	-80	-12	31	14	-59	-17	26	39	-16	-44	-39	-27	22	35	42	25	5	-
1 SU 2	49	29																	
1 SU 2	60	-70	-16	38	21	-79	-20	38	60	-16	-60	-54	-40	26	50	54	31	0	-
1 SU 2	71	37																	
1 SU 2	60	-60	-14	29	22	-71	-11	40	66	-6	-54	-50	-41	16	49	46	25	-11	-
1 SU 2	70	31																	
1 SU 2	60	-50	-11	11	18	-43	3	34	60	7	-33	-33	-33	0	37	25	13	-23	-
1 SU 2	53	15																	
1 SU 2	60	-40	-20	2	10	-2	18	12	27	15	1	4	4	-23	19	19	-7	-27	-
1 SU 2	27	-24																	
1 SU 2	60	-30	-2	-30	11	22	32	40	48	37	6	-20	-43	-30	-28	-31	1	-23	
1 SU 2	4	6																	
1 SU 2	60	-20	-8	-38	-47	2	41	8	8	3	37	44	3	-34	13	-32	3	-13	
1 SU 2	7	3																	
1 SU 2	60	-10	-81	30	-5	66	12	-4	-62	-18	45	27	54	-45	-95	49	-5	52	
1 SU 2	47	-68																	
1 SU 2	60	0	-80	47	-53	-30	-5	33	-38	-76	12	5	9	2	-58	62	62	111	
1 SU 2	24	35																	
1 SU 2	60	10	-80	51	-107	-130	-28	56	-21	-142	-31	-23	-41	42	-28	75	130	161	
1 SU 2	-4	120																	
1 SU 2	60	20	115	33	32	17	-1	-53	-87	-93	-77	-60	-46	-60	-54	-56	49	61	1
1 SU 2	66	114																	
1 SU 2	60	30	131	133	124	93	71	66	65	52	-17	-32	-50	-97	-119	-175	-160	-129	
1 SU 2	-8	54																	
1 SU 2	60	40	-46	16	58	86	114	123	148	148	123	104	52	-11	-120	-189	-236	-172	-1
1 SU 2	16	-82																	
1 SU 2	60	50	-176	-134	-24	86	139	172	136	132	193	135	48	24	7	-50	-126	-162	-2
1 SU 2	02	-199																	
1 SU 2	60	60	-114	-153	-147	-81	-8	3	53	98	91	77	103	120	129	99	1	-63	-1
1 SU 2	01	-109																	
1 SU 2	60	70	135	98	17	-116	-266	-414	-498	-444	-243	-19	204	181	108	152	280	344	2
1 SU 2	86	194																	
1 SU 2	60	80	-47	-45	-48	-44	-61	-92	-106	-72	0	49	109	100	76	82	62	59	
1 SU 2	5	-29																	
1 SU 2	65	-80	-6	25	7	-57	-21	21	30	-25	-63	-47	-32	17	43	59	38	11	-
1 SU 2	43	40																	
1 SU 2	65	-70	-8	30	13	-76	-24	32	48	-28	-86	-65	-47	19	62	79	50	8	-
1 SU 2	61	54																	
1 SU 2	65	-60	-6	21	15	-65	-13	35	55	-16	-77	-59	-48	8	60	69	43	-3	-
1 SU 2	60	46																	
1 SU 2	65	-50	-5	5	13	-38	3	32	52	1	-49	-39	-39	-7	43	42	26	-16	-
1 SU 2	46	25																	
1 SU 2	65	-40	-23	-4	7	5	15	12	25	18	0	3	1	-31	18	23	-2	-22	-
1 SU 2	22	-22																	
1 SU 2	65	-30	0	-27	13	23	41	46	58	38	6	-25	-48	-32	-31	-30	2	-25	
1 SU 2	-6	-1																	

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1 SU 2	70	70	164	187	122	-29	-192	-353	-486	-506	-341	-84	194	181	74	95	236	313	2	
53 172	70	80	-17	-2	-6	-10	-39	-79	-113	-107	-56	-3	80	88	61	66	57	68		
1 SU 2	75	-80	21	29	9	-57	-40	3	-22	-65	-93	-59	-17	24	48	87	60	21	-	
15 60	75	-70	32	36	14	-74	-49	8	-26	-84	-126	-80	-26	27	67	116	80	20	-	
24 80	75	-60	33	27	16	-61	-35	14	-16	-68	-114	-72	-27	16	65	104	71	6	-	
26 69	75	-50	23	9	12	-31	-9	18	0	-32	-72	-45	-21	-4	45	65	44	-12	-	
1 SU 2	75	-40	-21	-14	-1	22	9	13	8	24	9	7	13	-32	15	25	-10	-26	-	
16 -25	75	-30	2	-13	17	23	60	52	66	31	4	-19	-43	-38	-40	-29	9	-36	-	
27 -19	75	-20	-31	-51	-57	12	42	10	21	46	83	76	18	-39	-1	-59	-11	-23	-	
1 SU 2	75	-10	-172	-2	-18	92	20	35	53	85	131	42	57	-52	-123	7	-55	40	-	
-5 -30	75	0	-141	25	-65	-32	-19	35	29	-17	58	19	32	12	-71	56	64	116	-	
1 SU 2	75	10	-109	34	-121	-160	-63	18	-5	-131	-29	-13	2	65	-31	105	184	184	-	
1 -20	75	20	69	-22	-30	-39	-59	-106	-131	-135	-76	-15	27	-11	-39	-34	104	155	2	
1 SU 2	75	30	138	141	131	102	77	53	29	19	-23	-28	-62	-110	-101	-127	-123	-133	-	
33 108	75	40	-19	37	61	42	22	37	98	131	106	73	21	-8	-73	-114	-163	-116	-	
29 44	75	50	-106	-107	-32	57	105	137	89	46	76	14	-30	3	27	10	-38	-58	-	
1 SU 2	75	60	-57	-120	-130	-73	-23	-37	1	50	36	18	65	98	116	99	26	-9	-	
81 -56	75	70	185	210	141	-13	-172	-328	-474	-521	-371	-109	186	178	57	64	209	306	2	
94 -98	75	80	-6	6	-1	-7	-36	-72	-104	-105	-64	-16	72	84	56	56	47	65	-	
1 SU 2	80	-80	34	32	13	-57	-50	-5	-50	-87	-106	-66	-9	28	49	99	70	26	-	
1 SU 2	80	-70	51	41	19	-73	-63	-2	-66	-114	-143	-89	-15	32	68	132	94	26	-	
-2 69	80	-60	53	32	22	-58	-46	6	-53	-95	-129	-78	-15	22	67	120	84	11	-	
1 SU 2	80	-50	37	12	15	-27	-16	12	-28	-50	-82	-48	-11	-2	44	75	51	-11	-	
-9 80	80	-40	-20	-18	-3	31	6	14	-1	27	14	9	20	-32	13	25	-16	-29	-	
15 44	80	-30	3	-6	19	23	69	54	69	27	3	-15	-39	-41	-45	-28	13	-42	-	
1 SU 2	80	-20	-39	-58	-63	16	44	10	30	65	100	89	22	-42	-5	-66	-17	-30	-	
37 -28																				-
1 SU 2																				-
11 -43																				-

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START COL	1	2	3	4	5	6	7	8	9	0										
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00 217																				
1 SU 2	90	-80	60	38	21	-57	-70	-21	-106	-131	-132	-80	7	36	51	123	90	36		
24 87																				
1 SU 2	90	-70	89	51	29	-71	-91	-22	-146	-174	-177	-107	7	42	70	164	122	38		
30 119																				
1 SU 2	90	-60	93	42	34	-52	-68	-10	-127	-149	-159	-90	9	34	71	152	110	21		
25 102																				
1 SU 2	90	-50	65	18	21	-19	-30	0	-84	-86	-102	-54	9	2	42	95	65	-9		
5 56																				
1 SU 2	90	-40	-18	-26	-7	49	0	16	-19	33	24	13	34	-32	9	25	-28	-35		
10 -31																				
1 SU 2	90	-30	5	8	23	23	87	58	75	19	1	-7	-31	-47	-55	-26	21	-54		
57 -46																				
1 SU 2	90	-20	-55	-72	-75	24	48	10	48	103	134	115	30	-48	-13	-80	-29	-44		
23 -69																				
1 SU 2	90	-10	-268	-32	-36	128	41	80	182	196	209	63	66	-61	-141	-35	-124	16		
65 -213																				
1 SU 2	90	0	-207	10	-71	-32	-31	35	98	37	103	40	56	15	-86	50	58	110		
26 -86																				
1 SU 2	90	10	-139	31	-121	-190	-105	-30	1	-128	-17	8	50	77	-43	132	241	205		
3 26																				
1 SU 2	90	20	-11	-72	-146	-214	-269	-324	-413	-394	-124	276	390	139	-153	-83	248	529	4	
25 192																				
1 SU 2	90	30	121	199	183	195	207	138	-25	-143	-108	-20	6	12	13	-5	-153	-275	-2	
74 -69																				
1 SU 2	90	40	-294	-269	-191	-156	-147	-100	36	238	417	453	366	227	103	-11	-87	-141	-1	
94 -252																				
1 SU 2	90	50	-189	-253	-235	-159	-30	140	255	143	-120	-259	-146	70	197	180	160	152	1	
16 -28																				
1 SU 2	90	60	9	-80	-108	-128	-167	-144	-37	89	125	32	-47	-10	58	64	49	57	1	
22 118																				
1 SU 2	90	70	280	259	149	-13	-144	-266	-418	-521	-427	-175	145	147	-8	-42	115	289	3	
33 299																				
1 SU 2	90	80	198	104	2	-122	-223	-299	-364	-396	-319	-145	65	75	-6	23	232	405	4	
38 323																				
1 SU 3	20	-80	-37	7	0	-20	0	8	6	32	48	55	-15	33	-5	16	13	-36	-	
69 -31																				
1 SU 3	20	-70	-53	7	2	-28	-1	9	8	47	69	78	-21	43	-8	21	20	-50	-	
94 -43																				
1 SU 3	20	-60	-53	3	4	-26	-4	5	8	49	68	77	-19	37	-10	18	22	-46	-	
87 -40																				
1 SU 3	20	-50	-42	-2	6	-17	-5	0	6	41	53	60	-12	21	-12	11	20	-31	-	
60 -29																				
1 SU 3	20	-40	-28	-7	7	0	-7	-14	-1	22	34	46	7	6	-14	2	13	-7	-	
31 -31																				
1 SU 3	20	-30	0	-8	8	-2	-3	23	9	12	3	-13	-10	-17	-21	-11	2	-6	-	
16 18																				
1 SU 3	20	-20	-14	-14	1	8	28	-16	3	-4	-17	-10	2	-21	-15	-8	-6	37		
34 12																				
1 SU 3	20	-10	19	21	-1	32	13	40	-6	-38	-6	-7	36	4	-36	-14	-31	10		
2 -38																				

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MEMBER: SCIDAT9

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51	8	30	-70	-56	25	-7	-15	17	15	-4	37	28	26	-68	15	-11	38	41	-18	-	
1 SU	3	30	-70	-56	25	-7	-15	17	15	-4	37	28	26	-68	15	-11	38	41	-18	-	
69	12	30	-60	-53	22	-2	-9	17	12	-2	38	30	24	-68	8	-14	32	37	-18	-	
1 SU	3	30	-60	-53	22	-2	-9	17	12	-2	38	30	24	-68	8	-14	32	37	-18	-	
62	14	30	-50	-36	14	4	-1	15	7	1	32	26	17	-52	-2	-17	16	22	-14	-	
1 SU	3	30	-50	-36	14	4	-1	15	7	1	32	26	17	-52	-2	-17	16	22	-14	-	
41	13	30	-40	-15	8	14	9	13	2	3	20	17	21	-19	-13	-25	-3	5	-8	-	
1 SU	3	30	-40	-15	8	14	9	13	2	3	20	17	21	-19	-13	-25	-3	5	-8	-	
22	-7	30	-30	13	-1	5	12	3	18	6	6	7	22	-20	-13	-18	-21	-21	-9	-	
1 SU	3	30	-30	13	-1	5	12	3	18	6	6	7	22	-20	-13	-18	-21	-21	-9	-	
22	32	30	-20	2	-8	16	13	16	-17	15	-14	-4	-11	9	-32	-20	-23	-13	32	-	
1 SU	3	30	-20	2	-8	16	13	16	-17	15	-14	-4	-11	9	-32	-20	-23	-13	32	-	
31	9	30	-10	37	22	-2	5	3	56	-10	-24	-16	16	40	20	-42	-28	-35	-3	-	
1 SU	3	30	-10	37	22	-2	5	3	56	-10	-24	-16	16	40	20	-42	-28	-35	-3	-	
-2	-36	30	0	-5	34	-26	-22	18	59	-8	-38	-22	-2	3	36	-33	3	-6	28	-	
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21 36																			
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58 -102																				
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08 -108																				
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56 -114																				
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98 -99																				
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76 131																				
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89 -1																				
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23 -23																				
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58 -136																				
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78 113																				
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65 -6																				
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-2 15																				
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45 20																				
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30 -29																				
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23 -24																				
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38 25																				

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17 28																			
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-5 5																			
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16 8																			
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14 32																			
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29 -38																			
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23 -31																			
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14 21																			
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34 49																			
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2 15																			
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12 -19																			
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20 9																			
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6 23																			
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26 38																			
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27 -5																			
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42 -43																			
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23 -31																			

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9 36	1 SU	4	60	10	-86	-22	-85	-28	35	47	73	13	3	30	23	88	-5	-69	-15	19
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14 37	1 SU	4	65	-80	-19	63	63	66	86	57	20	73	40	10	-38	-38	-65	-61	-41	-81
1 SU	4	65	-70	-16	100	104	103	126	82	26	101	49	4	-65	-69	-104	-93	-63	-115	-
58 -76	1 SU	4	65	-60	3	117	124	116	132	83	25	93	38	-10	-81	-92	-121	-102	-68	-111
1 SU	4	65	-50	30	116	126	110	113	68	18	63	12	-30	-87	-105	-120	-95	-61	-83	-
75 -98	1 SU	4	65	-40	70	110	114	92	63	37	7	11	-25	-44	-81	-116	-88	-64	-35	-45
1 SU	4	65	-30	55	70	75	63	66	30	13	-9	-40	-56	-78	-87	-107	-77	-50	-3	3
54 74	1 SU	4	65	-20	72	54	59	32	8	-1	-4	-48	-55	-69	-56	-73	-56	-45	-12	40
1 SU	4	65	-10	74	38	-13	13	-31	-15	24	-82	-81	-8	-22	-48	8	-6	15	37	37
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28 68	1 SU	4	65	10	-91	-31	-95	-27	47	41	67	13	19	42	24	91	-10	-83	-22	16
1 SU	4	65	30	38	49	52	45	17	-17	-17	-6	-23	-59	-51	-31	-26	9	12	-22	-24
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12 22	75	10	-108	-39	-115	-42	32	8	70	66	40	36	17	105	-5	-87	-23	32	-	
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10 24	75	30	34	36	43	49	22	-15	-3	-27	-75	-68	-36	-22	15	11	-22	-14	-	
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52 73	80	-10	-30	19	-1	23	-19	-15	64	10	-38	27	-28	-31	30	-11	28	14	-	
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78 63																		
1 SU 4	90	30	-106	-187	-115	-8	85	128	56	-129	-307	-323	-111	130	172	99	97	195
33 89																		
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73 -261																		
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80 28																		
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23 -3																		
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10 59																		
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10 75																		
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79 -62																		
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11 -88																		
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29 22																		
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-2 -3																		
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-4 28																			
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-6 -6																			
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-9 -11																			
1 SU	5	30	60	9	2	3	8	13	12	1	-4	-5	-8	-15	-8	-8	-6	-5	3
0 7																			
1 SU	5	30	70	17	5	1	5	6	4	2	1	0	2	-3	-16	-21	-20	-14	-3
13 22																			
1 SU	5	30	80	7	2	0	6	7	16	5	-1	0	-2	-2	-8	-17	-5	-8	6
-4 6																			
1 SU	5	35	-80	-31	-33	-36	-28	-22	-21	-16	3	7	18	31	44	31	26	24	12
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1 SU	5	35	-70	0	-7	-7	-13	-22	-36	-48	-36	-18	-13	4	17	23	29	37	33
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56 -81																			
1 SU	5	35	-40	-75	-56	-31	1	24	48	66	93	98	82	54	20	1	-20	-47	-79
88 -89																			
1 SU	5	35	-30	-10	-6	17	17	57	77	65	59	40	16	-36	-33	-35	-42	-48	-59
51 -29																			
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21 26																			
1 SU	5	35	-10	31	26	-8	12	-5	1	14	-70	-34	-13	21	-10	-18	-7	-33	40
36 19																			
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6 5																			
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27 -12																			
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-5 -6																			
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-8 -8																			
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3 4																			
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-3 6																			
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-3 -18																			
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32 24																			

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1 SU 5	60	60	6	3	12	14	20	17	3	-6	1	-2	-18	-3	-12	-13	-15	1	
12 -15	60	70	17	2	16	27	29	44	12	-6	-7	-17	-17	-24	-35	-17	-22	7	
1 SU -1	60	80	14	4	13	22	24	35	10	-7	-7	-16	-16	-19	-28	-13	-18	6	
1 SU 5	65	-80	-176	-103	-69	0	17	-19	3	154	193	179	102	112	58	5	-34	-92	-1
12 0	65	-70	-239	-134	-84	8	34	-15	10	217	271	248	135	141	68	-4	-57	-138	-2
1 SU 5	65	-60	-217	-111	-61	25	50	2	19	212	262	233	117	111	44	-22	-69	-146	-2
14 -251	65	-50	-142	-57	-16	44	61	28	27	158	192	160	63	43	0	-44	-73	-126	-1
08 -235	65	-40	-41	1	32	94	69	52	27	60	77	51	3	-29	-32	-52	-75	-84	-
1 SU 5	65	-30	47	71	80	29	79	75	62	48	16	-27	-88	-106	-114	-83	-46	-48	-
1 SU -74	65	-20	132	100	81	63	78	22	-94	-112	-144	-118	-144	-100	-67	-35	19		
20 25	65	-10	99	45	62	123	67	53	41	-81	-127	-150	-120	-85	-47	-10	-25	43	
1 SU 5	65	0	26	18	0	50	49	17	29	-31	-63	-100	-80	11	12	32	24	74	
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1 SU 5	65	20	10	-20	-29	-46	-40	-65	-39	-49	-17	10	-22	8	66	44	83	26	
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1 SU 5	70	-70	-201	-100	-54	31	67	-16	-38	177	228	221	119	120	49	-24	-77	-128	-1
23 -150	70	-60	-179	-78	-32	47	82	2	-30	169	219	208	102	90	25	-42	-89	-136	-1
1 SU 5	70	-50	-110	-32	4	60	86	27	-11	122	159	142	54	28	-15	-59	-88	-119	-1
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1 SU 5	70	-50	-110	-32	4	60	86	27	-11	122	159	142	54	28	-15	-59	-88	-119	-1
27 -127	70	-50	-110	-32	4	60	86	27	-11	122	159	142	54	28	-15	-59	-88	-119	-1

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67 -55	70	-30	55	67	78	26	83	72	57	40	14	-26	-87	-105	-117	-85	-49	-48	-
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1 SU 5	70	-10	86	19	46	124	54	49	69	-39	-120	-153	-115	-66	-41	3	-14	40	-
20 40	70	0	21	0	-4	56	42	7	38	-3	-62	-116	-92	18	20	40	32	79	-
1 SU 5	70	10	-69	-28	-63	-28	19	-37	-7	13	-14	-88	-80	92	70	68	70	103	-
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22 -14	75	-80	-136	-69	-38	24	57	-17	-56	111	141	152	85	89	38	-17	-53	-77	-1
1 SU 5	75	-70	-181	-86	-42	43	90	-14	-77	152	198	211	113	108	39	-37	-85	-117	-1
1 SU 5	75	-60	-158	-65	-21	58	104	3	-68	142	190	199	98	79	15	-54	-96	-126	-1
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1 SU 5	75	-20	129	124	93	78	45	65	23	-114	-96	-135	-108	-139	-86	-55	-22	21	-
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23 -21	75	80	-1	-12	4	27	28	47	41	23	-1	-14	-12	-15	-34	-19	-21	4	-	
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1 SU 5	80	-70	-161	-72	-30	55	113	-12	-116	127	168	201	107	96	29	-50	-93	-106	-1	
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START
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51 65	5																	
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26 -42	90	80	-13	-27	-8	27	25	56	71	59	11	-8	-6	-12	-37	-25	-24	1
18 -32	20	-80	-71	-7	-45	-31	2	-3	-46	14	68	71	36	79	57	62	1	-35
65 -84	20	-70	-104	-14	-61	-45	-1	-7	-62	25	101	104	51	107	80	84	6	-48
92 -121	20	-60	-105	-17	-55	-44	-9	-12	-57	34	106	108	51	97	75	77	11	-44
90 -121	20	-50	-85	-18	-35	-34	-17	-15	-37	39	92	91	41	64	51	50	14	-31
69 -96	20	-40	-66	-34	-27	-24	-17	-18	-12	45	70	76	43	34	28	23	11	-16
40 -76	20	-30	0	20	34	7	-25	-4	15	32	33	16	-21	-38	-37	-33	2	4
1 SU 6	20	-20	0	-2	24	-1	-6	4	47	26	-3	-14	-5	-42	-53	-39	-8	18
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11 -17	20	0	6	45	-16	2	64	58	22	-5	-3	-12	-2	13	-66	-17	-91	-15
1 SU 6	20	10	5	93	-20	-9	98	94	19	-35	-17	-45	-22	41	-82	3	-125	-26
1 SU 6	20	20	14	19	22	43	-2	-15	-1	14	29	31	20	-15	11	-52	-90	-55
11 39	20	30	-1	-34	24	25	-8	-10	20	13	6	12	28	-25	17	-51	-3	-8
35 -7	20	40	9	4	-2	-11	19	-13	-7	-15	-6	1	-7	13	5	15	15	7
14 -19	20	50	-8	-4	-7	-4	2	8	0	-7	-3	0	-12	-3	14	21	19	3
1 SU 6	20	60	-14	-13	-6	3	9	5	3	4	2	2	-3	-2	6	9	9	2
1 SU 6	20	70	-8	-10	-5	3	6	-1	-4	-1	-1	2	3	3	2	2	5	5
3 -1	20	80	-8	-9	-10	-6	5	4	-1	-1	-4	-2	-6	3	0	16	19	11
1 SU 6	25	-80	-110	-31	-69	-50	-2	7	-17	45	97	101	42	91	38	39	8	-18
1 SU 6	25	-70	-157	-48	-96	-70	-5	10	-18	74	144	147	60	122	50	50	11	-29
74 -90	25	-60	-157	-52	-90	-67	-8	10	-8	88	152	151	60	109	44	40	10	-33
06 -131	25	-50	-125	-47	-65	-49	-11	8	8	88	132	125	48	69	26	19	5	-32
07 -134	25	-40	-84	-53	-46	-35	-13	-1	14	72	96	95	51	35	18	9	2	-25
87 -112	25	-30	-13	12	22	19	-1	21	47	64	50	23	-25	-46	-45	-49	-21	-17
1 SU 6	25	-30	-13	12	22	19	-1	21	47	64	50	23	-25	-46	-45	-49	-21	-17
49 -85	25	-30	-13	12	22	19	-1	21	47	64	50	23	-25	-46	-45	-49	-21	-17
1 SU 6	25	-30	-13	12	22	19	-1	21	47	64	50	23	-25	-46	-45	-49	-21	-17
25 -16	25	-30	-13	12	22	19	-1	21	47	64	50	23	-25	-46	-45	-49	-21	-17

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START
COL

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1 SU 6	40	-10	47	35	8	30	8	-32	-57	-72	-82	-67	-33	12	68	27	55	
72 36	40	0	-22	44	-20	1	15	-16	-53	-62	-67	-69	-47	18	12	63	26	81
1 SU 6	40	10	-84	58	-39	-23	30	9	-40	-57	-54	-47	-20	72	19	64	32	110
22 8	40	10	-84	58	-39	-23	30	9	-40	-57	-54	-47	-20	72	19	64	32	110
1 SU 6	40	20	-14	-41	-38	-21	-26	-35	-21	-15	-15	12	34	39	28	24	18	7
19 -12	40	20	-14	-41	-38	-21	-26	-35	-21	-15	-15	12	34	39	28	24	18	7
1 SU 6	40	30	23	8	13	-1	-25	-32	-22	-6	-4	6	8	28	16	8	-23	
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1 SU 6	40	40	-1	-9	-5	-18	-26	-25	-20	-1	12	12	13	9	-5	4	13	22
1 SU 6	40	40	-1	-9	-5	-18	-26	-25	-20	-1	12	12	13	9	-5	4	13	22
17 9	40	50	-17	-24	-1	22	26	22	11	4	-1	-7	-4	-8	-5	-2	3	2
1 SU 6	40	50	-17	-24	-1	22	26	22	11	4	-1	-7	-4	-8	-5	-2	3	2
12 -12	40	60	29	10	-1	11	18	12	13	4	-13	-20	-16	-3	-9	-17	-27	-12
1 SU 6	40	60	29	10	-1	11	18	12	13	4	-13	-20	-16	-3	-9	-17	-27	-12
4 19	40	70	-28	-9	7	3	2	9	12	8	-2	7	-4	-16	-15	-5	8	25
1 SU 6	40	70	-28	-9	7	3	2	9	12	8	-2	7	-4	-16	-15	-5	8	25
1 SU 6	40	80	1	2	6	12	14	13	10	4	-4	-9	-14	-15	-13	-7	-6	7
8 -9	40	80	1	2	6	12	14	13	10	4	-4	-9	-14	-15	-13	-7	-6	7
1 SU 6	45	-80	-34	-13	-24	-25	-8	-7	-4	6	31	52	46	47	27	5	-10	-17
1 SU 6	45	-80	-34	-13	-24	-25	-8	-7	-4	6	31	52	46	47	27	5	-10	-17
33 -38	45	-70	13	14	-8	-29	-31	-43	-34	-17	14	32	42	47	20	3	1	0
1 SU 6	45	-70	13	14	-8	-29	-31	-43	-34	-17	14	32	42	47	20	3	1	0
10 -16	45	-60	-38	-34	-40	-39	-25	-12	1	-6	19	55	43	52	57	42	23	-6
1 SU 6	45	-60	-38	-34	-40	-39	-25	-12	1	-6	19	55	43	52	57	42	23	-6
1 SU 6	45	-50	-56	-27	2	8	35	35	33	29	14	34	45	24	30	-1	-35	-62
37 -52	45	-50	-56	-27	2	8	35	35	33	29	14	34	45	24	30	-1	-35	-62
1 SU 6	45	-40	-60	-27	-8	24	56	53	29	59	71	52	8	-16	-23	-19	-40	-51
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1 SU 6	45	-30	49	33	36	38	21	18	7	11	-36	-58	-72	-59	-32	-13	5	13
1 SU 6	45	-30	49	33	36	38	21	18	7	11	-36	-58	-72	-59	-32	-13	5	13
44 -61	45	-20	64	36	45	20	-5	-20	-12	-74	-121	-129	-65	-48	10	62	72	66
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15 24	45	-10	29	14	-3	33	4	-42	-65	-41	-60	-94	-60	-17	38	87	35	51
1 SU 6	45	-10	29	14	-3	33	4	-42	-65	-41	-60	-94	-60	-17	38	87	35	51
43 57	45	0	-31	33	-27	-4	10	-28	-59	-49	-57	-68	-38	32	31	72	22	70
1 SU 6	45	0	-31	33	-27	-4	10	-28	-59	-49	-57	-68	-38	32	31	72	22	70
69 25	45	10	-84	59	-42	-34	25	-3	-40	-42	-44	-32	-7	86	32	66	18	96
1 SU 6	45	10	-84	59	-42	-34	25	-3	-40	-42	-44	-32	-7	86	32	66	18	96
13 -4	45	20	-22	-46	-40	-22	-31	-37	-21	-18	-17	8	38	49	42	37	25	7
1 SU 6	45	20	-22	-46	-40	-22	-31	-37	-21	-18	-17	8	38	49	42	37	25	7
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1 SU 6	45	40	-1	-11	-5	-18	-26	-25	-20	0	13	12	13	8	-7	2	13	23
-4 11	45	50	-17	-25	-4	21	27	25	12	6	-1	-9	-4	-7	-5	-3	2	2
1 SU 6	45	50	-17	-25	-4	21	27	25	12	6	-1	-9	-4	-7	-5	-3	2	2
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6 -14	45	70	-36	-12	8	2	2	12	18	14	0	6	-6	-17	-16	-4	11	28

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-1 1																		
1 SU 6	50	-80	-33	-6	-16	-21	0	0	-2	8	31	51	43	42	19	-2	-18	-22
35 -39																		
1 SU 6	50	-70	5	9	-14	-38	-30	-33	-27	-6	23	42	51	54	21	-1	-6	-7
17 -27																		
1 SU 6	50	-60	-32	-20	-25	-33	-17	-7	-2	-7	17	49	38	46	50	33	10	-13
38 -48																		
1 SU 6	50	-50	-36	-4	26	27	54	42	19	2	-14	11	23	4	20	-4	-31	-53
51 -34																		
1 SU 6	50	-40	-43	-4	13	41	68	51	10	32	48	30	-17	-35	-34	-21	-34	-35
26 -42																		
1 SU 6	50	-30	65	41	36	30	9	-2	-12	-11	-60	-73	-78	-54	-21	8	25	32
31 37																		
1 SU 6	50	-20	67	30	37	9	-16	-32	-21	-89	-132	-127	-55	-29	35	81	81	68
39 55																		
1 SU 6	50	-10	9	-13	-20	32	-1	-47	-67	-23	-39	-95	-47	3	63	99	33	40
61 12																		
1 SU 6	50	0	-41	22	-37	-10	5	-36	-62	-38	-45	-63	-26	48	48	79	14	59
3 -16																		
1 SU 6	50	10	-82	65	-43	-44	23	-12	-42	-35	-39	-19	5	99	43	69	5	84
42 -33																		
1 SU 6	50	20	-31	-51	-41	-24	-36	-42	-22	-20	-20	5	39	59	58	53	34	7
52 -21																		
1 SU 6	50	30	22	7	17	0	-26	-37	-25	-9	-7	-11	0	5	29	23	18	-16
-2 12																		
1 SU 6	50	40	-2	-15	-6	-16	-24	-24	-20	1	13	11	12	7	-8	0	11	23
23 15																		
1 SU 6	50	50	-17	-27	-7	19	28	27	14	9	0	-9	-4	-7	-5	-3	2	3
11 -11																		
1 SU 6	50	60	27	11	0	10	16	11	13	4	-10	-17	-13	0	-7	-17	-27	-15
0 16																		
1 SU 6	50	70	-46	-17	8	0	1	16	27	24	9	12	-3	-14	-19	-7	10	22
-1 -22																		
1 SU 6	50	80	-4	-2	4	11	14	17	14	11	2	-7	-12	-15	-16	-11	-7	4
-4 0																		
1 SU 6	55	-80	-103	57	51	81	165	139	-25	67	99	84	-55	-33	-112	-112	-102	-45
62 -93																		
1 SU 6	55	-70	-137	84	79	119	236	197	-39	89	130	108	-88	-55	-161	-156	-139	-61
83 -126																		
1 SU 6	55	-60	-119	88	88	126	234	193	-44	80	112	89	-101	-66	-159	-147	-126	-54
72 -114																		
1 SU 6	55	-50	-72	75	80	108	183	146	-43	49	62	42	-100	-67	-122	-104	-84	-34
44 -76																		
1 SU 6	55	-40	-48	28	55	91	130	99	-38	25	31	-3	-80	-53	-59	-41	-47	-26
19 -50																		
1 SU 6	55	-30	90	62	40	25	-6	-30	-46	-40	-90	-84	-87	-51	-17	22	49	53
52 56																		
1 SU 6	55	-20	63	19	23	-6	-27	-41	-21	-88	-124	-107	-33	-7	55	87	76	56
27 50																		
1 SU 6	55	-10	-18	-48	-50	25	-6	-34	-51	5	0	-69	-20	30	83	97	7	16
41 -5																		

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1 SU -47	65	-70	-41	222	241	220	291	161	-100	-98	41	61	-155	-182	-267	-205	-139	10
5 -62	65	-60	-24	224	250	225	288	153	-104	-106	28	46	-166	-193	-265	-199	-129	11
1 SU 6	65	-50	1	181	210	186	224	112	-89	-96	5	16	-147	-167	-206	-148	-90	11
15 -27	65	-40	-12	75	118	135	154	85	-45	-48	21	8	-86	-110	-116	-79	-73	-17
1 SU 6	65	-30	103	101	94	39	-11	-52	-65	-68	-85	-92	-110	-63	-14	21	56	45
1 SU 6	65	-20	46	-7	-7	-31	-38	-53	-15	-59	-83	-62	8	23	67	80	59	30
1 SU 6	65	-10	-68	-98	-95	1	-33	2	15	75	78	-15	20	63	102	93	-53	-46
14 -27	65	0	-76	9	-55	-34	-16	-22	-45	-19	5	-20	7	84	70	77	-42	23
1 SU 6	65	10	-77	121	-5	-61	15	-29	-84	-84	-48	-9	5	115	50	72	-19	100
1 SU 6	65	20	-37	-52	-39	-24	-56	-60	-39	-20	-33	-23	13	69	109	109	67	4
1 SU 6	65	30	40	8	21	2	-31	-37	-9	14	-8	-24	-5	-17	29	-1	4	-34
12 35	65	40	4	-10	-12	-35	-36	-18	-5	14	23	33	26	0	-38	-34	5	27
1 SU 6	65	50	-24	-25	3	23	28	36	12	10	9	-7	-10	-23	-13	-9	9	14
1 SU 6	65	60	38	23	-1	18	27	19	19	-4	-24	-28	-22	5	-4	-16	-38	-24
1 SU 6	65	70	-88	-37	13	3	-26	-3	64	94	52	34	-47	-50	-38	-7	39	56
1 SU 6	65	80	-20	-10	1	12	10	20	33	35	21	6	-20	-23	-27	-19	-9	10
1 SU 6	70	-80	-2	189	206	173	220	108	-98	-112	-8	16	-127	-143	-207	-150	-93	35
1 SU 6	70	-70	7	272	300	252	313	150	-142	-165	-18	15	-189	-212	-296	-212	-128	50
1 SU 6	70	-60	22	273	307	256	309	142	-145	-171	-29	3	-199	-223	-294	-207	-119	50
1 SU 6	70	-50	38	218	254	210	241	103	-119	-143	-35	-14	-171	-188	-228	-155	-82	40
1 SU 6	70	-40	7	94	145	151	163	83	-58	-72	0	-4	-96	-124	-131	-84	-74	-5
16 -10	70	-30	104	99	90	33	-16	-56	-67	-65	-73	-93	-113	-61	-12	19	60	44
1 SU 6	70	-20	35	-18	-19	-38	-44	-63	-15	-38	-60	-48	17	31	67	75	55	25
1 SU 6	70	-10	-94	-116	-102	-6	-52	17	42	102	104	3	34	72	111	100	-67	-73
1 SU 6	70	0	-91	6	-51	-38	-32	-26	-43	-3	23	-19	10	94	73	82	-44	17
37 -38																		

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87 -48	80	-60	70	339	379	294	331	124	-189	-233	-109	-59	-231	-253	-332	-207	-77	108
1 SU 6	80	-50	70	264	304	234	253	87	-153	-187	-95	-60	-195	-212	-258	-155	-52	82
74 -19	80	-40	15	112	175	167	165	77	-66	-86	-30	-20	-102	-136	-145	-82	-62	11
1 SU 6	80	-30	108	95	78	17	-28	-58	-67	-55	-59	-95	-113	-53	-8	21	68	46
1 SU 6	80	-20	13	-42	-39	-50	-58	-79	-11	-2	-24	-30	31	47	79	71	47	19
53 49	80	-10	-140	-154	-116	-18	-84	41	82	146	142	33	62	92	131	116	-81	-119
1 SU 6	80	0	-121	-6	-49	-42	-54	-30	-41	29	55	-21	24	118	85	92	-38	7
1 SU 6	80	10	-95	143	23	-61	-18	-83	-139	-63	-16	-58	-3	152	50	80	11	134
53 -52	80	20	116	143	35	-88	-95	-65	-120	-188	-106	86	120	-54	-198	-102	123	207
1 SU 6	80	30	92	131	46	-95	-149	-65	26	-21	-129	-132	13	149	152	59	-15	-40
18 -36	80	40	-114	-241	-205	-112	-54	-35	-37	-51	-49	-23	13	13	-17	15	159	309
1 SU 6	80	50	25	74	139	142	85	36	30	16	-31	-62	-41	-24	-73	-147	-147	-
1 SU 6	80	60	5	-57	-55	14	69	53	12	0	13	15	-1	-10	-15	-33	-52	-31
1 SU 6	80	70	-80	-7	14	-24	-34	24	82	78	51	101	53	-4	-74	-70	0	27
26 51	80	80	-15	21	27	23	34	40	29	25	48	98	38	-46	-99	-77	-28	-18
1 SU 6	85	-80	46	267	287	218	247	87	-149	-184	-98	-53	-163	-176	-249	-150	-51	98
1 SU 6	85	-70	79	377	414	312	349	123	-211	-261	-147	-81	-240	-260	-356	-212	-65	140
74 -40	85	-60	94	372	415	313	342	115	-211	-264	-149	-90	-247	-268	-351	-207	-56	137
1 SU 6	85	-50	86	287	329	246	259	79	-170	-209	-125	-83	-207	-224	-273	-155	-37	103
1 SU 6	85	-40	19	121	190	175	166	74	-70	-93	-45	-28	-105	-142	-152	-81	-56	19
88 -23	85	-30	110	93	72	9	-34	-59	-67	-50	-52	-96	-113	-49	-6	22	72	47
1 SU 6	85	-20	2	-54	-49	-56	-65	-87	-9	16	-6	-21	38	55	85	69	43	16
54 46	85	-10	-163	-173	-123	-24	-100	53	102	168	161	48	76	102	141	124	-88	-142
1 SU 6	85	0	-136	-12	-48	-44	-65	-32	-40	45	71	-22	31	130	91	97	-35	2
1 SU 6	85	10	-102	148	30	-61	-28	-100	-156	-54	-5	-75	-4	166	51	83	22	145
61 -59	85	15	-40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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58 -61																				
1 SU 7	20	-50	-62	-34	-52	-53	-70	-63	-64	-5	55	87	18	62	75	113	79	2	-	
44 -51																				
1 SU 7	20	-40	-58	-41	-38	-32	-53	-44	-13	20	59	80	37	38	44	60	39	-10	-	
27 -59																				
1 SU 7	20	-30	17	21	14	-8	-12	-9	-30	9	19	3	-41	-38	-17	-4	37	30	-	
-5 12																				
1 SU 7	20	-20	1	7	20	7	25	14	28	24	35	-4	-11	-61	-52	-57	-33	18	-	
22 17																				
1 SU 7	20	-10	-13	-4	-13	10	17	45	88	48	18	27	41	30	-51	-47	-90	-53	-	
-4 -50																				
1 SU 7	20	0	4	40	-13	-5	58	69	49	7	1	-8	-3	36	-69	-30	-111	-32	-	
-2 8																				
1 SU 7	20	10	21	85	-13	-20	99	93	9	-35	-16	-42	-48	42	-86	-13	-132	-10	-	
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1 SU 7	20	20	32	35	27	56	16	-9	9	10	34	20	-7	-41	1	-60	-92	-73	-	
33 9																				
1 SU 7	20	30	6	-24	27	26	-8	-6	29	23	21	14	44	-47	2	-51	-16	-34	-	
12 -20																				
1 SU 7	20	40	-6	-5	-3	-8	-17	-6	3	-4	-2	8	8	22	6	21	14	-7	-	
16 -7																				
1 SU 7	20	50	-14	-8	-9	-2	4	10	2	-5	3	6	-8	2	16	20	17	2	-	
16 -19																				
1 SU 7	20	60	-13	-12	-8	4	11	7	4	8	6	3	-7	-4	1	-3	2	8	-	
-1 -6																				
1 SU 7	20	70	-10	-13	-9	-1	-1	-7	-4	1	-1	1	2	3	0	-1	8	16	-	
13 2																				
1 SU 7	20	80	-15	-13	-13	-9	0	4	2	2	-3	1	-2	11	1	13	17	17	-	
-5 -8																				
1 SU 7	25	-80	-89	-46	-82	-80	-74	-52	-53	10	56	97	44	124	86	108	59	2	-	
59 -51																				
1 SU 7	25	-70	-129	-70	-116	-112	-107	-76	-72	21	89	144	64	168	121	150	86	1	-	
85 -77																				
1 SU 7	25	-60	-132	-76	-114	-110	-107	-77	-66	33	102	151	65	155	118	144	87	-1	-	
87 -85																				
1 SU 7	25	-50	-109	-67	-86	-83	-85	-60	-42	42	99	129	54	105	88	106	69	-2	-	
71 -78																				
1 SU 7	25	-40	-82	-63	-59	-51	-64	-44	0	46	86	106	59	58	55	61	29	-19	-	
42 -77																				
1 SU 7	25	-30	-22	-7	1	-5	-2	7	1	48	52	26	-22	-27	-13	-11	23	9	-	
32 -27																				
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7 -4																				
1 SU 7	25	-10	-14	0	-10	5	1	29	67	19	-9	15	31	40	-25	-19	-68	-32	-	
9 -38																				
1 SU 7	25	0	-27	38	-18	-24	29	54	27	-26	-25	-21	-5	88	-41	-1	-66	12	-	
-6 14																				
1 SU 7	25	10	-41	76	-27	-54	58	79	-14	-72	-41	-58	-43	137	-57	18	-64	57	-	
21 68																				
1 SU 7	25	20	8	-16	-16	26	-4	-51	-31	-14	33	17	27	2	78	-1	-61	-66	-	
73 -3																				

