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10 ' ***** >LA
20 ' * * * * * >LB
30 ' * ETOILES * >LC
40 ' * ET * >LD
50 ' * CONSTELLATIONS * >LE
60 ' * * * * * >LF
70 ' * * * * * >LG
80 ' * * * * * >LH
90 ' * * * * * >LJ
100 ' * * * * * >RB
110 ' * * * * * >RC
120 ' * * * * * >RD
130 ' ***** >RE
170 CLS:MODE 2 >UH
180 PAPER 0:BORDER 0:INK 0,0 >WB
190 FOR i=0 TO 250:PLOT INT(RND(1)*640),INT(RND(1)*400) >HR
:NEXT i
200 LOCATE 22,3:PRINT"**** * * * * * >AD
****"
210 LOCATE 22,4:PRINT"* * * * * >YK
*"
220 LOCATE 22,5:PRINT"*** * * * * >ZE
****"
230 LOCATE 22,6:PRINT"* * * * * >YP
*"
240 LOCATE 22,7:PRINT"**** * * * * * >AB
****"
250 FOR i=1 TO 22:READ a,b:LOCATE a,b:PRINT CHR$(143):N >EY
EXT i
260 DATA 36,11,37,11,38,11,39,11,36,12,36,13,37,13,38,1 >FZ
3,36,14,36,15,37,15,38,15,39,15,42,11,43,11,44,11,45,11
,46,11,44,12,44,13,44,14,44,15
270 LOCATE 1,19:PRINT"* * * * * >BF
* * * * * "
280 LOCATE 1,21:PRINT" * * * >ZK
* * * "
290 LOCATE 1,23:PRINT"* * * * * >BF
* * * * * "
300 PLOT 28,104:DRAW 4,104:DRAW 4,40:DRAW 28,40 >NL
310 PLOT 52,104:DRAW 52,40:DRAW 76,40:DRAW 76,104:DRAW >EF
52,104
320 PLOT 100,40:DRAW 100,104:DRAW 124,40:DRAW 124,104 >VJ
330 PLOT 148,40:DRAW 172,40:DRAW 172,72:DRAW 148,72:DRA >AR
W 148,104:DRAW 172,104
340 PLOT 196,104:DRAW 228,104:PLOT 212,104:DRAW 212,40 >WC
350 PLOT 276,104:DRAW 252,104:DRAW 252,40:DRAW 276,40:P >AF
LOT 252,72:DRAW 266,72
360 PLOT 300,104:DRAW 300,40:DRAW 324,40 >FC
370 PLOT 348,104:DRAW 348,40:DRAW 372,40 >FH
380 PLOT 396,40:DRAW 396,104:DRAW 420,104:DRAW 420,40:P >AM
LOT 396,72:DRAW 420,72
390 PLOT 444,104:DRAW 476,104:PLOT 460,104:DRAW 460,40 >WV
400 PLOT 492,104:DRAW 492,40 >VH
410 PLOT 508,104:DRAW 508,40:DRAW 532,40:DRAW 532,104:D >KZ
RAW 508,104
420 PLOT 556,40:DRAW 556,104:DRAW 580,40:DRAW 580,104 >VF
430 PLOT 604,40:DRAW 628,40:DRAW 628,72:DRAW 604,72:DRA >AC
W 604,104:DRAW 628,104
1000 RUN"ciel >FB

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100 'MENU >RB
110 MODE 2:CLS:INK 0,0:PAPER 0:BORDER 0 >GN
120 FOR I=1 TO 250:PLOT INT(RND(1)*640),INT(RND(1)*400) >HK
:NEXT I
130 LOCATE 36,3:PRINT"MENU":FOR I=36 TO 42:LOCATE I, >FG
4:PRINT CHR$(208):NEXT I
140 LOCATE 6,6:PRINT"1 - VISUALISATION D'UNE CONSTELLAT >KF
ION"
150 LOCATE 6,8:PRINT"2 - VISUALISATION DU CIEL AU PRINT >LX
EMPS"
160 LOCATE 6,10:PRINT"3 - VISUALISATION DU CIEL EN ETE" >DK
170 LOCATE 6,12:PRINT"4 - VISUALISATION DU CIEL EN AUTO >JN