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60 -106	1 SU 7	35	-40	-110	-83	-45	-26	-10	9	55	99	123	123	73	44	23	8	-24	-59	-
87 -112	1 SU 7	35	-30	-26	0	52	57	56	49	36	69	49	29	-25	-46	-52	-57	-32	-30	-
71 -58	1 SU 7	35	-20	17	37	73	52	53	48	46	8	33	-26	-25	-88	-75	-64	-50	-15	-
12 -12	1 SU 7	35	-10	27	43	35	31	7	22	52	3	-38	-29	-17	12	-40	-28	-65	-22	-
20 -15	1 SU 7	35	0	-21	48	-8	-4	11	23	30	-40	-27	-41	-17	69	-19	1	-36	21	-
8 -9	1 SU 7	35	10	-72	53	-19	-40	13	26	9	-83	-18	-57	-19	126	0	30	-7	64	-
38 32	1 SU 7	35	20	-47	-20	-16	-11	-19	-45	-35	1	-1	22	42	54	74	48	19	-16	-
4 -55	1 SU 7	35	30	8	-16	-9	-3	-18	-16	-6	0	-12	-10	5	4	28	21	14	-4	-
11 2	1 SU 7	35	40	-4	-4	2	-10	-26	-20	-2	14	5	7	12	5	-3	1	9	15	-
1 SU 7	35	50	-11	-8	4	3	4	12	9	1	0	-8	-9	-8	0	1	7	9	9	-
3 -5	1 SU 7	35	60	20	3	1	18	20	10	2	-3	-6	-15	-19	-10	-9	-6	-8	-7	-
-4 -2	1 SU 7	35	70	26	41	26	-9	-26	-17	-10	-7	-5	6	-5	-13	-15	-9	-1	6	-
-4 13	1 SU 7	35	80	20	17	14	7	2	7	7	-1	-3	-6	-14	-17	-22	-15	-9	1	-
5 7	1 SU 7	40	-80	-40	-52	-77	-64	-42	-21	-1	-1	16	21	48	81	58	43	19	5	-
1 SU 7	40	-70	-6	-51	-69	-37	-37	-31	0	-3	14	4	19	46	19	15	22	20	20	-
3 -3	1 SU 7	40	-60	-18	-55	-81	-88	-59	-23	4	4	12	12	66	91	76	57	20	-9	-
28 46	1 SU 7	40	-50	-125	-50	-48	-47	5	34	30	27	62	65	84	91	85	39	-21	-49	-
1 SU 7	40	-40	-108	-79	-36	-7	17	34	77	116	130	120	58	25	0	-18	-50	-75	-	-
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26 -2	1 SU 7	40	20	-58	-13	-5	-16	-27	-46	-27	10	-3	25	53	67	82	52	20	-22	-
-7 13	1 SU 7	40	30	2	-24	-15	-6	-18	-13	-3	0	-13	-12	4	6	32	26	20	3	-
42 24	1 SU 7	40	40	30	2	-24	-15	-6	-18	-13	-3	0	-13	-12	4	6	32	26	20	3
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66 -82	50	-30	84	133	158	128	93	50	5	-2	-43	-66	-119	-121	-116	-99	-54	-18	-
1 SU 7	50	-20	127	147	176	116	88	42	32	-29	-46	-110	-105	-155	-111	-93	-73	-33	-
14 41	50	-10	105	98	105	73	2	19	32	-14	-83	-122	-68	2	-58	-57	-100	-30	-
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1 SU 7	50	50	-13	-13	0	4	6	13	10	5	0	-13	-14	-8	-1	1	8	14	-
7 3	50	60	25	3	3	22	25	12	3	-4	-10	-22	-24	-9	-9	-6	-12	-13	-
1 SU 7	50	70	10	38	22	-23	-36	-19	-3	4	2	10	0	-12	-21	-5	14	23	-
1 SU 7	50	80	26	22	18	8	3	10	8	1	-6	-15	-21	-22	-30	-19	-9	6	-
1 SU 7	55	-80	-191	-133	-109	-12	46	143	171	126	171	177	31	18	-49	-53	-72	-49	-
9 17	55	-70	-254	-170	-131	0	79	213	248	179	239	241	27	0	-88	-92	-111	-75	-1
80 -131	55	-60	-223	-137	-92	27	97	225	253	176	228	221	0	-41	-117	-116	-124	-84	-1
1 SU 7	55	-50	-133	-61	-16	62	104	195	208	136	164	145	-41	-88	-135	-127	-120	-79	-
14 -183	55	-40	-34	-10	37	79	89	159	177	104	103	62	-63	-116	-135	-128	-124	-83	-
1 SU 7	55	-30	109	182	193	141	91	45	-7	-32	-71	-89	-138	-140	-132	-106	-63	-13	-
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1 SU 7	55	40	12	3	1	-11	-26	-19	-7	9	0	-4	3	0	-5	2	10	16	-
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9 7	55	40	12	3	1	-11	-26	-19	-7	9	0	-4	3	0	-5	2	10	16	-

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16 85																		
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8 96																		
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63 21																		
1 SU 7	65	0	7	62	8	-3	-23	-21	15	-26	-32	-37	25	127	10	-18	-99	14
6 25																		
1 SU 7	65	10	-63	62	-27	-28	4	-39	-16	-65	-32	-13	47	194	31	10	-77	51
57 19																		
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14 -74																		
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11 -16																		
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44 27																		
1 SU 7	65	50	-20	-12	7	15	24	32	10	3	6	-13	-25	-24	-10	-7	3	15
2 -9																		
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10 20																		
1 SU 7	65	70	-27	-2	-6	-53	-86	-55	14	57	53	65	3	-16	-25	-6	35	51
20 -23																		
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10 10																		
1 SU 7	70	-80	-174	-78	-16	138	197	120	45	35	126	124	-1	-34	-107	-80	-86	-31
57 -111																		
1 SU 7	70	-70	-229	-93	-2	212	291	176	64	46	171	161	-25	-77	-171	-126	-125	-47
78 -150																		
1 SU 7	70	-60	-197	-62	33	235	306	183	67	40	158	138	-59	-119	-196	-144	-128	-50
71 -134																		
1 SU 7	70	-50	-110	-3	75	217	261	155	55	23	106	74	-92	-149	-190	-140	-107	-43
46 -83																		
1 SU 7	70	-40	-33	12	69	150	174	118	74	36	85	42	-70	-138	-154	-123	-109	-62
19 -53																		
1 SU 7	70	-30	129	198	202	154	92	37	-43	-76	-119	-150	-199	-163	-123	-86	-12	32
35 92																		
1 SU 7	70	-20	171	156	137	42	23	-19	4	-36	-55	-111	-109	-137	-89	-65	-12	-10
15 98																		
1 SU 7	70	-10	50	43	9	-26	-80	7	46	16	-30	-35	31	86	18	-29	-126	-36
47 8																		
1 SU 7	70	0	-1	59	0	-24	-43	-27	-5	-28	-29	-18	48	150	25	-10	-97	13
1 23																		
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14 -75																		
1 SU 7	70	30	-8	-46	-21	-2	-21	0	21	7	-21	-26	0	-16	32	37	56	16
12 -21																		
1 SU 7	70	40	29	6	2	-7	-24	-12	7	14	-11	-5	4	-29	-52	-48	3	39
53 30																		
1 SU 7	70	50	-19	-10	4	7	16	29	11	9	14	-7	-21	-20	-9	-7	-1	12
0 -9																		

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25	100																			
1	SU	7	80	-10	24	7	-33	-98	-122	13	38	26	-28	13	91	138	80	11	-122	-44
17	-8																			
1	SU	7	80	0	-15	47	-6	-60	-77	-39	-45	-36	-29	6	92	196	57	6	-91	9
-7	25																			
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38	52																			
1	SU	7	80	20	-24	100	74	-52	-110	-42	23	-13	-74	2	149	231	170	41	-57	-118
57	-145																			
1	SU	7	80	30	-123	-87	-53	-26	41	109	81	-27	-101	-71	-4	1	-6	55	148	143
20	-101																			
1	SU	7	80	40	58	6	-54	-92	-68	-6	14	-26	-60	-35	18	6	-48	-50	25	102
16	94																			
1	SU	7	80	50	-7	-3	-15	-40	-47	-10	36	43	14	-4	3	14	3	-7	0	14
10	-5																			
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35	-31																			
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17	30																			
1	SU	7	80	80	29	62	53	8	-34	-35	1	34	35	41	12	19	10	-26	-66	-76
52	-15																			
1	SU	7	85	-80	-132	15	65	231	260	129	-15	-43	87	79	-37	-55	-158	-131	-110	-40
36	-105																			
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45	-141																			
1	SU	7	85	-60	-146	58	138	346	378	183	-26	-74	104	78	-101	-140	-253	-204	-146	-53
35	-125																			
1	SU	7	85	-50	-74	81	150	292	309	146	-23	-67	67	35	-122	-158	-220	-170	-110	-40
10	-77																			
1	SU	7	85	-40	-21	54	96	165	177	100	20	-18	70	39	-67	-129	-145	-111	-94	-59
10	-62																			
1	SU	7	85	-30	117	168	181	124	68	16	-88	-103	-134	-141	-184	-124	-84	-62	9	56
74	113																			
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11	26																			
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98	-146																			
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17	-95																			
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15	87																			
1	SU	7	85	50	3	-5	-45	-88	-85	-24	43	62	39	20	17	17	7	6	13	16
6	-1																			
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-2 -50																		
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-5 3																		
1 SU 8	20	10	3	84	-40	-24	110	111	11	-37	-25	-22	-32	62	-95	-24	-123	-6
-8 55																		
1 SU 8	20	20	49	26	29	47	12	-18	-3	-6	37	27	9	-54	2	-50	-74	-77
34 10																		
1 SU 8	20	30	-3	-25	38	38	2	-4	29	25	8	25	44	-35	18	-45	-19	-34
13 -50																		
1 SU 8	20	40	-15	-13	-12	-9	-13	-1	7	-1	-1	2	4	23	8	20	15	4
-8 -11																		
1 SU 8	20	50	-15	-15	-15	-6	0	9	3	-1	2	-3	-15	0	16	23	18	8
-3 -6																		
1 SU 8	20	60	-6	-7	-2	5	7	4	2	4	2	-1	-9	-5	0	1	3	3
0 1																		
1 SU 8	20	70	0	-2	-1	2	0	-7	-7	-4	-1	3	5	1	-6	-5	4	7
6 4																		
1 SU 8	20	80	-11	-8	-11	-7	-1	1	0	2	-2	-4	-4	10	-3	12	14	15
-2 -1																		
1 SU 8	25	-80	-104	-59	-91	-61	17	54	3	33	23	34	-11	52	35	50	68	32
41 -28																		
1 SU 8	25	-70	-155	-93	-129	-84	26	76	7	52	38	52	-16	66	49	70	99	42
1 SU 8	25	-60	-161	-105	-126	-77	29	78	15	61	49	59	-16	56	51	69	103	39
61 -49																		
1 SU 8	25	-50	-138	-98	-96	-51	27	62	21	59	50	55	-11	29	39	51	84	25
64 -60																		
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33 -74																		
1 SU 8	25	-20	-16	-23	20	21	33	26	36	1	28	15	4	-34	-22	-22	-22	-5
24 -32																		
1 SU 8	25	-10	-9	-7	-26	14	12	-15	31	32	14	5	55	35	-37	13	-68	-26
15 -26																		
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18 -41																		
1 SU 8	25	10	-47	86	-57	-69	76	119	6	-72	-56	-44	-34	115	-76	-8	-60	82
-9 18																		
1 SU 8	25	20	3	-26	-5	35	7	-64	-42	-26	39	17	26	-8	73	-7	-23	-81
35 74																		
1 SU 8	25	30	10	-33	22	35	-4	-17	27	34	-3	9	43	-18	37	-15	-25	-45
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-8 -47																		
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13 -3																		
1 SU 8	25	60	7	2	4	10	7	4	-1	-2	-3	-4	-10	-8	-7	-4	-2	2
-9 -11																		
1 SU 8	25	70	-1	-3	-4	2	-1	-3	-2	-3	0	3	3	1	-5	-4	2	3
1 SU 8	25	8	4															

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55 35	35	20	-44	-38	-36	-7	15	-36	-42	-40	-35	4	50	53	77	58	62	-6
1 SU 8	35	30	13	-13	-4	0	-22	-27	-15	-2	-13	-4	10	11	29	21	7	-8
1 SU 3	35	40	1	0	7	-4	-25	-23	-9	5	1	3	5	0	-1	10	7	15
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11 5	35	60	15	0	4	19	10	0	-1	-1	-3	-10	-19	-15	-12	-9	-7	2
1 SU 8	35	70	-3	8	17	21	20	13	15	8	-1	0	-8	-13	-20	-26	-21	-10
1 SU 1	35	80	9	7	13	15	8	7	10	8	5	-2	-12	-16	-23	-17	-17	0
1 SU 8	40	-80	-22	-44	-77	-82	-46	-7	15	28	43	58	50	37	13	17	10	11
1 SU 0	40	-70	6	-71	-126	-139	-97	-64	-25	21	70	78	76	44	32	38	33	40
1 SU 41	40	-60	-30	-39	-56	-63	-34	17	27	20	38	77	74	39	5	11	-2	-10
1 SU 30	40	-50	-76	-56	-11	39	67	83	99	67	41	47	7	-14	-29	-24	-47	-75
1 SU 62	40	-40	-106	-51	9	66	117	112	98	78	40	18	-10	-11	-1	-27	-43	-88
01 -101	40	-30	-40	49	98	152	149	101	35	9	-35	-55	-58	-44	-16	-40	-51	-77
1 SU 91	40	-20	8	25	99	103	71	39	14	-54	-25	-39	-22	-48	-36	-32	-37	-25
1 SU 25	40	-10	27	31	42	42	3	-71	-20	-30	-44	-43	22	19	-43	16	-40	16
1 SU 79	40	0	-27	50	4	-19	3	-2	12	-37	-35	-47	11	61	-29	8	-32	47
1 SU 7	40	10	-79	69	-32	-75	5	65	44	-42	-25	-48	3	103	-13	3	-22	79
1 SU 61	40	20	-58	-41	-38	-12	13	-29	-36	-51	-48	7	71	72	89	65	68	-5
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1 SU 9	40	50	-5	-1	5	6	4	4	-3	-9	3	-3	-4	-4	-3	2	9	10
1 SU -9	40	60	16	-2	3	23	9	-2	1	4	-1	-13	-23	-18	-15	-12	-9	4
12 24	40	70	-7	9	27	33	29	21	25	15	0	-4	-13	-17	-28	-38	-33	-16
1 SU -3	40	80	12	10	19	22	11	6	11	11	6	-6	-19	-21	-29	-23	-22	-1
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1 SU 13	77	20	-86	-55	-44	-18	-8	-48	-35	-43	-33	22	84	86	107	80	83	6	-		
1 SU 8	10	-89	8	8	-24	-9	5	-16	-27	-22	-14	-25	-14	7	17	40	37	23	-2		
1 SU 8	17	3	8	3	-3	4	-3	-27	-28	-16	2	-1	-3	0	0	0	14	13	19		
1 SU 8	13	12	50	-10	-2	7	15	12	6	-3	-9	2	-7	-8	-6	-4	0	9	11		
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1 SU 8	75	-20	80	59	63	11	-61	-25	21	29	9	9	30	-44	-34	-56	-72	-43	-	-
56 -23	8	75	-10	11	1	0	-36	-57	-34	57	73	84	-37	35	45	-43	54	-59	-52	-
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1 SU 8	75	10	-73	92	-65	-81	-18	-28	-65	-34	15	4	95	175	25	1	-80	60	-	-
77 54	8	75	20	-36	-57	-87	-43	14	-44	-70	-102	-54	38	82	66	128	125	93	-15	-
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-6 -33	8	75	40	15	33	52	29	-24	-33	-32	-20	-31	-23	-20	-25	-13	17	47	-	-
1 SU 8	75	50	-5	-10	-4	-4	4	31	11	5	17	-2	-10	-8	-2	0	3	-	-	-
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48 -9	8	80	-30	64	81	48	32	32	13	4	-2	-25	-7	-22	-17	-16	-43	-21	-52	-
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1 SU 8	80	20	25	-49	-161	-173	-74	-26	-93	-165	-92	96	226	203	132	88	61	7	-	-
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45 -7	80	50	-4	-18	-24	-11	8	19	14	-3	-22	-24	-5	20	26	12	-4	-3
1 SU 8	80	50	-4	-18	-24	-11	8	19	14	-3	-22	-24	-5	20	26	12	-4	-3
8 10	80	60	-52	-34	-15	-34	-49	-2	82	118	78	19	-7	-13	-37	-52	-23	23
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23 -23	80	70	-76	-78	-8	70	91	59	31	28	33	47	20	7	-24	-65	-72	-34
1 SU 8	80	70	-76	-78	-8	70	91	59	31	28	33	47	20	7	-24	-65	-72	-34
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1 SU 8	80	80	-50	-67	-51	-15	15	28	39	52	66	83	68	46	-1	-55	-74	-52
18 -21	85	-80	-112	8	21	45	143	34	-114	-138	-58	-10	-16	55	31	-4	59	80
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23 4	85	-70	-152	13	35	70	200	48	-160	-195	-87	-15	-27	68	39	-11	79	107
1 SU 8	85	-70	-152	13	35	70	200	48	-160	-195	-87	-15	-27	68	39	-11	79	107
36 6	85	-60	-131	23	53	76	195	45	-154	-190	-92	-14	-27	57	34	-13	74	91
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39 4	85	-50	-78	37	63	68	146	33	-114	-140	-76	-9	-21	27	20	-18	51	50
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38 4	85	-40	-36	16	67	48	64	12	-55	-65	-24	-9	4	2	-1	-1	9	-3
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64 49	85	30	21	13	1	-1	34	73	33	-84	-182	-170	-90	-38	-17	30	101	136
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95 44	85	40	-2	54	84	62	13	-26	-55	-79	-89	-80	-62	-58	-33	36	102	110
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43 -18	85	50	10	-2	-14	-8	10	21	10	-12	-33	-31	-6	26	35	19	-7	-18
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-7 8	85	60	-55	-18	-7	-64	-106	-45	81	144	107	45	17	0	-42	-64	-22	35
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17 -38	85	80	-62	-77	-57	-23	-5	-4	10	43	79	109	96	68	16	-42	-66	-46
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14 14	90	-70	-152	19	49	72	195	30	-180	-228	-98	-22	-27	78	36	-19	90	133
1 SU 8	90	-70	-152	19	49	72	195	30	-180	-228	-98	-22	-27	78	36	-19	90	133
23 21	90	-60	-128	30	68	76	188	25	-174	-223	-105	-20	-25	69	32	-18	86	116
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26 19																		

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28 17	90	-40	-34	20	75	45	53	-1	-65	-78	-29	-10	11	12	2	2	13	3	-
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DATASET: CWEJ412.GRAM090.DATA
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11 0	20	50	-8	-8	-9	-7	3	15	8	-2	-5	-17	-25	-5	8	18	16	9		
6 3	20	60	-6	-7	3	8	11	10	7	4	-1	-5	-13	-11	-4	3	1	-3		
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1 SU 9	25	-80	-132	-61	-112	-51	69	128	119	147	112	58	-20	35	-7	22	-6	-67	-1	
40 -100	25	-70	-193	-95	-156	-64	105	191	181	220	168	88	-29	40	-14	25	-14	-104	-2	
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1 SU 9	25	-40	-114	-87	-56	16	86	121	143	156	127	75	6	-28	-36	-22	-47	-100	-1	
15 -124	25	-30	-51	-28	-3	29	66	104	87	76	55	16	-45	-52	-42	-54	-30	-48	-	
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89	45																				
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MEMBER: SCIDAT9

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1 SU 0	6	55	-80	-8	8	-31	-28	-3	15	5	0	12	19	2	45	18	17	-2	-21		
1 SU 25	-19	55	-70	38	46	-36	-22	-9	-30	-25	-75	-13	45	-27	-9	-12	19	44	-14		
1 SU 26	53	55	-60	69	34	17	-12	-18	32	-7	-24	-40	-78	-41	64	34	30	-39	-22		
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18 40																		
1 SU 9	75	-60	-77	-37	9	-25	-63	-15	-39	-41	-10	-15	-20	38	60	141	102	72
0 -81																		
1 SU 9	75	-50	11	-26	-92	-38	-3	19	24	-2	6	-4	30	33	35	-15	-39	-1
39 21																		
1 SU 9	75	-40	53	87	68	68	100	75	-7	-53	-56	-47	-72	-77	-49	-35	-8	-42
27 22																		
1 SU 9	75	-30	102	126	160	139	95	23	-71	-101	-113	-136	-138	-124	-89	-36	-4	12
45 108																		
1 SU 9	75	-20	117	85	119	46	-52	-69	-91	-149	-97	-106	-53	-80	-35	30	47	78
02 106																		

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1 SU 9	80	4	4	29	49	39	13	-2	10	24	7	-4	-23	-38	-48	-50	-27			
5 14	SU 9	85	-80	-41	-39	-85	-70	-55	-32	6	-7	11	52	28	38	42	52	58	27	
29 -7	SU 9	85	-70	67	19	-118	-116	-78	-82	-16	31	48	129	18	-12	-27	-11	13	-41	
57 118	SU 9	85	-60	-107	-70	-26	-71	-132	-45	-34	-19	19	-2	22	88	82	137	103	116	
32 -92	SU 9	85	-50	-5	-47	-133	-64	15	51	36	-20	2	7	68	52	40	3	-27	-13	
15 22	SU 9	85	-40	-103	23	35	4	20	69	161	18	-36	83	115	68	101	44	38	-155	-2
82 -203	SU 9	85	-30	146	102	117	29	-5	27	-52	47	32	-61	-12	-37	-93	-82	-140	-62	-
37 80	SU 9	85	-20	86	64	68	-24	-50	5	-39	29	5	-49	25	17	-37	-30	-66	-11	-
27 34	SU 9	85	-10	26	26	19	-77	-95	-17	-26	11	-22	-37	62	71	18	22	9	41	-
18 -13	SU 9	85	0	-32	-11	-30	-130	-138	-39	-13	-6	-49	-25	100	124	74	75	83	92	-
-7 -58	SU 9	85	10	-92	-49	-79	-183	-183	-61	0	-24	-76	-13	137	178	129	127	158	144	-
1 -105	SU 9	85	20	-153	-88	-129	-237	-229	-84	12	-43	-104	-2	174	232	185	179	232	195	-
11 -152	SU 9	85	30	111	88	7	-66	-60	-20	-26	-74	-91	-41	9	0	-39	-31	23	64	-
62 84	SU 9	85	40	-21	31	103	142	127	67	-16	-101	-163	-165	-95	-6	34	32	29	28	-
1 -27	SU 9	85	50	31	45	68	51	-3	-22	21	59	27	-39	-48	-6	6	-50	-97	-69	-
-2 28	SU 9	85	60	-32	-41	-7	32	28	-7	-22	9	52	51	6	-34	-37	-22	-6	9	-
21 1	SU 9	85	70	-20	-21	-9	9	27	35	24	3	1	2	52	29	-23	-54	-43	-13	-
5 -5	SU 9	85	80	5	-2	28	59	53	20	3	24	37	6	-16	-33	-38	-52	-65	-45	-
-1 17	SU 9	90	-80	-33	-41	-94	-80	-76	-50	5	-14	5	51	29	31	47	59	70	37	-
50 6	SU 9	90	-70	90	18	-141	-146	-103	-100	-15	48	56	145	25	-15	-27	-15	1	-47	-
74 150	SU 9	90	-60	-130	-86	-38	-88	-162	-59	-34	-13	31	8	40	104	94	143	114	139	-
42 -104	SU 9	90	-50	-1	-55	-159	-84	13	59	39	-28	1	3	74	58	44	11	-19	-10	-
21 36	SU 9	90	-40	-148	-4	8	-45	-42	33	205	25	-26	142	195	123	169	88	81	-179	-3
61 -265	SU 9	90	-30	146	82	106	-10	-40	26	-60	86	84	-22	47	6	-84	-88	-188	-86	-
69 63	SU 9	90	-20	51	37	50	-40	-29	44	-28	94	42	-24	50	66	-24	-41	-110	-52	-
86 -3	SU 9	90	-10	-4	-4	32	-70	-84	23	-41	4	7	-50	71	87	25	29	20	61	-
65 -37	SU 9	90	-10	-4	-4	32	-70	-84	23	-41	4	7	-50	71	87	25	29	20	61	-

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1 SU 9	90	0	-18	-36	5	-105	-157	-34	-31	1	-39	-35	123	132	114	110	110	101	
1 SU 9	-74	90	10	-55	-89	-45	-159	-244	-102	-32	-21	-103	-38	158	167	186	173	190	129
1 SU 30	-132	90	20	-181	-98	-162	-318	-313	-112	29	-48	-131	-5	226	309	226	217	272	254
1 SU 10	-176	90	30	137	119	1	-102	-73	-20	-34	-95	-113	-47	11	5	-52	-31	28	87
1 SU 71	107	90	40	-36	41	135	186	180	100	-23	-143	-213	-226	-135	-10	58	58	59	41
1 SU 18	-53	90	50	38	51	82	65	-7	-34	35	76	26	-54	-61	-4	8	-71	-129	-83
1 SU 14	48	90	60	-48	-58	-17	33	25	-13	-29	20	78	78	17	-41	-50	-30	-4	10
1 SU 30	1	90	70	-18	-27	-20	2	31	45	35	12	11	13	60	30	-29	-66	-58	-24
1 SU 2	-1	90	80	1	-9	31	75	68	28	5	33	54	13	-20	-44	-47	-65	-79	-58
1 SU 9	22	20	-80	-80	-48	-63	-19	50	87	89	87	84	36	-20	36	14	45	-31	-95
1 SU 98	-68	20	-70	-116	-72	-87	-23	72	125	130	128	123	52	-30	46	21	58	-44	-137
1 SU 40	-100	20	-60	-118	-76	-80	-16	73	128	134	133	126	53	-33	36	20	50	-44	-138
1 SU 39	-104	20	-50	-96	-65	-54	-3	61	106	113	113	104	43	-29	16	13	27	-36	-110
1 SU 10	-88	20	-40	-67	-56	-27	15	51	72	78	88	73	37	-1	3	-6	-8	-38	-72
1 SU 69	-75	20	-30	-20	-1	22	20	15	43	39	30	18	-12	-42	-33	-4	-19	-7	-19
1 SU 17	-12	20	-20	-6	10	28	15	27	17	8	-16	3	-4	-11	-30	-18	-43	-11	22
1 SU 7	2	20	-10	0	14	18	31	43	27	2	15	-21	-6	49	17	-66	-54	-63	6
1 SU 10	-19	20	0	-24	48	-13	-16	72	67	20	-18	-9	-18	6	46	-56	-12	-66	-2
1 SU 27	3	20	10	-46	80	-43	-61	101	104	37	-49	3	-29	-38	74	-45	29	-68	-10
1 SU 63	24	20	20	-21	-20	-2	63	9	-34	-59	-29	11	47	47	16	45	3	-7	-53
1 SU 21	-37	20	30	-30	-71	-5	27	5	2	-8	-1	10	33	46	-26	13	-10	45	32
1 SU 8	-70	20	40	-2	-14	-24	-34	-26	-11	-9	-25	-32	-28	-20	15	20	39	53	58
1 SU 33	6	20	50	-6	-17	-25	-27	-18	-4	-5	-15	-18	-30	-32	-3	22	46	47	42
1 SU 30	15	20	60	-2	-10	-6	-3	-2	-1	2	0	-8	-13	-18	-10	4	15	15	9
1 SU 11	16	20	70	13	11	14	14	6	-1	0	4	4	6	1	-12	-18	-18	-17	-15
1 SU 4	12	20	80	8	5	0	-9	-3	2	7	3	-8	-16	-16	-7	-11	2	1	10

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1 SU 10	25	-80	-96	-32	-31	41	147	169	117	110	96	21	-68	5	-20	-18	-78	-127	-1	
47 -94	1 SU 10	25	-70	-139	-49	-37	70	218	247	173	163	141	34	-99	0	-31	-34	-118	-189	-2
14 -140	1 SU 10	25	-60	-142	-53	-24	87	228	255	182	171	147	38	-99	-12	-37	-48	-127	-200	-2
19 -148	1 SU 10	25	-50	-117	-47	-3	92	196	215	157	147	123	34	-80	-26	-39	-57	-115	-173	-1
81 -129	1 SU 10	25	-40	-80	-47	6	78	137	153	125	116	86	30	-28	-31	-45	-61	-94	-123	-1
16 -104	1 SU 10	25	-30	-34	3	56	82	83	80	54	38	22	-3	-49	-48	-30	-56	-50	-61	-
54 -34	1 SU 10	25	-20	-11	13	44	39	30	25	29	-27	-3	0	6	-30	-31	-51	-23	1	
1 SU 10	25	-10	-2	0	-13	-7	-1	33	32	8	-47	-33	52	11	-56	-21	-25	32		
-6 -5	1 SU 10	25	0	-33	50	-34	-42	35	76	38	-51	-48	-55	-5	52	-45	6	-12	48	
39 -2	1 SU 10	25	10	-63	98	-55	-76	69	115	42	-107	-47	-75	-62	91	-32	32	-1	64	-
1 SU 10	25	20	23	-30	-9	33	-2	-49	-72	-44	-2	30	46	15	55	-19	8	-63		
47 55	1 SU 10	25	30	-31	-60	7	57	11	-4	5	22	18	30	54	-20	22	2	1	-33	-
84 -4	1 SU 10	25	40	-37	-35	-22	-16	-9	-3	5	-2	-3	4	9	34	34	41	32	23	-
15 -65	1 SU 10	25	50	-54	-58	-51	-34	-15	9	5	0	10	4	3	23	46	63	52	37	
1 SU 10	25	60	-31	-42	-33	-20	-7	1	5	9	6	3	-2	6	19	25	29	22		
20 -37	1 SU 10	25	70	25	11	6	4	-4	-8	-4	0	0	1	-7	-17	-15	-12	-6	-2	
1 SU 10	25	80	-9	-10	-14	-18	-8	6	12	9	0	-5	-9	-1	-4	14	12	23		
-4 -37	1 SU 10	30	-80	32	31	-14	-39	-24	-13	-7	5	6	-18	-32	-9	-10	10	12	10	
1 SU 10	30	-70	100	77	-4	-87	-110	-104	-73	-38	-19	-36	-42	-16	-5	26	54	65	1	
12 -1	1 SU 10	30	-60	37	38	11	-10	0	5	7	20	15	-19	-45	-31	-31	-17	-12	-13	
9 20	1 SU 10	30	-50	-26	-1	25	68	110	114	88	77	48	-2	-46	-44	-56	-60	-76	-90	-
1 SU 10	30	-40	-90	-41	40	145	220	223	168	135	82	14	-50	-60	-83	-104	-143	-169	-1	
1 SU 10	30	-30	-26	23	98	139	132	102	56	35	14	-7	-66	-65	-50	-83	-81	-92	-	
28 32	1 SU 10	30	-20	2	28	68	58	33	18	20	-50	-11	-1	9	-33	-38	-59	-31	-6	
1 SU 10	30	-10	-8	3	-32	-31	-25	35	41	16	-59	-48	61	7	-52	-11	-12	45		
07 104	1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49	
20 25	1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49	
1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49		
67 -52	1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49	
55 -132	1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49	
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83 -45	1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49	
1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49		
-8 2	1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49	
1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49		
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13 23	1 SU 10	30	0	-31	46	-38	-50	11	72	53	-51	-54	-60	5	19	-31	15	15	49	

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35 54	40	-60	-30	-47	-53	-57	-42	-9	0	2	21	24	42	71	39	53	21	-8
1 SU 10	40	-50	-120	-75	-42	3	39	57	62	55	59	57	61	60	30	11	-19	-34
18 -10	40	-40	-78	-35	41	119	170	158	131	92	59	11	-24	-37	-46	-84	-103	-138
1 SU 10	40	-30	10	49	105	141	138	90	35	-10	-17	-27	-69	-77	-56	-76	-86	-73
31 -107	40	-20	52	75	115	56	-19	-56	-42	-100	-49	-23	-3	-39	-29	-36	-10	31
58 -18	40	-10	-7	14	-49	-78	-46	54	53	12	-49	-44	67	10	-51	-4	-32	36
1 SU 10	40	0	-28	54	-35	-71	-23	63	61	-37	-34	-53	2	17	-29	9	7	56
93 22	40	10	-49	89	-28	-67	1	66	67	-88	-21	-63	-66	21	-9	19	42	71
39 26	40	20	4	4	21	15	18	-6	-44	-38	-31	-18	-15	-15	21	28	42	4
1 SU 10	40	30	10	25	55	75	63	39	16	7	-8	-7	-5	-17	-28	-55	-60	-63
1 SU 10	40	40	-94	-58	0	55	81	88	86	73	59	60	51	41	2	-33	-80	-102
16 -114	40	50	-155	-112	-39	20	53	93	100	106	109	79	63	55	39	19	-31	-90
1 SU 10	40	60	-85	-87	-70	-25	17	32	38	50	62	61	57	60	58	38	3	-48
46 -165	40	70	62	72	33	-37	-81	-82	-67	-52	-40	-39	2	6	17	24	46	46
83 -82	40	80	-29	-22	-23	-24	-20	0	13	22	24	19	34	30	23	19	5	-8
1 SU 10	45	-80	-32	-32	-51	-43	-30	-3	18	23	34	28	26	45	21	24	16	-11
25 -31	45	-70	32	16	-16	-38	-78	-61	-9	-3	20	23	21	26	4	5	23	-15
1 SU 10	45	-60	-33	-54	-64	-63	-45	-9	7	11	33	36	45	71	35	48	18	-10
17 34	45	-50	-106	-67	-39	5	40	57	59	52	54	44	43	44	17	7	-13	-24
1 SU 10	45	-40	-53	-9	62	129	166	145	113	74	41	-14	-49	-57	-57	-85	-93	-122
73 -103	45	-30	39	80	129	146	125	75	19	-32	-43	-55	-93	-94	-67	-76	-75	-54
1 SU 10	45	-20	78	86	109	32	-45	-73	-53	-107	-59	-34	-8	-42	-27	-28	3	48
1 SU 10	45	-10	-3	6	-58	-93	-37	69	49	0	-64	-46	78	18	-60	-8	-31	42
51 68	45	0	-19	55	-35	-83	-27	65	55	-42	-42	-56	5	21	-36	6	7	64
04 33	45	10	-36	98	-24	-77	-17	52	57	-88	-25	-69	-70	20	-17	17	40	80
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1 SU 10	-4	-1																
1 SU 10	55	-50	-59	-42	-40	-20	3	27	30	13	13	18	15	28	13	22	18	28
1 SU 10	19	-49																
1 SU 10	55	-40	-4	31	83	120	126	97	58	27	3	-53	-83	-79	-59	-63	-58	-69
1 SU 10	51	-26																
1 SU 10	55	-30	84	121	147	127	84	36	-19	-67	-79	-89	-116	-106	-72	-62	-47	-11
1 SU 10	13	56																
1 SU 10	55	-20	101	78	70	-16	-74	-78	-47	-105	-62	-40	-9	-41	-19	-17	21	67
1 SU 10	78	92																
1 SU 10	55	-10	-8	-17	-76	-112	-25	87	42	-21	-81	-35	97	36	-71	-11	-25	56
1 SU 10	18	46																
1 SU 10	55	0	-11	47	-43	-106	-33	58	37	-59	-54	-49	20	27	-51	5	14	86
1 SU 10	85	72																
1 SU 10	55	10	-13	103	-26	-104	-40	19	28	-105	-33	-66	-61	14	-37	16	47	109
1 SU 10	51	96																
1 SU 10	55	20	29	27	52	45	29	-16	-72	-72	-59	-30	-25	-35	-9	-3	35	25
1 SU 10	57	22																
1 SU 10	55	30	34	71	123	147	124	84	48	21	-13	-35	-51	-77	-99	-120	-106	-91
1 SU 10	45	-15																
1 SU 10	55	40	-49	7	68	109	123	128	133	116	76	41	-1	-32	-80	-111	-145	-149
1 SU 10	34	-98																
1 SU 10	55	50	-119	-54	43	108	131	160	148	148	121	60	12	-16	-46	-75	-122	-159
1 SU 10	79	-161																
1 SU 10	55	60	-72	-59	-36	18	67	68	64	70	89	83	65	48	9	-38	-73	-97
1 SU 10	11	-93																
1 SU 10	55	70	20	14	3	-27	-79	-127	-138	-110	-59	-78	28	48	76	114	128	105
1 SU 10	50	32																
1 SU 10	55	80	-39	-32	-21	-8	0	6	8	19	30	14	41	36	22	19	0	-15
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1 SU 10	60	-80	-35	49	99	185	182	115	57	60	47	-47	-138	-72	-48	-72	-67	-124
1 SU 10	27	-55																
1 SU 10	60	-70	-38	79	155	274	259	160	75	78	59	-73	-205	-113	-73	-109	-99	-179
1 SU 10	78	-73																
1 SU 10	60	-60	-19	93	175	286	258	154	67	64	46	-82	-213	-126	-79	-117	-102	-178
1 SU 10	70	-61																
1 SU 10	60	-50	12	95	167	243	203	117	42	32	18	-78	-179	-118	-71	-104	-85	-138
1 SU 10	21	-30																
1 SU 10	60	-40	17	44	95	142	125	93	43	21	-3	-56	-87	-78	-61	-78	-66	-88
1 SU 10	50	-12																
1 SU 10	60	-30	100	138	157	104	33	-6	-60	-94	-84	-76	-104	-89	-54	-50	-20	8
1 SU 10	25	73																
1 SU 10	60	-20	95	60	44	-37	-79	-71	-36	-95	-55	-35	-5	-38	-11	-12	28	71
1 SU 10	83	94																
1 SU 10	60	-10	-24	-34	-82	-116	-24	94	44	-25	-75	-24	101	40	-73	-3	-17	61
1 SU 10	19	39																
1 SU 10	60	0	-15	35	-47	-114	-32	49	30	-67	-51	-41	26	24	-60	6	23	98
1 SU 10	95	76																
1 SU 10	60	10	-6	99	-27	-116	-40	-2	12	-113	-32	-60	-53	5	-52	11	58	130
1 SU 10	71	114																
1 SU 10	60	20	51	37	60	57	38	-22	-87	-86	-62	-29	-35	-44	-12	-6	26	15
1 SU 10	59	40																

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START COL	1	2	3	4	5	6	7	8	9	0										
1 SU 10	70	-50	61	115	133	152	107	-4	-55	-27	-23	-63	-141	-74	-37	-59	-17	-53	-	
42 33																				
1 SU 10	70	-40	28	43	65	78	52	26	-10	-11	-18	-37	-60	-49	-31	-36	-14	-40	-	
-6 19																				
1 SU 10	70	-30	92	96	103	48	2	-37	-81	-85	-78	-64	-79	-69	-24	-12	11	40	-	
56 83																				
1 SU 10	70	-20	53	10	2	-62	-85	-57	-16	-65	-34	-16	13	-31	6	6	49	74	-	
72 79																				
1 SU 10	70	-10	-81	-78	-87	-113	-22	124	84	3	-26	-10	95	18	-72	26	0	42	1	
08 -9																				
1 SU 10	70	0	-47	-3	-58	-128	-25	29	39	-51	-25	-34	29	5	-73	15	52	115	1	
03 48																				
1 SU 10	70	10	-14	75	-30	-145	-28	-58	-6	-100	-24	-52	-34	-9	-75	2	100	190	-	
98 109																				
1 SU 10	70	20	97	47	40	35	39	-21	-101	-112	-71	-30	-55	-56	7	26	35	-5	-	
51 74																				
1 SU 10	70	30	83	102	125	144	98	39	-17	-39	-43	-41	-45	-78	-61	-83	-102	-93	-	
17 28																				
1 SU 10	70	40	-26	14	88	147	161	145	124	80	8	-22	-53	-64	-100	-123	-135	-114	-	
77 -53																				
1 SU 10	70	50	-68	-33	35	66	82	126	128	140	93	10	-38	-58	-59	-56	-73	-89	-1	
08 -97																				
1 SU 10	70	60	-35	-37	-33	9	38	32	16	23	47	47	36	35	25	7	-32	-59	-	
70 -49																				
1 SU 10	70	70	21	29	20	1	-22	-51	-80	-92	-66	-80	36	47	50	65	66	38	-	
12 7																				
1 SU 10	70	80	-39	-28	-16	-5	4	23	23	23	19	-3	31	29	12	15	0	-13	-	
33 -42																				
1 SU 10	75	-80	40	102	92	93	80	-39	-63	-19	-12	-35	-106	-25	-28	-32	4	-24	-	
34 14																				
1 SU 10	75	-70	65	148	137	136	109	-59	-96	-34	-23	-53	-154	-43	-39	-46	7	-34	-	
45 27																				
1 SU 10	75	-60	76	152	145	140	100	-63	-103	-42	-31	-57	-156	-52	-36	-45	10	-32	-	
37 38																				
1 SU 10	75	-50	74	124	125	112	66	-54	-91	-47	-37	-52	-127	-55	-27	-33	12	-21	-	
16 45																				
1 SU 10	75	-40	29	45	60	52	23	3	-27	-19	-19	-27	-50	-39	-23	-19	8	-26	-	
6 23																				
1 SU 10	75	-30	84	82	82	31	-10	-52	-84	-77	-74	-57	-69	-64	-14	9	21	49	-	
63 80																				
1 SU 10	75	-20	32	-10	-13	-69	-87	-51	-9	-55	-27	-10	23	-27	14	14	61	77	-	
63 71																				
1 SU 10	75	-10	-100	-90	-87	-111	-17	146	111	33	4	-13	90	0	-76	23	-2	18	-	
97 -28																				
1 SU 10	75	0	-61	-16	-66	-140	-22	20	49	-29	-13	-40	29	-3	-77	16	61	116	1	
02 31																				
1 SU 10	75	10	-21	66	-36	-166	-27	-92	-10	-79	-29	-58	-24	-4	-77	9	123	220	1	
08 98																				
1 SU 10	75	20	105	41	11	-4	18	-18	-96	-125	-84	-30	-49	-49	15	45	62	15	-	
61 81																				
1 SU 10	75	30	75	90	118	141	88	22	-35	-57	-61	-51	-42	-64	-42	-65	-84	-73	-	
1 2																				

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START COL	1	2	3	4	5	6	7	8	9	0										
1	SU	10	85	-40	31	49	50	0	-35	-43	-61	-35	-21	-7	-30	-19	-7	15	52	2
1	SU	31	85	-30	68	54	40	-3	-34	-82	-90	-61	-66	-43	-49	-54	6	51	41	67
1	SU	74	85	-20	-10	-50	-43	-83	-91	-39	5	-35	-13	2	43	-19	30	30	85	83
1	SU	45	85	-10	-138	-114	-87	-107	-7	190	165	93	64	-19	80	-36	-84	17	-6	-30
1	SU	75	85	0	-89	-42	-82	-164	-16	2	69	15	11	-52	29	-19	-85	18	79	118
1	SU	00	85	10	-35	48	-48	-208	-25	-160	-18	-37	-39	-70	-4	6	-81	23	169	280
1	SU	28	85	20	62	-33	-221	-313	-185	2	37	-66	-118	-20	82	68	30	81	178	200
1	SU	35	85	30	-35	19	120	147	64	-44	-94	-108	-138	-144	-72	29	56	14	11	70
1	SU	88	85	40	-92	-9	103	216	256	200	97	9	-49	-92	-109	-78	-24	-7	-44	-101
1	SU	42	85	50	24	30	26	-28	-78	-44	40	82	49	0	-9	-3	-32	-74	-60	0
1	SU	39	85	60	64	-28	-50	22	70	14	-78	-97	-48	-21	-26	-3	52	62	2	-41
1	SU	17	85	70	30	69	79	59	14	-48	-97	-95	-34	-38	32	-25	-49	0	53	45
1	SU	7	85	80	70	20	-52	-82	-63	-49	-64	-65	-11	17	55	6	-10	28	59	46
1	SU	40	90	-80	97	150	95	0	-13	-174	-162	-76	-57	-14	-82	23	-13	19	70	63
1	SU	44	90	-70	143	208	134	1	-26	-251	-237	-118	-89	-20	-115	23	-18	32	106	89
1	SU	63	90	-60	145	206	130	2	-41	-255	-241	-123	-91	-21	-111	17	-6	39	115	91
1	SU	68	90	-50	113	151	101	-8	-57	-204	-199	-107	-79	-19	-85	2	3	45	99	75
1	SU	62	90	-40	32	51	45	-26	-64	-66	-78	-43	-22	3	-20	-9	1	32	74	16
1	SU	42	90	-30	60	40	19	-20	-46	-97	-93	-53	-62	-36	-39	-49	16	72	51	76
1	SU	84	90	-20	-31	-70	-58	-90	-93	-33	12	-25	-6	8	53	-15	38	38	97	86
1	SU	36	90	-10	-157	-126	-87	-105	-2	212	192	123	94	-22	75	-54	-88	14	-8	-54
1	SU	64	90	0	-103	-55	-90	-176	-13	-7	79	37	23	-58	29	-27	-89	19	88	119
1	SU	99	90	10	-42	39	-54	-229	-24	-194	-22	-16	-44	-76	6	11	-83	30	192	310
1	SU	38	90	20	59	-53	-307	-421	-249	17	89	-40	-124	-20	117	107	45	104	206	242
1	SU	43	90	30	-66	-6	111	140	54	-71	-123	-132	-161	-172	-86	59	95	55	53	118
1	SU	13	90	40	-119	-27	95	230	283	218	86	-19	-72	-123	-128	-77	11	39	-6	-84
1	SU	53	90																	-1

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START COL	1	2	3	4	5	6	7	8	9	10									
1 SU 11	40	-20	-4	-11	2	-8	1	-14	21	0	-1	-9	-2	8	2	-24	-13	26	
15 13	40	-10	-43	-12	-32	4	-12	59	50	10	-8	7	48	9	-33	1	-39	8	
1 SU 11	40	0	17	66	1	11	33	95	46	-38	-52	-53	-25	-31	-71	-40	-28	24	
1 SU 11	40	10	79	144	31	14	72	119	39	-85	-97	-114	-99	-74	-110	-83	-23	36	
1 SU 11	40	20	55	25	64	117	137	41	-62	-82	-54	-46	-69	-97	-73	-52	-28	-13	
1 SU 11	40	30	-103	-70	-16	44	75	108	127	129	97	88	72	30	-5	-61	-103	-136	-1
1 SU 11	40	40	-252	-240	-216	-166	-72	39	128	172	223	264	255	221	153	87	-3	-103	-2
1 SU 11	40	50	-321	-316	-281	-232	-182	-56	54	141	224	249	263	284	257	205	114	5	-1
1 SU 11	40	60	-146	-206	-236	-221	-157	-55	-12	27	58	90	129	158	170	164	143	112	
1 SU 11	40	70	100	54	7	-43	-112	-102	-92	-68	-62	-81	-64	-33	35	61	71	84	1
1 SU 11	40	80	-65	-91	-115	-128	-130	-65	-20	13	35	43	67	90	106	106	85	65	
1 SU 11	45	-80	-11	-12	-20	-18	-20	-1	3	15	16	22	16	10	7	1	3	0	
1 SU 11	45	-70	-7	-34	-36	-37	-73	-14	-7	32	60	66	38	-6	-4	4	7	4	
1 SU 11	45	-60	-40	-45	-50	-34	-14	-13	20	36	36	45	48	51	31	-3	-7	-6	-
1 SU 11	45	-50	-36	-21	-12	-12	9	-6	27	31	-10	4	18	39	41	19	2	-4	-
1 SU 11	45	-40	-7	4	16	13	31	33	9	-7	-5	7	3	-3	19	9	-11	-41	-
1 SU 11	45	-30	3	-7	6	9	18	21	9	-8	2	16	19	-4	-13	-6	-22	-23	-
1 SU 11	45	-20	-3	-20	-13	-16	3	-9	29	15	6	-7	-6	5	1	-24	-13	28	
1 SU 11	45	-10	-34	-9	-29	-6	-11	62	47	10	-6	6	53	2	-47	2	-31	17	
1 SU 11	45	0	35	71	9	13	36	99	43	-40	-63	-67	-35	-47	-85	-46	-25	38	
1 SU 11	45	10	106	151	42	27	75	124	35	-87	-123	-141	-124	-98	-124	-96	-25	52	
1 SU 11	45	20	64	32	74	137	162	57	-64	-103	-82	-73	-94	-126	-101	-65	-17	16	
1 SU 11	45	30	-102	-69	-15	50	91	131	151	144	100	80	60	15	-25	-79	-115	-141	-1
1 SU 11	45	40	-279	-254	-217	-155	-49	77	177	227	274	301	275	221	131	48	-53	-153	-2
1 SU 11	45	50	-349	-336	-288	-223	-160	-24	95	195	288	306	304	304	251	168	50	-69	-2
1 SU 11	45	60	-169	-217	-233	-208	-139	-39	2	44	79	111	148	172	177	158	121	78	
1 SU 11	2	-88																	

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START COL	1	2	3	4	5	6	7	8	9	0								
1 SU 11	55	-10	-10	-6	-19	-22	-9	65	28	2	-10	-4	57	-3	-81	-17	-8	52
11 -28	55	0	53	61	8	7	37	97	29	-51	-81	-82	-36	-52	-105	-52	-3	80
1 SU 11	55	10	122	127	31	31	72	111	25	-99	-155	-163	-131	-104	-131	-89	-6	99
57 71	55	20	53	19	70	149	180	68	-71	-129	-117	-104	-109	-129	-99	-56	5	53
1 SU 11	55	20	53	19	70	149	180	68	-71	-129	-117	-104	-109	-129	-99	-56	5	53
97 162	55	20	53	19	70	149	180	68	-71	-129	-117	-104	-109	-129	-99	-56	5	53
1 SU 11	55	30	-83	-61	-15	53	103	141	157	134	75	44	27	-14	-52	-91	-103	-110
1 SU 11	55	30	-83	-61	-15	53	103	141	157	134	75	44	27	-14	-52	-91	-103	-110
20 96	55	40	-269	-234	-201	-138	-58	176	311	354	345	324	259	170	39	-62	-157	-228
05 -101	55	40	-269	-234	-201	-138	-58	176	311	354	345	324	259	170	39	-62	-157	-228
1 SU 11	55	50	-379	-357	-289	-201	-133	-1	160	304	406	402	368	333	238	70	-84	-185
1 SU 11	55	50	-379	-357	-289	-201	-133	-1	160	304	406	402	368	333	238	70	-84	-185
11 -321	55	60	-181	-205	-192	-144	-80	-42	-18	39	67	105	143	162	164	133	99	65
88 -364	55	60	-181	-205	-192	-144	-80	-42	-18	39	67	105	143	162	164	133	99	65
1 SU 11	55	70	233	168	83	-18	-128	-239	-295	-265	-196	-193	-123	-69	45	151	185	188
1 SU 11	55	70	233	168	83	-18	-128	-239	-295	-265	-196	-193	-123	-69	45	151	185	188
12 -102	55	80	-44	-62	-83	-102	-115	-97	-63	-7	40	51	80	95	107	103	71	42
1 SU 11	55	80	-44	-62	-83	-102	-115	-97	-63	-7	40	51	80	95	107	103	71	42
19 252	55	80	-44	-62	-83	-102	-115	-97	-63	-7	40	51	80	95	107	103	71	42
1 SU 11	60	-80	-18	-21	-26	-14	-23	-15	-9	3	12	29	25	19	5	1	7	16
1 SU 11	60	-80	-18	-21	-26	-14	-23	-15	-9	3	12	29	25	19	5	1	7	16
2 -23	60	-70	-9	-63	-50	-41	-92	-10	-20	46	108	105	49	-25	-31	-14	-17	4
1 SU 11	60	-70	-9	-63	-50	-41	-92	-10	-20	46	108	105	49	-25	-31	-14	-17	4
5 -2	60	-60	-70	-61	-65	-20	18	-13	15	5	11	29	56	74	29	-18	8	37
1 SU 11	60	-60	-70	-61	-65	-20	18	-13	15	5	11	29	56	74	29	-18	8	37
1 SU 11	60	-50	-33	10	-9	-15	-18	-71	17	11	-60	4	21	71	70	58	42	21
50 -71	60	-40	21	6	4	6	-14	-15	-39	-29	-5	5	-10	1	44	34	9	-26
1 SU 11	60	-40	21	6	4	6	-14	-15	-39	-29	-5	5	-10	1	44	34	9	-26
24 35	60	-30	-2	-7	-10	-3	15	9	9	17	23	12	3	-15	-11	-4	-9	-14
1 SU 11	60	-30	-2	-7	-10	-3	15	9	9	17	23	12	3	-15	-11	-4	-9	-14
12 20	60	-20	-4	-30	-36	-19	10	17	66	32	13	-11	-22	-9	-2	-31	-20	28
1 SU 11	60	-20	-4	-30	-36	-19	10	17	66	32	13	-11	-22	-9	-2	-31	-20	28
-1 -11	60	-10	-7	-17	-17	-20	-3	70	15	-6	-5	-5	54	-4	-92	-31	-4	70
1 SU 11	60	-10	-7	-17	-17	-20	-3	70	15	-6	-5	-5	54	-4	-92	-31	-4	70
6 13	60	0	45	42	-1	5	37	90	21	-53	-74	-79	-30	-42	-103	-52	6	97
1 SU 11	60	0	45	42	-1	5	37	90	21	-53	-74	-79	-30	-42	-103	-52	6	97
24 -23	60	10	103	101	11	25	66	94	22	-95	-145	-155	-116	-82	-117	-75	7	115
1 SU 11	60	10	103	101	11	25	66	94	22	-95	-145	-155	-116	-82	-117	-75	7	115
64 63	60	20	31	-1	57	142	170	58	-79	-134	-121	-103	-93	-98	-60	-28	13	52
1 SU 11	60	20	31	-1	57	142	170	58	-79	-134	-121	-103	-93	-98	-60	-28	13	52
98 143	60	30	-61	-26	34	81	102	128	142	109	24	-24	-23	-44	-42	-67	-85	-94
1 SU 11	60	30	-61	-26	34	81	102	128	142	109	24	-24	-23	-44	-42	-67	-85	-94
12 80	60	40	-292	-247	-178	-89	62	194	297	314	309	320	255	151	23	-65	-142	-233
1 SU 11	60	40	-292	-247	-178	-89	62	194	297	314	309	320	255	151	23	-65	-142	-233
78 -75	60	50	-325	-296	-237	-163	-100	28	179	300	378	353	306	264	165	48	-87	-194
1 SU 11	60	50	-325	-296	-237	-163	-100	28	179	300	378	353	306	264	165	48	-87	-194
30 -348	60	60	-156	-175	-155	-109	-62	-37	-17	44	65	90	117	130	135	106	77	52
1 SU 11	60	60	-156	-175	-155	-109	-62	-37	-17	44	65	90	117	130	135	106	77	52
93 -327	60	70	223	151	64	-32	-145	-269	-327	-279	-184	-166	-96	-43	69	174	200	194
1 SU 11	60	70	223	151	64	-32	-145	-269	-327	-279	-184	-166	-96	-43	69	174	200	194
12 -91	19	247																

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0												
1 SU 11	70	0	-1	-14	-22	12	37	77	5	-51	-4	-51	-13	-12	-75	-57	-6	99				
61 SU 11	23	70	10	32	44	-27	3	28	46	20	-59	-67	-118	-62	-1	-58	-48	24	107			
72 SU 11	64	70	20	8	-38	18	111	132	6	-149	-185	-135	-90	-50	-24	40	58	50	58	1		
15 SU 11	75	70	30	-58	-8	85	113	83	66	78	60	-20	-66	-48	-54	-45	-65	-47	-22			
1 SU 11	-43	70	40	-183	-172	-120	-15	143	239	271	224	202	223	160	57	-55	-115	-155	-208	-2		
59 SU 11	-239	70	50	-222	-167	-133	-93	-49	70	202	271	302	241	182	142	58	-13	-100	-176	-2		
55 SU 11	-259	70	60	-104	-118	-107	-78	-48	-29	-14	47	56	67	79	81	82	56	45	46			
1 SU 11	-59	70	70	161	97	43	-28	-145	-277	-314	-224	-105	-92	-36	4	94	160	154	140	1		
71 SU 11	196	70	80	-15	-30	-48	-67	-83	-74	-47	11	59	53	55	51	50	52	33	19			
1 SU 11	-8	-11	75	-80	-16	-28	-39	-26	-44	-36	-22	-4	7	27	44	46	25	16	25	30		
1 SU 11	-7	10	-7	75	-70	14	-60	-53	-34	-116	-34	-32	42	110	114	67	-18	-14	-4	-13	-11	
1 SU 11	9	30	75	-60	-76	-80	-86	-32	29	0	12	-30	-41	6	78	110	48	-11	15	69		
26 SU 11	-37	75	-50	-60	-12	-32	-59	-84	-108	0	16	-56	10	34	108	97	88	84	78	-		
1 SU 11	15	-90	75	-40	24	16	7	17	-38	-30	-54	-34	20	27	13	25	42	33	11	-47	-	
1 SU 11	31	-1	75	-30	-24	-16	-12	-19	33	31	36	29	3	7	3	-2	-8	-5	-8	-11		
1 SU 11	-4	-31	75	-20	-29	-41	-24	1	6	48	99	49	16	14	-13	-25	-1	-46	-48	7		
1 SU 11	-6	-7	75	-10	-23	-88	-10	45	69	122	-21	-50	101	27	30	-40	-95	-89	-82	77		
1 SU 11	50	-21	75	0	-12	-31	-23	17	38	78	-3	-55	32	-43	-4	-3	-65	-68	-20	94		
1 SU 11	53	5	75	10	10	26	-33	-8	-1	29	16	-49	-35	-107	-34	35	-33	-43	33	102		
1 SU 11	58	34	75	20	19	-45	0	94	124	-7	-192	-238	-166	-97	-44	-19	51	84	86	97	1	
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1 SU 11	34	-233	75	60	-85	-101	-91	-68	-44	-32	-23	39	48	58	68	70	69	44	38	47		
1 SU 11	7	-43	75	70	140	93	48	-21	-126	-232	-252	-176	-83	-85	-29	2	69	119	115	111	1	
1 SU 11	43	167	75	80	-13	-22	-38	-57	-71	-57	-26	26	65	48	46	39	33	30	13	6	-	
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1 SU 11	85	50	-99	-79	-84	-78	-38	45	118	162	166	129	69	18	-30	-37	-10	-37	-	
1 SU 11	85	60	-1	-35	-30	-16	-28	-61	-93	-81	-26	33	76	83	38	-15	-11	36		
1 SU 11	85	70	123	115	71	-9	-75	-105	-96	-77	-68	-101	-38	-26	-12	10	30	55		
1 SU 11	85	80	9	16	-3	-37	-51	-27	18	57	65	34	30	18	-2	-20	-31	-38	-	
1 SU 11	85	90	-80	-45	-18	-2	-26	-82	-65	-25	-8	6	27	60	60	58	25	35	36	
1 SU 11	90	-70	-119	-41	49	39	-132	-69	-25	63	124	93	23	-43	24	79	91	34	-	
1 SU 11	90	-60	-3	-75	-113	-58	72	48	24	-98	-126	-76	72	122	51	-21	-18	71		
1 SU 11	90	-50	-112	-40	-30	-44	-105	-101	-7	19	-64	31	63	133	98	77	77	108		
1 SU 11	90	-40	-16	-15	-61	-154	-145	-5	49	-31	66	180	323	225	160	-15	-121	-166	-1	
1 SU 11	90	-30	-33	-129	-98	74	222	212	104	-6	-75	-53	-98	-94	-96	19	-20	47		
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1 SU 11	90	-10	55	-108	-130	50	196	50	-141	-283	-303	-143	-114	-57	19	132	148	183	2	
1 SU 11	90	0	87	-141	-144	52	184	-1	-281	-424	-373	-150	-90	-49	47	168	204	267	3	
1 SU 11	90	10	114	-174	-158	54	179	-47	-421	-573	-444	-159	-65	-40	75	205	264	355	4	
1 SU 11	90	20	169	-139	-199	-3	116	-89	-468	-663	-511	-217	-72	-15	61	193	327	471	5	
1 SU 11	90	30	-132	65	234	219	77	10	10	-87	-194	-170	-44	33	-9	-50	12	123		
1 SU 11	90	40	-12	-130	-163	-22	165	234	131	-10	-67	-32	18	-10	-45	-45	-35	-17		
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1 SU 11	90	70	107	116	78	-2	-53	-53	-28	-28	-51	-99	-35	-33	-43	-37	-11	25		
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1 SU 12	20																			
1 SU 53	53																			

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73 -78	20	-60	-108	-108	-87	-31	14	10	32	57	62	95	49	57	48	65	30	-47	-	
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67 -74	20	-40	-50	-52	-34	-6	-2	-7	14	22	31	46	24	21	24	24	16	-7	-	
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1 SU 12	20	-10	24	39	28	46	-2	24	6	8	-9	-15	9	-6	-37	-34	-44	4	-	
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1 SU 12	25	10	-19	48	-35	-42	42	79	12	-43	-33	-25	-16	74	-32	-31	-17	12	-	-
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1 SU 12	76	-97	25	40	-133	-154	-116	-82	-34	21	44	29	19	25	35	68	83	100	87	79	
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1 SU 12	66	42	25	70	86	73	59	24	-9	-35	-36	-25	-12	-4	-15	-32	-45	-48	-33	-15	
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1 SU 12	31	29	30	-80	-13	6	-16	7	28	4	-8	13	-6	27	-8	14	6	26	2	-33	
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1 SU 12	58	-132	30	40	-211	-212	-145	-86	-22	36	66	68	71	92	106	132	126	119	69	25	
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53 -308	1 SU 12	40	50	-254	-251	-205	-145	-61	36	99	114	128	106	114	141	146	139	102	47	-
71 -186	1 SU 12	40	60	-65	-140	-173	-154	-92	-58	-21	26	39	19	10	37	109	134	134	109	-
75 11	1 SU 12	40	70	158	98	0	-93	-99	-87	-82	-74	-66	-76	-38	-54	-29	17	62	97	1
27 141	1 SU 12	40	80	-17	-57	-85	-92	-73	-43	-19	2	8	-9	-2	10	46	74	83	88	-
61 18	1 SU 12	45	-80	-9	-5	-8	-7	-1	3	15	23	11	9	11	10	-5	-6	-4	-8	-
18 -16	1 SU 12	45	-70	-34	-37	-17	-13	12	1	35	42	45	24	17	6	-6	1	-3	-20	-
22 -30	1 SU 12	45	-60	-12	-11	-13	-13	-8	15	28	28	18	16	18	15	-8	-12	3	-3	-
27 -32	1 SU 12	45	-50	-7	2	-3	2	9	24	17	6	-22	4	8	8	4	-6	-9	-1	-
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11 3	1 SU 12	45	-30	-5	-11	20	-2	5	16	14	-7	1	17	-8	-12	-10	-11	-11	-21	-
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17 33	1 SU 12	45	0	27	66	34	19	-4	12	7	28	-2	-30	-16	-32	-64	-47	-42	-14	-
37 105	1 SU 12	45	10	78	122	24	-4	-17	-13	14	33	-18	-39	-39	-30	-90	-87	-69	-7	-
1 25	1 SU 12	45	20	76	68	55	-6	21	16	-4	-27	-16	7	17	-20	-40	-59	-40	-75	-
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57 -96	1 SU 12	45	40	-273	-165	-15	98	146	142	111	107	142	178	184	157	83	3	-107	-195	-2
82 -313	1 SU 12	45	50	-263	-236	-175	-110	-27	66	130	144	157	131	148	135	104	43	-23	-1	-
32 -222	1 SU 12	45	60	-91	-155	-169	-131	-63	-39	-6	37	47	24	11	38	108	133	129	94	-
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51 -16	1 SU 12	45	80	-36	-69	-86	-84	-60	-32	-9	14	21	0	7	21	57	81	78	70	-
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START
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27 33	50	20	93	65	44	-20	9	1	-16	-38	-27	-7	-3	-43	-53	-56	-20	-41
1 SU 12	50	30	-2	40	67	91	107	77	30	0	14	50	80	27	-43	-92	-114	-145
49 64	50	40	-239	-124	24	128	160	145	108	102	138	168	169	136	53	-38	-144	-213
1 SU 12	50	50	-245	-198	-129	-67	5	88	144	154	164	132	124	134	112	63	-10	-75
1 SU 12	50	60	-102	-154	-150	-100	-35	-19	9	43	48	21	5	30	97	122	112	74
29 -31	50	70	118	39	-53	-118	-100	-81	-68	-55	-46	-66	-25	-28	26	69	94	93
1 SU 12	50	80	-48	-74	-81	-69	-42	-15	4	26	31	6	12	24	60	78	65	46
1 SU 12	55	-80	-6	-7	-14	-13	-4	-5	13	23	12	12	13	13	-2	-3	-1	-2
12 -9	55	-70	-28	-34	-17	-21	13	-8	37	40	45	30	22	9	-6	-1	-8	-25
1 SU 12	55	-60	-6	-9	-19	-14	-6	18	32	33	19	13	12	12	-12	-12	3	-8
22 -27	55	-50	4	13	1	3	9	22	17	5	-26	1	5	3	-4	-10	-9	-3
1 SU 12	55	-40	7	11	5	-2	12	11	4	-13	-12	2	-4	-9	11	8	-9	-8
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1 SU 12	55	-20	1	14	0	-12	23	46	60	-2	7	-28	-36	-48	-30	-13	6	14
22 -11	55	-10	-14	6	41	27	0	35	-25	11	24	5	44	-22	-54	4	15	-21
1 SU 12	55	0	2	31	-4	-38	-53	-11	-8	25	8	-17	5	-20	-60	-14	29	48
26 -47	55	10	26	47	-64	-103	-104	-56	18	47	-9	-38	-26	-10	-56	-32	43	116
1 SU 12	55	20	81	26	5	-54	-20	-26	-31	-42	-27	-6	-8	-41	-40	-32	17	9
93 110	55	30	38	58	71	78	86	59	10	-21	-3	32	62	14	-49	-90	-104	-126
1 SU 12	55	30	38	58	71	78	86	59	10	-21	-3	32	62	14	-49	-90	-104	-126
02 87	55	30	38	58	71	78	86	59	10	-21	-3	32	62	14	-49	-90	-104	-126
1 SU 12	55	30	38	58	71	78	86	59	10	-21	-3	32	62	14	-49	-90	-104	-126
01 -14	55	30	38	58	71	78	86	59	10	-21	-3	32	62	14	-49	-90	-104	-126

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1 46 -255	SU	12	55	50	-227	-132	-57	-7	34	88	135	120	134	126	115	129	91	38	-36	-105	-2
1 O2 -247	SU	12	55	60	-124	-155	-125	-47	19	0	-17	-12	-12	-32	-35	16	116	139	139	105	
1 54 -28	SU	12	55	70	179	109	-3	-65	-68	-79	-112	-136	-123	-188	-59	-25	47	112	105	63	
1 SU 12	55	80	-33	-37	-42	-24	-9	-5	-14	-15	-9	-41	-6	22	65	86	65	32			
1 -4 -20	SU	12	60	-80	2	-4	-56	-26	-29	-66	-34	15	-11	9	-5	21	48	19	0	34	
1 SU 12	60	57	60	-70	2	-7	-77	-33	-35	-86	-41	22	-16	11	-9	24	66	25	-4	42	
1 SU 12	60	77	60	-60	0	-8	-71	-26	-24	-72	-29	23	-14	10	-12	16	61	22	-7	34	
1 SU 12	60	69	60	-50	-2	-7	-47	-11	-5	-38	-6	21	-9	6	-12	1	39	13	-9	16	
1 SU 12	60	44	60	-40	5	10	-7	12	18	6	3	5	-1	0	-7	-16	11	4	-18	-11	-
1 SU 12	60	15	60	-30	-33	-32	-1	5	13	30	47	31	6	9	5	-21	-27	-11	11	-12	-
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1 SU 12	60	10	60	20	59	-16	-33	-87	-48	-50	-40	-40	-22	2	-2	-28	-20	-6	48	48	1
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1 SU 12	60	44	60	70	162	95	-10	-60	-42	-37	-70	-113	-116	-182	-52	-31	22	85	86	50	
1 SU 12	60	73	60	80	-33	-28	-21	-1	12	17	2	-11	-13	-47	-10	18	51	66	47	14	-
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DATASET: CWEJ412.GRAMOD90.DATA
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53 -195	70	60	-101	-137	-111	-57	-10	-6	41	46	14	-43	-52	17	114	118	94	57	
1 SU 12	70	70	162	133	34	-28	11	63	34	-59	-104	-163	-23	-56	-93	-64	-16	8	
38 -19	70	80	-16	1	7	16	30	49	38	3	-13	-49	-12	0	3	7	3	-6	-
48 113	75	-80	-9	-30	-119	-69	-39	-116	-77	18	-5	13	8	38	79	59	51	61	
1 SU 12	75	-70	-13	-37	-156	-88	-46	-155	-101	27	-8	17	7	46	105	76	65	77	
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1 SU 12	75	-50	-8	-8	-77	-32	-5	-78	-40	28	-5	6	-5	10	54	29	22	28	
58 124	75	-40	11	30	1	4	5	6	9	12	3	2	-8	-16	6	-9	-27	-14	-
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48 -68	75	10	-97	-109	-252	-226	-160	-54	67	89	30	-27	27	72	34	37	146	241	1
1 SU 12	75	20	1	-86	-110	-151	-85	-52	-26	-17	0	42	33	18	42	67	107	70	1
28 -77	75	30	117	95	22	-23	-24	-9	6	-11	-39	-23	23	-25	-60	-63	-67	-43	
42 -6	75	40	-136	-7	128	209	171	97	33	34	83	148	132	53	-50	-100	-144	-174	-2
1 SU 12	75	50	-150	-64	-14	23	44	71	68	33	50	43	49	71	49	25	18	-21	-1
14 110	75	60	-90	-132	-107	-55	-20	-25	31	47	22	-38	-57	9	108	112	92	60	
40 -235	75	70	178	179	79	-5	26	86	56	-55	-111	-157	-7	-61	-136	-124	-58	-14	
1 SU 12	75	80	-6	16	21	22	29	48	40	2	-13	-47	-10	-5	-13	-14	-12	-9	-
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55 133	80	-50	-9	0	-77	-41	-6	-94	-60	26	-5	10	-3	19	61	34	37	28	
1 SU 12	80	-40	12	40	10	0	-1	5	7	13	5	5	-9	-14	7	-13	-27	-18	-
41 117	80	-40	12	40	10	0	-1	5	7	13	5	5	-9	-14	7	-13	-27	-18	-
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1 SU 29	60	85	80	118	105	10	-74	-61	0	44	34	6	-69	-45	-64	-48	-12	-2	-15	
1 SU 12	61	90	-80	-21	-30	-155	-117	-51	-167	-131	12	-5	22	23	71	109	95	117	79	
1 SU 40	110	90	-70	-28	-31	-195	-151	-61	-227	-182	18	-8	32	25	91	144	124	155	98	
1 SU 49	151	90	-60	-20	-12	-162	-124	-43	-204	-161	24	-11	29	10	76	125	98	129	76	
1 SU 33	131	90	-50	-11	16	-77	-59	-8	-126	-100	22	-5	18	1	37	75	44	67	28	
1 SU 6	76	90	-40	14	60	28	-8	-13	3	3	15	9	11	-11	-10	9	-21	-27	-26	
1 SU 43	3	90	-30	-37	7	103	128	109	45	34	15	-16	-1	-6	-26	-73	-87	-86	-74	
1 SU 12	36	90	-20	-3	68	81	31	16	137	180	65	19	-49	-62	-81	-72	-94	-37	-21	
1 SU 75	-107	90	-10	-31	-6	131	67	-43	239	176	-16	38	34	76	9	-109	-129	-245	-70	
1 SU 31	86	90	0	-106	-101	-106	-99	-104	107	155	54	33	0	71	68	-20	-34	-43	100	
1 SU 36	-21	90	10	-175	-202	-336	-268	-169	-21	133	134	24	-33	75	132	76	58	155	271	1
1 SU 03	47	90	20	54	149	39	72	242	297	102	-66	-86	-89	-129	-117	47	224	97	-204	-4
1 SU 02	-231	90	30	-102	4	119	137	105	84	-16	-181	-259	-153	46	142	46	-65	9	112	
1 SU 54	-76	90	40	-181	-134	27	255	347	201	-60	-153	-29	116	110	-1	-46	1	20	-72	-1
1 SU 97	-204	90	50	-22	-127	-188	-238	-215	-91	19	15	-60	-29	47	60	-6	-17	123	289	3
1 SU 00	139	90	60	-135	-228	-184	-126	-153	-160	-25	167	218	84	-29	34	153	153	69	45	
1 SU 94	22	90	70	228	327	224	67	52	119	81	-71	-138	-135	47	-65	-236	-258	-152	-79	-
1 SU 53	43	90	80	166	132	-7	-128	-110	-23	54	57	17	-80	-53	-76	-55	-14	-4	-15	
1 SV 37	103	20	-80	-4	-1	4	10	5	0	9	-1	0	8	-4	-13	-1	13	-1	-15	
1 SV -6	-3	20	-70	-5	-1	6	16	7	0	12	-1	0	11	-4	-18	-2	18	0	-19	
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1 SV 0	2	20	-30	-3	-2	4	4	-2	-5	2	-2	-9	1	1	-6	-7	-1	9	11	
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53 197	1 SV 1	25	80	119	-2	-38	-169	-196	-150	-122	-68	-64	-84	-101	-93	-4	84	160	261	2
67 201	1 SV 1	30	-80	0	6	14	6	-8	-8	10	7	0	-8	-7	0	2	3	-10	-8	
5 3	1 SV 1	30	-70	-1	7	18	9	-10	-12	11	7	-1	-12	-10	-1	0	2	-13	-10	
6 3	1 SV 1	30	-60	-2	6	17	11	-6	-12	7	5	-2	-11	-9	-3	-2	1	-8	-6	
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-1 -5	1 SV 1	30	-20	2	-3	-5	1	15	5	-12	-8	-5	11	6	-9	-10	-8	16	17	
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1 SV 1	30	50	8	-61	-124	-146	-134	-82	-9	36	21	-23	-54	-20	45	96	130	133	1	
14 70	1 SV 1	30	60	29	-71	-172	-225	-214	-148	-54	9	14	-20	-84	-61	39	137	220	247	2
16 137	1 SV 1	30	70	71	-48	-161	-240	-237	-182	-95	-24	-6	-57	-114	-101	1	141	277	315	2
67 193	1 SV 1	30	80	114	-3	-108	-203	-185	-230	-192	-131	-121	-128	-127	-47	67	190	287	343	2
72 201	1 SV 1	35	-80	-11	10	24	-4	5	2	13	36	35	29	18	4	-9	-26	-32	-38	-
36 -22	1 SV 1	35	-70	1	14	16	2	-13	6	26	10	-11	-1	9	1	-10	-5	-4	-13	-
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69 124																				
1 SV	45	-80	1	15	13	-36	-78	11	-4	35	40	43	16	3	2	-13	-15	-21	-	
13 1																				
1 SV	45	-70	8	17	14	0	-16	3	26	11	-17	-11	5	5	-3	-1	-3	-14	-	
17 -4																				
1 SV	45	-60	2	9	18	9	-17	-9	9	-3	-21	-15	5	19	10	-13	-9	2		
3 0																				
1 SV	45	-50	2	2	10	12	-5	-12	1	0	-13	-10	0	13	11	-14	-9	3		
7 3																				
1 SV	45	-40	-3	-5	7	11	-5	-7	3	5	-15	-12	4	10	1	-12	2	9		
7 -1																				
1 SV	45	-30	-3	-10	7	9	-6	-5	6	7	-17	-12	9	7	-5	-2	9	8		
0 -4																				
1 SV	45	-20	2	6	9	8	3	-8	-10	7	3	2	-4	-8	-3	-10	4	12		
-5 -8																				
1 SV	45	-10	-6	15	7	-3	1	-5	-10	-1	0	6	4	-14	-9	5	20	7		
-5 -11																				
1 SV	45	0	0	14	13	-8	-7	1	6	3	-10	-6	-5	-8	1	4	4	5		
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1 SV	45	10	4	14	17	-13	-14	7	19	6	-18	-15	-12	-2	9	3	-9	4		
1 -2																				
1 SV	45	20	-13	-12	-2	-19	0	30	43	16	-21	-27	-17	7	10	-14	-18	-2		
18 20																				
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1 SV	45	40	-48	-60	-70	-59	-10	39	70	62	15	-21	-22	10	49	46	22	2		
-7 -18																				
1 SV	45	50	-73	-112	-136	-127	-84	-31	31	68	56	14	-9	32	94	121	102	64		
19 -29																				
1 SV	45	60	-88	-158	-204	-205	-177	-127	-46	34	77	70	23	51	137	189	185	145		
1 SV	45	70	-65	-156	-193	-198	-199	-187	-119	-13	69	75	36	48	127	202	224	176	1	
26 47																				
1 SV	45	80	-42	-125	-178	-242	-287	-270	-227	-123	23	96	173	200	83	93	194	271	2	
52 109																				
1 SV	50	-80	2	17	13	-53	-85	12	-2	37	40	50	11	-6	3	-13	-15	-17		
-4 10																				
1 SV	50	-70	12	19	14	1	-16	2	25	13	-17	-17	1	8	2	0	-6	-18	-	
20 -2																				
1 SV	50	-60	5	12	18	8	-18	-9	10	-2	-25	-20	5	24	13	-12	-9	-1		
0 0																				
1 SV	50	-50	3	3	10	11	-5	-11	2	1	-15	-12	0	15	11	-15	-10	1		
6 4																				
1 SV	50	-40	-2	-4	8	11	-6	-8	4	6	-16	-14	5	12	1	-13	1	9		
7 -1																				
1 SV	50	-30	-2	-9	7	9	-7	-7	7	9	-18	-13	9	8	-5	-2	9	8		
0 -4																				
1 SV	50	-20	4	7	7	4	-3	-11	-9	11	8	5	-6	-8	0	-9	1	9		
-6 -6																				
1 SV	50	-10	-3	16	3	-10	-13	-15	-9	11	12	9	5	-15	-9	6	20	5		
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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

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9 10	75	-60	1	9	50	37	8	0	0	-41	-48	-25	-14	-12	2	10	-2	-4
10 10	75	-50	7	10	23	10	-14	-14	8	5	-5	-16	-20	-11	7	2	-10	-3
13 9	75	-40	5	-2	8	15	2	-14	-3	1	-6	-5	-12	-5	12	5	-5	-6
1 SV 1	75	-30	6	7	-8	-5	2	-11	2	18	8	-2	-9	-3	12	9	-2	-9
10 -6	75	-20	20	7	-28	-30	-22	-18	7	56	49	18	-14	-7	7	-10	-15	-9
1 SV 1	75	-10	22	18	-49	-69	-69	-53	15	99	95	15	-18	-8	21	13	-3	-6
-8 -2	75	0	25	37	10	-29	-25	-10	2	13	14	9	-6	-18	4	28	9	-17
1 SV 1	75	10	28	52	55	3	10	25	-9	-56	-50	5	4	-25	-10	40	19	-26
1 SV 1	75	20	8	10	33	10	10	11	-6	-29	-42	-20	-3	15	7	-24	-16	6
12 19	75	30	17	23	13	-1	31	50	20	-20	-49	-22	10	6	-10	-26	-12	-14
1 SV 1	75	40	-44	-4	21	21	50	66	50	12	-41	-32	6	15	-5	-21	-9	-9
22 4	75	50	-57	-31	-26	-32	3	29	49	58	6	-7	11	31	29	3	3	7
1 SV 1	75	60	-43	-47	-64	-77	-83	-54	16	75	82	70	8	7	45	23	10	39
1 SV 1	75	70	81	31	41	78	40	-51	-72	18	98	35	-112	-167	-103	-43	-35	-13
25 -34	75	80	97	114	30	1	140	231	18	-293	-222	-15	95	25	-242	-255	-25	142
1 SV 1	80	-80	2	15	51	32	10	10	-1	-46	-47	-16	-7	-14	-3	12	6	2
1 SV 1	80	-70	3	18	64	41	11	9	0	-61	-63	-24	-13	-20	-6	14	8	-2
1 SV 1	80	-60	3	15	55	36	8	3	1	-48	-53	-24	-16	-20	-4	13	6	-2
7 9	80	-50	9	12	25	7	-17	-12	11	6	-4	-16	-24	-16	6	5	-7	-3
11 8	80	-40	9	-3	4	13	3	-13	-2	-1	-8	-4	-12	-7	11	8	-1	-8
1 SV 1	80	-30	9	8	-13	-9	4	-10	4	19	8	-2	-10	-3	15	13	-2	-13
14 -7	80	-20	23	3	-34	-32	-22	-18	8	63	54	18	-15	-6	9	-9	-18	-13
1 SV 1	80	-10	-4	75	47	-16	-48	-28	24	30	-15	-15	28	9	-36	-41	0	28
-8 1	80	0	21	42	-6	-32	-6	18	7	-19	-24	4	12	-21	-29	9	38	13
5 -41	80	10	35	27	-30	-39	18	43	-1	-42	-26	14	7	-34	-23	36	58	7
1 SV 1	80																	
24 -23																		
1 SV 1																		
38 -12																		