HNE"
180 LOCATE 6,14:PRINT"5 - VISUALISATION DU CIEL EN HIVE >GP
R"
190 LOCATE 6,16:PRINT"6 - LIAISONS ENTRE LES PRINCIPALE >EW
S CONSTELLATIONS"
200 LOCATE 6,18:PRINT"7 - ETOILES LES PLUS BRILLANTES" >CL
210 LOCATE 6,20:PRINT"8 - FIN" >YW
220 LOCATE 28,23:INPUT"TAPER LE N{ CHOISI";choix >WD
230 IF choix<1 OR choix>8 THEN GOTO 220 >FZ
240 ON choix GOSUB 9000,5000,5600,6200,6900,3000,2000,1 >AP
000
250 GOTO 100 >YE
1000 CLS:NEW >KE
2000 ' ETOILES LES PLUS BRILLANTES >XE
2010 CLS >ZC
2020 GOSUB 2500 >WD
2030 RESTORE 2060:GOSUB 2200 >WB
2040 GOSUB 15120 >DB
2050 CLS:GOSUB 2500:GOSUB 2200:GOSUB 15120:RETURN >UG
2060 DATA "Soleil",,"-26,9",,"Jaune", " 6500", "Siriu >UT
s", "Grand Chien", "- 1,44", " 9", "Blanche", "10000", "Arc
turus", "Bouvier", "- 0,04", " 37", "Rouge", " 4500", "Vega"
, "Lyre", " 0,06", " 27", "Blanche", "10000"
2070 DATA "Capella", "Cocher", " 0,09", " 45", "Jaune", " >KN
5000", "Rigel", "Orion", " 0,19", " 900", "Blanche", "10000"
, "Procyon", "Petit Chien", " 0,37", " 11", "Jaune", " 6500
", "Betelgeuse", "Orion", " 0,47", " 520", "Rouge", " 3000"
2080 DATA "Altair", "Aigle", " 0,78", " 16", "Blanche", " >UW
8000", "Aldifbaran", "Taureau", " 0,92", " 68", "Rouge", " 3
500", "Antar)s", "Scorpion", " 0,95", " 520", "Rouge", " 280
0", "Spica", "Vierge", " 0,96", " 258", "Bleue", "20000", "F
ormalhaut", "Poiss.Aust."

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2090 DATA " 1,16", " 22", "Blanche", "10000", "Pollux", "G >JP
(meaux", " 1,16", " 35", "Orange", " 4500", "D(neb", "Cygne
", " 1,28", "1600", "Blanche", " 9500", "R(igus", "Lion", "
1,37", " 85", "Blanche", "12000", "Adhara", "Grand Chien",
" 1,49", " 700", "Bleue", "18000"
2100 DATA "Castor", "G(meaux", " 1,57", " 45", "Blanche", >MR
"10000"
2110 DATA "Bellatrix", "Orion", " 1,63", " 470", "Bleue", " >RJ
19000", "El Nath", "Taureau", " 1,65", " 300", "Bleue", "150
00", "Alnitak", "Orion", " 1,69", "1600", "Bleue", "18000", "
Alioth", "Grande Ourse", " 1,76", " 62", "Blanche", "11000
"
2120 DATA "Mirfak", "Pers(e", " 1,81", " 570", "Jaune", " 6 >ER
000", "Dubhe", "Grande Ourse", " 1,83", " 105", "Orange", "
4500", "Wezen", "Grand Chien", " 1,85", "2000", "Jaune", " 5
500", "Alkaid", "Grande Ourse", " 1,86", " 200", "Bleue", "1
8000"
2130 DATA "Menkalinan", "Cocher", " 1,90", " 72", "Blanch >YK
e", "10000", "Alhina", "G(meaux", " 1,93", " 85", "Blanche"
, "11000", "Mirzam", "Grand Chien", " 1,96", " 320", "Bleue"
, "22000", "Polaris", "Petite Ourse", " 2,01", " 350", "Jaun
e", " 6000"
2140 DATA "Hamal", "B(ilier", " 2,02", " 75", "Rouge", " 40 >EY
00", "Alphard", "Hydre", " 2,02", " 100", "Rouge", " 3500", "
Mizar", "Grande Ourse", " 2,04", " 80", "Blanche", "10000"
, "Diphada", "Baleine", " 2,06", " 60", "Orange", " 4500"
2150 DATA "Salph", "Orion", " 2,07", "", "Bleue", "17000", " >UZ
", "", "", "", "", ""
2200 FOR i=1 TO 18:READ nom$,cons$,magn$,dist$,coul$,te >LF
mp$:LOCATE 6,5+i:PRINT nom$:LOCATE 19,5+i:PRINT cons$:L
OCATE 35,5+i:PRINT magn$:LOCATE 47,5+i:PRINT dist$:LOCA
TE 57,5+i:PRINT coul$:LOCATE 68,5+i:PRINT temp$:NEXT i
2210 RETURN >EJ
2500 FOR i=36 TO 596:PLOT i,360:PLOT i,328:PLOT i,24:NE >CE
XT i
2510 FOR i=24 TO 360:PLOT 36,i:PLOT 140,i:PLOT 252,i:PL >RG
OT 332,i:PLOT 436,i:PLOT 516,i:PLOT 596,i:NEXT i
2520 LOCATE 14,1:PRINT"ETOILES LES PLUS BRILLANTES VISI >LG
BLES A NOS LATITUDES"
2530 LOCATE 8,4:PRINT"ETOILES":LOCATE 19,4:PRINT"CONSTE >VG
LLATION":LOCATE 33,4:PRINT"MAGN. APP. ":LOCATE 43,4:PRINT
"DISTANCE(al)":LOCATE 57,4:PRINT"COULEUR":LOCATE 66,4:P
RINT"TEMP((K)"
2540 RETURN >FE
3000 ' LIAISONS ENTRE CONSTELLATIONS >XF
3010 CLS >ZD
3030 RESTORE 3700:e=14 >QD
3040 GOSUB 15000 >CK
3050 LOCATE 1,22:PRINT"LIAISON GRANDE OURSE ETOILE POLA >UQ
IRE":LOCATE 1,23:PRINT"Le segment beta-alpha prolongi d
e beta vers alpha de 5 fois sa longueur,":LOCATE 1,24:P
RINT"recontre l'ETOILE POLAIRE"
3060 LOCATE 40,10:PRINT CHR$(176):LOCATE 37,11:PRINT CH >HD
R$(177)
3070 PLOT 333,263:DRAW 389,274:PLOT 378,278:DRAW 389,27 >QR
4:DRAW 380,267
3080 GOSUB 15120 >DG
3090 CLS:RESTORE 3700:e=20 >VH
3100 GOSUB 15000 >CG

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3110 LOCATE 1,24:PRINT"Ligne permettant de trouver CASS >XE
IOPEE"
3115 LOCATE 40,10:PRINT CHR$(176):LOCATE 37,11:PRINT CH >HE
R$(177)
3120 PLOT 314,290:DRAW 392,279:PLOT 415,273:DRAW 476,25 >WR
6:PLOT 384,287:DRAW 392,279:DRAW 384,273:PLOT 466,265:D
RAW 476,256:DRAW 465,253
3130 GOSUB 15120 >DC
3140 CLS:RESTORE 3700:e=29 >VN
3150 GOSUB 15000 >DB
3160 LOCATE 1,23:PRINT "Le prolongement de Alpha-Beta v >YB
ers Beta permet de trouver la constellation ":LOCATE 1,
24:PRINT "du LION (en Mai vers Minuit)"
3165 LOCATE 20,16:PRINT"Rigulus" >DZ
3167 LOCATE 40,10:PRINT CHR$(176):LOCATE 37,11:PRINT CH >HM
R$(177)
3170 PLOT 289,252:DRAW 203,224:PLOT 213,235:DRAW 203,22 >PD