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DATASET: CWEJ412.GRAM0090.DATA
MEMBER: SCIDAT9

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1 -6																				
1 SV 2	30	-40	-1	5	6	2	0	0	0	-7	-3	4	-12	-7	-4	-1	10	11		
1 3	-7																			
1 SV 2	30	-30	-6	-5	0	6	3	-3	-3	-5	-2	5	-1	-4	-13	-6	18	20		
1 6	-9																			
1 SV 2	30	-20	6	-5	-4	6	8	2	-8	-7	-5	17	11	-15	-6	-4	7	14		
1 -7	-8																			
1 SV 2	30	-10	0	-17	-11	3	29	29	1	-29	-31	11	9	-4	4	-10	-3	16		
1 2	0																			
1 SV 2	30	0	3	-1	-9	-15	-18	7	32	5	-18	6	-2	-6	12	-7	-16	13		
1 0	-2																			
1 SV 2	30	10	6	15	28	-34	-65	-14	61	39	-5	1	-14	-8	19	-4	-28	9		
1 -3	-4																			
1 SV 2	30	20	-1	-2	27	-16	-30	7	40	10	-11	1	-33	-8	22	-22	-20	16		
1 6	14																			
1 SV 2	30	30	0	-11	-30	-43	-11	23	36	22	0	-24	-27	-4	16	-5	-10	10		
1 24	32																			
1 SV 2	30	40	4	-19	-47	-62	-39	4	31	27	2	-35	-39	-8	28	30	29	30		
1 33	32																			
1 SV 2	30	50	12	-34	-76	-101	-97	-37	18	17	-13	-40	-55	-23	37	76	90	87		
1 81	57																			
1 SV 2	30	60	25	-47	-115	-176	-175	-87	-8	-6	-26	-55	-101	-63	53	147	172	179	1	
1 72	112																			
1 SV 2	30	70	121	-3	-97	-167	-190	-133	-54	-20	-42	-101	-158	-134	-30	83	164	244	2	
1 80	236																			
1 SV 2	30	80	130	18	0	-103	-149	-144	-123	-99	-116	-157	-134	-87	-66	46	211	286	2	
1 92	194																			
1 SV 2	35	-80	0	6	-2	-4	-6	6	97	12	-8	-10	-2	-17	-24	-21	-11	2		
1 -6	-12																			
1 SV 2	35	-70	8	11	2	-4	11	33	25	-8	-28	-14	7	2	-13	-11	-1	-4		
1 -8	-6																			
1 SV 2	35	-60	9	14	6	-3	-5	8	12	-14	-26	-8	9	26	8	-12	-3	-10		
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1 SV 2	35	-50	5	18	10	3	-8	-12	-3	-9	-12	-3	-4	15	16	-4	-5	-4		
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1 SV 2	35	-40	0	9	11	3	-10	-13	-4	-1	-5	-6	-6	11	11	-1	2	2		
1 2	-5																			
1 SV 2	35	-30	-2	-4	4	5	-7	-7	3	5	-9	-9	1	6	-2	7	10	6		
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1 SV 2	35	-20	8	-1	-4	-1	4	-2	-6	1	-4	9	7	-11	-4	2	10	12	-	
1 -3	-1																			
1 SV 2	35	-10	5	-10	-11	-6	15	19	0	-16	-18	8	5	-6	3	-1	4	12		
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1 -2	1																			
1 SV 2	35	10	9	10	13	-28	-44	-12	36	29	9	9	-14	-20	7	4	-14	6		
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1 SV 2	35	20	-7	-8	-2	-25	-17	9	28	12	-5	-4	-15	-2	9	-11	-11	11		
1 20	18																			
1 SV 2	35	30	4	-4	-21	-32	-7	19	31	21	2	-17	-24	-7	13	-3	-8	-1		
1 10	24																			

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MEMBER: SCIDAT9

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1 SV	2	45	-20	11	-1	-2	3	-1	-8	-4	8	4	7	3	-11	-3	0	7	11
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1 SV	2	45	-10	9	-10	-13	-9	4	7	-2	-7	-3	17	7	-6	-1	-8	3	13
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1 SV	2	45	0	6	0	4	-14	-13	3	17	8	0	10	-8	-19	0	-4	-9	12
4	5																		
1 SV	2	45	10	4	7	17	-19	-27	-1	32	21	2	4	-21	-29	0	-1	-19	12
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1 SV	2	45	50	-63	-72	-76	-74	-62	-23	12	12	10	12	19	66	115	111	65	10
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1 SV	2	45	60	-74	-113	-146	-169	-157	-88	-31	-20	2	25	22	85	189	221	149	79
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1 SV	2	45	80	-125	-404	-564	-343	6	-5	-104	-185	-122	-46	35	128	183	323	471	397
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1 SV	2	50	-40	1	15	15	4	-10	-11	-1	0	-11	-12	-4	15	9	-4	3	3
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1 SV	2	50	-30	2	1	6	6	-9	-6	8	7	-13	-14	2	7	-5	6	11	5
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8	7																		
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20	10																		
1 SV	2	50	30	-3	11	3	-10	10	32	40	20	-6	-21	-15	4	12	-17	-27	-19
14	-1																		
1 SV	2	50	40	-43	-17	-13	-15	3	31	45	34	9	-10	3	34	49	23	-5	-30
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START
COL

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56 -59	2	65	70	-9	-73	-100	-42	32	50	8	-61	-72	-32	26	99	141	118	26	-56	-
1 SV	2	65	80	-71	-297	-424	-203	207	318	-7	-331	-114	42	21	40	-33	117	281	268	1
1 SV	2	70	-80	-5	19	36	19	6	1	-1	-19	-20	-17	-28	-12	12	13	-9	-8	-
6 0	2	70	-70	-6	28	50	28	9	2	-1	-25	-27	-23	-39	-17	17	18	-11	-10	-
1 SV	2	70	-60	-4	26	44	24	6	0	0	-21	-23	-20	-37	-17	12	15	-8	-8	-
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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13 -12	75	-10	28	-6	-57	-55	-37	-25	10	28	53	58	31	0	-29	-32	16	25	-
1 SV 2	75	0	17	18	9	-17	-33	-12	23	22	16	11	-12	-34	-16	1	9	21	-
1 SV 2	75	10	8	37	61	15	-29	-1	34	18	-13	-26	-48	-63	-5	29	4	18	-
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8 70	75	80	-61	-272	-397	-134	363	528	134	-344	-235	-69	-38	-1	-81	73	242	209	-
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1 SV 3	60	40	-18	5	14	0	4	24	50	54	22	-1	0	-4	-13	-29	-35	-32
1 SV 3	60	50	-51	-45	-16	-5	10	35	59	69	55	35	28	17	1	-28	-50	-58
1 SV 3	60	60	-69	-83	-68	-38	-2	40	79	75	66	81	61	31	20	-4	-34	-52
1 SV 3	60	70	-71	-106	-104	-75	-41	-10	37	93	133	114	36	-28	-35	-8	27	42
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1 SV 3	65	-80	-15	0	8	0	-16	-20	-1	-5	-31	-30	-6	11	20	23	20	20
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1 SV 3	70	140	-10	3	8	3	-12	-18	1	-2	-31	-33	-9	7	20	27	20	17
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1 SV 3	70	160	-10	3	8	3	-12	-18	1	-2	-31	-33	-9	7	20	27	20	17
1 SV 3	70	170	-10	3	8	3	-12	-18	1	-2	-31	-33	-9	7	20	27	20	17
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1 SV	3	70	-30	3	7	5	-5	-1	15	8	-7	-2	11	-3	-17	-10	-10	7	13
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1 SV	3	70	-10	14	-2	-6	-24	-18	16	14	12	44	60	23	-10	-35	-51	-34	-16
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1 42 9	3	70	20	-3	22	38	-4	-30	-4	33	9	-41	-46	-27	3	5	-18	-7	32
1 SV	3	70	30	5	19	17	0	-5	10	27	16	-8	-13	-9	-13	-12	-18	-18	-1
1 -2 -1	3	70	40	-18	12	26	11	9	21	43	47	14	-11	-8	-9	-11	-23	-30	-29
1 SV	3	70	50	-38	-30	-1	6	21	42	60	62	40	13	1	-6	-10	-25	-41	-51
1 -20 -13	3	70	60	-41	-59	-50	-15	30	68	85	57	43	59	33	-3	-9	-17	-38	-59
1 SV	3	70	70	-1	-43	-67	-43	11	56	79	83	78	40	-39	-93	-86	-42	1	24
1 51 -33	3	70	80	111	66	79	113	90	0	-37	58	249	188	-42	-196	-316	-303	-202	-57
1 SV	3	75	-80	-4	8	7	3	-9	-17	3	0	-32	-36	-12	3	19	28	19	12
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1 SV	3	75	-60	-6	12	9	3	-11	-18	3	-4	-39	-38	-14	-1	20	32	25	18
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2 -3	75	40	-20	12	30	16	11	18	40	47	13	-15	-15	-14	-10	-19	-26	-25
1 SV 3	75	50	-34	-22	7	9	19	37	58	63	36	4	-10	-13	-12	-24	-37	-45
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1 SV 3	75	70	21	-28	-61	-34	27	74	85	69	48	2	-78	-123	-97	-37	15	39
25 -10	75	80	124	79	92	151	153	41	-55	3	204	167	-62	-222	-328	-285	-180	-61
1 SV 3	80	-80	2	13	6	3	-6	-16	5	2	-33	-39	-15	-1	18	29	18	7
39 40	80	-70	1	19	9	4	-7	-20	7	2	-45	-51	-22	-3	22	39	23	10
1 SV 3	80	-60	0	18	8	3	-8	-17	6	-1	-41	-42	-19	-7	18	34	23	13
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8 -1	80	-40	-7	10	8	5	1	-3	-1	-3	-8	1	-7	-14	-3	1	8	11
1 SV 3	80	-30	-7	1	9	-3	-3	15	12	-7	0	11	-9	-21	-10	-8	11	21
1 SV 3	80	-20	-3	4	13	-7	-12	8	6	0	30	30	-2	-10	-19	-39	-10	16
1 -12	80	-10	-48	14	85	15	-118	-108	12	65	0	-47	-6	41	12	-64	0	97
1 SV 3	80	0	-13	47	102	25	-110	-117	4	66	-9	-90	-70	-1	18	-20	6	73
1 SV 3	80	10	6	66	113	31	-106	-119	1	68	-13	-112	-105	-24	21	4	10	62
74 7	80	20	-27	73	100	4	-85	-51	33	26	-48	-56	3	19	-24	-37	23	75
1 SV 3	80	30	-10	46	60	16	-32	-28	3	0	-22	-19	-2	3	10	23	25	4
25 -52	80	40	-42	-1	32	29	9	16	45	45	8	-26	-41	-35	0	30	19	-8
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31 -46	80	60	37	-21	-65	-38	29	67	43	-7	-5	23	-22	-88	-84	-36	18	48
1 SV 3	80	70	26	-30	-61	-29	35	77	78	52	23	-30	-112	-147	-101	-19	46	71
30 -50	80	80	166	104	83	155	200	84	-77	-82	118	124	-76	-226	-303	-229	-136	-66
1 SV 3	85	-80	8	18	5	3	-3	-15	7	4	-34	-42	-18	-5	17	30	17	2
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11	-12																	
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1 SV 3	90	60	88	7	-65	-60	-2	36	14	-33	-31	-9	-61	-131	-120	-51	44	120	1
28 -11	90	70	40	-28	-60	-17	54	87	68	20	-25	-92	-178	-197	-111	12	102	128	1
1 SV 3	90	80	243	152	73	170	293	165	-122	-240	-36	46	-106	-239	-265	-129	-57	-78	-
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1 SV 4	20	70	18	17	13	3	-7	-5	6	5	-10	-19	-23	-29	-28	-16	2	19	-
38 33	20	80	21	17	10	0	-8	-7	2	4	-7	-22	-30	-28	-20	-4	11	19	-
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9 19																		
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1 SV	4	85	80	7	49	-7	-6	102	163	57	-94	-209	32	174	-57	-110	-9	85	24
00 -103	4	90	-80	0	16	5	-41	-52	-53	-6	4	-14	-26	-32	-9	10	18	32	51
1 SV	4	90	-70	4	26	8	-46	-70	-64	-4	10	-12	-28	-33	-4	23	29	50	77
1 SV	4	90	-60	2	17	3	-47	-70	-61	-7	2	-14	-29	-34	-3	26	33	54	75
1 SV	4	90	-50	10	7	-5	-50	-73	-50	-12	-3	-16	-21	-14	4	17	35	59	56
1 SV	4	90	-40	-12	-20	-22	-17	-17	-2	-12	-13	5	0	-9	0	36	31	18	22
1 SV	4	90	-30	-22	-31	-17	2	8	16	3	-21	-23	2	13	8	21	19	16	0
1 SV	4	90	-20	6	-16	-20	-5	-3	21	-7	-20	-4	8	20	26	16	13	-1	-32
13 12	4	90	-10	34	-30	-53	-30	-12	33	-7	-13	20	18	29	22	13	28	6	-48
1 SV	4	90	0	4	10	54	58	-13	-91	-117	-68	-33	4	24	42	66	31	-3	-12
16 21	4	90	10	13	-9	45	112	49	-103	-200	-127	2	48	25	8	54	81	36	-33
1 SV	4	90	20	4	69	88	75	11	-72	-126	-97	4	66	37	-45	-57	46	99	26
1 SV	4	90	30	-6	74	116	51	-55	-78	-29	-1	3	9	24	10	-47	-64	-15	21
1 SV	4	90	40	-59	8	84	53	-42	-53	12	36	5	-25	-17	-10	-50	-57	5	71
61 -21	4	90	50	8	-10	1	-10	-45	-41	7	50	44	-16	-72	-86	-63	-16	29	79
1 SV	4	90	60	-89	-70	19	46	-16	-60	-22	39	37	3	-15	-28	-50	-53	10	117
1 SV	4	90	70	-6	-13	0	-8	-45	-61	-5	70	64	0	-66	-80	-31	18	42	49
1 SV	4	90	80	9	71	-3	-19	100	177	60	-111	-219	45	182	-78	-134	7	131	44
27 -136	4	90	80	9	71	-3	-19	100	177	60	-111	-219	45	182	-78	-134	7	131	44

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DATASET: CWEJ412.GRAMOD90.DATA
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1 SV	5	35	-70	-20	13	53	71	73	68	59	40	16	-15	-29	-32	-50	-57	-57	-56	-
44 -35	1 SV	5	35	-60	8	14	43	57	53	55	48	13	-13	-24	-32	-38	-44	-46	-39	-30
22 -3	1 SV	5	35	-50	22	25	28	30	30	30	20	4	-17	-35	-39	-31	-20	-20	-21	-14
-4 12	1 SV	5	35	-40	16	10	8	10	16	9	-9	-12	-15	-32	-27	-6	1	0	1	4
9 15	1 SV	5	35	-30	6	-6	-8	-4	-1	4	-9	-12	-10	-14	-8	1	8	9	18	18
5 3	1 SV	5	35	-20	6	-8	-6	-10	-6	7	-12	-17	-2	13	8	-5	3	3	15	16
-8 2	1 SV	5	35	-10	8	-12	-8	-4	5	12	1	-21	-17	13	16	-1	-4	1	13	7
1 SV	5	35	0	2	-7	-2	-14	-14	-1	23	10	-8	2	-7	-3	0	-4	4	4	14
13 5	1 SV	5	35	10	-4	-3	5	-23	-33	-13	45	40	1	-9	-31	-5	4	-10	-5	21
4 3	1 SV	5	35	20	1	-1	1	-10	-11	-5	7	11	-4	-11	-19	-4	10	2	3	4
1 SV	5	35	30	1	-1	2	0	4	0	1	11	-3	-14	-18	-14	5	5	8	3	3
10 16	1 SV	5	35	40	0	-1	4	2	6	0	-4	7	-2	-17	-20	-10	7	11	11	1
1 SV	5	35	50	0	-5	-1	1	2	0	-1	3	1	-13	-18	-9	0	4	10	11	11
1 SV	5	35	60	-2	-4	0	-1	-3	0	7	7	1	-12	-21	-16	-3	4	8	16	16
8 8	1 SV	5	35	70	-7	-8	-4	-3	-1	7	18	19	6	-11	-27	-25	-9	1	10	17
1 SV	5	35	80	-25	-15	33	60	9	6	16	21	1	1	3	-20	-31	-30	-19	0	0
14 2	1 SV	5	40	-80	17	35	85	139	2	52	48	57	13	-14	-42	-47	-55	-76	-66	-62
1 SV	5	40	-70	-5	28	64	81	75	56	40	22	6	-21	-34	-37	-56	-60	-52	-47	-
62 -26	1 SV	5	40	-60	20	24	52	64	53	45	31	-1	-19	-26	-34	-44	-54	-50	-36	-20
35 -25	1 SV	5	40	-50	31	32	34	34	30	26	14	-5	-26	-42	-43	-36	-25	-24	-21	-8
1 SV	5	40	-40	23	14	9	9	12	5	-13	-17	-21	-35	-29	-9	-1	0	3	8	8
7 23	1 SV	5	40	-30	10	-6	-11	-9	-7	-2	-15	-18	-14	-15	-7	3	9	11	22	24
17 23	1 SV	5	40	-20	10	-8	-10	-18	-13	3	-18	-26	-8	12	12	0	9	8	19	20
14 11	1 SV	5	40	-10	10	-14	-15	-11	-1	6	-8	-29	-20	14	20	6	1	7	19	11
-2 10	1 SV	5	40	0	1	-9	-2	-15	-16	-4	19	7	-9	3	-4	1	1	-3	7	16
-8 11	1 SV	5	40	10	-8	-3	10	-18	-31	-15	45	42	1	-9	-29	-5	2	-14	-6	22
1 SV	5	40	19	-2																

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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19 36	5	50	-50	44	31	32	26	8	1	-8	-21	-38	-49	-44	-37	-26	-14	-2	16
1 SV	5	50	-40	30	10	-1	-3	-5	-9	-24	-28	-28	-38	-29	-9	2	9	17	28
34 47	5	50	-30	15	-9	-20	-20	-18	-14	-28	-29	-20	-16	-5	4	12	16	30	40
1 SV	5	50	-20	13	-10	-16	-27	-22	-11	-39	-41	-15	12	21	9	14	16	31	33
1 SV	5	50	-10	17	-6	-20	-27	-16	-10	-29	-36	-17	14	28	11	2	14	32	19
1 SV	5	50	0	0	-2	2	-20	-22	-8	15	6	-15	-4	-1	8	7	1	10	16
1 SV	5	50	10	-16	3	24	-12	-28	-7	58	46	-13	-22	-30	5	11	-13	-11	14
1 SV	5	50	20	-4	-1	10	-2	-11	-9	8	11	-15	-22	-18	3	19	9	3	-1
1 SV	5	50	30	0	-3	4	4	5	-1	2	11	-11	-21	-19	-14	6	9	11	4
1 SV	5	50	40	-1	-2	8	5	6	-2	-2	8	-6	-21	-23	-13	5	12	14	3
1 SV	5	50	50	1	-3	1	1	-1	-1	0	4	0	-16	-20	-10	-1	4	12	12
1 SV	5	50	60	-1	0	4	1	-7	-2	9	8	-2	-16	-22	-16	-2	7	11	17
1 SV	5	50	70	-14	-2	1	-5	-9	3	25	32	17	-7	-28	-30	-13	1	9	19
1 SV	5	50	80	-58	-72	3	27	-16	5	43	59	29	15	1	6	-17	-49	-6	7
1 SV	5	55	-80	30	35	37	26	8	4	19	-1	-36	-53	-48	-22	-8	-8	-14	-4
1 SV	5	55	-70	47	49	49	34	8	4	20	-9	-56	-77	-69	-32	-11	-10	-16	-1
1 SV	5	55	-60	52	48	43	28	4	0	9	-19	-59	-77	-65	-29	-7	-5	-7	8
1 SV	5	55	-50	53	41	36	21	-1	-5	-13	-36	-56	-59	-43	-27	-10	-1	4	13
1 SV	5	55	-40	42	21	-7	-16	-13	-8	-25	-40	-39	-42	-26	-3	10	11	22	36
1 SV	5	55	-30	17	-11	-25	-22	-20	-13	-33	-34	-25	-19	-7	1	14	19	37	51
1 SV	5	55	-20	15	-7	-14	-29	-26	-16	-44	-44	-16	10	23	11	13	15	34	38
1 SV	5	55	-10	25	4	-19	-35	-20	-12	-33	-34	-15	9	28	10	-2	10	30	22
1 SV	5	55	0	0	1	4	-21	-21	-6	15	6	-16	-8	-2	8	6	0	9	17
1 SV	5	55	10	-24	-1	27	-8	-23	-1	62	45	-17	-26	-31	7	15	-11	-12	11
1 SV	5	55	20	-7	-3	12	1	-10	-10	8	12	-15	-23	-18	3	21	11	3	-4

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 SV	5	65	-50	63	46	33	5	-32	-37	-33	-41	-52	-52	-38	-28	-9	10	23	31
44 65	5	65	-40	47	19	-11	-25	-22	-18	-36	-51	-44	-40	-28	-4	21	33	31	35
44 50	5	65	-30	33	7	-24	-31	-15	-12	-45	-59	-38	-12	-2	-1	20	28	34	36
39 44	5	65	-20	23	3	-8	-31	-30	-10	-38	-43	-20	5	18	5	9	14	31	33
14 25	5	65	-10	49	23	-25	-50	-21	1	-17	-20	-12	-1	15	-4	-13	1	20	21
1 SV	5	65	0	1	-1	2	-22	-10	5	17	10	-17	-17	-9	4	4	-4	5	16
1 SV	4	65	10	-45	-25	29	7	2	10	50	38	-21	-33	-32	12	22	-8	-11	12
11 -17	5	65	20	-21	-9	17	1	1	6	21	19	-12	-14	-32	-15	13	-8	-6	13
1 SV	5	65	30	-8	-5	6	8	17	6	4	7	-13	-11	-18	-25	1	2	7	12
1 SV	5	65	40	-3	-1	14	11	15	-1	-4	9	-6	-20	-20	-11	8	12	8	-2
13 2	5	65	50	1	-3	4	6	3	-6	-5	6	3	-14	-13	-4	-3	-6	5	12
1 SV	5	65	60	-4	2	6	4	-3	-1	9	7	-7	-17	-14	-9	-6	-4	2	18
6 9	5	65	70	10	6	-2	-1	-3	-6	-7	-2	0	-11	-2	-3	-10	-1	7	11
1 SV	5	65	80	10	6	-2	-1	-3	-3	-5	-2	1	-6	1	0	-7	0	5	8
3 3	5	70	-80	23	24	33	18	-17	-35	-9	-5	-28	-45	-42	-18	-2	5	7	18
36 37	5	70	-70	38	35	43	20	-28	-50	-19	-16	-44	-64	-59	-26	-1	11	14	28
1 SV	5	70	-60	49	39	38	13	-33	-50	-27	-28	-49	-64	-56	-25	1	17	22	35
53 57	5	70	-50	65	48	33	0	-42	-47	-37	-38	-47	-48	-38	-29	-10	12	27	36
1 SV	5	70	-40	47	20	-11	-27	-26	-19	-33	-49	-42	-40	-28	-5	20	33	32	33
47 68	5	70	-30	36	9	-22	-33	-17	-5	-38	-57	-40	-14	-5	-3	19	29	31	30
44 51	5	70	-20	29	8	-7	-34	-29	1	-28	-43	-24	3	15	3	8	14	27	25
1 SV	5	70	-10	60	28	-33	-55	-16	15	-4	-16	-14	-3	10	-8	-16	-2	17	14
7 24	5	70	0	3	-4	-2	-22	-3	14	20	10	-20	-20	-11	3	5	-4	2	13
1 SV	5	70	10	-52	-37	30	11	9	13	43	35	-25	-37	-31	15	26	-7	-14	13
-1 24	5	70	20	-22	-15	15	5	7	8	19	17	-14	-16	-33	-16	15	-9	-8	14
8 7	5	70	30	-11	-8	6	11	21	9	4	6	-15	-14	-19	-24	1	2	7	16
1 SV	5	70	40	-11	-8	6	11	21	9	4	6	-15	-14	-19	-24	1	2	7	16
5 3	5	70	50	-11	-8	6	11	21	9	4	6	-15	-14	-19	-24	1	2	7	16

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 SV	5	80	-40	47	18	-11	-29	-32	-15	-27	-45	-42	-36	-26	-5	18	33	30	31
42 SV	51	80	-30	38	15	-20	-37	-19	7	-26	-53	-40	-18	-5	-5	19	29	27	20
29 SV	44	80	-20	35	14	-9	-38	-25	23	-12	-47	-34	-1	15	5	8	14	23	13
5 SV	24	80	-10	78	34	-47	-65	-4	41	12	-18	-24	-3	10	-10	-18	-2	15	2
19 SV	18	80	0	9	-8	-8	-26	5	30	26	8	-28	-26	-11	5	7	-4	-2	7
1 SV	5	80	10	-60	-51	30	15	15	19	39	33	-33	-47	-31	19	34	-7	-18	11
1 SV	5	80	20	-24	-27	9	11	17	12	17	13	-20	-20	-35	-18	17	-11	-12	16
29 SV	21	80	30	-17	-12	6	17	29	15	6	4	-21	-20	-21	-24	1	-2	9	22
1 SV	5	80	40	-11	-10	12	18	22	11	5	8	-12	-27	-28	-19	5	13	12	8
1 SV	5	80	50	0	-6	4	9	5	2	3	3	0	-14	-13	-12	-11	-9	8	21
1 SV	5	80	60	-5	4	12	10	-3	0	12	12	-7	-24	-20	-9	-8	-8	2	22
1 SV	5	80	70	16	13	1	0	-4	1	3	0	1	-13	-5	-7	-15	-2	9	15
1 SV	5	80	80	13	12	1	-1	-5	1	3	2	2	-5	0	-1	-11	0	8	10
1 SV	5	85	-80	17	12	33	18	-29	-53	-18	4	-13	-36	-42	-15	1	5	10	33
54 SV	43	85	-70	32	26	43	20	-43	-77	-31	-4	-23	-55	-59	-23	2	14	20	49
1 SV	5	85	-60	40	30	38	7	-51	-74	-39	-16	-34	-55	-59	-28	1	17	25	50
1 SV	5	85	-50	65	48	27	-9	-54	-56	-37	-32	-35	-42	-44	-32	-10	12	30	42
1 SV	5	85	-40	47	17	-11	-30	-35	-13	-24	-43	-42	-34	-25	-5	17	33	29	30
53 SV	71	85	-30	39	18	-19	-39	-20	13	-20	-51	-40	-20	-5	-6	19	29	25	15
41 SV	51	85	-20	38	17	-10	-40	-23	34	-4	-49	-39	-3	15	6	8	14	21	7
26 SV	44	85	-10	87	37	-54	-70	2	54	20	-19	-29	-3	10	-11	-19	-2	14	-4
1 SV	5	85	0	12	-10	-11	-28	9	38	29	7	-32	-29	-11	6	8	-4	-4	4
1 SV	5	85	10	-64	-58	30	17	18	22	37	32	-37	-52	-31	21	38	-7	-20	10
1 SV	5	85	20	-25	-33	6	14	22	14	16	11	-23	-22	-36	-19	18	-12	-14	17
33 SV	9	85	30	-20	-14	6	20	33	18	7	3	-24	-23	-22	-24	1	-4	10	25
1 SV	5	85	40	-14	-13	11	20	24	15	8	8	-14	-29	-31	-22	4	14	13	11
1 SV	5	85	40	-14	-13	11	20	24	15	8	8	-14	-29	-31	-22	4	14	13	11
1 SV	5	85	40	-14	-13	11	20	24	15	8	8	-14	-29	-31	-22	4	14	13	11

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 SV	-4	-2	35	-10	-2	-17	-11	-13	-10	9	1	-18	-12	12	16	5	11	17	11	4
1 SV	-6	4	35	0	-4	-10	2	-22	-26	10	32	8	-11	1	-5	-4	-4	-1	0	16
1 SV	14	4	35	10	-6	-3	14	-30	-40	10	59	30	-10	-9	-23	-12	-17	-16	-9	27
1 SV	32	4	35	20	-6	-4	9	-12	-14	4	14	4	-9	-12	-19	-5	6	4	1	3
1 SV	17	19	35	30	0	2	5	-4	-1	6	7	7	-2	-15	-23	-16	0	8	10	2
1 SV	3	12	35	40	-2	3	11	8	6	3	-3	-5	-8	-13	-18	-12	3	12	14	0
1 SV	-3	5	35	50	5	-3	3	5	1	0	-5	-9	-5	-9	-15	-9	-2	1	9	11
1 SV	9	13	35	60	6	0	-7	-7	-5	2	5	3	3	-9	-22	-14	-1	5	8	14
1 SV	11	7	35	70	3	-3	-11	-15	-9	1	12	15	5	-8	-20	-17	-1	8	11	11
1 SV	9	8	35	80	5	-5	-12	-37	-35	-6	21	32	0	9	18	-38	-43	-8	34	30
1 SV	21	15	40	-80	0	-36	-57	-7	171	0	0	67	43	-5	-39	-5	6	-20	-29	-36
1 SV	42	-11	40	-70	-17	-3	10	26	49	46	30	24	22	-12	-26	12	28	-22	-65	-56
1 SV	29	-18	40	-60	-15	24	40	37	37	22	5	-12	-16	-27	-22	12	24	-18	-44	-23
1 SV	-1	-23	40	-50	1	15	26	25	21	16	7	-14	-35	-31	-22	0	20	13	-7	-11
1 SV	13	-11	40	-40	4	0	7	0	-3	-1	-13	-25	-33	-25	-7	18	35	32	16	1
1 SV	-8	1	40	-30	-9	-13	-2	-10	-7	6	-19	-34	-25	-7	12	25	36	35	20	-1
1 SV	-7	0	40	-20	-2	-12	-16	-21	-20	-2	-7	-24	-17	12	22	18	29	21	10	9
1 SV	-2	2	40	-10	-1	-17	-18	-24	-17	9	0	-20	-15	10	17	10	20	24	13	5
1 SV	-2	6	40	0	-4	-8	1	-27	-31	10	35	9	-13	0	-3	-3	-3	1	1	16
1 SV	16	4	40	10	-7	-1	17	-30	-43	11	65	33	-11	-8	-20	-15	-22	-19	-10	26
1 SV	31	2	40	20	-7	-5	10	-12	-15	4	16	3	-13	-14	-17	-2	8	6	0	2
1 SV	17	18	40	30	1	1	5	-4	-2	7	9	7	-5	-17	-22	-16	-1	9	12	2
1 SV	4	12	40	40	-3	2	13	12	8	4	-4	-8	-12	-14	-18	-13	2	12	16	2
1 SV	-3	5	40	50	5	-3	4	7	2	0	-5	-11	-8	-10	-15	-9	-2	0	9	12
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DATESET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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PAGE: 578

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12 11	6	40	80	6	-5	-16	-53	-48	-12	27	46	10	11	12	-68	-76	-13	60	53
1 SV	6	45	-80	-5	-58	-86	-7	177	0	-32	48	50	11	-34	-2	14	-11	-13	-20
27 -4	6	45	-70	-20	-10	-4	16	45	29	9	18	25	-16	-24	25	46	-6	-52	-45
1 SV	6	45	-60	-18	19	33	31	31	5	-16	-23	-19	-32	-16	31	42	-4	-32	-14
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1 SV	6	50	0	-3	1	8	-31	-40	9	37	10	-13	1	2	0	4	1	12				
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1 SV	6	50	6	50	20	-11	-3	15	-10	-17	2	17	2	-22	-20	-13	2	13	13	5	2	
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1 SV	6	50	6	50	80	8	10	19	-15	-35	-19	19	44	8	5	-2	-114	-129	-28	74	70	70
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DATASET: CWEJ412.GRAMOD90.DATA
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1 SV	12	19	6	65	-70	59	50	19	-28	-60	-67	-37	-14	-12	-24	-36	11	28	24	25	26
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12 29	6	65	-50	53	50	23	-19	-39	-41	-45	-29	-8	6	-15	-10	3	8	14	17		
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34 -18																		
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18 6																		
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14 1																		
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95 51																		
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13 22																		
1 SV 6	70	-70	60	47	14	-33	-66	-75	-41	-13	-9	-25	-40	7	33	35	34	30
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13 33																		
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6 28																		
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17 -11																		
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46 -13																		
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24 6																		
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14 23																		
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-2 -4																		
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1 SV 6	08	41	80	30	-65	-48	0	14	-5	-15	-6	-4	-17	-22	-11	-4	-8	6	50	86	
1 SV 6	63	-12	80	40	-78	-1	98	85	-7	-48	-4	14	-50	-107	-70	13	36	10	21	68	
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20 32																				
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10 -7																				
1 SV	8	45	-80	124	25	-146	416	201	219	-167	-154	-125	-71	-138	-135	-105	-64	-44	15	
1 SV	8	45	-70	106	103	80	36	0	-54	-106	-109	-33	-10	-53	-55	-27	-24	-11	14	
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1 SV	8	45	-60	110	117	59	8	-25	-49	-89	-107	-60	-19	-4	14	1	-17	-18	0	
1 SV	8	45	-50	67	89	71	29	-7	-28	-41	-47	-48	-32	-17	7	6	-11	-25	-22	
18 59																				
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13 22																				
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0 28																				
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PAGE: 599

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14 30	55	-60	57	90	78	31	-18	-37	-34	-42	-52	-52	-40	3	10	-2	-19	-10
13 33	55	-50	56	80	67	28	-3	-28	-44	-44	-41	-38	-38	-14	6	6	-7	-11
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13 13	55	-20	20	6	-18	-34	-14	8	-4	-10	-4	18	14	-18	0	16	19	13
1 SV 8	55	-10	33	4	-34	-42	-7	18	0	-18	-14	28	28	-20	-9	23	23	-2
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8 10	55	60	8	2	-4	-6	-6	2	7	-1	-9	-14	-21	-20	-8	3	11	18
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PAGE: 601

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1 SV 8	70	-50	44	59	42	-9	-37	-43	-24	3	5	-22	-35	-25	-4	3	3	9		
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1 SV 8	75	-80	15	40	44	3	-39	-52	-16	7	5	-11	-25	-2	11	6	-7	0		
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1 SV 8	75	-60	36	57	49	-7	-56	-62	-18	9	4	-17	-37	-13	8	6	-7	2		
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TIME: 15:23
PAGE: 603

DATASET: CWEJ412.GRAMOD90.DATA
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PAGE: 605

DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

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17 -3																			
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3 -71	9	85	0	-6	93	40	-56	-66	-9	-31	-88	-39	106	157	51	-34	6	85	28	
1 SV 9	85	0	-6	93	40	-56	-66	-9	-31	-88	-39	106	157	51	-34	6	85	28		
95 -123	9	85	10	20	119	36	-74	-59	0	-53	-129	-39	159	197	38	-68	16	116	24	-1
1 SV 9	85	10	20	119	36	-74	-59	0	-53	-129	-39	159	197	38	-68	16	116	24	-1	
48 -153	9	85	20	37	52	0	-56	-52	-19	-28	-60	-31	49	76	16	-35	-7	44	35	-
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1 SV 9	85	30	13	60	54	-18	-72	-54	-14	-9	-19	0	25	8	-31	-26	24	52	-	
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1 SV 9	85	40	6	66	70	-3	-62	-40	4	-1	-32	-25	11	14	-21	-33	5	44	-	
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1 -31	9	85	60	-14	23	30	9	-6	7	26	28	18	-1	-31	-46	-22	15	27	7	-
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1 SV 9	85	70	-1	20	6	-29	-45	-17	32	55	48	19	-8	-7	8	17	2	-26	-	
42 -32	9	85	80	-51	-51	7	15	-10	12	59	34	26	-49	-13	119	10	-142	-138	13	1
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1 SV 9	90	-80	13	6	-15	-28	-41	-93	-80	-6	15	10	26	45	40	34	10	16	-	
29 19	9	90	-70	21	10	-20	-42	-66	-126	-104	-6	23	17	41	64	59	52	18	32	-
1 SV 9	90	-70	21	10	-20	-42	-66	-126	-104	-6	23	17	41	64	59	52	18	32	-	
45 34	9	90	-60	16	2	-26	-51	-77	-124	-95	-13	15	17	39	57	59	50	19	24	-
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1 SV 9	90	-40	3	1	-14	-63	-78	-51	-22	-2	0	15	21	23	45	44	14	5	-	
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1 SV 9	90	-30	-11	-4	-5	-64	-68	8	24	1	-18	17	20	-2	21	21	20	19	-	
13 14	9	90	-20	-10	-13	2	-26	-44	44	50	-20	-22	10	6	-10	6	0	7	12	-
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11 -102	9	90	0	-15	121	53	-59	-71	-14	-58	-122	-44	136	202	71	-39	8	111	33	-1
1 SV 9	90	0	-15	121	53	-59	-71	-14	-58	-122	-44	136	202	71	-39	8	111	33	-1	
27 -163	9	90	10	26	147	31	-90	-58	12	-83	-182	-41	218	268	50	-93	21	157	22	-2
1 SV 9	90	10	26	147	31	-90	-58	12	-83	-182	-41	218	268	50	-93	21	157	22	-2	
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1 SV 9	90	20	51	65	-11	-61	-51	-23	-48	-83	-35	69	109	22	-50	-5	60	34	-	
25 -16	9	90	30	17	78	72	-15	-88	-72	-27	-14	-21	5	40	16	-40	-32	30	57	-
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1 SV 9	90	40	3	84	92	-1	-80	-47	4	-7	-40	-26	19	18	-32	-42	10	59	-	
22 -36	9	90	50	-3	64	51	-34	-75	-11	58	54	13	-10	-19	-35	-50	-27	20	45	-
1 SV 9	90	50	-3	64	51	-34	-75	-11	58	54	13	-10	-19	-35	-50	-27	20	45	-	
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1 SV 9	90	70	-12	14	5	-34	-54	-21	41	73	61	21	-11	-8	11	21	7	-24	-	
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11 -2	25	10	-5	12	33	-29	-65	-26	68	55	-1	-4	-35	-13	11	-2	-25	6
1 SV 10	25	20	-4	5	32	-23	-36	-1	51	24	-13	-5	-38	-10	17	-3	-4	-2
1 SV 10	25	30	-10	-3	2	-7	-2	9	9	8	1	-13	-7	2	6	2	1	1
1 SV 10	25	40	-11	-9	-8	0	5	7	8	8	-3	-18	-12	2	9	2	5	14
1 SV 10	25	50	-8	-13	-14	-17	-13	-2	7	6	-5	-18	-23	-12	-2	-1	16	37
1 SV 10	25	60	7	-23	-35	-44	-36	-13	10	8	-4	-15	-30	-31	-18	-1	31	64
1 SV 10	25	70	24	-18	-30	-34	-26	-8	9	3	-15	-36	-56	-49	-23	5	38	71
1 SV 10	25	80	32	17	18	-2	-20	-15	-7	-7	-25	-49	-59	-51	-18	-13	18	54
1 SV 10	30	-80	81	54	54	14	0	10	7	26	46	7	-29	-56	-77	-73	-80	-58
1 SV 10	30	-70	28	67	53	52	37	26	-2	8	30	41	19	-11	-83	-124	-67	-66
1 SV 10	30	-60	46	85	91	78	46	2	-34	-36	-28	-19	-19	-26	-61	-78	-46	-35
1 SV 10	30	-50	64	103	129	104	54	-22	-65	-79	-86	-79	-57	-40	-38	-32	-24	-4
1 SV 10	30	-40	31	55	56	27	5	-15	-41	-44	-34	-22	-16	-16	-22	-14	5	11
1 SV 10	30	-30	10	20	13	-1	0	4	-19	-29	-12	8	1	-18	-14	2	17	12
1 SV 10	30	-20	-1	-9	-10	2	19	25	-3	-30	-20	23	18	-21	-12	5	17	15
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1 SV 10	30	10	-7	12	31	-20	-56	-28	64	49	-6	-6	-22	-13	1	0	-9	6
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1 SV 10	30	30	-8	-5	5	-3	-2	9	11	12	-1	-16	-11	-3	5	0	0	0
1 SV 10	30	40	-13	-16	-12	-9	1	8	11	11	-8	-27	-16	5	18	11	10	9
1 SV 10	30	50	-17	-32	-35	-31	-17	0	10	8	-8	-26	-25	-4	16	22	38	44
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1 SV 10	30	70	11	-47	-61	-60	-45	-22	-2	-7	-22	-43	-62	-44	-2	39	82	111
1 SV 10	30	80	23	18	-14	-20	-39	-44	-32	-25	-44	-62	-62	-34	2	23	63	89
1 SV 10	30	93																

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4 77	35	-70	67	101	96	85	59	49	15	8	5	-2	-22	-55	-88	-110	-98	-70
1 SV 10	35	-60	51	95	127	105	49	11	-4	-10	-3	-20	-35	-41	-63	-86	-54	-52
60 -11	35	-50	54	87	108	82	27	-16	-41	-44	-46	-54	-53	-35	-35	-38	-19	-11
1 SV 10	35	-40	23	40	49	27	-1	-17	-32	-27	-19	-24	-23	-13	-14	-10	5	9
11 15	35	-30	3	8	10	-1	-6	-2	-10	-12	-12	-11	2	-5	-6	8	19	13
1 SV 10	35	-20	-6	-9	-12	0	18	30	9	-23	-21	9	12	-15	-6	7	14	13
1 SV 10	35	-10	-13	-21	-14	10	26	34	26	-21	-41	-1	21	-2	-5	5	-1	2
3 -9	35	0	-10	-11	0	-2	-9	-1	26	5	-17	0	5	-3	0	2	-4	4
1 SV 10	35	10	-7	-4	11	-10	-34	-26	26	25	0	1	-7	-3	4	0	-7	5
1 SV 10	35	20	-6	-7	6	-8	-14	-2	14	11	-7	-12	-9	0	5	1	-1	2
11 15	35	30	-5	-5	2	-5	-3	10	13	12	-2	-12	-7	-1	5	0	-4	-5
1 SV 10	35	40	-19	-22	-16	-12	3	15	17	13	-6	-19	-9	8	22	18	10	0
1 SV 10	35	50	-25	-45	-52	-49	-25	4	18	16	0	-14	-12	9	31	39	40	32
25 8	35	60	-44	-93	-111	-93	-62	-12	17	16	6	-1	-10	6	37	67	91	92
1 SV 10	35	70	-30	-84	-111	-104	-77	-29	-2	0	-4	-17	-30	-5	42	85	116	120
71 22	35	80	11	-57	-41	-9	-57	-103	-104	-38	73	-7	-86	29	60	57	39	73
1 SV 10	40	-80	104	49	59	19	0	-65	178	44	17	-45	-53	-85	-110	-102	-89	-40
1 SV 10	40	-70	62	91	85	75	52	44	8	-2	-9	-17	-31	-49	-71	-88	-79	-54
26 91	40	-60	54	88	116	94	42	3	-13	-21	-19	-35	-39	-31	-42	-64	-37	-40
33 14	40	-50	58	86	102	71	13	-32	-52	-52	-52	-56	-49	-28	-25	-27	-9	0
1 SV 10	40	-40	23	37	44	16	-13	-26	-37	-32	-21	-21	-18	-7	-8	-3	12	16
1 SV 10	40	-30	2	4	4	-10	-11	-4	-12	-13	-10	-7	6	-2	-2	10	23	16
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-4 -15	40	0	-13	-14	1	2	-6	-1	26	8	-16	-1	3	-4	0	-1	-10	3
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6 -7	40	0	-13	-14	1	2	-6	-1	26	8	-16	-1	3	-4	0	-1	-10	3
1 SV 10	40	0	-13	-14	1	2	-6	-1	26	8	-16	-1	3	-4	0	-1	-10	3
16	40	0	-13	-14	1	2	-6	-1	26	8	-16	-1	3	-4	0	-1	-10	3

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1 SV 10	40	30	-7	-7	2	-3	0	15	19	16	-1	-13	-5	1	3	-7	-12	-11
15 19	40	30	-7	-7	2	-3	0	15	19	16	-1	-13	-5	1	3	-7	-12	-11
1 SV 10	40	40	-30	-32	-20	-10	8	23	26	21	1	-11	1	16	24	14	1	-11
0 9	40	40	-30	-32	-20	-10	8	23	26	21	1	-11	1	16	24	14	1	-11
1 SV 10	40	50	-41	-64	-67	-57	-27	7	28	29	14	3	9	28	45	44	33	16
11 -11	40	50	-41	-64	-67	-57	-27	7	28	29	14	3	9	28	45	44	33	16
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8 -8	40	60	-79	-131	-141	-109	-65	-9	25	27	22	26	25	42	69	87	93	78
1 SV 10	40	70	-74	-127	-146	-130	-93	-36	-4	5	10	11	14	45	90	121	131	114
47 -8	40	70	-74	-127	-146	-130	-93	-36	-4	5	10	11	14	45	90	121	131	114
1 SV 10	40	80	-27	-107	-71	-12	-70	-137	-131	-43	90	28	-38	86	120	97	42	61
68 1	40	80	-27	-107	-71	-12	-70	-137	-131	-43	90	28	-38	86	120	97	42	61
1 SV 10	45	-80	116	48	50	-29	0	-138	131	42	14	-42	-42	-75	-93	-74	-57	-10
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1 SV 10	45	-60	49	73	94	72	28	-10	-23	-29	-30	-43	-34	-14	-15	-36	-16	-25
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1 SV 10	45	-50	52	72	84	52	-2	-44	-54	-51	-51	-52	-41	-16	-9	-12	4	10
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21 37	45	-40	22	29	29	0	-23	-30	-38	-32	-20	-18	-12	1	3	6	19	21
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22 16	45	20	-6	-5	16	0	-13	-1	19	12	-19	-27	-10	7	6	-7	-10	-1
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1 SV 10	45	70	-120	-164	-171	-144	-98	-36	2	17	32	48	63	94	128	142	131	94
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1 SV 10	50	-80	123	36	22	-83	0	-221	70	51	20	-26	-17	-55	-69	-41	-23	22
36 -2	50	-80	123	36	22	-83	0	-221	70	51	20	-26	-17	-55	-69	-41	-23	22
1 SV 10	67	125																

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TIME: 15:23
PAGE: 619

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 SV 10	55	20	-4	0	26	6	-15	-3	22	15	-28	-40	-13	11	6	-10	-15	-3
1 SV 25	55	30	-13	-8	9	6	8	27	35	25	-10	-24	-1	10	0	-20	-27	-20
1 SV 6	55	40	-44	-38	-15	0	17	31	42	38	10	-5	14	29	23	-4	-23	-31
1 SV 21	55	50	-79	-78	-44	-29	-8	19	49	58	39	28	32	48	48	28	1	-23
1 SV 10	55	60	-139	-148	-140	-104	-52	18	71	78	80	92	94	89	85	69	44	2
1 SV 10	55	70	-131	-127	-114	-90	-50	2	33	39	67	90	107	121	106	80	40	-12
1 SV 10	55	80	-117	-161	-129	-44	-3	-39	-71	-18	290	176	-3	169	126	58	-25	-74
1 SV 10	60	-80	26	33	37	-1	-49	-71	-37	-12	-19	-33	-28	11	16	6	12	27
1 SV 43	60	-70	36	44	47	-6	-67	-95	-53	-20	-26	-42	-37	15	23	11	20	40
1 SV 58	60	-60	33	39	38	-12	-63	-85	-52	-23	-24	-35	-31	13	21	13	25	41
1 SV 10	60	-50	22	26	32	5	-32	-54	-41	-29	-25	-24	-16	4	10	10	21	26
1 SV 31	60	-40	10	6	-22	-50	-35	-11	-16	-16	2	8	5	10	12	16	26	25
1 SV 10	60	-30	-13	-17	-33	-36	-5	21	5	-5	10	17	15	-2	1	10	25	18
1 SV 10	60	-20	-16	-18	-20	-5	28	50	16	-15	-1	24	24	-14	-8	6	8	-4
1 SV 10	60	-10	-9	-14	-17	-1	19	45	43	5	-7	8	27	0	-13	-4	-12	-29
1 SV 10	60	0	-2	7	15	-4	-21	-4	33	17	-16	-22	-8	2	3	-4	-14	-6
1 SV 10	60	10	4	22	39	-6	-49	-38	25	26	-23	-44	-33	4	14	-3	-15	11
1 SV 28	60	20	1	17	39	0	-26	-12	28	17	-31	-40	-25	7	9	-18	-20	8
1 SV 10	60	30	-6	9	17	4	2	28	42	11	-28	-26	-5	4	2	-11	-17	-14
1 SV 10	60	40	-35	-19	-8	0	19	35	50	36	-4	-12	11	24	24	8	-18	-40
1 SV 10	60	50	-69	-60	-48	-37	-6	31	63	71	49	38	45	46	38	16	-10	-41
1 SV 10	60	60	-122	-136	-125	-86	-35	32	85	88	81	92	88	78	66	47	21	-18
1 SV 10	60	70	-113	-104	-91	-71	-34	16	49	53	73	84	90	99	82	56	17	-30
1 SV 10	60	80	-121	-169	-126	-14	47	5	-53	-21	284	166	-29	126	86	41	-20	-66
1 SV 10	65	-80	16	18	23	-4	-45	-68	-30	-1	-9	-26	-25	16	22	9	10	23
1 SV 10	65	-70	20	23	28	-9	-61	-89	-41	-3	-11	-31	-30	22	30	14	17	33
1 SV 45																		

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT19

START COL	1	2	3	4	5	6	7	8	9	0									
1 SV 10	85	40	-27	6	38	16	-16	-10	14	19	-6	-31	-29	-10	3	2	4	18	
19 -10	85	50	22	-6	-47	-71	-44	14	53	56	35	4	-22	-23	3	21	3	-14	
1 SV 10	85	60	0	-26	-59	-81	-63	4	64	70	41	10	-7	-2	17	19	-1	-4	
-3 19	85	70	10	-12	-58	-92	-65	20	83	75	42	-7	-38	-34	-23	1	23	31	
1 SV 10	85	80	-69	32	180	155	-59	-229	-165	24	305	76	-136	83	48	-56	-109	-54	
1 SV 10	90	-80	12	-16	-33	-17	-13	-36	7	26	15	21	2	19	37	23	-13	-27	
5 -32	90	8	10	8	10	8	10	8	10	8	10	8	10	8	10	8	10	8	
1 SV 10	90	-70	11	-22	-40	-24	-15	-43	15	34	22	22	1	30	50	32	-20	-32	
1 SV 10	90	-60	2	-21	-34	-26	-15	-30	14	30	15	18	3	28	47	29	-11	-26	
1 SV 10	90	-50	-1	-8	-13	-20	-15	-12	21	24	10	-8	-2	21	9	10	13	-10	
1 SV 10	90	-40	-39	-14	-7	-29	-11	22	9	-10	-2	7	5	18	30	17	-2	15	
1 SV 10	90	-30	-44	-8	6	-6	13	36	4	-19	-11	-5	15	7	3	1	25	19	
1 SV 10	90	-20	-51	-1	50	18	9	48	1	-23	-18	-30	-5	-5	-20	-14	27	32	
15 -29	90	-10	-72	18	117	99	-54	-97	-23	-2	-50	-132	-34	95	86	15	21	46	
1 SV 10	90	0	-68	-16	25	27	-38	-98	-128	-89	28	99	97	37	-8	36	101	70	
1 SV 10	90	10	-64	-30	-19	-4	-24	-89	-169	-127	65	207	167	11	-52	47	142	82	
1 SV 10	90	20	6	51	44	-22	-87	-83	-65	-60	-37	11	73	79	36	19	29	26	
25 -83	90	30	45	87	62	62	-36	-109	-93	-50	-33	-25	6	49	45	-5	-24	3	31
1 SV 10	90	40	-25	14	49	13	-35	-25	2	12	-2	-29	-39	-21	-7	3	17	41	
1 SV 10	90	50	51	13	-48	-90	-66	4	50	53	36	-1	-40	-44	-8	25	9	-5	
15 45	90	60	37	12	-37	-84	-75	-8	51	59	27	-12	-30	-20	7	15	-8	-2	
1 SV 10	90	70	33	4	-56	-101	-74	18	88	77	36	-24	-61	-58	-41	-6	29	47	
1 SV 10	90	80	-57	86	256	186	-101	-296	-192	39	313	60	-149	88	48	-79	-134	-55	
1 SV 10	20	-80	-4	10	22	25	24	18	6	-9	-10	-7	-6	3	-3	-16	-23	-16	
17 -30	20	-70	-7	14	31	37	37	27	7	-17	-17	-10	-8	4	-7	-24	-32	-23	
-2 -5	20	-60	-7	12	30	38	40	28	4	-20	-18	-7	-4	2	-9	-22	-27	-20	
1 SV 11	20	-50	-6	7	26	43	46	31	1	-25	-21	-3	2	-4	-18	-22	-24	-21	
1 SV 11	20	-40	-7	12	30	38	40	28	4	-20	-18	-7	-4	2	-9	-22	-27	-20	
-4 -8	20	-30	-6	7	26	43	46	31	1	-25	-21	-3	2	-4	-18	-22	-24	-21	
1 SV 11	20	-20	-5	12	30	38	40	28	4	-20	-18	-7	-4	2	-9	-22	-27	-20	
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1 SV 11	20	0	-3	7	26	43	46	31	1	-25	-21	-3	2	-4	-18	-22	-24	-21	
-8 -6	20	10	-2	7	26	43	46	31	1	-25	-21	-3	2	-4	-18	-22	-24	-21	

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DATASET: CWFJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0											
1 SV 11	40	60	10	-62	-115	-166	-203	-196	-134	-104	-83	-41	5	64	119	163	204	222	1		
99 119	40	70	64	-48	-137	-205	-247	-238	-188	-158	-124	-85	-37	52	146	218	264	277	2		
1 SV 11	57	191	40	80	182	162	80	-137	-387	-357	-276	-182	-81	-114	-116	20	121	215	253	254	2
1 SV 11	13	149	45	-80	14	-14	-9	278	0	-11	65	62	33	8	-44	-46	-58	-83	-74	-68	-
49 -5	1 SV 11	45	-70	10	39	57	53	14	25	44	8	-11	3	11	2	-43	-70	-47	-34	-	
43 -20	1 SV 11	45	-60	26	31	32	31	-7	-6	1	-18	-14	14	31	20	-21	-46	-27	-18	-	
29 1	1 SV 11	45	-50	15	14	14	12	-4	-15	-20	-11	-10	-2	6	9	3	-10	-10	-3	-3	
1 11	1 SV 11	45	-40	-1	3	9	1	-6	-8	-16	0	1	-8	0	-3	-5	0	8	13	13	
8 2	1 SV 11	45	-30	-7	-2	7	-4	-17	-5	2	8	-10	-14	9	2	-9	5	21	21	21	
1 SV 11	45	-20	1	-5	-5	-6	2	13	-8	-18	-16	4	13	-12	-5	10	19	11	11	11	
3 -10	1 SV 11	45	-10	-1	-9	-12	-10	6	8	-10	-15	-15	11	20	-13	-10	9	11	8	8	
1 2	1 SV 11	45	0	-13	0	14	9	-3	4	24	23	2	2	0	-16	-14	-7	-4	-6	-6	
14 9	1 SV 11	45	10	-23	6	35	25	-9	1	51	53	16	-5	-16	-19	-16	-20	-16	-17	-	
-7 -9	1 SV 11	45	20	-6	-2	13	9	11	31	49	40	7	-15	-11	-7	-21	-30	-29	-30	-	
23 -25	1 SV 11	45	30	-5	-11	-20	-19	9	38	52	51	27	2	4	2	-9	-20	-25	-40	-	
1 SV 11	45	40	-34	-42	-54	-56	-39	-8	26	41	22	5	29	42	37	31	23	6	6	6	
-9 -18	1 SV 11	45	50	-32	-68	-105	-124	-121	-97	-53	-27	-15	8	47	82	106	114	114	101	101	
1 SV 11	61	9	45	60	-14	-90	-147	-198	-227	-211	-137	-98	-67	-15	39	105	164	202	221	210	1
1 SV 11	72	94	45	70	20	-95	-183	-244	-274	-255	-193	-154	-106	-54	7	109	211	279	292	267	2
1 SV 11	23	150	45	80	141	116	24	-184	-404	-361	-279	-177	-64	-75	-53	99	174	253	262	244	1
1 SV 11	84	99	50	-80	12	-21	-31	270	0	-73	47	69	44	20	-32	-29	-38	-68	-58	-60	-
1 SV 11	45	-6	50	-70	-1	23	38	34	-3	14	39	10	-6	9	25	21	-21	-52	-36	-29	-
1 SV 11	42	-25	50	-60	18	18	16	17	-17	-12	0	-15	-11	18	41	34	-6	-34	-20	-15	-
29 -4	1 SV 11	50	-50	10	6	4	2	-9	-16	-16	-5	-7	0	10	15	10	-4	-6	-1	-1	-
1 SV 11	1	7	50	-40	-3	0	4	-2	-7	-6	-12	3	1	-8	1	-1	-3	2	10	14	14
1 SV 11	7	0	50	-30	-7	-2	7	-4	-17	-5	2	8	-10	-15	9	2	-9	7	22	21	21
1 SV 11	1	-10																			

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0											
1 SV 11	55	70	-3	-131	-226	-267	-272	-255	-216	-176	-131	-72	31	187	315	346	297	246	2		
05 122	1 SV 11	55	80	70	30	-63	-185	-265	-273	-234	-166	44	19	-29	130	159	196	203	164	1	
14 85	1 SV 11	60	-80	5	14	24	23	-10	6	34	1	-5	18	24	24	-7	-36	-31	-26	-	
34 -17	1 SV 11	60	-70	-2	26	51	51	-14	26	83	8	-11	36	41	16	-33	-69	-49	-36	-	
70 -54	1 SV 11	60	-60	38	28	20	10	-25	6	14	-30	-14	41	59	50	-14	-46	-35	-46	-	
56 -2	1 SV 11	60	-50	3	-5	-8	-5	-8	-10	-2	1	-6	2	10	15	10	-4	-9	-2	-	
9 10	1 SV 11	60	-40	-5	-9	-5	-3	-2	1	-4	-2	-8	-8	4	0	-3	2	10	14	-	
12 4	1 SV 11	60	-30	2	-5	-4	-3	-1	5	-3	-7	-14	-2	12	-10	-13	10	23	14	-	
-2 -2	1 SV 11	60	-20	13	6	-12	-24	-9	8	-12	-14	-4	13	14	-21	-12	16	27	8	-	
-3 7	1 SV 11	60	-10	17	12	-18	-36	-18	-3	-13	-4	5	18	26	-16	-17	16	14	0	-	
7 11	1 SV 11	60	0	-8	10	16	-2	-15	0	27	30	5	-4	0	-10	-7	1	-4	-16	-	
14 -10	1 SV 11	60	10	-28	8	42	26	-12	3	60	58	5	-22	-20	-5	2	-11	-19	-28	-	
30 -27	1 SV 11	60	20	-12	6	25	5	-5	36	78	53	-2	-31	-30	-9	-5	-23	-35	-31	-	
13 -6	1 SV 11	60	30	6	-3	-25	-32	1	56	86	61	17	-8	-11	-12	-15	-21	-28	-40	-	
30 -2	1 SV 11	60	40	-32	-44	-55	-62	-42	7	62	76	38	0	13	26	19	18	7	-10	-	
-8 -14	1 SV 11	60	50	-51	-80	-121	-146	-140	-98	-28	22	31	37	66	103	120	105	91	74	-	
33 -18	1 SV 11	60	60	-70	-138	-185	-223	-225	-186	-101	-36	-3	38	82	146	200	213	194	160	1	
11 23	1 SV 11	60	70	-51	-159	-225	-235	-216	-185	-146	-120	-94	-48	49	193	299	304	240	184	1	
44 65	1 SV 11	60	80	17	-7	-77	-161	-193	-178	-149	-104	86	40	-36	100	126	169	178	121	-	
51 19	1 SV 11	65	-80	-1	13	26	25	-9	8	37	6	-3	18	24	25	-8	-37	-32	-27	-	
40 -25	1 SV 11	65	-70	-12	23	53	54	-11	33	91	18	-6	36	39	14	-35	-69	-47	-36	-	
78 -68	1 SV 11	65	-60	33	33	27	11	-23	10	20	-26	-11	40	60	53	-14	-46	-35	-49	-	
67 -13	1 SV 11	65	-50	0	-5	-7	-2	-7	1	3	-7	1	11	16	8	-7	-11	-4	-	-	
7 8	1 SV 11	65	-40	-7	-7	1	1	-1	2	-3	-4	-9	-10	4	1	-5	0	12	17	-	
10 0	1 SV 11	65	-30	0	-2	-3	-4	-1	8	-2	-12	-15	-3	11	-11	-17	7	28	20	-	
0 -5	1 SV 11	65	-20	12	10	-9	-28	-9	13	-10	-17	-9	9	13	-22	-14	16	32	12	-	
-5 3	1 SV 11	65	-5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 SV	11	70	80	-67	-26	-39	-95	-113	-77	-17	37	184	50	-114	-19	29	129	169	91	-	
31 -91																					
1 SV	11	75	-80	-8	13	32	29	-9	5	36	13	5	21	25	22	-10	-36	-30	-28	-	
46 -34																					
1 SV	11	75	-70	-22	7	48	58	-3	36	89	21	5	43	40	12	-29	-64	-47	-41	-	
83 -69																					
1 SV	11	75	-60	17	54	61	20	-34	3	32	-6	0	35	51	42	-18	-44	-27	-48	-	
89 -47																					
1 SV	11	75	-50	1	1	2	2	-10	-7	6	9	-6	-3	9	15	2	-13	-17	-5	-	
6 6																					
1 SV	11	75	-40	-12	-3	12	8	0	-1	-7	-5	-11	-15	-2	0	-4	-4	11	22	-	
13 -3																					
1 SV	11	75	-30	-10	4	10	0	-6	7	1	-15	-21	-7	5	-9	-15	3	34	33	-	
2 -16																					
1 SV	11	75	-20	7	11	1	-23	-12	18	-4	-20	-15	0	2	-24	-10	17	38	20	-	
-4 -1																					
1 SV	11	75	-10	2	2	-12	-38	-42	-1	5	-20	-8	23	36	-16	-19	28	40	16	-	
3 1																					
1 SV	11	75	0	-44	-7	17	-3	-26	-19	5	11	1	13	24	-2	-14	10	41	26	-	
-2 -32																					
1 SV	11	75	10	-81	-14	41	26	-14	-32	5	36	8	4	14	10	-9	-5	42	34	-	
-6 -59																					
1 SV	11	75	20	-15	8	17	-6	-12	18	40	11	-23	-25	-24	-18	-14	1	21	15	-	
10 -4																					
1 SV	11	75	30	1	-3	-18	-24	6	47	58	30	-8	-21	-17	-22	-28	-15	3	-1	-	
2 9																					
1 SV	11	75	40	-45	-54	-47	-27	7	44	68	55	10	-25	-8	2	-1	13	16	4	-	
3 -15																					
1 SV	11	75	50	-53	-68	-94	-102	-80	-40	12	41	29	20	37	63	74	63	58	50	-	
16 -28																					
1 SV	11	75	60	-82	-101	-122	-160	-160	-104	-18	25	22	38	72	117	123	105	103	99	-	
61 -18																					
1 SV	11	75	70	-83	-123	-113	-91	-79	-59	-25	-20	-38	-32	33	127	158	112	65	75	-	
81 11																					
1 SV	11	75	80	-68	-2	0	-59	-89	-58	9	71	212	53	-148	-86	-40	92	165	95	-	
39 -106																					
1 SV	11	80	-80	-11	3	28	28	-5	0	16	1	21	51	34	9	-20	-40	-26	-21	-	
45 -31																					
1 SV	11	80	-70	-10	-10	28	50	0	31	73	11	8	49	44	16	-17	-57	-53	-48	-	
71 -43																					
1 SV	11	80	-60	5	60	78	23	-45	-9	32	7	12	37	45	28	-22	-42	-19	-37	-	
89 -61																					
1 SV	11	80	-50	2	2	15	18	-1	-8	1	27	-6	-6	15	28	15	-31	-45	-17	-	
11 2																					
1 SV	11	80	-40	-32	-17	51	56	7	-45	-47	12	-20	-68	-26	18	30	2	-18	26	-	
51 18																					
1 SV	11	80	-30	-31	16	53	6	-55	-39	24	43	-52	-90	3	46	30	17	17	46	-	
10 -45																					
1 SV	11	80	-20	23	24	3	-14	-13	15	18	-9	-67	-80	-10	11	22	39	33	3	-	
1 1																					
1 SV	11	80	-10	-29	1	16	6	-12	-13	-24	-33	-33	-4	35	2	-17	23	66	48	-	
4 -38																					

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PAGE: 633

DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10									
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1 SV 11	90	-70	9	-40	-6	37	6	23	48	-6	14	61	50	24	4	-46	-64	-62	-
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1	RP	2	110	158	158	158	-1	158	158	158	158	158	158	158	158	158	158	158	158	15
8	158	158	158	158	-1	158	158	158	158	158	158	158	158	158	158	158	158	158	158	15
1	RP	2	115	170	170	170	-1	170	170	170	170	170	170	170	170	170	170	170	170	17
0	170	170	170	170	-1	170	170	170	170	170	170	170	170	170	170	170	170	170	170	17
1	RP	2	120	183	183	183	-1	183	183	183	183	183	183	183	183	183	183	183	183	18
3	183	183	183	183	-1	183	183	183	183	183	183	183	183	183	183	183	183	183	183	18
1	RP	2	140	125	125	125	-1	125	125	125	125	125	125	125	125	125	125	125	125	12
5	125	125	125	125	-1	125	125	125	125	125	125	125	125	125	125	125	125	125	125	12
1	RP	2	160	90	90	90	-1	90	90	90	90	90	90	90	90	90	90	90	90	9
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1	RP	2	180	71	71	71	-1	71	71	71	71	71	71	71	71	71	71	71	71	7
1	71	71	71	71	-1	71	71	71	71	71	71	71	71	71	71	71	71	71	71	7
1	RP	2	200	61	61	61	-1	61	61	61	61	61	61	61	61	61	61	61	61	6
1	61	61	61	61	-1	61	61	61	61	61	61	61	61	61	61	61	61	61	61	6
1	RP	3	20	149	149	131	-1	119	16	12	10	11	13	13	13	13	12	12	15	2
1	3	35	49	62	67	-1	60	15	10	10	10	16	23	24	21	19	16	20	2	2
1	RP	3	25	92	89	75	-1	65	21	14	14	19	24	25	24	22	22	26	3	3
8	47	67	80	85	-1	65	21	14	14	14	19	24	25	24	22	22	26	3	3	3
1	RP	3	30	96	93	79	-1	43	35	29	27	28	30	31	30	29	30	37	4	4
7	57	78	90	95	-1	43	35	29	27	28	30	31	30	29	30	29	30	37	4	4
1	RP	3	35	63	60	52	-1	55	46	39	35	33	33	37	37	36	37	46	6	6
9	69	87	101	107	-1	55	46	39	35	33	33	33	37	37	36	37	46	6	6	6
1	RP	3	40	74	71	64	-1	67	56	45	38	35	38	43	45	43	45	53	6	6
1	83	103	118	124	-1	67	56	45	38	35	38	35	38	43	45	43	45	53	6	6
1	RP	3	45	88	84	76	-1	77	63	49	41	38	41	49	57	56	60	69	8	8
8	94	116	131	137	-1	77	63	49	41	38	41	38	41	49	57	56	60	69	8	8
1	RP	3	50	105	100	90	-1	78	71	55	45	42	44	52	58	61	67	76	8	8
1	106	124	136	141	-1	78	71	55	45	42	44	52	58	61	67	76	8	8	8	8
1	RP	3	55	103	99	88	-1	86	80	63	51	44	47	55	59	60	65	73	8	8
9	114	122	128	132	-1	86	80	63	51	44	47	55	59	60	65	73	8	8	8	8
1	RP	3	60	109	106	98	-1	87	86	70	58	45	44	42	42	48	58	75	9	9
7	112	123	131	135	-1	87	86	70	58	45	44	42	42	48	58	75	9	9	9	9
1	RP	3	65	93	93	91	-1	71	77	64	60	52	40	42	44	47	52	67	8	8
5	115	123	130	134	-1	71	77	64	60	52	40	42	44	47	52	67	8	8	8	8
1	RP	3	70	82	81	76	-1	67	81	70	67	60	50	55	63	62	62	75	8	8
7	108	111	121	127	-1	67	81	70	67	60	50	55	63	62	62	75	8	8	8	8
1	RP	3	75	75	74	70	-1	62	57	55	53	49	44	62	68	63	64	72	7	7
8	106	102	115	122	-1	62	57	55	53	49	44	62	68	63	64	72	7	7	7	7
1	RP	3	80	60	61	62	-1	59	59	63	63	62	57	81	89	84	83	86	7	7
6	80	85	97	102	-1	59	59	63	63	62	57	81	89	84	83	86	7	7	7	7
1	RP	3	85	44	48	54	-1	62	68	73	79	78	77	125	172	167	162	132	10	10
9	72	69	78	80	-1	62	68	73	79	78	77	125	172	167	162	132	10	10	10	10
1	RP	3	90	52	54	56	-1	97	100	103	106	105	105	128	152	150	147	132	11	11
2	73	45	34	23	-1	97	100	103	106	105	105	105	128	152	150	147	132	11	11	11
1	RP	3	95	92	93	94	-1	78	83	88	83	78	-1							
7	103	88	83	78	-1	78	83	88	83	78	-1									

START
 COL

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1	RP	3	100	132	132	132	132	132	132	132	132	132	13
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3	RP	3	105	145	145	145	145	145	145	145	145	145	14
5	RP	3	145	145	145	145	145	145	145	145	145	145	14
1	RP	3	110	158	158	158	158	158	158	158	158	158	15
8	RP	3	158	158	158	158	158	158	158	158	158	158	15
1	RP	3	115	170	170	170	170	170	170	170	170	170	17
0	RP	3	170	170	170	170	170	170	170	170	170	170	17
1	RP	3	120	183	183	183	183	183	183	183	183	183	18
3	RP	3	183	183	183	183	183	183	183	183	183	183	18
1	RP	3	140	125	125	125	125	125	125	125	125	125	12
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1	RP	3	160	90	90	90	90	90	90	90	90	90	9
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1	RP	3	180	71	71	71	71	71	71	71	71	71	7
1	RP	3	71	71	71	71	71	71	71	71	71	71	7
1	RP	3	200	61	61	61	61	61	61	61	61	61	6
1	RP	3	61	61	61	61	61	61	61	61	61	61	6
1	RP	4	20	186	186	166	136	16	12	9	10	10	14
8	RP	4	23	24	24	24	24	26	22	22	21	20	17
1	RP	4	25	95	94	84	69	26	22	22	21	20	17
0	RP	4	26	29	31	32	40	35	28	23	20	18	17
1	RP	4	30	60	56	44	40	35	28	23	20	18	17
6	RP	4	34	39	42	44	54	47	38	30	25	21	24
1	RP	4	35	73	70	63	54	47	38	30	25	21	24
5	RP	4	44	51	56	58	68	59	47	37	31	26	28
1	RP	4	40	89	85	78	68	59	47	37	31	26	28
5	RP	4	55	63	69	73	83	75	61	49	38	28	31
1	RP	4	45	101	98	93	83	75	61	49	38	28	31
4	RP	4	67	76	84	87	98	87	72	59	45	32	34
1	RP	4	50	117	114	108	98	87	72	59	45	32	34
5	RP	4	79	88	97	101	106	103	87	73	56	39	38
1	RP	4	55	115	113	111	106	103	87	73	56	39	38
4	RP	4	88	92	99	103	107	107	95	83	63	45	43
1	RP	4	60	123	120	117	107	107	95	83	63	45	43
1	RP	4	95	97	100	102	85	94	84	72	56	42	45
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4	RP	4	86	80	85	88	54	83	78	67	54	46	64
1	RP	4	75	58	58	56	54	83	78	67	54	46	64
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1	RP	4	80	57	58	56	53	56	56	58	53	46	68
5	RP	4	70	73	73	74	54	55	56	63	59	58	84
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3	RP	4	68	65	59	57	67	69	74	79	88	98	136
1	RP	4	90	62	63	64	67	69	74	79	88	98	136
1	RP	4	80	48	35	22	99	101	103	106	110	115	134
1	RP	4	95	97	98	98	99	101	103	106	110	115	134
2	RP	4	106	90	83	77	132	132	132	132	132	132	153
1	RP	4	100	132	132	132	132	132	132	132	132	132	153
2	RP	4	132	132	132	132	132	132	132	132	132	132	153

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1 RP	4	110	158	158	158	158	158	158	158	158	17								
8	158	158	158	158	-1						18								
1 RP	4	115	170	170	170	170	170	170	170	170	12								
0	170	170	170	170	-1						9								
1 RP	4	120	183	183	183	183	183	183	183	183	7								
3	183	183	183	183	-1						6								
1 RP	4	140	125	125	125	125	125	125	125	125	1								
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1 RP	4	160	90	90	90	90	90	90	90	90	2								
0	90	90	90	90	-1						3								
1 RP	4	180	71	71	71	71	71	71	71	71	4								
1	71	71	71	71	-1						5								
1 RP	4	200	61	61	61	61	61	61	61	61	6								
1	61	61	61	61	-1						1								
1 RP	5	20	104	104	111	115	21	13	9	9	10	13	1						
4	16	16	17	17	-1							1	1						
1 RP	5	25	80	78	75	66	25	20	19	17	15	14	12	1					
8	19	20	22	23	-1							16	17	20	2				
1 RP	5	30	70	67	61	45	38	32	31	24	18	17	16	17	20	2			
3	25	27	29	30	-1							22	23	24	27	3			
1 RP	5	35	82	79	74	60	48	42	41	32	22	23	22	23	24	27	3		
1	35	38	41	42	-1							30	30	29	28	27	31	3	
1 RP	5	40	94	91	85	71	60	57	57	44	30	30	30	29	28	27	31	3	
6	42	49	53	54	-1							42	42	36	33	32	36	4	
1 RP	5	45	105	102	97	84	72	71	70	52	34	42	42	39	39	39	43	4	
3	50	58	64	66	-1							47	47	42	39	39	43	4	
1 RP	5	50	104	103	105	94	82	78	75	57	39	47	47	42	39	39	43	4	
9	59	67	73	77	-1							51	51	45	46	46	50	5	
1 RP	5	55	119	116	115	100	90	89	79	60	44	51	51	45	46	46	50	5	
6	65	73	81	84	-1							55	55	46	46	48	54	6	
1 RP	5	60	120	117	115	102	95	82	71	56	44	55	55	46	46	48	54	6	
2	69	75	79	81	-1							44	44	47	46	56	63	6	
1 RP	5	65	91	90	88	84	89	73	58	43	31	44	44	47	46	56	63	6	
5	62	66	69	69	-1							53	53	68	66	65	63	6	
1 RP	5	70	72	71	69	67	86	73	60	44	32	53	53	68	66	65	63	6	
4	68	68	69	69	-1							69	69	85	81	79	76	7	
1 RP	5	75	64	64	62	62	89	79	70	58	48	69	69	85	81	79	76	7	
4	74	66	67	67	-1							74	74	78	74	69	62	6	
1 RP	5	80	60	60	57	60	60	58	57	52	46	71	71	78	74	69	62	6	
1	60	66	66	66	-1							87	87	90	88	86	77	7	
1 RP	5	85	62	61	59	60	61	61	61	62	66	64	64	87	90	88	86	77	7
1	65	63	62	59	-1							121	121	141	160	175	146	11	
1 RP	5	90	67	69	71	77	82	90	99	110	121	141	141	160	168	175	146	11	
6	84	52	39	26	-1							136	136	146	150	154	139	12	
1 RP	5	95	100	101	102	104	107	111	116	121	127	136	136	146	150	154	139	12	
4	108	92	85	79	-1							132	132	132	132	132	132	13	
1 RP	5	100	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	13	
2	132	132	132	132	-1							145	145	145	145	145	145	14	
1 RP	5	105	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	14	
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1	RP	6	120	183	183	183	183	183	183	183	18
3	183	183	183	183	-1						
1	RP	6	140	125	125	125	125	125	125	125	12
5	125	125	125	125	-1						
1	RP	6	160	90	90	90	90	90	90	90	9
0	90	90	90	90	-1						
1	RP	6	180	71	71	71	71	71	71	71	7
1	RP	6	200	61	61	61	61	61	61	61	6
1	RP	7	20	72	72	72	72	72	72	72	7
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1	RP	7	25	87	84	82	76	38	24	15	13
3	15	18	20	21	-1						
1	RP	7	30	90	86	80	62	50	34	21	17
6	17	20	21	22	-1						
1	RP	7	35	112	107	98	79	63	42	28	23
3	25	27	30	31	-1						
1	RP	7	40	137	131	117	95	78	53	35	29
7	29	30	32	33	-1						
1	RP	7	45	164	157	141	115	95	65	41	33
4	36	39	42	43	-1						
1	RP	7	50	181	174	158	130	107	74	46	38
9	41	43	46	47	-1						
1	RP	7	55	200	189	162	130	114	83	52	42
7	46	46	48	48	-1						
1	RP	7	60	174	166	147	123	112	85	58	46
7	46	50	53	53	-1						
1	RP	7	65	141	137	131	117	112	87	56	38
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1	RP	7	70	106	105	106	93	99	84	65	50
8	49	42	43	42	-1						
1	RP	7	75	85	86	92	86	96	90	79	68
7	57	46	47	45	-1						
1	RP	7	80	79	80	84	80	83	77	69	60
3	59	55	57	56	-1						
1	RP	7	85	70	71	73	77	84	82	80	77
2	68	67	74	75	-1						
1	RP	7	90	58	64	70	85	101	120	138	148
9	83	66	59	52	-1						
1	RP	7	95	95	98	101	109	117	126	135	140
6	107	99	95	92	-1						
1	RP	7	100	132	132	132	132	132	132	132	132
2	132	132	132	132	-1						
1	RP	7	105	145	145	145	145	145	145	145	145
5	145	145	145	145	-1						
1	RP	7	110	158	158	158	158	158	158	158	158
8	158	158	158	158	-1						
1	RP	7	115	170	170	170	170	170	170	170	170
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1 RP	8	160	90	90	90	90	90	90	90	90	90	90	9				
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1 RP	8	180	71	71	71	71	71	71	71	71	71	71	7				
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1 RP	8	200	61	61	61	61	61	61	61	61	61	61	6				
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1 RP	9	20	162	162	194	219	111	108	108	108	82	8	12	14	1		
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1 RP	9	25	111	108	112	106	56	50	48	50	52	37	21	16	11	1	1
6	27	39	48	52	-1	55	64	55	52	53	54	38	23	18	15	15	2
1 RP	9	30	80	78	74	55	64	55	52	53	54	38	23	18	15	15	2
1	33	45	55	59	-1	72	66	53	47	53	52	39	27	26	26	28	3
1 RP	9	35	94	91	86	72	66	53	47	53	52	39	27	26	26	28	3
3	42	51	58	61	-1	82	75	61	53	58	58	44	31	32	34	37	4
1 RP	9	40	112	108	99	82	75	61	53	58	58	44	31	32	34	37	4
1	53	61	68	71	-1	88	70	53	44	42	43	50	37	33	37	43	5
1 RP	9	45	127	121	108	88	70	53	44	42	43	50	37	33	37	43	5
1	64	73	81	84	-1	97	90	80	72	78	76	56	40	37	41	47	6
1 RP	9	50	133	128	115	97	90	80	72	78	76	56	40	37	41	47	6
1	75	86	97	101	-1	105	100	87	78	82	79	60	44	43	47	56	7
1 RP	9	55	126	122	114	105	100	87	78	82	79	60	44	43	47	56	7
1	83	93	103	107	-1	101	103	92	85	83	80	63	47	43	49	58	7
1 RP	9	60	132	127	118	101	103	92	85	83	80	63	47	43	49	58	7
1	85	95	103	107	-1	107	114	96	80	71	64	51	44	43	56	66	7
1 RP	9	65	127	123	117	107	114	96	80	71	64	51	44	43	56	66	7
1	85	88	91	91	-1	97	114	98	82	79	75	55	38	47	57	59	6
1 RP	9	70	113	109	105	97	114	98	82	79	75	55	38	47	57	59	6
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1 RP	9	75	104	101	99	92	92	82	66	66	69	67	49	54	63	67	7
1	69	67	73	74	-1	85	80	75	66	64	66	61	42	46	52	53	5
1 RP	9	80	85	84	85	85	80	75	66	64	66	61	42	46	52	53	5
1	58	60	64	64	-1	80	82	85	85	86	87	79	52	55	60	61	5
1 RP	9	85	64	67	71	80	82	85	85	86	87	79	52	55	60	61	5
1	56	51	51	49	-1	73	102	132	162	167	172	125	77	78	79	73	6
1 RP	9	90	23	34	45	73	102	132	162	167	172	125	77	78	79	73	6
1	62	56	54	52	-1	103	117	132	147	150	152	128	105	105	106	103	10
1 RP	9	95	78	83	88	103	117	132	147	150	152	128	105	105	106	103	10
1	97	94	93	92	-1	132	132	132	132	132	132	132	132	132	132	132	13
1 RP	9	100	132	132	132	132	132	132	132	132	132	132	132	132	132	132	13
1	132	132	132	132	-1	145	145	145	145	145	145	145	145	145	145	145	14
1 RP	9	105	145	145	145	145	145	145	145	145	145	145	145	145	145	145	14
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1 RP	9	110	158	158	158	158	158	158	158	158	158	158	158	158	158	158	15
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1 RP	9	115	170	170	170	170	170	170	170	170	170	170	170	170	170	170	17
1	170	170	170	170	-1	183	183	183	183	183	183	183	183	183	183	183	18
1 RP	9	120	183	183	183	183	183	183	183	183	183	183	183	183	183	183	18
1	183	183	183	183	-1	125	125	125	125	125	125	125	125	125	125	125	12
1 RP	9	140	125	125	125	125	125	125	125	125	125	125	125	125	125	125	12
1	125	125	125	125	-1												
5																	