4:DRAW 213,220
3180 GOSUB 15120 >DH
3200 CLS >ZE
3210 RESTORE 3700:e=35 >QG
3220 GOSUB 15000 >CK
3230 LOCATE 1,23:PRINT "Liaison GRANDE OURSE - LES GEME >GB
AUX":LOCATE 1,24:PRINT "(en Avril vers Minuit)"
3240 PLOT 302,284:DRAW 302,260:PLOT 296,266:DRAW 302,26 >VR
0:DRAW 308,266:PLOT 300,243:DRAW 300,140:PLOT 293,146:D
RAW 300,140:DRAW 307,146
3250 LOCATE 30,17:PRINT"Pollux":LOCATE 42,16:PRINT"Cast >LB
or"
3260 GOSUB 15120 >DG
3270 CLS >AB
3280 RESTORE 3700:e=41 >QL
3290 GOSUB 15000 >DG
3300 LOCATE 1,23:PRINT "Liaison GRANDE OURSE - LE COCHE >CG
R":LOCATE 1,24:PRINT "(en Avril vers Minuit)"
3310 PLOT 323,254:DRAW 386,161:PLOT 373,168:DRAW 386,16 >PV
1:DRAW 386,170
3320 LOCATE 51,14:PRINT"Capella" >DH
3330 GOSUB 15120 >DE
3340 CLS >ZK
3350 RESTORE 3800:e=16 >QH
3360 GOSUB 15000 >DE
3370 LOCATE 1,23:PRINT "Le TRIANGLE D'ETE .Bien observa >AU
ble et tr)s haut dans le ciel d'lt(":LOCATE 1,24:PRINT
"Liaison entre le CYGNE,l'AIGLE et la LYRE"
3380 LOCATE 34,2:PRINT"D(neb":LOCATE 54,3:PRINT"V(ga":L >RH
OCATE 45,16:PRINT"Altair"
3390 PLOT 293,339:DRAW 338,170:PLOT 350,172:DRAW 420,33 >HK
2:PLOT 416,341:DRAW 299,348
3400 GOSUB 15120 >DC
3410 CLS >ZH
3420 RESTORE 3810:e=10 >QE
3430 GOSUB 15000 >DC
3440 LOCATE 1,23:PRINT "Liaisons permettant de retrouve >RE
r Ald(baran (TAUREAU) et Sirius (GRAND CHIEN)":LOCATE 1
,24:PRINT "@ partir d'ORION (en Hiver)"
3450 LOCATE 18,22:PRINT"Sirius":LOCATE 39,19:PRINT"Rige >EP
l":LOCATE 21,8:PRINT"B(telgeuse":LOCATE 35,8:PRINT"Bell
atrix":LOCATE 44,5:PRINT"Ald(baran":LOCATE 67,3:PRINT"L

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es Pliiades"

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3460 PLOT 230,160:DRAW 105,60:PLOT 270,190:DRAW 415,310 >MZ
:PLDT 110,75:DRAW 105,60:DRAW 115,61:PLOT 405,310:DRAW
415,310:DRAW 412,300
3465 PLOT 511,377:PLOT 513,373:PLOT 513,367:PLOT 506,37 >HF
4:PLOT 509,367:PLOT 502,366
3470 GOSUB 15120:RETURN >TQ
3700 DATA 293,338,4,302,322,4,299,305,4,302,290,4,318,2 >BF
60,4,299,254,4,287,271,4
3710 DATA 404,278,4,401,288,3,393,299,3,382,307,3,385,3 >BW
18,3,368,323,4,367,310,4
3720 DATA 470,237,3,455,234,3,485,240,4,487,255,4,505,2 >NF
58,4,496,273,4
3730 DATA 227,173,2,230,186,2,214,196,2,202,197,2,202,1 >GQ
83,2,185,175,5,176,243,2,173,291,4,193,247,2
3740 DATA 306,127,4,322,132,4,351,102,2,368,89,3,347,77 >KK
,3,313,104,2
3750 DATA 414,158,4,422,145,2,434,121,3,414,106,3,388,1 >MR