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DATESET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0	
1	RP	9	160	90	90	90	90	90	90	90	9
0	RP	9	180	71	71	71	71	71	71	71	7
1	RP	9	200	61	61	61	61	61	61	61	6
1	RP	10	20	299	299	259	198	27	12	8	7
1	RP	10	25	124	123	107	83	24	17	16	17
6	RP	10	30	39	44	46	34	31	22	19	20
4	RP	10	35	87	82	70	53	40	30	26	27
6	RP	10	40	99	93	80	63	48	37	31	31
7	RP	10	45	112	106	93	75	57	44	36	34
2	RP	10	50	124	118	105	86	66	51	41	39
4	RP	10	55	127	121	107	88	72	59	48	44
6	RP	10	60	142	138	127	107	82	68	55	46
1	RP	10	65	132	128	116	98	77	67	57	50
6	RP	10	70	144	137	122	102	80	71	61	57
8	RP	10	75	139	133	118	98	86	80	71	71
0	RP	10	80	119	115	104	90	73	71	66	70
7	RP	10	85	87	86	82	81	77	81	84	86
6	RP	10	90	22	35	48	80	111	143	174	173
9	RP	10	95	77	83	90	106	122	137	153	153
1	RP	10	100	132	132	132	132	132	132	132	132
2	RP	10	105	145	145	145	145	145	145	145	145
5	RP	10	110	158	158	158	158	158	158	158	158
8	RP	10	115	170	170	170	170	170	170	170	170
0	RP	10	120	183	183	183	183	183	183	183	183
3	RP	10	140	125	125	125	125	125	125	125	125
5	RP	10	160	90	90	90	90	90	90	90	90
1	O	90	90	90	90	90	90	90	90	90	9

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0	
1 RP	10	180	71	71	71	71	71	71	71	71	7
1	71	71	71	71	71	71	71	71	71	71	7
1 RP	10	200	61	61	61	61	61	61	61	61	6
1	61	61	61	61	61	61	61	61	61	61	6
1 RP	11	20	208	208	187	147	18	11	7	8	2
1	28	31	33	33	-1	63	19	15	13	12	2
1 RP	11	25	85	84	76	67	23	18	15	15	3
1	39	51	58	62	-1	67	23	18	15	17	3
1 RP	11	30	90	90	81	40	32	27	24	22	4
1	53	65	72	75	-1	40	32	27	24	22	4
1 RP	11	35	50	49	45	47	38	32	28	28	5
1	65	79	86	90	-1	47	38	32	28	28	5
1 RP	11	40	59	57	54	54	45	38	33	34	7
1	77	91	98	101	-1	54	45	38	33	34	7
1 RP	11	45	68	66	62	62	51	43	39	40	8
1	91	103	106	108	-1	62	51	43	39	40	8
1 RP	11	50	77	74	70	68	58	50	44	44	9
1	101	113	116	118	-1	68	58	50	44	44	9
1 RP	11	55	81	79	76	71	64	57	49	47	9
1	112	121	118	119	-1	71	64	57	49	47	9
1 RP	11	60	84	82	78	64	67	65	56	46	8
1	112	121	120	121	-1	64	67	65	56	46	8
1 RP	11	65	73	72	69	70	65	64	64	65	7
1	91	93	91	91	-1	70	65	64	64	65	7
1 RP	11	70	75	75	75	70	75	77	76	78	7
1	78	76	72	70	-1	70	75	77	76	78	7
1 RP	11	75	77	76	75	73	67	64	66	70	6
1	77	67	64	62	-1	73	67	64	66	70	6
1 RP	11	80	77	78	77	77	77	76	81	85	6
1	65	62	59	57	-1	77	77	76	81	85	6
1 RP	11	85	70	73	75	84	116	146	175	168	8
1	65	61	59	58	-1	84	116	146	175	168	8
1 RP	11	90	26	39	52	108	124	139	154	150	10
1	77	71	69	67	-1	108	124	139	154	150	10
1 RP	11	95	79	85	92	132	132	132	132	132	13
1	104	102	101	100	-1	132	132	132	132	132	13
1 RP	11	100	132	132	132	145	145	145	145	145	14
1	132	132	132	132	-1	145	145	145	145	145	14
1 RP	11	105	145	145	145	158	158	158	158	158	15
1	145	145	145	145	-1	158	158	158	158	158	15
1 RP	11	110	158	158	158	170	170	170	170	170	17
1	158	158	158	158	-1	170	170	170	170	170	17
1 RP	11	115	170	170	170	183	183	183	183	183	18
1	170	170	170	170	-1	183	183	183	183	183	18
1 RP	11	120	183	183	183	125	125	125	125	125	12
1	183	183	183	183	-1	125	125	125	125	125	12
1 RP	11	140	125	125	125	90	90	90	90	90	9
1	125	125	125	125	-1	90	90	90	90	90	9
1 RP	11	160	90	90	90	71	71	71	71	71	7
1	90	90	90	90	-1	71	71	71	71	71	7
1 RP	11	180	71	71	71	71	71	71	71	71	7
1	71	71	71	71	-1	71	71	71	71	71	7

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START
COL

	1	2	3	4	5	6	7	8	9	0								
1	RP	11	200	61	61	61	61	61	61	61	61	61	6					
1	1	61	61	61	61	61	61	61	61	61	61	61	6					
1	RP	12	20	111	111	102	89	14	11	9	7	8	7	8	12	15	2	
3	37	43	45	45	-1	41	15	16	14	13	15	16	15	15	23	3		
1	RP	12	25	49	48	45	41	15	16	14	13	15	16	15	15	23	3	
7	49	51	54	54	-1	44	17	18	17	16	17	16	19	18	20	32	5	
1	RP	12	30	53	52	48	44	17	18	18	17	16	19	19	18	20	32	5
0	65	68	71	71	-1	27	23	23	23	22	22	23	26	25	26	30	43	6
1	RP	12	35	32	32	30	27	23	23	22	22	23	26	25	26	30	43	6
1	1	80	88	94	96	-1	34	29	28	27	26	28	31	31	32	38	53	7
1	RP	12	40	39	38	36	34	29	28	27	26	28	31	31	32	38	53	7
1	1	92	106	112	114	-1	39	34	31	30	30	32	36	35	37	46	63	8
1	RP	12	45	45	44	42	39	34	31	30	30	32	36	35	37	46	63	8
3	104	120	125	127	-1	42	38	35	33	33	34	36	40	38	44	54	71	8
1	RP	12	50	49	47	46	42	38	35	33	34	36	40	38	44	54	71	8
9	107	123	125	128	-1	46	44	41	38	38	38	39	43	43	53	65	86	10
1	RP	12	55	51	50	48	46	44	41	38	38	39	43	43	53	65	86	10
6	117	128	128	129	-1	48	49	46	44	44	42	43	47	47	55	68	89	10
1	RP	12	60	51	50	49	48	49	46	44	42	43	47	47	55	68	89	10
5	117	130	130	131	-1	47	55	57	59	59	53	51	50	39	48	60	78	9
1	RP	12	65	36	39	42	47	55	57	59	53	51	50	39	48	60	78	9
4	101	108	110	111	-1	50	62	67	74	74	72	69	54	34	45	60	74	8
1	RP	12	70	41	43	45	50	62	67	74	72	69	54	34	45	60	74	8
7	92	95	100	103	-1	54	72	79	85	85	82	79	65	48	59	73	79	8
1	RP	12	75	47	49	50	54	72	79	85	82	79	65	48	59	73	79	8
5	87	82	88	90	-1	61	63	66	71	66	68	68	67	51	57	71	75	7
1	RP	12	80	58	59	57	61	63	66	71	68	68	67	51	57	71	75	7
9	80	73	79	80	-1	72	73	77	82	82	78	76	82	69	69	77	78	7
1	RP	12	85	75	75	70	72	73	77	82	78	76	82	69	69	77	78	7
8	78	69	75	76	-1	85	111	133	154	141	127	134	140	130	120	109	9	
1	RP	12	90	39	50	60	85	111	133	154	141	127	134	140	130	120	109	9
7	88	79	75	72	-1	109	122	132	143	136	130	133	136	131	126	120	11	
1	RP	12	95	85	91	96	109	122	132	143	136	130	133	136	131	126	120	11
5	110	106	104	102	-1	132	132	132	132	132	132	132	132	132	132	132	132	13
1	RP	12	100	132	132	132	132	132	132	132	132	132	132	132	132	132	132	13
2	132	132	132	132	-1	145	145	145	145	145	145	145	145	145	145	145	145	14
1	RP	12	105	145	145	145	145	145	145	145	145	145	145	145	145	145	145	14
5	145	145	145	145	-1	158	158	158	158	158	158	158	158	158	158	158	158	15
1	RP	12	110	158	158	158	158	158	158	158	158	158	158	158	158	158	158	15
8	158	158	158	158	-1	170	170	170	170	170	170	170	170	170	170	170	170	17
1	RP	12	115	170	170	170	170	170	170	170	170	170	170	170	170	170	170	17
0	170	170	170	170	-1	183	183	183	183	183	183	183	183	183	183	183	183	18
1	RP	12	120	183	183	183	183	183	183	183	183	183	183	183	183	183	183	18
3	183	183	183	183	-1	125	125	125	125	125	125	125	125	125	125	125	125	12
1	RP	12	140	125	125	125	125	125	125	125	125	125	125	125	125	125	125	12
5	125	125	125	125	-1	90	90	90	90	90	90	90	90	90	90	90	90	9
1	RP	12	160	90	90	90	90	90	90	90	90	90	90	90	90	90	90	9
0	90	90	90	90	-1	71	71	71	71	71	71	71	71	71	71	71	71	7
1	RP	12	180	71	71	71	71	71	71	71	71	71	71	71	71	71	71	7
1	1	71	71	71	-1	61	61	61	61	61	61	61	61	61	61	61	61	6
1	RP	12	200	61	61	61	61	61	61	61	61	61	61	61	61	61	61	6
1	1	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	6

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 RD	2	25	15	14	14	13	15	15	15	16	17	18	17	16	16	19	2	
7 RD	40	45	48	48	-1	20	15	15	16	17	17	17	16	17	20	28	4	
0	59	69	78	81	-1	27	19	19	20	22	23	23	22	23	26	36	5	
1 RD	2	35	38	37	35	27	24	24	24	28	30	31	29	27	29	43	6	
2 RD	74	89	102	107	-1	32	36	41	44	43	39	36	36	33	36	53	8	
4 RD	88	107	125	132	-1	41	40	49	58	53	44	41	38	39	46	65	9	
1 RD	2	45	44	43	43	41	47	57	67	59	48	45	45	44	52	72	9	
1 RD	2	50	56	55	52	47	54	66	81	68	54	48	46	52	62	79	9	
1 RD	2	55	63	61	59	54	50	64	87	88	48	45	42	48	59	78	10	
9 RD	131	166	181	187	-1	53	59	59	63	57	45	42	33	42	53	76	10	
9 RD	128	158	167	171	-1	45	65	66	71	65	54	49	40	50	61	83	10	
1 RD	2	65	63	62	53	45	62	61	61	55	52	56	48	54	63	80	9	
3 RD	131	157	167	173	-1	56	70	70	68	69	66	62	71	65	70	77	86	9
1 RD	2	70	48	51	55	58	65	66	68	69	66	62	71	65	70	77	86	9
1 RD	2	75	53	56	58	58	65	66	68	69	66	62	71	65	70	77	86	9
5 RD	125	139	148	155	-1	65	62	61	61	55	52	56	48	54	63	80	9	
1 RD	2	80	63	66	67	65	72	70	68	69	66	62	71	65	70	77	86	9
9 RD	114	130	140	146	-1	72	109	113	114	115	105	95	110	124	137	149	140	13
1 RD	2	85	76	77	75	109	132	134	134	135	130	125	132	139	145	152	147	14
1 RD	2	90	101	103	105	132	154	154	154	154	154	154	154	154	154	154	154	15
0	118	105	100	94	-1	135	135	135	135	135	135	135	135	135	135	135	135	13
1 RD	2	95	128	129	130	132	117	117	117	117	117	117	117	117	117	117	117	11
2 RD	136	130	127	124	-1	117	98	98	98	98	98	98	98	98	98	98	98	9
1 RD	2	100	154	154	154	154	79	79	79	79	79	79	79	79	79	79	79	7
4 RD	154	154	154	154	-1	72	72	72	72	72	72	72	72	72	72	72	72	7
1 RD	2	105	135	135	135	135	65	65	65	65	65	65	65	65	65	65	65	6
5 RD	135	135	135	135	-1	65	58	58	58	58	58	58	58	58	58	58	58	5
1 RD	2	110	117	117	117	117	52	52	52	52	52	52	52	52	52	52	52	5
7 RD	117	117	117	117	-1	11	11	11	11	11	11	11	11	11	11	11	11	2
1 RD	2	115	98	98	98	98	21	21	18	14	11	10	10	11	14	16	19	2
1 RD	2	120	79	79	79	79	15	15	10	12	17	24	26	23	20	17	22	3
9 RD	79	79	79	79	-1	23	15	10	12	17	24	26	23	20	17	22	22	3
1 RD	2	140	72	72	72	23	15	10	12	17	24	26	23	20	17	22	22	3
2 RD	72	72	72	72	-1	1	45	60	72	76	-1							
1 RD	2	160	65	65	65	65	1	45	60	72	76	-1						
5 RD	65	65	65	65	-1	1	45	60	72	76	-1							
1 RD	2	180	58	58	58	58	1	45	60	72	76	-1						
8 RD	58	58	58	58	-1	1	45	60	72	76	-1							
1 RD	2	200	52	52	52	52	1	45	60	72	76	-1						
2 RD	52	52	52	52	-1	1	45	60	72	76	-1							
1 RD	3	20	11	11	11	11	1	45	60	72	76	-1						
4 RD	30	35	37	38	-1	1	45	60	72	76	-1							
1 RD	3	25	44	41	33	23	15	10	12	17	24	26	23	20	17	22	22	3

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0							
1 RD	3	30	43	40	33	22	15	10	12	18	26	25	22	20	19	23	3
2	51	71	85	90	-1	37	26	24	24	26	28	27	24	24	26	31	4
1 RD	3	35	48	45	40	41	36	33	32	32	33	31	29	29	31	40	5
0	58	75	88	93	-1	53	45	40	35	33	38	38	36	35	37	46	6
1 RD	3	40	53	51	46	65	54	45	38	35	40	44	48	47	51	61	7
4	72	89	103	108	-1	72	62	49	41	40	44	50	57	56	60	71	8
1 RD	3	45	64	63	59	73	73	59	50	42	45	54	62	63	69	76	8
1	82	102	116	122	-1	89	88	72	58	44	46	40	41	48	59	74	9
1 RD	3	50	83	80	74	79	78	64	57	46	35	42	38	40	44	60	7
5	96	114	125	130	-1	81	84	70	67	60	50	55	53	54	57	68	8
1 RD	3	55	90	86	77	81	79	62	60	54	50	62	59	58	61	72	8
1	109	116	125	129	-1	81	71	62	60	63	61	75	69	71	77	85	8
4	109	116	125	129	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	60	90	87	81	81	79	67	64	63	61	75	69	71	77	85	8
6	112	121	130	135	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	65	92	92	91	81	71	62	60	63	61	75	69	71	77	85	8
3	113	118	123	127	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	70	94	92	86	81	71	62	60	63	61	75	69	71	77	85	8
9	99	106	111	115	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	75	95	94	87	81	71	62	60	63	61	75	69	71	77	85	8
3	100	102	111	116	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	80	93	92	86	81	71	62	60	63	61	75	69	71	77	85	8
3	92	100	111	117	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	85	82	82	81	81	71	62	60	63	61	75	69	71	77	85	8
7	89	91	101	104	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	90	104	103	102	81	71	62	60	63	61	75	69	71	77	85	8
8	111	93	85	78	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	95	129	129	128	81	71	62	60	63	61	75	69	71	77	85	8
1	132	124	120	116	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	100	154	154	154	81	71	62	60	63	61	75	69	71	77	85	8
4	154	154	154	154	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	105	135	135	135	81	71	62	60	63	61	75	69	71	77	85	8
5	135	135	135	135	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	110	117	117	117	81	71	62	60	63	61	75	69	71	77	85	8
7	117	117	117	117	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	115	98	98	98	81	71	62	60	63	61	75	69	71	77	85	8
8	98	98	98	98	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	120	79	79	79	81	71	62	60	63	61	75	69	71	77	85	8
9	79	79	79	79	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	140	72	72	72	81	71	62	60	63	61	75	69	71	77	85	8
2	72	72	72	72	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	160	65	65	65	81	71	62	60	63	61	75	69	71	77	85	8
5	65	65	65	65	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	180	58	58	58	81	71	62	60	63	61	75	69	71	77	85	8
8	58	58	58	58	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	3	200	52	52	52	81	71	62	60	63	61	75	69	71	77	85	8
2	52	52	52	52	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	4	20	10	10	10	81	71	62	60	63	61	75	69	71	77	85	8
1	23	25	28	29	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	4	25	36	34	31	81	71	62	60	63	61	75	69	71	77	85	8
7	22	27	27	28	-1	81	71	62	60	63	61	75	69	71	77	85	8
1 RD	4	30	53	49	38	81	71	62	60	63	61	75	69	71	77	85	8
1	1	26	29	30	31	81	71	62	60	63	61	75	69	71	77	85	8

START
COL

1	RD	4	35	57	55	49	40	35	29	24	20	18	20	22	24	25	25	2
8	RD	4	35	38	41	42	-1	52	46	38	32	27	24	26	27	28	30	3
5	RD	4	43	48	53	55	-1	67	61	51	42	35	28	30	32	31	31	4
2	RD	4	53	60	65	67	-1	84	76	61	46	37	29	31	32	31	34	5
2	RD	4	65	74	81	84	-1	94	90	73	60	50	38	36	37	36	40	6
1	RD	4	77	83	91	94	-1	102	101	92	83	62	40	38	38	40	46	7
3	RD	4	88	87	93	97	-1	96	101	90	76	62	47	41	38	42	50	8
1	RD	4	77	74	78	79	-1	78	91	77	62	45	31	44	45	46	49	9
3	RD	4	73	66	70	71	-1	70	89	80	68	55	46	61	67	63	59	10
1	RD	4	75	67	72	74	-1	67	69	67	64	58	51	68	69	63	60	11
6	RD	4	80	75	74	71	-1	68	68	66	65	61	60	79	75	74	71	12
3	RD	4	71	74	78	80	-1	92	88	88	88	101	113	118	122	140	158	13
1	RD	4	85	81	79	75	-1	123	121	121	121	127	134	136	138	147	156	14
2	RD	4	74	74	74	73	-1	154	154	154	154	154	154	154	154	154	154	15
4	RD	4	100	118	114	109	-1	135	135	135	135	135	135	135	135	135	135	16
1	RD	4	154	154	154	154	-1	117	117	117	117	117	117	117	117	117	117	17
1	RD	4	105	135	135	135	-1	98	98	98	98	98	98	98	98	98	98	18
5	RD	4	110	117	117	117	-1	79	79	79	79	79	79	79	79	79	79	19
1	RD	4	117	117	117	117	-1	72	72	72	72	72	72	72	72	72	72	20
1	RD	4	115	98	98	98	-1	65	65	65	65	65	65	65	65	65	65	21
8	RD	4	98	98	98	98	-1	58	58	58	58	58	58	58	58	58	58	22
1	RD	4	120	79	79	79	-1	58	58	58	58	58	58	58	58	58	58	23
9	RD	4	79	79	79	79	-1	52	52	52	52	52	52	52	52	52	52	24
1	RD	4	140	72	72	72	-1	10	20	18	14	10	6	7	8	10	14	25
2	RD	4	72	72	72	72	-1	24	21	16	14	15	16	17	15	15	15	26
1	RD	4	160	65	65	65	-1	37	28	24	23	21	18	16	13	14	16	27
5	RD	4	65	65	65	65	-1	52	52	52	52	52	52	52	52	52	52	28
1	RD	4	180	58	58	58	-1	10	20	18	14	10	6	7	8	10	14	29
8	RD	4	58	58	58	58	-1	24	21	16	14	15	16	17	15	15	15	30
1	RD	4	200	52	52	52	-1	37	28	24	23	21	18	16	13	14	16	31
2	RD	4	52	52	52	52	-1	52	52	52	52	52	52	52	52	52	52	32
1	RD	5	20	10	10	10	-1	10	20	18	14	10	6	7	8	10	14	33
7	RD	5	17	17	15	15	-1	24	21	16	14	15	16	17	15	15	15	34
1	RD	5	25	37	35	32	-1	37	28	24	23	21	18	16	13	14	16	35
6	RD	5	18	20	21	21	-1	52	52	52	52	52	52	52	52	52	52	36
1	RD	5	30	60	57	52	-1	10	20	18	14	10	6	7	8	10	14	37
8	RD	5	19	21	23	23	-1	24	21	16	14	15	16	17	15	15	15	38
1	RD	5	35	70	68	64	-1	52	52	52	52	52	52	52	52	52	52	39
5	RD	5	26	27	28	28	-1	10	20	18	14	10	6	7	8	10	14	40

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0							
1 RD	5	40	79	77	72	62	53	48	48	38	27	23	21	21	22	25	2
9	33	36	38	38	-1	75	64	63	64	48	34	37	30	28	26	30	3
1 RD	5	45	91	88	85	86	73	72	73	55	37	44	39	33	31	35	4
4	39	44	48	49	-1	98	85	81	74	56	39	48	45	40	38	41	4
1 RD	5	50	96	94	95	102	89	80	73	55	40	54	49	46	44	49	5
1	48	54	59	61	-1	105	102	81	62	48	37	42	38	46	60	63	5
1 RD	5	55	116	114	113	89	98	80	70	43	29	48	52	51	51	49	4
7	56	65	72	75	-1	82	98	80	61	43	29	48	52	51	51	49	4
1 RD	5	60	119	118	118	77	71	65	60	52	44	69	74	67	61	52	5
4	63	68	71	72	-1	74	70	66	63	61	59	80	78	77	76	67	6
1 RD	5	65	117	116	114	93	95	99	103	110	116	115	114	136	158	141	12
9	56	55	56	54	-1	123	125	127	129	132	135	135	134	145	156	148	13
1 RD	5	70	98	96	94	154	154	154	154	154	154	154	154	154	154	154	15
1	51	53	52	51	-1	135	135	135	135	135	135	135	135	135	135	135	13
1 RD	5	75	89	88	85	117	117	117	117	117	117	117	117	117	117	117	11
1	55	52	52	51	-1	98	98	98	98	98	98	98	98	98	98	98	9
1 RD	5	80	82	81	77	79	79	79	79	79	79	79	79	79	79	79	7
1	55	61	62	61	-1	72	72	72	72	72	72	72	72	72	72	72	7
1 RD	5	85	78	77	74	65	65	65	65	65	65	65	65	65	65	65	6
1	61	64	64	63	-1	58	58	58	58	58	58	58	58	58	58	58	5
1 RD	5	90	89	90	90	52	52	52	52	52	52	52	52	52	52	52	5
1	101	78	68	59	-1	10	10	10	10	10	10	10	10	10	10	10	1
1 RD	5	95	122	122	122	26	26	26	26	26	26	26	26	26	26	26	1
1	128	116	111	107	-1	44	44	44	44	44	44	44	44	44	44	44	1
1 RD	5	100	154	154	154	62	62	62	62	62	62	62	62	62	62	62	1
1	154	154	154	154	-1	69	69	69	69	69	69	69	69	69	69	69	1
1 RD	5	105	135	135	135	68	68	68	68	68	68	68	68	68	68	68	1
1	135	135	135	135	-1	81	81	81	81	81	81	81	81	81	81	81	1
1 RD	5	110	117	117	117	31	31	31	31	31	31	31	31	31	31	31	1
1	117	117	117	117	-1	25	25	25	25	25	25	25	25	25	25	25	1
1 RD	5	115	98	98	98	76	76	76	76	76	76	76	76	76	76	76	1
1	98	98	98	98	-1	24	24	24	24	24	24	24	24	24	24	24	1
1 RD	5	120	79	79	79	82	82	82	82	82	82	82	82	82	82	82	1
1	79	79	79	79	-1	31	31	31	31	31	31	31	31	31	31	31	1
1 RD	5	140	72	72	72	81	81	81	81	81	81	81	81	81	81	81	1
1	72	72	72	72	-1	25	25	25	25	25	25	25	25	25	25	25	1
1 RD	5	160	65	65	65	76	76	76	76	76	76	76	76	76	76	76	1
1	65	65	65	65	-1	31	31	31	31	31	31	31	31	31	31	31	1
1 RD	5	180	58	58	58	69	69	69	69	69	69	69	69	69	69	69	1
1	58	58	58	58	-1	25	25	25	25	25	25	25	25	25	25	25	1
1 RD	5	200	52	52	52	76	76	76	76	76	76	76	76	76	76	76	1
1	52	52	52	52	-1	31	31	31	31	31	31	31	31	31	31	31	1
1 RD	6	20	10	10	10	81	81	81	81	81	81	81	81	81	81	81	1
1	15	14	13	13	-1	25	25	25	25	25	25	25	25	25	25	25	1
1 RD	6	25	35	34	30	76	76	76	76	76	76	76	76	76	76	76	1
1	15	16	16	16	-1	31	31	31	31	31	31	31	31	31	31	31	1
1 RD	6	30	56	56	52	81	81	81	81	81	81	81	81	81	81	81	1
1	17	17	18	18	-1	25	25	25	25	25	25	25	25	25	25	25	1
1 RD	6	35	75	74	69	76	76	76	76	76	76	76	76	76	76	76	1
1	21	24	25	25	-1	31	31	31	31	31	31	31	31	31	31	31	1
1 RD	6	40	82	81	76	81	81	81	81	81	81	81	81	81	81	81	1
1	5	27	31	31	-1	31	31	31	31	31	31	31	31	31	31	31	1

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RD	7	50	170	162	143	119	98	67	43	35	34	36	30	31	33	31	3
2		36	41	46	48	-1	138	120	82	48	39	39	41	35	36	39	37	3
1	RD	7	55	214	202	171	137	120	87	55	42	45	52	49	46	44	42	4
9		41	42	46	47	-1	128	123	92	55	36	40	46	40	49	60	56	5
1	RD	7	60	204	192	165	106	110	89	61	42	31	46	50	55	61	57	4
3		45	49	52	53	-1	101	104	91	72	57	45	58	66	68	69	64	5
1	RD	7	65	162	155	143	98	93	80	65	56	46	60	60	62	66	59	5
1		43	40	38	36	-1	89	83	80	76	67	59	70	64	67	73	69	6
1	RD	7	70	132	127	123	91	92	85	76	67	59	70	64	67	73	69	6
9		37	36	37	36	-1	111	121	129	137	129	121	109	97	116	135	129	12
1	RD	7	75	110	109	112	132	138	142	146	142	138	132	126	135	145	141	13
6		46	37	38	37	-1	154	154	154	154	154	154	154	154	154	154	154	15
1	RD	7	80	100	100	105	135	135	135	135	135	135	135	135	135	135	135	13
6		49	43	45	44	-1	117	117	117	117	117	117	117	117	117	117	117	11
1	RD	7	85	83	85	88	98	98	98	98	98	98	98	98	98	98	98	9
6		63	59	65	66	-1	79	79	79	79	79	79	79	79	79	79	79	7
1	RD	7	90	92	96	100	72	72	72	72	72	72	72	72	72	72	72	7
2		110	97	92	87	-1	65	65	65	65	65	65	65	65	65	65	65	6
1	RD	7	95	123	125	127	58	58	58	58	58	58	58	58	58	58	58	5
8		132	126	123	121	-1	52	52	52	52	52	52	52	52	52	52	52	5
1	RD	7	100	154	154	154	14	14	14	14	14	14	14	14	14	14	14	1
4		154	154	154	154	-1	29	28	20	16	15	16	18	16	15	16	15	1
1	RD	7	105	135	135	135	48	40	26	18	16	17	16	15	15	17	16	1
5		135	135	135	135	-1	67	53	35	24	22	23	23	23	21	21	20	1
1	RD	7	110	117	117	117	83	68	44	28	25	26	28	25	25	23	22	2
7		117	117	117	117	-1	103	84	54	34	30	32	33	33	33	39	42	3
1	RD	7	115	98	98	98	116	95	65	44	35	34	37	38	48	57	48	3
8		98	98	98	98	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	7	120	79	79	79	116	95	65	44	35	34	37	38	48	57	48	3
9		79	79	79	79	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	7	140	72	72	72	95	65	44	35	34	37	38	48	57	48	3	
2		72	72	72	72	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	7	160	65	65	65	95	65	44	35	34	37	38	48	57	48	3	
5		65	65	65	65	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	7	180	58	58	58	95	65	44	35	34	37	38	48	57	48	3	
8		58	58	58	58	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	7	200	52	52	52	95	65	44	35	34	37	38	48	57	48	3	
2		52	52	52	52	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	8	20	14	14	14	95	65	44	35	34	37	38	48	57	48	3	
5		16	15	15	15	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	8	25	39	38	34	95	65	44	35	34	37	38	48	57	48	3	
4		15	17	17	17	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	8	30	71	68	61	95	65	44	35	34	37	38	48	57	48	3	
5		22	31	33	34	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	8	35	89	86	79	95	65	44	35	34	37	38	48	57	48	3	
7		26	34	37	39	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	8	40	107	103	95	95	65	44	35	34	37	38	48	57	48	3	
3		32	40	44	46	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	8	45	132	128	118	95	65	44	35	34	37	38	48	57	48	3	
5		39	44	46	48	-1	95	65	44	35	34	37	38	48	57	48	3	
1	RD	8	50	151	146	136	95	65	44	35	34	37	38	48	57	48	3	
9		46	53	58	60	-1	95	65	44	35	34	37	38	48	57	48	3	

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DATASET: CWEJ412.GRAMDD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RD	9	60	134	129	117	97	98	90	85	83	80	60	45	42	49	54	6
6	76	79	86	88	-1													
1	RD	9	65	123	119	112	101	109	92	78	70	61	48	46	42	56	66	8
0	88	88	90	90	-1													
1	RD	9	70	103	99	95	88	108	92	78	76	73	57	34	44	54	57	6
7	76	80	87	88	-1													
1	RD	9	75	99	97	95	89	88	74	59	56	53	67	48	58	64	65	7
2	79	82	89	90	-1													
1	RD	9	80	97	95	95	93	86	78	64	59	59	62	50	53	60	61	6
6	74	81	88	90	-1													
1	RD	9	85	86	87	89	92	90	87	79	72	68	74	60	60	63	65	6
8	74	79	84	86	-1													
1	RD	9	90	78	85	93	111	128	142	155	140	125	117	108	103	97	98	9
8	100	102	103	104	-1													
1	RD	9	95	116	120	124	132	141	148	155	147	140	135	131	128	126	126	12
6	127	128	129	129	-1													
1	RD	9	100	154	154	154	154	154	154	154	154	154	154	154	154	154	154	15
4	154	154	154	154	-1													
1	RD	9	105	135	135	135	135	135	135	135	135	135	135	135	135	135	135	13
5	135	135	135	135	-1													
1	RD	9	110	117	117	117	117	117	117	117	117	117	117	117	117	117	117	11
7	117	117	117	117	-1													
1	RD	9	115	98	98	98	98	98	98	98	98	98	98	98	98	98	98	9
8	98	98	98	98	-1													
1	RD	9	120	79	79	79	79	79	79	79	79	79	79	79	79	79	79	7
9	79	79	79	79	-1													
1	RD	9	140	72	72	72	72	72	72	72	72	72	72	72	72	72	72	7
2	72	72	72	72	-1													
1	RD	9	160	65	65	65	65	65	65	65	65	65	65	65	65	65	65	6
5	65	65	65	65	-1													
1	RD	9	180	58	58	58	58	58	58	58	58	58	58	58	58	58	58	5
8	58	58	58	58	-1													
1	RD	9	200	52	52	52	52	52	52	52	52	52	52	52	52	52	52	5
2	52	52	52	52	-1													
1	RD	10	20	12	12	12	12	24	16	13	8	5	5	6	8	14	18	2
0	21	19	17	17	-1													
1	RD	10	25	27	26	23	19	20	15	15	18	21	22	21	22	22	21	2
2	29	36	40	42	-1													
1	RD	10	30	58	53	40	30	25	18	18	18	19	19	19	20	23	24	2
6	32	37	41	42	-1													
1	RD	10	35	74	70	60	46	35	27	24	24	23	21	18	20	24	28	3
3	39	44	48	49	-1													
1	RD	10	40	84	79	68	52	41	31	28	28	29	27	25	27	31	38	4
5	51	57	61	63	-1													
1	RD	10	45	95	90	78	61	47	36	32	32	33	31	30	35	42	51	6
0	66	71	73	75	-1													
1	RD	10	50	111	105	92	73	56	43	34	34	34	32	31	37	47	60	7
3	83	89	91	93	-1													
1	RD	10	55	115	109	96	79	63	50	40	40	40	39	42	49	62	72	8
5	100	104	106	108	-1													
1	RD	10	60	136	130	118	97	72	59	47	42	40	41	44	64	85	90	9
7	109	111	114	117	-1													

START
COL

1	RD	10	65	120	117	106	90	68	59	51	44	39	42	50	63	76	86	9
6	RD	10	101	101	101	-1	93	68	60	52	47	46	44	31	43	58	68	7
9	RD	10	81	80	80	-1	91	72	68	62	63	65	59	43	54	63	71	7
8	RD	10	75	132	126	110	95	76	71	63	66	71	69	49	54	62	67	7
1	RD	10	80	133	128	113	95	82	81	78	76	76	80	60	59	61	66	6
1	RD	10	85	117	116	106	104	126	142	158	140	122	118	113	101	88	88	8
9	RD	10	72	75	78	79	104	126	142	158	140	122	118	113	101	88	88	8
8	RD	10	90	64	73	82	129	140	148	156	147	138	136	134	127	121	121	12
1	RD	10	95	109	114	118	129	140	148	156	147	138	136	134	127	121	121	12
1	RD	10	123	125	126	127	154	154	154	154	154	154	154	154	154	154	154	15
4	RD	10	100	154	154	154	154	154	154	154	154	154	154	154	154	154	154	15
1	RD	10	105	135	135	135	135	135	135	135	135	135	135	135	135	135	135	13
5	RD	10	105	135	135	135	135	135	135	135	135	135	135	135	135	135	135	13
1	RD	10	110	117	117	117	117	117	117	117	117	117	117	117	117	117	117	11
7	RD	10	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	11
1	RD	10	115	98	98	98	98	98	98	98	98	98	98	98	98	98	98	9
8	RD	10	115	98	98	98	98	98	98	98	98	98	98	98	98	98	98	9
1	RD	10	120	79	79	79	79	79	79	79	79	79	79	79	79	79	79	7
9	RD	10	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	7
1	RD	10	140	72	72	72	72	72	72	72	72	72	72	72	72	72	72	7
2	RD	10	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	7
1	RD	10	160	65	65	65	65	65	65	65	65	65	65	65	65	65	65	6
5	RD	10	160	65	65	65	65	65	65	65	65	65	65	65	65	65	65	6
1	RD	10	180	58	58	58	58	58	58	58	58	58	58	58	58	58	58	5
8	RD	10	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	5
1	RD	10	200	52	52	52	52	52	52	52	52	52	52	52	52	52	52	5
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2	RD	11	20	11	11	11	11	23	16	11	8	6	5	6	8	15	18	2
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1	RD	11	30	39	43	46	18	20	16	14	13	13	16	18	20	24	26	2
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1	RD	11	111	119	118	119	62	51	45	40	42	46	49	42	57	77	82	9
1	RD	11	60	75	74	71	62	58	53	46	47	52	55	42	56	77	87	9
6	RD	11	124	122	123	123	62	58	53	46	47	52	55	42	56	77	87	9
1	RD	11	65	57	58	59	58	62	67	62	46	38	43	37	47	64	85	10
5	RD	11	120	118	119	119	58	62	67	62	46	38	43	37	47	64	85	10

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9	91	92	89	88	-1	-1	-1	64	58	57	61	66	75	70	47	54	66	73	8
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1	RD	11	85	74	76	76	-1	74	70	69	73	74	76	79	58	61	67	71	7
8	78	78	76	75	-1	-1	-1	101	124	141	158	136	114	115	116	110	103	99	9
1	RD	11	90	59	68	78	-1	101	124	141	158	136	114	115	116	110	103	99	9
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1	RD	11	105	135	135	135	-1	135	135	135	135	135	135	135	135	135	135	135	13
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1	RD	11	110	117	117	117	-1	117	117	117	117	117	117	117	117	117	117	117	11
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1	RD	12	25	13	13	13	-1	13	15	16	16	15	15	18	19	18	17	21	2
7	35	40	43	44	-1	-1	-1	14	15	15	16	15	14	19	21	19	18	27	4
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1	RD	12	35	27	27	24	-1	21	18	19	20	19	19	23	23	23	26	39	5
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1	RD	12	55	51	50	48	-1	44	39	36	35	35	38	42	42	48	61	84	10
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START
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3	RD	99	98	105	107	-1	61	63	67	74	71	71	75	61	65	77	83	8
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1	RD	12	100	154	154	154	154	154	154	154	154	154	154	154	154	154	154	15
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7	RT	37	44	49	51	-1	14	10	10	11	13	14	16	16	17	20	26	3
1	RT	1	30	16	16	16	14	10	10	11	13	14	16	16	17	20	26	3
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1 RT	1	95	78	77	75	75	75	75	75	75	75	75	75	75	75	75	7
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1 RT	1	100	75	75	75	109	109	109	109	109	109	109	109	109	109	109	10
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1 RT	1	105	109	109	109	143	143	143	143	143	143	143	143	143	143	143	14
1	9	109	109	109	109	-1	177	177	177	177	177	177	177	177	177	177	17
1 RT	1	110	143	143	143	177	177	177	177	177	177	177	177	177	177	177	17
1	3	143	143	143	143	-1	211	211	211	211	211	211	211	211	211	211	21
1 RT	1	115	177	177	177	211	211	211	211	211	211	211	211	211	211	211	21
1	7	177	177	177	177	-1	146	146	146	146	146	146	146	146	146	146	14
1 RT	1	120	211	211	211	146	146	146	146	146	146	146	146	146	146	146	14
1	1	211	211	211	211	-1	105	105	105	105	105	105	105	105	105	105	10
1 RT	1	140	146	146	146	105	105	105	105	105	105	105	105	105	105	105	10
1	6	146	146	146	146	-1	81	81	81	81	81	81	81	81	81	81	8
1 RT	1	160	105	105	105	81	81	81	81	81	81	81	81	81	81	81	8
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1 RT	1	180	81	81	81	69	69	69	69	69	69	69	69	69	69	69	6
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1 RT	1	200	69	69	69	23	10	9	7	6	7	6	6	6	9	11	14
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1 RT	1	20	26	26	24	19	10	10	10	10	10	10	10	10	10	10	10
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1 RT	2	30	26	25	24	19	15	16	17	18	18	18	18	18	18	18	18
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1 RT	2	35	26	25	23	18	15	17	20	18	16	16	16	16	16	16	16
1	6	47	59	63	65	-1	16	15	17	20	18	16	16	16	16	16	16
1 RT	2	40	25	24	22	16	15	17	20	18	16	16	16	16	16	16	16
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1	5	45	56	62	65	-1	15	16	19	21	18	16	16	16	16	16	16
1 RT	2	50	14	14	15	18	20	22	23	19	18	18	18	18	18	18	18
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1 RT	2	55	16	15	16	19	23	24	25	25	25	25	25	25	25	25	25
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1 RT	2	80	30	32	36	38	38	38	38	38	38	38	38	38	38	38	38
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1	RT	2	143	143	143	143	-1	105	105	105	105	105	105	105	105	105	105	10		
1	RT	2	115	177	177	177	-1	81	81	81	81	81	81	81	81	81	81	8		
1	RT	2	177	177	177	177	-1	69	69	69	69	69	69	69	69	69	69	6		
1	RT	2	120	211	211	211	-1	34	11	9	8	7	9	7	6	10	10	13	1	
1	RT	2	211	211	211	211	-1	22	13	11	11	11	11	13	12	13	13	17	2	
1	RT	2	140	146	146	146	-1	24	15	13	12	12	14	15	14	14	16	22	2	
1	RT	2	146	146	146	146	-1	22	19	17	16	16	16	16	18	19	20	24	3	
1	RT	2	160	105	105	105	-1	24	20	17	15	16	16	17	18	18	19	24	3	
1	RT	2	180	81	81	81	-1	22	19	16	16	16	16	16	16	18	19	24	3	
1	RT	2	200	69	69	69	-1	22	19	16	16	16	16	16	16	16	16	16	16	16
1	RT	3	20	41	41	41	38	34	11	9	8	7	9	7	6	10	10	13	1	
1	RT	3	25	26	25	24	-1	22	13	11	11	11	11	13	12	13	13	17	2	
1	RT	3	30	33	35	36	-1	24	15	13	12	12	14	15	14	14	16	22	2	
1	RT	3	36	41	45	46	-1	22	19	17	16	16	16	16	18	19	20	24	3	
1	RT	3	35	28	27	25	-1	24	20	17	15	16	16	17	18	18	19	24	3	
1	RT	3	40	45	49	51	-1	24	20	17	15	16	16	17	18	18	19	24	3	
1	RT	3	40	32	31	28	-1	22	19	16	16	16	16	16	16	16	16	16	16	16
1	RT	3	45	28	27	25	-1	22	19	16	16	16	16	16	16	16	16	16	16	16
1	RT	3	50	24	23	22	-1	21	20	18	18	17	16	16	16	16	16	16	16	16
1	RT	3	55	32	33	34	-1	24	23	22	20	19	17	18	17	19	21	23	2	
1	RT	3	33	34	34	34	-1	23	25	25	27	26	24	24	21	23	27	31	3	
1	RT	3	36	37	41	43	-1	23	25	25	27	26	24	24	21	23	27	31	3	
1	RT	3	65	24	24	25	-1	26	29	29	31	31	30	31	27	30	33	36	3	
1	RT	3	70	34	37	37	-1	24	30	30	30	30	30	28	29	29	32	36	37	3
1	RT	3	75	39	38	36	-1	33	43	43	39	34	32	32	37	39	41	45	47	4
1	RT	3	80	46	47	47	-1	44	40	37	36	38	36	41	34	37	42	46	5	
1	RT	3	85	55	56	57	-1	55	48	43	42	46	49	54	45	46	48	52	5	
1	RT	3	85	66	65	60	-1	55	48	43	42	46	49	54	45	46	48	52	5	
5	58	59	60	61	-1															

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 RT	3	90	85	83	80	73	67	66	65	82	99	92	85	85	86	85	8	
5	84	83	83	83	-1	74	71	70	70	78	87	83	80	80	80	80	8	
1 RT	3	95	80	79	78	75	75	75	75	75	75	75	75	75	75	75	7	
O	80	79	79	79	-1	109	109	109	109	109	109	109	109	109	109	109	10	
1 RT	3	100	75	75	75	143	143	143	143	143	143	143	143	143	143	143	14	
5	75	75	75	75	-1	177	177	177	177	177	177	177	177	177	177	177	17	
1 RT	3	105	109	109	109	211	211	211	211	211	211	211	211	211	211	211	21	
9	109	109	109	109	-1	146	146	146	146	146	146	146	146	146	146	146	14	
1 RT	3	110	143	143	143	105	105	105	105	105	105	105	105	105	105	105	10	
3	143	143	143	143	-1	81	81	81	81	81	81	81	81	81	81	81	8	
1 RT	3	115	177	177	177	69	69	69	69	69	69	69	69	69	69	69	6	
7	177	177	177	177	-1	33	11	9	8	6	8	6	6	6	6	6	1	
1 RT	3	120	211	211	211	23	15	12	12	12	12	12	12	12	12	12	1	
1	211	211	211	211	-1	19	21	17	15	14	13	13	12	12	12	12	1	
1 RT	3	140	146	146	146	26	23	19	17	16	14	13	12	12	12	12	1	
6	146	146	146	146	-1	28	26	22	18	16	15	15	15	15	15	15	2	
1 RT	3	160	105	105	105	30	26	22	19	16	14	14	12	12	12	12	2	
5	105	105	105	105	-1	28	26	22	19	16	14	14	12	12	12	12	2	
1 RT	3	180	81	81	81	28	26	22	19	16	14	14	12	12	12	12	2	
1	81	81	81	81	-1	30	26	22	19	16	14	14	12	12	12	12	2	
1 RT	3	200	69	69	69	28	26	22	19	16	14	14	12	12	12	12	2	
9	69	69	69	69	-1	28	26	22	19	16	14	14	12	12	12	12	2	
1 RT	4	20	31	31	32	27	29	28	26	20	17	17	14	14	14	14	2	
3	15	15	16	16	-1	27	29	28	26	20	17	17	14	14	14	14	2	
1 RT	4	25	25	24	24	30	29	28	28	26	23	23	21	22	23	25	2	
4	16	19	20	21	-1	31	33	31	29	26	23	23	21	22	23	25	2	
1 RT	4	30	20	19	17	31	33	31	29	26	23	23	21	22	23	25	2	
9	21	22	23	24	-1	27	34	30	28	28	28	28	26	26	26	26	3	
1 RT	4	35	28	28	27	27	34	30	28	28	28	28	26	26	26	26	3	
2	24	25	26	26	-1	29	45	40	35	33	33	33	31	32	32	32	4	
1 RT	4	40	33	32	31	29	45	40	35	33	33	33	31	32	32	32	4	
5	28	29	31	32	-1	29	45	40	35	33	33	33	31	32	32	32	4	
1 RT	4	45	37	36	33	27	45	40	35	33	33	33	31	32	32	32	4	
4	28	32	34	35	-1	29	45	40	35	33	33	33	31	32	32	32	4	
1 RT	4	50	34	33	32	27	45	40	35	33	33	33	31	32	32	32	4	
3	25	28	29	30	-1	29	45	40	35	33	33	33	31	32	32	32	4	
1 RT	4	55	30	29	28	27	45	40	35	33	33	33	31	32	32	32	4	
6	24	25	24	24	-1	29	45	40	35	33	33	33	31	32	32	32	4	
1 RT	4	60	32	32	32	30	45	40	35	33	33	33	31	32	32	32	4	
6	26	23	24	25	-1	31	45	40	35	33	33	33	31	32	32	32	4	
1 RT	4	65	30	30	31	31	45	40	35	33	33	33	31	32	32	32	4	
9	29	26	26	26	-1	27	45	40	35	33	33	33	31	32	32	32	4	
1 RT	4	70	28	28	28	27	45	40	35	33	33	33	31	32	32	32	4	
4	31	24	23	22	-1	29	45	40	35	33	33	33	31	32	32	32	4	
1 RT	4	75	29	29	29	29	45	40	35	33	33	33	31	32	32	32	4	
6	41	32	31	29	-1	35	45	40	35	33	33	33	31	32	32	32	4	
1 RT	4	80	37	37	36	35	45	40	35	33	33	33	31	32	32	32	4	
7	47	46	47	47	-1	42	41	41	41	43	46	50	55	43	46	50	54	5
1 RT	4	85	48	48	45	42	41	41	41	43	46	50	55	43	46	50	54	5
5	56	56	58	58	-1	81	76	77	77	77	95	114	103	91	90	90	87	8
1 RT	4	90	91	88	86	81	76	77	77	77	95	114	103	91	90	90	87	8
3	80	77	75	74	-1													

START
 COL

1	RT	4	95	83	82	80	78	75	76	76	85	95	89	83	83	83	81	7
9	RT	4	100	75	75	-1	75	75	75	75	75	75	75	75	75	75	75	7
5	RT	4	105	109	109	109	109	109	109	109	109	109	109	109	109	109	109	10
1	RT	4	110	143	143	143	143	143	143	143	143	143	143	143	143	143	143	14
3	RT	4	115	177	177	177	177	177	177	177	177	177	177	177	177	177	177	17
7	RT	4	120	211	211	211	211	211	211	211	211	211	211	211	211	211	211	21
1	RT	4	140	146	146	146	146	146	146	146	146	146	146	146	146	146	146	14
6	RT	4	160	105	105	105	105	105	105	105	105	105	105	105	105	105	105	10
5	RT	4	180	81	81	81	81	81	81	81	81	81	81	81	81	81	81	8
1	RT	4	200	69	69	69	69	69	69	69	69	69	69	69	69	69	69	6
9	RT	5	20	35	35	31	30	12	8	8	7	6	5	6	7	8	9	9
8	RT	5	25	35	34	31	27	18	15	15	13	11	13	11	10	10	10	1
0	RT	5	30	29	28	26	21	22	20	18	16	13	14	13	13	12	13	1
4	RT	5	35	36	35	32	28	24	23	23	19	15	17	17	15	14	14	1
5	RT	5	40	41	40	38	32	27	27	25	20	14	17	16	15	13	14	1
7	RT	5	45	44	43	41	35	30	27	24	19	16	18	17	17	15	15	1
6	RT	5	50	41	40	38	33	32	27	22	18	16	20	20	20	17	16	1
7	RT	5	55	31	31	32	31	35	31	25	19	17	22	22	22	19	20	1
9	RT	5	60	33	34	36	35	37	32	26	23	21	23	21	21	22	22	2
2	RT	5	65	45	45	46	43	42	37	32	28	26	39	32	29	31	31	2
6	RT	5	70	17	16	16	28	32	32	31	31	29	32	34	36	39	35	3
1	RT	5	75	28	28	29	29	35	37	37	35	34	36	35	42	49	46	4
1	RT	5	80	37	37	37	36	36	36	37	39	39	41	32	38	43	42	4
1	RT	5	85	47	47	47	45	43	41	41	48	50	55	43	47	51	51	5
1	RT	5	90	101	98	95	88	82	80	78	94	110	104	97	93	88	83	7
7	RT	5	95	88	87	85	82	78	78	77	85	93	89	86	84	82	79	7
1	RT	6	74	73	72	71	82	78	78	77	85	93	89	86	84	82	79	7

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DATASET: CWFJ412.GRAMDD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0	
1 RT	5	100	75	75	75	75	75	75	75	75	7
5	75	75	75	75	75	75	75	75	75	75	7
1 RT	5	105	109	109	109	109	109	109	109	109	10
5	109	109	109	109	109	109	109	109	109	109	10
1 RT	5	110	143	143	143	143	143	143	143	143	14
5	143	143	143	143	143	143	143	143	143	143	14
1 RT	5	115	177	177	177	177	177	177	177	177	17
5	177	177	177	177	177	177	177	177	177	177	17
1 RT	5	120	211	211	211	211	211	211	211	211	21
5	211	211	211	211	211	211	211	211	211	211	21
1 RT	5	140	146	146	146	146	146	146	146	146	14
5	146	146	146	146	146	146	146	146	146	146	14
1 RT	5	160	105	105	105	105	105	105	105	105	10
5	105	105	105	105	105	105	105	105	105	105	10
1 RT	5	180	81	81	81	81	81	81	81	81	8
5	81	81	81	81	81	81	81	81	81	81	8
1 RT	5	200	69	69	69	69	69	69	69	69	6
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1 RT	6	20	28	28	28	28	28	28	28	28	8
6	20	28	28	28	28	28	28	28	28	28	8
1 RT	6	25	37	36	34	30	21	16	13	12	9
6	25	37	36	34	30	21	16	13	12	10	9
1 RT	6	30	33	31	29	25	25	22	18	16	11
6	30	33	31	29	25	25	22	18	16	13	11
1 RT	6	35	38	37	36	32	27	25	21	19	13
6	35	38	37	36	32	27	25	21	19	17	13
1 RT	6	40	46	45	43	39	35	31	25	19	13
6	40	46	45	43	39	35	31	25	19	15	13
1 RT	6	45	46	45	45	42	40	34	26	18	16
6	45	46	45	45	42	40	34	26	18	14	15
1 RT	6	50	45	43	41	38	38	32	25	18	17
6	50	45	43	41	38	38	32	25	18	16	17
1 RT	6	55	38	38	37	34	37	31	26	18	21
6	55	38	38	37	34	37	31	26	18	16	21
1 RT	6	60	39	40	40	36	36	32	29	25	23
6	60	39	40	40	36	36	32	29	25	22	23
1 RT	6	65	39	39	39	36	36	32	29	27	27
6	65	39	39	39	36	36	32	29	27	25	27
1 RT	6	70	30	30	30	30	34	34	35	32	34
6	70	30	30	30	30	34	34	35	32	30	34
1 RT	6	75	32	32	33	33	36	37	38	36	38
6	75	32	32	33	33	36	37	38	36	33	38
1 RT	6	80	39	40	41	40	39	39	40	39	41
6	80	39	40	41	40	39	39	40	39	38	41
1 RT	6	85	51	52	52	49	45	44	44	47	54
6	85	51	51	52	49	45	44	44	44	47	54
1 RT	6	90	112	108	104	95	87	82	77	89	101
6	90	112	108	104	95	87	82	77	89	101	95
1 RT	6	95	93	92	90	85	81	78	76	82	88
6	95	93	92	90	85	81	78	76	82	88	85
1 RT	6	100	75	75	75	75	75	75	75	75	75
6	100	75	75	75	75	75	75	75	75	75	75
1 RT	5	75	75	75	75	75	75	75	75	75	7
5	75	75	75	75	75	75	75	75	75	75	7

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0
1 RT	7	110	143	143	143	143	143	143	143	143
3	143	143	143	143	143	143	143	143	143	14
1 RT	7	115	177	177	177	177	177	177	177	177
7	177	177	177	177	177	177	177	177	177	17
1 RT	7	120	211	211	211	211	211	211	211	211
1	211	211	211	211	211	211	211	211	211	21
1 RT	7	140	146	146	146	146	146	146	146	146
1	146	146	146	146	146	146	146	146	146	14
1 RT	7	160	105	105	105	105	105	105	105	105
1	105	105	105	105	105	105	105	105	105	10
1 RT	7	180	81	81	81	81	81	81	81	81
1	81	81	81	81	81	81	81	81	81	8
1 RT	7	200	69	69	69	69	69	69	69	69
1	69	69	69	69	69	69	69	69	69	6
1 RT	8	20	46	46	46	46	46	46	46	46
1	46	46	46	46	46	46	46	46	46	46
1 RT	8	25	52	51	46	41	27	18	11	11
1	52	51	46	41	27	18	11	11	11	11
1 RT	8	30	54	52	48	37	34	24	17	15
1	54	52	48	37	34	24	17	15	15	12
1 RT	8	35	57	55	51	43	35	28	22	20
1	57	55	51	43	35	28	22	20	20	20
1 RT	8	40	56	54	51	43	36	30	24	19
1	56	54	51	43	36	30	24	19	18	16
1 RT	8	45	57	54	50	42	35	28	22	18
1	57	54	50	42	35	28	22	18	17	16
1 RT	8	50	77	73	66	51	36	28	20	16
1	77	73	66	51	36	28	20	16	16	16
1 RT	8	55	83	80	74	59	42	34	25	17
1	83	80	74	59	42	34	25	17	15	18
1 RT	8	60	100	95	86	66	45	35	28	22
1	100	95	86	66	45	35	28	22	20	25
1 RT	8	65	36	37	38	39	41	39	37	31
1	36	37	38	39	41	39	37	31	27	29
1 RT	8	70	45	44	43	40	42	41	39	35
1	45	44	43	40	42	41	39	35	32	30
1 RT	8	75	53	52	51	47	47	46	41	38
1	53	52	51	47	46	41	38	39	37	32
1 RT	8	80	59	58	59	56	50	45	41	40
1	59	58	59	56	50	45	41	40	37	40
1 RT	8	85	60	60	61	59	54	49	47	48
1	60	60	61	59	54	49	47	48	47	52
1 RT	8	90	96	95	94	91	88	85	82	83
1	96	95	94	91	88	85	82	83	83	83
1 RT	8	95	85	85	85	83	82	80	78	79
1	85	85	85	83	82	80	78	79	79	78
1 RT	8	100	75	75	75	75	75	75	75	75
1	100	75	75	75	75	75	75	75	75	75
1 RT	8	105	109	109	109	109	109	109	109	109
1	105	109	109	109	109	109	109	109	109	109
1 RT	8	110	143	143	143	143	143	143	143	143
1	110	143	143	143	143	143	143	143	143	143
3	143	143	143	143	143	143	143	143	143	14

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DATASET: CWEJ412.GRAM090.DATA
MEMBER: SCIDAT9

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1 RT 9	120	211	211	211	211	211	211	211	211	211
1 1	211	211	211	211	211	211	211	211	211	211
1 RT 9	140	146	146	146	146	146	146	146	146	146
6 146	146	146	146	146	146	146	146	146	146	146
1 RT 9	160	105	105	105	105	105	105	105	105	105
5 105	105	105	105	105	105	105	105	105	105	105
1 RT 9	180	81	81	81	81	81	81	81	81	81
1 1	81	81	81	81	81	81	81	81	81	81
1 RT 9	200	69	69	69	69	69	69	69	69	69
9 69	69	69	69	69	69	69	69	69	69	69
1 RT 10	20	32	32	32	32	32	32	32	32	32
1 1	12	13	14	15	15	15	15	15	15	15
1 RT 10	25	26	25	26	26	26	26	26	26	26
4 16	18	19	19	19	19	19	19	19	19	19
1 RT 10	30	26	26	26	26	26	26	26	26	26
1 0	21	21	22	22	22	22	22	22	22	22
1 RT 10	35	24	24	24	24	24	24	24	24	24
3 26	28	29	29	29	29	29	29	29	29	29
1 RT 10	40	32	32	32	32	32	32	32	32	32
1 5	28	30	31	32	32	32	32	32	32	32
1 RT 10	45	37	36	34	36	36	36	36	36	36
5 29	32	34	34	36	36	36	36	36	36	36
1 RT 10	50	34	32	30	30	30	30	30	30	30
4 28	31	32	33	33	33	33	33	33	33	33
1 RT 10	55	29	29	28	28	28	28	28	28	28
8 29	28	28	28	28	28	28	28	28	28	28
1 RT 10	60	25	25	25	25	25	25	25	25	25
9 32	32	32	31	31	31	31	31	31	31	31
1 RT 10	65	25	25	26	26	26	26	26	26	26
3 33	31	30	30	30	30	30	30	30	30	30
1 RT 10	70	23	24	26	27	27	27	27	27	27
0 29	27	27	27	27	27	27	27	27	27	27
1 RT 10	75	33	34	34	34	34	34	34	34	34
7 35	29	29	29	29	29	29	29	29	29	29
1 RT 10	80	54	53	50	50	50	50	50	50	50
6 38	37	37	37	37	37	37	37	37	37	37
1 RT 10	85	65	64	60	60	60	60	60	60	60
3 45	46	48	48	48	48	48	48	48	48	48
1 RT 10	90	74	75	77	77	77	77	77	77	77
6 81	86	88	91	91	91	91	91	91	91	91
1 RT 10	95	75	75	76	76	76	76	76	76	76
5 78	80	82	83	83	83	83	83	83	83	83
1 RT 10	100	75	75	75	75	75	75	75	75	75
5 75	75	75	75	75	75	75	75	75	75	75
1 RT 10	105	109	109	109	109	109	109	109	109	109
9 109	109	109	109	109	109	109	109	109	109	109
1 RT 10	110	143	143	143	143	143	143	143	143	143
3 143	143	143	143	143	143	143	143	143	143	143
1 RT 10	115	177	177	177	177	177	177	177	177	177
7 177	177	177	177	177	177	177	177	177	177	177
1 RT 10	120	211	211	211	211	211	211	211	211	211
1 1	211	211	211	211	211	211	211	211	211	211

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10
1 RT	11	160	105	105	105	105	105	105	105	105
5	105	105	105	105	105	105	105	105	105	105
1 RT	11	180	81	81	81	81	81	81	81	81
1	81	81	81	81	81	81	81	81	81	81
1 RT	11	200	69	69	69	69	69	69	69	69
9	69	69	69	69	69	69	69	69	69	69
1 RT	12	20	26	26	26	23	21	9	7	5
0	28	28	25	25	25	23	21	9	7	5
1 RT	12	25	16	16	16	15	14	9	8	9
4	30	32	32	32	32	31	16	11	11	11
1 RT	12	30	20	19	18	16	16	14	13	14
9	33	34	33	33	33	31	16	14	13	14
1 RT	12	35	20	19	18	16	15	14	13	13
3	38	42	42	42	42	41	15	14	13	13
1 RT	12	40	19	19	17	15	18	17	16	15
9	44	47	46	46	46	46	18	17	16	15
1 RT	12	45	24	23	20	18	15	16	15	13
1	45	46	46	46	46	46	15	16	15	13
1 RT	12	50	14	14	14	15	17	16	16	15
7	40	41	42	43	43	41	17	20	20	19
1 RT	12	55	13	13	14	14	17	24	23	23
9	42	41	40	40	40	41	17	24	23	23
1 RT	12	60	11	12	13	13	21	26	26	27
3	44	44	44	43	43	41	18	29	34	36
1 RT	12	65	18	18	19	19	18	29	34	36
3	43	44	43	44	44	44	18	29	34	36
1 RT	12	70	11	13	14	14	24	43	46	46
7	37	37	36	36	36	36	24	43	46	46
1 RT	12	75	13	15	18	18	32	36	40	44
8	38	38	37	37	37	37	32	36	40	44
1 RT	12	80	22	24	27	27	42	44	47	50
3	44	44	45	45	45	45	42	44	47	50
1 RT	12	85	35	36	39	39	72	71	73	74
9	53	55	57	58	58	58	72	71	73	74
1 RT	12	90	74	73	73	73	109	109	109	109
7	95	104	108	112	112	112	109	109	109	109
1 RT	12	95	75	74	74	74	143	143	143	143
1	85	90	92	93	93	93	143	143	143	143
1 RT	12	100	75	75	75	75	177	177	177	177
5	75	75	75	75	75	75	177	177	177	177
1 RT	12	105	109	109	109	109	211	211	211	211
9	109	109	109	109	109	109	211	211	211	211
1 RT	12	110	143	143	143	143	211	211	211	211
3	143	143	143	143	143	143	211	211	211	211
1 RT	12	115	177	177	177	177	211	211	211	211
7	177	177	177	177	177	177	211	211	211	211
1 RT	12	120	211	211	211	211	211	211	211	211
1	211	211	211	211	211	211	211	211	211	211
1 RT	12	140	146	146	146	146	211	211	211	211
6	146	146	146	146	146	146	211	211	211	211
1 RT	12	160	105	105	105	105	105	105	105	105
5	105	105	105	105	105	105	105	105	105	105

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0
1	RU	1	120	520	520	520	520	520	520	62
0	570	520	520	520	520	520	520	520	520	62
1	RU	1	140	690	690	690	690	690	690	69
0	690	690	690	690	690	690	690	690	690	69
1	RU	1	160	870	870	870	870	870	870	87
0	870	870	870	870	870	870	870	870	870	87
1	RU	1	180	870	870	870	870	870	870	87
0	870	870	870	870	870	870	870	870	870	87
1	RU	1	200	870	870	870	870	870	870	87
0	870	870	870	870	870	870	870	870	870	87
1	RU	2	0	50	50	50	50	50	50	6
0	60	60	60	60	60	60	60	60	60	6
1	RU	2	5	90	90	90	90	90	90	12
0	115	110	105	100	100	100	100	100	100	12
1	RU	2	10	110	115	120	125	130	130	15
0	135	120	115	110	110	110	110	110	110	15
1	RU	2	15	60	65	70	85	100	100	10
0	105	110	110	110	110	110	110	110	110	10
1	RU	2	20	51	53	55	59	62	63	10
7	119	123	123	123	125	125	125	125	125	13
1	RU	2	25	46	45	42	40	39	38	13
9	152	153	154	156	156	156	156	156	156	17
1	RU	2	30	55	55	51	48	46	46	17
7	190	189	188	189	189	189	189	189	189	22
1	RU	2	35	62	60	57	56	56	56	22
6	226	218	212	209	209	209	209	209	209	28
1	RU	2	40	75	74	72	72	71	71	28
8	275	258	246	241	241	241	241	241	241	33
1	RU	2	45	78	79	79	84	88	88	33
1	318	303	293	289	289	289	289	289	289	35
1	RU	2	50	81	83	87	95	100	100	35
8	346	335	328	323	323	323	323	323	323	35
1	RU	2	55	93	97	105	116	122	122	35
5	357	364	363	362	362	362	362	362	362	32
1	RU	2	60	99	106	124	152	166	166	32
1	318	325	325	324	324	324	324	324	324	33
1	RU	2	65	103	112	131	161	179	179	33
3	314	307	306	303	303	303	303	303	303	35
1	RU	2	70	147	151	161	185	203	203	35
8	328	319	318	310	310	310	310	310	310	36
1	RU	2	75	228	234	243	264	296	296	36
8	373	393	402	406	406	406	406	406	406	37
1	RU	2	80	295	298	304	316	342	342	37
7	402	443	455	466	466	466	466	466	466	39
1	RU	2	85	337	341	346	387	439	439	39
6	411	438	444	452	452	452	452	452	452	62
1	RU	2	90	500	500	500	680	860	860	62
0	585	550	560	570	570	570	570	570	570	62
1	RU	2	95	515	515	515	645	775	775	59
5	568	540	545	550	550	550	550	550	550	59
1	RU	2	100	530	530	530	610	690	690	57
0	550	530	530	530	530	530	530	530	530	57

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0							
1	RU	3	90	500	500	610	720	770	820	805	790	775	760	660	560	560	56
0	545	530	535	540	-1												
1	RU	3	95	515	515	593	670	708	745	748	750	748	745	663	580	565	55
0	540	530	533	535	-1												
1	RU	3	100	530	530	575	620	645	670	690	710	720	730	665	600	570	54
0	535	530	530	530	-1												
1	RU	3	105	528	528	561	595	613	630	661	693	709	725	669	613	574	53
5	531	528	528	528	-1												
1	RU	3	110	525	525	548	570	580	590	633	675	698	720	673	625	578	53
0	528	525	525	525	-1												
1	RU	3	115	523	523	534	545	548	550	604	658	686	715	676	638	581	52
5	524	523	523	523	-1												
1	RU	3	120	520	520	520	520	515	510	575	640	675	710	680	650	585	52
0	520	520	520	520	-1												
1	RU	3	140	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1												
1	RU	3	160	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1												
1	RU	3	180	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1												
1	RU	3	200	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1												
1	RU	4	0	50	50	55	60	50	40	35	30	25	20	30	40	45	5
0	50	50	50	50	-1												
1	RU	4	5	90	95	105	110	90	70	60	50	50	50	65	80	95	11
0	105	100	100	100	-1												
1	RU	4	10	130	130	140	150	135	120	90	60	65	70	105	140	145	15
0	130	110	100	90	-1												
1	RU	4	15	80	85	95	100	105	110	90	70	70	70	90	110	100	9
0	90	90	95	100	-1												
1	RU	4	20	68	68	79	73	63	64	66	89	83	75	70	63	63	6
7	76	76	72	70	-1												
1	RU	4	25	82	81	77	69	60	59	77	113	116	92	75	58	54	5
6	60	56	53	54	-1												
1	RU	4	30	101	96	83	84	84	79	95	129	128	106	95	84	80	8
2	83	76	73	73	-1												
1	RU	4	35	102	104	113	114	124	127	126	154	152	125	133	118	120	12
1	112	96	89	86	-1												
1	RU	4	40	101	105	126	135	154	159	145	159	149	139	155	139	141	14
4	134	119	109	105	-1												
1	RU	4	45	103	110	143	163	181	183	162	170	159	162	171	157	160	16
3	152	135	126	122	-1												
1	RU	4	50	126	135	168	185	201	197	169	172	155	164	172	171	174	17
7	167	150	142	138	-1												
1	RU	4	55	156	162	204	208	217	210	186	195	180	186	187	190	190	19
1	181	168	162	158	-1												
1	RU	4	60	178	185	218	219	236	234	208	220	189	191	193	202	201	20
5	198	177	165	158	-1												
1	RU	4	65	189	196	242	256	273	271	226	224	204	220	217	229	220	21
8	210	193	185	180	-1												
1	RU	4	70	204	212	254	270	289	303	265	309	302	318	273	271	258	25
2	245	225	216	209	-1												

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10								
1	RU	5	60	285	283	272	254	245	253	230	226	238	225	217	167	151	143	13
8	131	133	137	139	-1													
1	RU	5	65	265	268	268	272	275	303	285	261	249	226	215	185	191	187	18
1	165	159	156	154	-1													
1	RU	5	70	230	238	249	275	285	341	320	298	315	298	295	237	223	219	20
9	193	192	194	192	-1													
1	RU	5	75	299	300	305	309	303	356	336	326	372	358	354	295	274	274	27
1	254	254	259	257	-1													
1	RU	5	80	361	354	348	323	299	314	342	344	345	339	363	390	354	330	31
2	312	306	302	301	-1													
1	RU	5	85	373	368	362	344	340	353	408	423	437	442	461	488	456	418	40
1	368	344	344	343	-1													
1	RU	5	90	540	535	530	545	560	560	560	660	760	775	790	805	820	770	72
0	610	500	500	500	-1													
1	RU	5	95	535	533	530	540	550	565	580	665	750	763	775	788	800	735	67
0	593	515	515	515	-1													
1	RU	5	100	530	530	530	535	540	570	600	670	740	750	760	770	780	700	62
0	575	530	530	530	-1													
1	RU	5	105	528	528	528	531	535	574	613	673	733	741	750	759	768	681	59
5	561	528	528	528	-1													
1	RU	5	110	525	525	525	528	530	578	625	675	725	733	740	748	755	663	57
0	548	525	525	525	-1													
1	RU	5	115	523	523	523	524	525	581	638	678	718	724	730	736	743	644	54
5	534	523	523	523	-1													
1	RU	5	120	520	520	520	520	520	585	650	680	710	715	720	725	730	625	52
0	520	520	520	520	-1													
1	RU	5	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1													
1	RU	5	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	5	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	5	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	6	0	60	60	60	65	70	60	50	35	20	20	20	30	40	45	5
0	45	40	40	40	-1													
1	RU	6	5	110	110	110	115	120	105	90	70	50	50	50	65	80	95	11
0	110	110	110	110	-1													
1	RU	6	10	100	105	110	130	150	150	150	115	80	70	60	85	110	125	14
0	130	120	115	110	-1													
1	RU	6	15	90	90	90	95	100	110	120	105	90	80	70	85	100	95	9
0	75	60	55	50	-1													
1	RU	6	20	94	92	89	91	97	84	70	74	94	80	62	58	53	48	4
4	39	36	33	30	-1													
1	RU	6	25	103	109	118	134	149	146	123	105	102	104	91	69	47	33	2
5	25	26	27	27	-1													
1	RU	6	30	145	145	144	144	159	160	128	123	136	129	96	79	64	47	3
6	31	26	24	24	-1													
1	RU	6	35	160	161	168	178	190	203	177	151	147	130	102	105	75	66	5
7	50	49	50	50	-1													
1	RU	6	40	186	188	196	203	208	233	210	183	178	157	139	138	90	78	6
6	61	65	67	67	-1													

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0									
1	RU	7	30	199	198	194	185	163	176	135	129	143	130	101	71	50	33	2	
7	24	21	21	22	-1														
1	RU	7	35	240	239	233	220	228	219	178	158	158	133	108	102	65	51	4	
5	43	55	62	65	-1														
1	RU	7	40	243	248	252	257	278	273	218	181	163	147	141	133	82	69	6	
4	60	76	89	93	-1														
1	RU	7	45	267	277	288	307	341	330	264	223	197	185	187	153	99	84	7	
4	66	80	92	95	-1														
1	RU	7	50	305	317	328	347	380	363	296	254	225	223	227	165	102	88	7	
8	73	91	103	105	-1														
1	RU	7	55	394	390	369	331	380	369	311	263	230	212	223	164	120	102	9	
1	84	99	108	109	-1														
1	RU	7	60	372	364	342	300	338	344	312	270	240	234	263	203	162	128	10	
5	90	116	135	140	-1														
1	RU	7	65	336	334	320	303	356	374	343	288	250	213	217	205	209	192	17	
7	148	148	146	143	-1														
1	RU	7	70	348	346	322	290	356	398	375	334	328	302	292	250	214	184	17	
3	159	192	213	216	-1														
1	RU	7	75	469	455	417	344	369	392	353	342	375	359	352	324	294	272	26	
9	252	280	301	304	-1														
1	RU	7	80	564	539	486	380	378	391	330	340	350	349	384	424	374	348	35	
5	344	346	349	348	-1														
1	RU	7	85	526	508	491	423	397	417	366	404	443	458	500	554	495	458	46	
1	440	420	415	410	-1														
1	RU	7	90	870	840	810	720	630	585	540	650	760	790	820	910	1000	955	91	
0	835	760	730	700	-1														
1	RU	7	95	700	685	670	638	605	585	565	658	750	775	800	860	920	868	81	
5	730	645	630	615	-1														
1	RU	7	100	530	530	530	555	580	585	590	665	740	760	780	810	840	780	72	
0	625	530	530	530	-1														
1	RU	7	105	528	528	528	559	590	596	603	669	735	751	768	783	798	734	67	
0	599	528	528	528	-1														
1	RU	7	110	525	525	525	563	600	608	615	673	730	743	755	755	755	688	62	
0	573	525	525	525	-1														
1	RU	7	115	523	523	523	566	610	619	628	676	725	734	743	728	713	641	57	
0	546	523	523	523	-1														
1	RU	7	120	520	520	520	570	620	630	640	680	720	725	730	700	670	595	52	
0	520	520	520	520	-1														
1	RU	7	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69	
0	690	690	690	690	-1														
1	RU	7	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87	
0	870	870	870	870	-1														
1	RU	7	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87	
0	870	870	870	870	-1														
1	RU	7	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87	
0	870	870	870	870	-1														
1	RU	8	0	60	60	60	60	60	60	55	50	35	20	20	20	25	30	40	5
0	50	50	50	50	-1														
1	RU	8	5	100	105	110	115	120	110	100	80	60	55	50	50	50	65	8	8
0	85	90	90	90	-1														
1	RU	8	10	110	115	120	135	150	155	160	120	80	70	60	70	80	105	13	13
0	125	120	115	110	-1														

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RU	10	115	523	523	523	519	515	605	695	710	725	725	725	663	600	558	51
5	519	523	523	523	-1													
1	RU	10	120	520	520	520	520	520	615	710	715	720	720	720	660	600	560	52
0	520	520	520	520	-1													
1	RU	10	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1													
1	RU	10	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	10	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	10	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	11	0	50	50	50	50	50	45	40	30	20	25	30	40	50	55	6
0	60	60	60	60	-1													
1	RU	11	5	90	95	100	105	110	90	70	60	50	50	50	65	80	95	11
0	110	110	105	100	-1													
1	RU	11	10	90	100	110	130	150	135	120	90	60	65	70	100	130	140	15
0	135	120	110	100	-1													
1	RU	11	15	50	55	60	75	90	95	100	90	80	80	80	95	110	105	10
0	90	80	80	80	-1													
1	RU	11	20	48	51	70	73	77	61	52	54	73	75	72	63	61	66	7
1	75	76	76	76	-1													
1	RU	11	25	45	44	53	48	46	40	42	66	104	113	90	76	67	74	8
5	95	104	109	112	-1													
1	RU	11	30	49	50	62	62	63	60	64	84	116	136	120	113	109	116	12
5	124	123	121	120	-1													
1	RU	11	35	85	85	85	87	91	85	86	93	119	134	127	172	176	175	16
8	161	158	158	158	-1													
1	RU	11	40	100	99	98	95	94	92	101	108	141	142	143	188	166	181	18
7	184	193	200	203	-1													
1	RU	11	45	130	128	127	120	114	112	120	128	164	173	181	211	187	205	21
5	214	231	242	247	-1													
1	RU	11	50	147	143	139	128	120	118	124	136	178	176	180	218	213	236	24
6	232	237	239	239	-1													
1	RU	11	55	193	187	177	151	131	131	136	144	188	199	211	233	231	246	26
0	258	280	291	294	-1													
1	RU	11	60	152	151	146	144	154	147	159	166	214	220	224	240	248	255	26
8	270	293	307	310	-1													
1	RU	11	65	166	169	171	177	196	192	200	179	209	219	234	273	302	300	30
4	290	290	293	290	-1													
1	RU	11	70	207	210	210	214	233	226	241	222	284	286	289	327	344	332	33
4	305	285	278	271	-1													
1	RU	11	75	262	266	269	280	301	286	299	273	344	347	346	362	357	346	35
4	348	346	343	342	-1													
1	RU	11	80	313	314	318	323	327	324	333	335	336	340	374	401	358	357	36
3	373	387	386	391	-1													
1	RU	11	85	338	342	352	391	416	425	447	447	448	452	478	491	412	406	39
8	392	394	391	394	-1													
1	RU	11	90	500	500	500	610	720	770	820	805	790	775	760	660	560	560	56
0	545	530	535	540	-1													
1	RU	11	95	515	515	515	593	670	735	800	788	775	763	750	665	580	565	55
0	540	530	533	535	-1													

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START COL	1	2	3	4	5	6	7	8	9	+	0							
1	RU	12	85	357	358	355	380	437	456	497	491	485	476	513	522	418	383	42
6	459	460	452	454	-1													
1	RU	12	90	500	500	500	680	860	905	950	880	810	785	760	650	540	580	62
0	585	550	555	560	-1													
1	RU	12	95	515	515	515	645	775	840	905	848	790	770	750	658	565	580	59
5	568	540	543	545	-1													
1	RU	12	100	530	530	530	610	690	775	860	815	770	755	740	665	590	580	57
0	550	530	530	530	-1													
1	RU	12	105	528	528	528	588	648	743	838	799	760	748	735	669	603	580	55
8	543	528	528	528	-1													
1	RU	12	110	525	525	525	565	605	710	815	783	750	740	730	673	615	580	54
5	535	525	525	525	-1													
1	RU	12	115	523	523	523	543	563	678	793	766	740	733	725	676	628	580	53
3	528	523	523	523	-1													
1	RU	12	120	520	520	520	520	520	645	770	750	730	725	720	680	640	580	52
0	520	520	520	520	-1													
1	RU	12	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1													
1	RU	12	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	12	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	12	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	1	0	40	40	40	45	50	40	30	25	20	25	30	40	50	55	6
0	55	50	50	50	-1													
1	RV	1	5	80	80	80	80	80	80	65	50	45	40	40	65	90	105	12
0	115	110	110	110	-1													
1	RV	1	10	110	115	120	130	140	105	70	55	40	55	70	105	140	145	15
0	135	120	115	110	-1													
1	RV	1	15	50	55	60	75	90	80	70	60	50	60	70	85	100	100	10
0	105	110	110	110	-1													
1	RV	1	20	33	35	38	40	39	35	30	30	37	39	36	35	38	55	8
2	111	128	132	135	-1													
1	RV	1	25	25	24	24	24	20	21	24	28	36	30	23	27	37	64	10
1	139	160	166	169	-1													
1	RV	1	30	23	23	23	24	21	23	26	31	39	38	37	43	58	94	13
8	176	192	194	195	-1													
1	RV	1	35	28	30	32	34	33	36	39	45	56	61	60	63	80	115	15
9	211	245	299	320	-1													
1	RV	1	40	35	36	37	42	43	45	46	53	63	69	71	73	95	138	19
0	253	299	377	408	-1													
1	RV	1	45	44	43	42	50	56	57	58	64	75	88	96	99	121	164	21
4	284	342	427	461	-1													
1	RV	1	50	53	52	49	54	56	59	63	73	89	104	117	118	137	184	23
8	304	365	455	491	-1													
1	RV	1	55	66	67	64	67	70	76	83	96	115	121	122	119	135	178	22
6	289	354	461	502	-1													
1	RV	1	60	80	84	89	100	104	105	109	128	151	142	132	132	147	178	21
5	265	317	427	468	-1													
1	RV	1	65	82	89	103	120	127	134	138	143	155	155	153	156	175	213	25
2	284	315	416	451	-1													

START COL	1	2	3	4	5	6	7	8	9	0								
1	RV	1	70	70	88	109	138	157	164	176	162	164	152	150	144	160	195	23
2	287	344	508	568	-1													
1	RV	1	75	284	284	282	275	261	230	202	212	242	254	239	241	269	284	30
0	308	314	467	514	-1													
1	RV	1	80	254	260	258	269	285	282	290	278	256	299	271	264	280	320	36
5	391	423	581	636	-1													
1	RV	1	85	312	314	299	307	331	337	360	372	369	439	388	356	358	393	43
9	471	511	663	715	-1													
1	RV	1	90	720	760	800	905	1010	975	940	845	750	770	790	985	1180	1195	121
0	1180	1150	1135	1120	-1													
1	RV	1	95	625	645	665	778	890	883	875	808	740	755	770	935	1100	1070	104
0	940	840	833	825	-1													
1	RV	1	100	530	530	530	650	770	790	810	770	730	740	750	885	1020	945	87
0	700	530	530	530	-1													
1	RV	1	105	528	528	528	618	708	741	775	750	725	734	743	860	978	880	78
3	655	528	528	528	-1													
1	RV	1	110	525	525	525	585	645	693	740	730	720	728	735	835	935	815	69
5	610	525	525	525	-1													
1	RV	1	115	523	523	523	553	583	644	705	710	715	721	728	810	893	750	60
8	565	523	523	523	-1													
1	RV	1	120	520	520	520	520	520	595	670	690	710	715	720	785	850	685	52
0	520	520	520	520	-1													
1	RV	1	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1													
1	RV	1	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	1	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	1	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	2	0	40	40	40	40	40	35	30	25	20	20	20	40	60	55	5
0	55	60	60	60	-1													
1	RV	2	5	80	80	80	85	90	70	50	45	40	40	40	65	90	105	12
0	115	110	110	110	-1													
1	RV	2	10	110	115	120	130	140	110	80	65	50	60	70	110	150	145	14
0	130	120	120	120	-1													
1	RV	2	15	50	60	70	85	100	85	70	60	50	60	70	90	110	100	9
0	100	110	115	120	-1													
1	RV	2	20	40	40	40	41	41	36	30	31	38	36	32	33	38	49	6
9	105	130	140	145	-1													
1	RV	2	25	26	26	26	25	22	21	21	25	32	31	30	27	30	58	9
6	127	136	147	151	-1													
1	RV	2	30	26	26	26	25	23	25	28	34	44	44	40	42	50	82	12
6	171	188	197	202	-1													
1	RV	2	35	37	36	36	37	39	40	43	47	56	62	61	57	66	101	14
5	192	223	288	312	-1													
1	RV	2	40	39	40	40	43	45	46	48	52	62	66	68	69	88	125	16
9	214	249	325	353	-1													
1	RV	2	45	51	52	51	55	59	60	63	66	76	84	84	87	107	145	18
8	235	277	354	384	-1													
1	RV	2	50	64	62	58	61	63	68	73	77	87	86	80	100	141	201	25
2	284	310	372	395	-1													

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START COL	1	2	3	4	5	6	7	8	9	0								
1	RV	2	55	78	77	72	77	83	85	88	91	100	110	116	113	125	159	19
3	232	281	362	392	-1													
1	RV	2	60	100	99	96	105	110	107	105	112	124	125	118	119	133	161	19
2	222	259	337	366	-1													
1	RV	2	65	100	101	101	117	128	132	132	131	139	147	147	150	165	199	23
5	262	299	383	414	-1													
1	RV	2	70	118	124	116	139	158	160	167	150	150	151	147	143	156	186	21
8	259	320	450	500	-1													
1	RV	2	75	317	305	273	265	256	222	191	199	227	253	237	234	253	269	28
7	287	306	428	467	-1													
1	RV	2	80	302	295	259	273	288	281	283	265	250	300	280	268	279	319	35
9	367	407	540	586	-1													
1	RV	2	85	357	342	287	307	332	336	352	361	366	442	400	362	355	391	42
4	393	391	529	577	-1													
1	RV	2	90	490	495	500	750	1000	960	920	835	750	765	780	955	1130	1155	118
0	875	570	565	560	-1													
1	RV	2	95	510	513	515	698	880	883	885	880	875	790	705	745	785	830	87
5	713	550	548	545	-1													
1	RV	2	100	530	530	530	645	760	805	850	925	1000	815	630	535	440	505	57
0	550	530	530	530	-1													
1	RV	2	105	528	528	528	614	700	765	830	903	975	786	598	535	473	515	55
8	543	528	528	528	-1													
1	RV	2	110	525	525	525	583	640	725	810	880	950	758	565	535	505	525	54
5	535	525	525	525	-1													
1	RV	2	115	523	523	523	551	580	685	790	858	925	729	533	535	538	535	53
3	528	523	523	523	-1													
1	RV	2	120	520	520	520	520	520	645	770	835	900	700	500	535	570	545	52
0	520	520	520	520	-1													
1	RV	2	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1													
1	RV	2	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	2	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	2	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	3	0	50	50	50	50	50	40	30	25	20	25	30	40	50	55	6
0	55	50	50	50	-1													
1	RV	3	5	90	90	90	95	100	80	60	45	30	35	40	65	90	100	11
0	110	110	110	110	-1													
1	RV	3	10	100	110	120	140	160	125	90	65	40	55	70	105	140	140	14
0	125	110	105	100	-1													
1	RV	3	15	60	65	70	85	100	90	80	65	50	60	70	85	100	95	9
0	95	100	100	100	-1													
1	RV	3	20	53	53	48	47	47	38	30	31	38	36	32	33	37	46	6
2	85	106	117	123	-1													
1	RV	3	25	42	42	37	34	29	25	24	26	35	34	32	26	25	39	6
5	107	146	168	177	-1													
1	RV	3	30	51	50	45	39	31	32	35	34	41	39	39	34	36	51	7
6	119	157	178	189	-1													
1	RV	3	35	71	67	56	52	48	44	44	42	54	54	58	54	59	74	9
9	135	168	209	225	-1													

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MEMBER: SCIDAT9

START COL 1 2 3 4 5 6 7 8 9 10

1	RV	4	25	102	98	87	66	43	29	22	28	40	35	28	26	27	28	3
4	46	51	53	54	-1	-1	72	54	41	32	33	40	40	37	36	36	38	4
1	RV	4	30	107	102	90	89	71	57	46	44	49	58	58	51	48	54	6
5	56	62	65	67	-1	-1	101	84	64	50	50	56	62	56	53	56	62	7
1	RV	4	35	122	117	107	101	84	64	50	50	56	62	56	53	56	62	7
2	70	73	85	90	-1	-1	114	95	72	60	63	73	78	73	67	66	70	7
1	RV	4	40	136	131	119	114	95	72	60	63	73	78	73	67	66	70	7
2	83	91	112	121	-1	-1	128	106	84	71	71	79	88	89	76	67	71	8
1	RV	4	45	166	158	138	128	106	84	71	71	79	88	89	76	67	71	8
7	85	90	106	112	-1	-1	145	126	104	93	94	104	112	109	96	87	95	10
1	RV	4	50	185	176	153	145	126	104	93	94	104	112	109	96	87	95	10
1	RV	4	55	192	186	167	154	134	114	101	106	119	116	106	97	93	99	10
8	116	122	139	144	-1	-1	165	153	136	126	127	139	141	134	122	117	121	13
1	RV	4	60	203	195	178	169	166	145	129	125	140	145	141	124	121	134	15
8	114	115	127	131	-1	-1	237	226	207	192	196	222	246	225	195	185	196	21
1	RV	4	65	206	199	181	237	226	207	192	196	222	246	225	195	185	196	21
0	141	149	168	174	-1	-1	316	305	288	277	260	246	294	267	262	274	284	30
1	RV	4	70	213	205	179	316	305	288	277	260	246	294	267	262	274	284	30
2	163	176	203	211	-1	-1	344	363	360	365	361	359	434	385	357	357	357	36
1	RV	4	75	308	293	259	344	363	360	365	361	359	434	385	357	357	357	36
4	234	261	295	310	-1	-1	745	950	860	770	745	720	720	720	745	770	860	95
1	RV	4	80	381	368	333	745	950	860	770	745	720	720	720	745	770	860	95
7	321	334	366	379	-1	-1	630	725	728	730	723	715	715	715	735	755	800	84
1	RV	4	85	389	374	337	630	725	728	730	723	715	715	715	735	755	800	84
8	354	336	383	400	-1	-1	515	500	595	690	700	710	710	710	725	740	740	74
1	RV	4	90	540	540	540	515	500	595	690	700	710	710	710	725	740	740	74
0	745	540	540	540	-1	-1	516	505	586	668	688	708	708	708	720	733	709	68
1	RV	4	95	535	535	535	516	505	586	668	688	708	708	708	720	733	709	68
5	690	535	535	535	-1	-1	518	510	578	645	675	705	705	705	715	725	678	63
1	RV	4	100	530	530	530	518	510	578	645	675	705	705	705	715	725	678	63
0	635	530	530	530	-1	-1	519	515	569	623	663	703	703	703	710	718	646	57
1	RV	4	105	528	528	528	519	515	569	623	663	703	703	703	710	718	646	57
5	606	528	528	528	-1	-1	520	520	560	600	650	700	700	700	705	710	615	52
1	RV	4	110	525	525	525	520	520	560	600	650	700	700	700	705	710	615	52
0	578	525	525	525	-1	-1	690	690	690	690	690	690	690	690	690	690	690	69
1	RV	4	115	523	523	523	690	690	690	690	690	690	690	690	690	690	690	69
5	549	523	523	523	-1	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	4	120	520	520	520	870	870	870	870	870	870	870	870	870	870	870	87
0	520	520	520	520	-1	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	4	140	690	690	690	870	870	870	870	870	870	870	870	870	870	870	87
0	690	690	690	690	-1	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	4	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	4	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	4	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1	-1	60	60	55	50	35	20	20	20	30	40	50	6
1	RV	5	0	50	55	60	60	60	55	50	35	20	20	20	30	40	50	6
0	55	50	50	50	-1	-1	115	120	100	80	60	40	40	40	55	70	90	11
1	RV	5	5	110	110	110	115	120	100	80	60	40	40	40	55	70	90	11
0	105	100	95	90	-1	-1												

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0
1 RV	5	200	870	870	870	870	870	870	870	87
0	870	870	870	870	870	870	870	870	870	87
1 RV	6	0	60	60	60	60	60	60	60	5
0	50	50	45	40	40	40	40	40	40	5
1 RV	6	5	110	110	110	110	110	110	110	9
0	90	90	90	90	90	90	90	90	90	9
1 RV	6	10	100	110	120	135	150	170	200	14
0	130	120	115	110	110	100	100	100	100	14
1 RV	6	15	100	100	100	100	100	100	100	8
0	70	60	60	60	60	60	60	60	60	8
1 RV	6	20	99	96	90	82	69	53	34	3
5	33	31	32	32	32	32	32	32	32	3
1 RV	6	25	96	97	100	103	102	89	72	1
9	18	16	16	16	16	16	16	16	16	1
1 RV	6	30	185	178	164	137	110	75	49	2
2	20	18	17	17	17	167	138	103	75	2
1 RV	6	35	221	213	195	167	138	103	75	3
9	35	34	41	44	44	196	165	130	98	3
1 RV	6	40	261	251	229	207	176	144	112	4
3	39	40	49	50	50	224	199	169	132	4
1 RV	6	45	279	269	245	224	199	169	132	5
3	47	45	57	60	60	216	195	172	142	5
1 RV	6	50	275	270	254	224	199	169	132	6
5	59	58	72	74	74	216	195	172	142	6
1 RV	6	55	275	267	250	216	195	172	142	7
0	67	70	91	98	98	216	195	172	142	7
1 RV	6	60	261	255	242	216	195	172	142	9
5	87	88	111	119	119	258	256	227	181	9
1 RV	6	65	292	286	279	258	256	227	181	11
5	102	96	111	116	116	230	217	196	162	11
1 RV	6	70	314	301	280	230	217	196	162	15
6	130	114	135	133	133	259	287	278	258	15
1 RV	6	75	275	274	267	259	287	278	258	25
6	258	272	309	323	323	353	346	310	272	25
1 RV	6	80	390	384	373	353	346	310	272	29
0	268	265	291	295	295	383	417	382	350	29
1 RV	6	85	372	369	361	383	417	382	350	33
1	302	298	331	338	338	870	1180	1155	1130	33
1 RV	6	90	570	565	560	870	1180	1155	1130	100
0	750	500	495	490	490	780	1015	1038	1060	100
1 RV	6	95	550	548	545	780	1015	1038	1060	88
0	698	515	513	510	510	690	850	920	990	88
1 RV	6	100	530	530	530	690	850	920	990	76
0	645	530	530	530	530	648	768	860	953	76
1 RV	6	105	528	528	528	648	768	860	953	70
0	614	528	528	528	528	605	685	800	915	70
1 RV	6	110	525	525	525	605	685	800	915	64
0	583	525	525	525	525	563	603	740	878	64
1 RV	6	115	523	523	523	563	603	740	878	58
0	551	523	523	523	523	520	520	680	840	58
1 RV	6	120	520	520	520	520	520	680	840	52
0	520	520	520	520	520	520	520	680	840	52

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RV	7	110	525	525	525	610	695	815	935	835	735	728	720	730	740	693	64
5	585	525	525	525	-1													
1	RV	7	115	523	523	523	565	608	750	893	810	728	721	715	710	705	644	58
3	553	523	523	523	-1													
1	RV	7	120	520	520	520	520	520	685	850	785	720	715	710	690	670	595	52
0	520	520	520	520	-1													
1	RV	7	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1													
1	RV	7	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	7	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	7	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	8	0	60	60	60	55	50	55	60	40	20	20	20	25	30	35	4
0	40	40	40	40	-1													
1	RV	8	5	110	110	110	115	120	105	90	65	40	40	40	45	50	70	9
0	85	80	80	80	-1													
1	RV	8	10	120	120	120	130	140	145	150	110	70	60	50	65	80	110	14
0	130	120	115	110	-1													
1	RV	8	15	120	115	110	100	90	100	110	90	70	60	50	60	70	85	10
0	85	70	60	50	-1													
1	RV	8	20	133	130	115	96	72	51	38	32	33	34	30	28	29	31	3
6	35	33	32	32	-1													
1	RV	8	25	153	148	129	114	97	58	29	26	29	29	26	23	21	20	1
9	20	19	20	20	-1													
1	RV	8	30	190	183	169	143	125	81	48	38	38	41	38	32	27	24	2
1	20	19	20	21	-1													
1	RV	8	35	250	238	207	174	143	100	65	54	55	63	58	47	42	39	3
6	32	33	61	70	-1													
1	RV	8	40	282	268	234	197	164	123	86	66	58	67	67	54	49	46	4
3	39	43	84	97	-1													
1	RV	8	45	319	304	267	219	180	142	105	84	77	85	80	68	64	61	5
7	51	55	95	108	-1													
1	RV	8	50	344	332	306	273	242	198	141	97	74	86	88	79	74	68	6
2	57	62	100	113	-1													
1	RV	8	55	321	303	257	211	184	157	127	112	113	110	98	92	88	85	8
1	73	75	103	112	-1													
1	RV	8	60	284	271	237	204	187	167	140	121	117	126	120	110	104	108	11
1	102	109	139	149	-1													
1	RV	8	65	329	314	280	250	231	204	172	153	148	150	136	131	132	133	12
9	115	115	140	147	-1													
1	RV	8	70	379	355	301	251	213	191	164	144	146	155	148	152	167	163	15
9	135	135	183	190	-1													
1	RV	8	75	351	338	294	281	282	273	260	234	232	254	226	201	192	225	25
8	262	291	363	389	-1													
1	RV	8	80	475	456	404	374	355	319	277	261	246	294	267	269	286	289	29
3	275	276	345	363	-1													
1	RV	8	85	450	435	394	400	420	388	353	357	357	433	382	355	353	345	33
6	310	304	388	412	-1													
1	RV	8	90	560	565	570	875	1180	1155	1130	955	780	765	750	835	920	960	100
0	750	500	495	490	-1													

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 MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RV	8	95	545	548	550	713	875	830	785	745	705	790	875	880	885	883	88
1	O	698	515	513	510	-1	550	570	505	440	535	630	815	1000	925	850	805	76
1	RV	8	100	530	530	530	543	558	515	473	535	598	786	975	903	830	765	70
1	O	645	530	530	530	-1	535	545	525	505	535	565	758	950	880	810	725	64
1	RV	8	110	525	525	525	528	533	535	538	535	533	729	925	858	790	685	58
1	O	583	525	525	525	-1	520	520	545	570	535	500	700	900	835	770	645	52
1	RV	8	120	520	520	520	690	690	690	690	690	690	690	690	690	690	690	69
1	O	520	520	520	520	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	8	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1	O	870	870	870	870	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	8	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1	O	870	870	870	870	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	8	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1	O	870	870	870	870	-1	55	60	55	50	40	30	25	20	25	30	40	5
1	RV	9	0	50	50	50	110	110	100	90	65	40	35	30	45	60	80	10
1	O	50	50	50	50	-1	125	140	140	140	105	70	55	40	65	90	125	16
1	RV	9	10	100	105	110	95	90	95	100	85	70	60	50	65	80	90	10
1	O	140	120	110	100	-1	96	75	52	38	32	32	34	30	29	29	35	4
1	RV	9	15	100	100	100	113	77	45	25	25	31	31	26	24	24	24	2
1	O	85	70	65	60	-1	122	90	56	35	32	38	35	29	31	34	31	2
1	RV	9	20	115	113	107	142	112	80	59	52	54	55	51	43	40	42	4
1	O	44	43	42	42	-1	152	124	92	68	59	59	61	60	49	49	49	5
1	RV	9	25	166	160	146	159	132	103	81	71	72	76	74	62	59	60	6
1	O	30	33	35	36	-1	164	139	110	88	81	84	83	75	65	63	65	6
1	RV	9	30	170	164	157	166	149	126	108	108	117	111	94	86	82	82	8
1	O	37	42	45	46	-1	167	152	135	120	112	113	112	101	91	87	93	10
1	RV	9	35	192	185	171	201	184	164	145	137	138	137	125	119	124	136	14
1	O	49	53	69	75	-1	223	190	166	146	134	141	152	146	138	149	152	15
1	RV	9	40	220	208	184	268	255	240	227	217	229	252	224	194	188	213	23
1	O	56	64	85	93	-1	279	279	330	315	330	315	330	315	330	315	330	-1
1	RV	9	45	232	221	194	330	315	330	315	330	315	330	315	330	315	330	-1
1	O	63	66	84	89	-1	330	315	330	315	330	315	330	315	330	315	330	-1
1	RV	9	50	234	222	194	330	315	330	315	330	315	330	315	330	315	330	-1
1	O	73	82	99	105	-1	330	315	330	315	330	315	330	315	330	315	330	-1
1	RV	9	55	224	214	187	330	315	330	315	330	315	330	315	330	315	330	-1
1	O	80	81	94	97	-1	330	315	330	315	330	315	330	315	330	315	330	-1
1	RV	9	60	220	210	186	330	315	330	315	330	315	330	315	330	315	330	-1
1	O	110	122	139	144	-1	330	315	330	315	330	315	330	315	330	315	330	-1
1	RV	9	65	253	243	220	330	315	330	315	330	315	330	315	330	315	330	-1
1	O	156	169	192	199	-1	330	315	330	315	330	315	330	315	330	315	330	-1
1	RV	9	70	304	290	257	330	315	330	315	330	315	330	315	330	315	330	-1
1	O	145	149	178	184	-1	330	315	330	315	330	315	330	315	330	315	330	-1
1	RV	9	75	321	311	279	330	315	330	315	330	315	330	315	330	315	330	-1
1	O	249	274	315	330	-1	330	315	330	315	330	315	330	315	330	315	330	-1

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RV	9	80	432	416	373	361	346	311	280	261	246	294	267	256	274	286	29
7	294	301	341	353	-1													
1	RV	9	85	435	419	370	392	408	376	355	357	356	432	379	346	347	348	35
0	328	318	371	389	-1													
1	RV	9	90	560	555	550	820	1090	1045	1000	880	760	745	730	795	860	920	98
0	745	510	510	510	-1													
1	RV	9	95	545	543	540	745	950	950	950	848	745	733	720	713	705	738	77
0	645	520	520	520	-1													
1	RV	9	100	530	530	530	670	810	855	900	815	730	720	710	630	550	555	56
0	545	530	530	530	-1													
1	RV	9	105	528	528	528	633	738	805	873	799	725	709	693	616	540	545	55
0	539	528	528	528	-1													
1	RV	9	110	525	525	525	595	665	755	845	783	720	698	675	603	530	535	54
0	533	525	525	525	-1													
1	RV	9	115	523	523	523	558	593	705	818	766	715	686	658	589	520	525	53
0	526	523	523	523	-1													
1	RV	9	120	520	520	520	520	520	655	790	750	710	675	640	575	510	515	52
0	520	520	520	520	-1													
1	RV	9	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1													
1	RV	9	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	9	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	9	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RV	10	0	50	50	50	55	60	55	50	35	20	20	20	30	40	50	6
0	55	50	50	50	-1													
1	RV	10	5	100	105	110	115	120	100	80	60	40	40	40	55	70	95	12
0	110	100	95	90	-1													
1	RV	10	10	90	100	110	135	160	145	130	95	60	55	50	80	110	135	16
0	140	120	110	100	-1													
1	RV	10	15	80	80	80	85	90	95	100	80	60	55	50	70	90	100	11
0	95	80	75	70	-1													
1	RV	10	20	93	91	89	78	60	43	36	32	32	34	31	31	35	42	5
2	60	65	67	68	-1													
1	RV	10	25	70	69	68	58	45	31	26	26	31	35	37	28	22	28	4
3	65	87	100	104	-1													
1	RV	10	30	68	71	80	64	56	40	35	36	41	40	36	33	33	41	5
4	74	91	100	104	-1													
1	RV	10	35	98	96	95	85	73	57	49	54	61	60	53	46	46	57	7
1	RV	10	40	119	116	107	93	80	65	57	55	58	63	65	53	52	65	8
3	104	124	153	164	-1													
1	RV	10	45	115	112	103	92	82	72	66	69	75	79	79	66	62	72	9
2	117	142	177	190	-1													
1	RV	10	50	138	132	116	100	84	72	67	77	92	89	82	74	73	83	10
3	129	156	189	200	-1													
1	RV	10	55	163	157	141	127	111	96	87	98	112	113	105	96	93	101	12
1	RV	10	60	157	152	135	124	110	102	96	101	109	118	119	107	100	111	12
9	158	182	214	227	-1													

START
COL

	1	2	3	4	5	6	7	8	9	0									
1	RV	10	65	195	188	167	150	132	120	126	138	143	141	128	125	134	14		
9	RV	10	169	186	216	226	-1	178	155	137	125	145	150	144	128	127	144	16	
2	RV	10	174	186	223	235	-1	249	217	200	188	200	228	250	226	199	207	22	
1	RV	10	75	335	320	283	249	217	200	188	200	228	250	226	199	207	22		
4	RV	10	245	264	307	325	-1	332	313	290	275	265	248	294	263	262	273	294	31
1	RV	10	80	414	399	356	332	313	290	275	265	248	294	263	262	273	294	31	
0	RV	10	317	334	378	394	-1	364	374	362	357	358	429	373	358	356	365	36	
1	RV	10	85	433	413	358	364	374	362	357	358	429	373	358	356	365	36		
8	RV	10	346	334	384	403	-1	745	950	860	770	745	720	720	745	770	860	95	
1	RV	10	90	540	540	540	745	950	860	770	745	720	720	720	745	770	860	95	
0	RV	10	745	540	540	540	745	950	860	770	745	720	720	720	745	770	860	95	
1	RV	10	95	535	535	535	690	845	800	755	735	715	715	715	723	730	728	72	
5	RV	10	630	535	535	535	690	845	800	755	735	715	715	715	723	730	728	72	
1	RV	10	100	530	530	530	635	740	740	740	740	725	710	710	700	690	595	50	
0	RV	10	515	530	530	530	635	740	740	740	740	725	710	710	700	690	595	50	
1	RV	10	105	528	528	528	606	685	709	733	720	708	708	708	688	668	586	50	
5	RV	10	516	528	528	528	606	685	709	733	720	708	708	708	688	668	586	50	
1	RV	10	110	525	525	525	578	630	678	725	715	705	705	705	675	645	578	51	
0	RV	10	518	525	525	525	578	630	678	725	715	705	705	705	675	645	578	51	
1	RV	10	115	523	523	523	549	575	646	718	710	703	703	703	663	623	569	51	
5	RV	10	519	523	523	523	549	575	646	718	710	703	703	703	663	623	569	51	
1	RV	10	120	520	520	520	520	520	615	710	705	700	700	700	650	600	560	52	
0	RV	10	520	520	520	520	520	520	615	710	705	700	700	700	650	600	560	52	
1	RV	10	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69	
0	RV	10	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69	
1	RV	10	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87	
0	RV	10	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87	
1	RV	10	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87	
0	RV	10	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87	
1	RV	10	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87	
0	RV	10	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87	
1	RV	11	0	50	50	50	55	60	50	40	30	20	20	20	35	50	55	6	
0	RV	11	60	60	55	50	55	60	50	40	30	20	20	20	35	50	55	6	
1	RV	11	5	90	95	100	105	110	90	70	55	40	40	40	60	80	100	12	
0	RV	11	115	110	110	110	105	110	90	70	55	40	40	40	60	80	100	12	
1	RV	11	10	90	100	110	130	150	130	110	80	50	55	60	90	120	140	16	
0	RV	11	140	120	115	110	130	150	130	110	80	50	55	60	90	120	140	16	
1	RV	11	15	50	55	60	75	90	95	100	80	60	60	60	80	100	100	10	
0	RV	11	95	90	90	90	75	90	95	100	80	60	60	60	80	100	100	10	
1	RV	11	20	72	72	62	55	49	38	33	30	31	33	30	31	36	46	5	
8	RV	11	75	90	93	94	55	49	38	33	30	31	33	30	31	36	46	5	
1	RV	11	25	54	52	43	36	28	21	19	22	28	30	29	28	30	42	6	
1	RV	11	89	114	126	133	36	28	21	19	22	28	30	29	28	30	42	6	
1	RV	11	30	51	51	43	38	32	27	26	36	50	50	35	35	43	58	8	
0	RV	11	115	142	151	155	38	32	27	26	36	50	50	35	35	43	58	8	
1	RV	11	35	78	73	60	55	51	46	46	46	52	63	70	62	54	58	74	10
0	RV	11	136	170	203	216	55	51	46	46	46	52	63	70	62	54	58	74	10
1	RV	11	40	91	85	69	61	53	48	48	48	51	58	65	68	62	70	85	11
0	RV	11	145	181	220	235	61	53	48	48	48	51	58	65	68	62	70	85	11
1	RV	11	45	93	88	73	67	60	58	57	76	102	115	87	76	86	103	12	
9	RV	11	165	202	239	254	67	60	58	57	76	102	115	87	76	86	103	12	

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RV 11	50	109	103	86	75	64	61	61	85	115	123	89	84	100	126	15	
8	RV 11	193	228	262	276	-1	92	83	76	73	98	130	143	111	103	114	139	17
1	RV 11	197	231	267	280	-1	108	95	92	91	120	154	164	115	109	130	158	18
1	RV 11	208	234	262	272	-1	121	116	118	118	120	130	141	133	137	158	189	21
1	RV 11	237	262	292	305	-1	162	155	153	152	140	142	153	146	137	150	173	19
1	RV 11	227	267	316	336	-1	265	238	214	192	197	220	253	236	220	232	247	26
1	RV 11	268	285	331	346	-1	304	301	287	279	265	249	297	272	265	280	310	35
1	RV 11	354	374	427	447	-1	336	354	350	352	360	360	435	386	360	356	379	41
1	RV 11	380	367	423	442	-1	750	980	920	860	795	730	745	760	880	1000	1045	109
1	RV 11	820	550	555	560	-1	695	865	848	830	778	725	738	750	850	950	950	95
1	RV 11	745	540	543	545	-1	640	750	775	800	760	720	730	740	820	900	855	81
1	RV 11	670	530	530	530	-1	610	693	740	788	751	715	724	733	803	873	805	73
1	RV 11	633	528	528	528	-1	580	635	705	775	743	710	718	725	785	845	755	66
1	RV 11	595	525	525	525	-1	550	578	670	763	734	705	711	718	768	818	705	59
1	RV 11	558	523	523	523	-1	520	520	635	750	725	700	705	710	750	790	655	52
1	RV 11	520	520	520	520	-1	690	690	690	690	690	690	690	690	690	690	690	69
1	RV 11	690	690	690	690	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV 11	160	870	870	870	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV 11	180	870	870	870	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV 11	200	870	870	870	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RV 12	0	40	45	50	-1	50	50	45	40	30	20	25	30	40	50	55	6
1	RV 12	5	90	90	90	-1	90	90	75	60	45	30	35	40	65	90	105	12
1	RV 12	10	110	110	110	-1	130	140	115	90	70	50	60	70	110	150	150	15
1	RV 12	15	120	110	100	-1	70	80	80	80	70	60	65	70	95	120	110	10
1	RV 12	20	46	46	41	-1	42	41	38	34	31	33	34	29	33	41	54	7
1	RV 12	25	26	27	25	-1	24	22	32	43	36	31	24	31	52	73	91	10
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1 P	13	35	571	696	838	459	613	722	788	362	520
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1 P	13	50	495	667	789	491	649	762	830	418	493
	545	577	588								
1 P	13	55	471	646	770	483	636	746	812	430	472
	502	520	526								
1 P	13	60	517	655	753	587	673	734	771	544	570
	588	600	604								
1 P	13	65	550	642	707	681	710	730	742	677	703
	722	733	737								
1 P	13	70	583	629	662	648	663	673	679	574	587
	597	602	604								
1 P	13	75	616	616	616	615	615	615	615	471	471
	471	471	471								
1 P	13	80	637	637	637	571	571	571	571	455	455
	455	455	455								
1 P	13	85	657	657	657	526	526	526	526	439	439
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1 P	13	90	678	678	678	482	482	482	482	422	422
	422	422	422								
1 P	13	100	719	719	719	393	393	393	393	390	390
	390	390	390								
1 P	13	120	599	599	599	328	328	328	328	325	325
	325	325	325								
1 P	13	140	479	479	479	262	262	262	262	260	260
	260	260	260								
1 P	13	160	360	360	360	197	197	197	197	195	195
	195	195	195								
1 P	13	180	240	240	240	131	131	131	131	130	130
	130	130	130								
1 P	13	200	120	120	120	66	66	66	66	65	65
	65	65	65								
1 PW	13	0	961	911	866	873	828	606	921	733	
1 PW	13	5	941	904	869	847	840	599	892	721	759
1 PW	13	10	922	897	873	857	852	591	864	748	785
1 PW	13	15	903	890	876	867	864	583	835	775	810
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MEMBER : SCIDAT9

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1 PW	13	40	794	854	896	921	930	930	328	550	706	944	974
1 PW	13	45	798	853	899	927	937	937	349	537	618	920	943
1 PW	13	50	768	831	876	903	912	912	339	489	650	856	889
1 PW	13	55	734	761	781	793	797	797	366	450	649	771	811
1 PW	13	60	721	686	662	647	642	642	469	550	674	749	773
1 PW	13	65	743	720	704	694	690	690	601	713	794	842	858
1 PW	13	70	765	753	745	740	739	739	694	750	790	814	822
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1 PW	13	80	760	760	760	760	760	760	760	760	760	760	760
1 PW	13	85	734	734	734	734	734	734	734	734	734	734	734
1 PW	13	90	707	707	707	707	707	707	707	707	707	707	707
1 PW	13	100	654	654	654	654	654	654	654	654	654	654	654
1 PW	13	120	615	615	615	615	615	615	615	615	615	615	615
1 PW	13	140	575	575	575	575	575	575	575	575	575	575	575
1 PW	13	160	536	536	536	536	536	536	536	536	536	536	536
1 PW	13	180	496	496	496	496	496	496	496	496	496	496	496
1 PW	13	200	457	457	457	457	457	457	457	457	457	457	457
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1 CS	13	10	-67	-26	-38	-44	-46	-46	56	-32	-93	-131	-144
1 CS	13	15	-74	-31	-33	-34	-34	-34	30	-34	-78	-106	-116
1 CS	13	20	-80	-36	-28	-24	-22	-22	4	-36	-64	-82	-88
1 CS	13	25	-86	-71	-60	-54	-52	-52	1	-73	-125	-157	-168

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1 CS	13	35	-113	-46	2	30	40	-75	-25	11	32	39
1 CS	13	40	-72	-8	37	65	75	-101	15	98	147	163
1 CS	13	45	-51	-9	22	40	46	-152	-8	95	157	177
1 CS	13	50	-107	-52	-12	10	18	-169	-38	55	111	129
1 CS	13	55	-213	-89	0	52	70	-183	-72	8	56	72
1 CS	13	60	-102	-108	-15	41	60	-173	-93	-37	-2	9
1 CS	13	65	-137	-77	15	68	87	-231	-56	68	143	168
1 CS	13	70	-143	-82	19	79	99	-256	-58	82	168	196
1 CS	13	75	-149	-86	24	89	112	-283	-61	97	193	225
1 CS	13	80	-155	-91	29	99	124	-309	-63	112	218	253
1 CS	13	85	-162	-96	34	110	136	-335	-65	126	243	281
1 CS	13	90	-168	-100	38	120	148	-361	-67	141	268	310
1 CS	13	100	-181	-109	48	140	172	-413	-72	170	318	366
1 CS	13	120	-181	-109	48	140	172	-413	-72	170	318	366
1 CS	13	140	-181	-109	48	140	172	-413	-72	170	318	366
1 CS	13	160	-181	-109	48	140	172	-413	-72	170	318	366
1 CS	13	180	-181	-109	48	140	172	-413	-72	170	318	366
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1 CL	13	0	308	-207	-576	-796	-869	23	145	235	289	309
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1 CL	13	40	96	-183	-382	-502	-542	-4	40	71	90	96
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1 CL	13	65	60	-138	-277	-361	-390	26	-94	-160	-200	-214
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1 CL	13	80	3	-122	-208	-261	-280	27	-144	-219	-265	-282
1 CL	13	85	-16	-117	-185	-227	-243	27	-160	-238	-287	-304
1 CL	13	90	-36	-111	-162	-194	-206	27	-177	-258	-309	-327
1 CL	13	100	-74	-101	-116	-127	-132	28	-210	-297	-352	-372
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1 CL	13	180	-74	-101	-116	-127	-132	28	-210	-297	-352	-372
1 CL	13	200	-74	-101	-116	-127	-132	28	-210	-297	-352	-372
1 QP	15	1	291	1	807	1	554	1	404	1	353	
1 QP	20	2	248	2	778	2	537	2	392	2	344	
1 QP	25	3	369	3	811	3	506	3	323	3	262	
1 QP	30	6	63	8	675	10	491	11	381	12	344	
1 QP	35	8	49	15	669	20	491	23	385	24	349	
1 QP	40	9	39	22	665	31	491	37	387	39	352	
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1 QP	70	11	689	21	497	28	360	33	277	34	250
1 QP	75	8	646	16	469	21	342	25	266	26	240
1 QP	80	5	603	10	441	14	325	16	254	17	231
1 QP	85	3	560	5	413	7	307	8	243	9	222
1 QP	90	0	517	0	384	0	289	0	231	0	212
1 QD	15	5	428	2	151	1	823	0	704	0	665
1 QD	20	10	368	5	95	1	770	1	653	1	614
1 QD	25	15	410	7	188	2	30	1	805	1	773
1 QD	30	6	287	5	807	4	557	4	407	3	357
1 QD	35	6	76	9	699	11	523	12	417	13	382
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1 QD	50	8	869	28	625	43	450	52	346	55	311
1 QD	55	8	842	26	589	38	408	46	299	48	263
1 QD	60	15	829	19	584	22	409	24	304	24	269
1 QD	65	13	704	16	466	18	296	20	194	20	160
1 QD	70	10	645	13	411	15	243	16	143	16	110
1 QD	75	8	585	10	355	11	191	12	92	12	59
1 QD	80	5	526	6	300	7	138	8	41	8	9
1 QD	85	3	466	3	244	4	85	4	860	4	828
1 QD	90	0	407	0	189	0	33	0	809	0	778
1 QT	15	4	10	3	695	2	563	2	483	2	457
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1 QT	40	1	810	9	603	16	455	19	367	21	337
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1 QT	50	1	784	2	492	3	283	4	157	4	115
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1 QT	65	5	822	5	476	4	228	4	80	4	29
1 QT	70	4	817	4	454	3	194	3	40	3	856
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1 QT	80	2	805	2	410	2	128	2	829	2	771
1 QT	85	1	799	1	388	1	94	1	788	1	728
1 QT	90	0	794	0	366	0	61	0	748	0	685
1 QU	15	42	655	25	586	14	537	6	507	4	497
1 QU	20	84	504	51	505	27	505	13	506	8	505
1 QU	25	126	325	76	390	41	436	19	463	12	472
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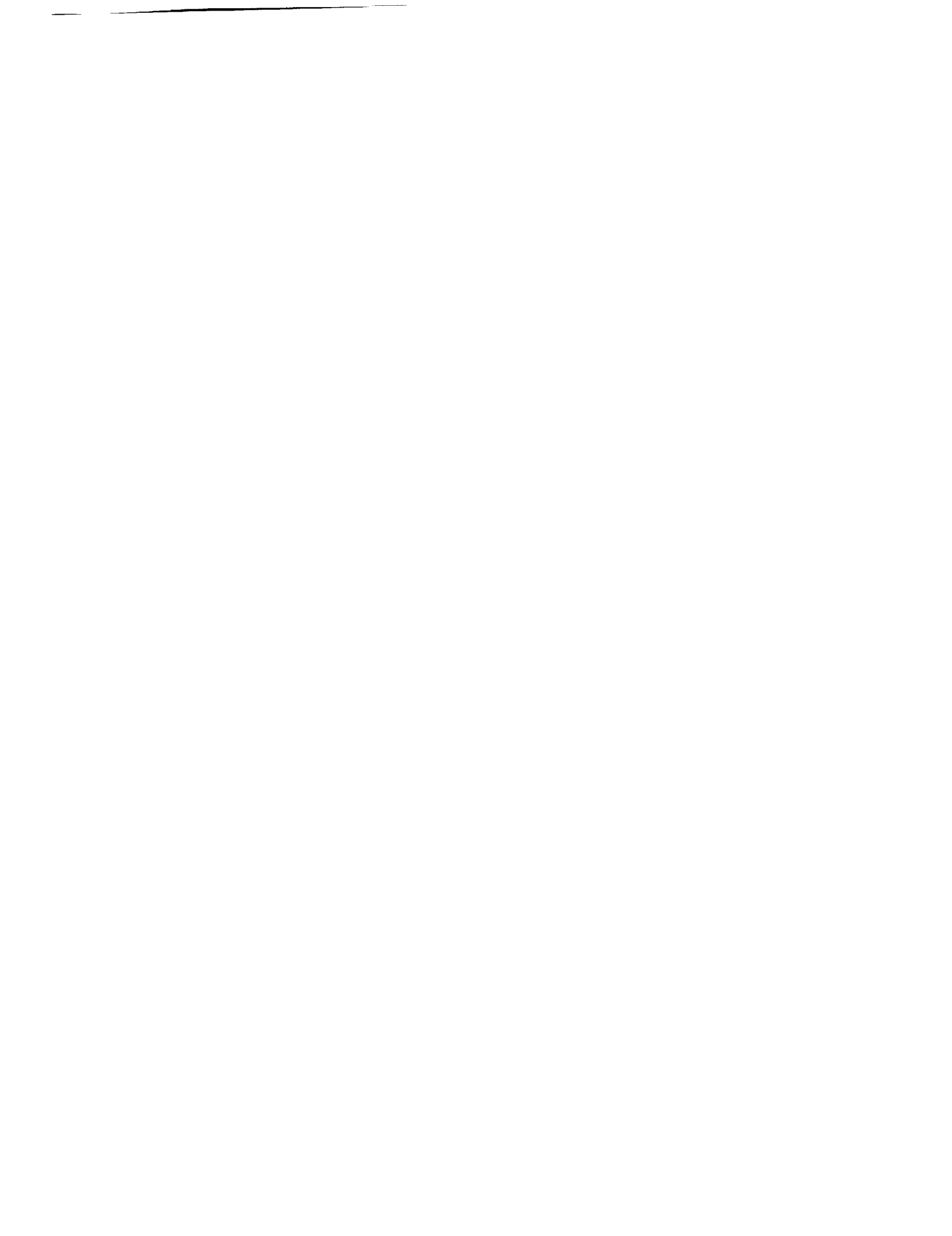
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1 QV	15	1	226	3	91	5	866	7	809	7	790
1 QV	20	1	264	6	140	11	53	13	0	14	853
1 QV	25	1	438	9	246	16	109	20	27	21	0
1 QV	30	1	404	9	270	15	175	19	117	20	98
1 QV	35	8	274	13	245	17	225	20	213	20	209
1 QV	40	6	174	16	238	22	284	26	312	28	321
1 QV	45	7	441	11	363	14	308	16	275	16	264
1 QV	50	1	544	19	453	31	389	39	350	41	337
1 QV	55	5	647	11	543	15	469	17	424	18	409
1 QV	60	4	571	9	533	13	507	15	491	15	485
1 QV	65	4	609	8	582	11	564	12	552	13	548
1 QV	70	3	648	6	632	9	621	10	614	10	611
1 QV	75	2	686	5	681	6	678	7	675	8	674
1 QV	80	1	724	3	730	4	734	5	737	5	737
1 QV	85	1	763	2	779	2	791	2	798	3	800
1 QV	90	0	801	0	828	0	848	0	859	0	863

7. REFERENCES

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Spiegler, D.B., and Fowler, M.G. (1972): "Four Dimensional World-Wide Atmospheric Model-Surface to 25-km Altitude," NASA Contractor Report 2082, July 1972.





Report Documentation Page

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7. Author(s) C.G. Justus, ¹ F.N. Alyea, ¹ D.M. Cunnold, ¹ W.R. Jeffries III, ² and D.L. Johnson ³			8. Performing Organization Report No.		
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			15. Supplementary Notes Prepared by Space Science Laboratory, Science and Engineering Directorate. ¹ Georgia Institute of Technology, Atlanta, GA ² New Technology, Inc., Huntsville, AL ³ Marshall Space Flight Center, AL		
16. Abstract A new (1990) version of the NASA/MSFC Global Reference Atmospheric Model (GRAM-90) has been completed and the program and key data base listings are presented in this document. GRAM-90 incorporates extensive new data, mostly collected under the Middle Atmosphere Program (MAP), to produce a completely revised middle atmosphere model (20–120 km). At altitudes greater than 120 km, GRAM-90 uses the NASA Marshall Engineering Thermosphere (MET) model. This report (part II) serves as a supplementary report to the technical document of GRAM-90 (part I). Complete listings of all program and major data bases are presented herein. Also, a test case example is included.					
17. Key Words (Suggested by Author(s)) Global Reference Atmosphere Model, Orbital Altitude Atmosphere Model, pressure, temperature, density, winds, atmospheric perturbations, upper atmosphere, program/data base listing			18. Distribution Statement Unclassified – Unlimited Subject Category: 47		
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