30,2,390,152,2
3800 DATA 290,347,4,305,323,4,336,343,2,275,292,4,242,2 >WD
72,2,331,292,2,367,258,2,423,340,4,412,345,2,416,333,1,
405,326,1,405,308,2,416,308,2,343,165,4,349,173,2,337,1
49,2
3810 DATA 212,242,3,260,260,1,295,240,2,239,168,2,250,1 >RT
76,2,260,185,2,290,95,3,217,93,2,92,53,3,426,318,3
5000 'PRINTEMPS - NORD >XH
5005 e=175:RESTORE 5030 >RB
5010 GOSUB 8900 >XF
5015 LOCATE 2,1:PRINT"CONSTELLATIONS ET ETOILES VISIBLE >AZ
S DANS LE CIEL DE PRINTEMPS A NOS LATITUDES"
5020 LOCATE 1,20:PRINT"D":LOCATE 80,20:PRINT"E":LOCATE >PC
34,21:PRINT"vers le Nord"
5030 DATA 65,230,3,95,236,3,89,176,1,89,164,1,83,158,2, >EU
76,166,1,78,179,3,113,163,2,96,124,1,83,140,1,83,158,0,
0,0,0,78,179,0,65,230,0,0,0,0
5040 DATA 133,91,1,145,98,2,152,106,3,131,113,1,119,119 >PH
,1,0,0,0,152,106,0,147,123,1,154,129,1,147,123,0,139,12
8,1,0,0,0
5050 DATA 189,120,1,189,129,1,202,140,2,188,142,1,199,1 >GH
20,0,0,0,0
5060 DATA 137,272,1,167,273,2,175,250,3,167,233,1,153,2 >JV
42,1,152,231,2,127,218,2,0,0,0
5070 DATA 254,370,0,240,357,1,224,316,1,237,285,1,230,2 >GC
71,1,0,0,0
5080 DATA 156,174,3,165,184,1,172,190,3,199,203,2,208,1 >VB
96,3,221,196,2,233,194,1,0,0,0,208,196,0,191,175,2,189,
165,1,0,0,0
5090 DATA 242,80,0,225,113,3,250,116,3,266,124,3,0,0,0, >BU
225,113,0,221,152,3,0,0,0
5100 DATA 285,153,3,266,151,3,274,170,3,254,172,2,258,1 >HQ
88,2,0,0,0
5110 DATA 292,237,1,272,223,1,253,208,1,239,233,1,256,2 >VT
33,1,272,223,0,0,0,0
5120 DATA 303,157,1,316,155,1,344,168,2,336,189,2,306,2 >JG
13,2,308,178,1,316,155,0,0,0,0
5130 DATA 347,80,0,344,92,1,340,108,1,338,123,3,344,133 >EV
,1,0,0,0
5140 DATA 365,88,2,389,104,3,412,116,2,0,0,0,380,126,3, >BA
389,104,0,404,87,3,0,0,0
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5150 DATA 445,138,3,445,130,1,451,118,2,443,110,2,438,1 >VN
22,1,445,130,0,0,0,0
5160 DATA 524,108,2,506,124,2,494,146,1,476,158,2,466,1 >TZ
46,3,457,157,1,0,0,0,545,152,1,530,146,2,506,159,2,491,
175,1,476,158,0,0,0,0,494,146,0,506,159,0,0,0,0
5170 DATA 525,198,1,537,200,1,542,188,3,542,188,1,537,1 >KA
79,1,531,175,1,525,181,1,0,0,0
5180 DATA 560,260,0,555,254,2,536,225,2,514,231,2,516,2 >JG
47,2,538,259,1,0,0,0,516,247,0,491,252,1,0,0,0
5190 DATA 461,290,3,435,302,3,423,312,3,404,320,3,357,3 >ZE
32,3,365,353,3,401,342,3,404,320,0,0,0,0
5200 DATA 320,253,3,338,246,1,356,247,1,367,253,1,376,2 >AX
66,3,386,254,2,377,245,1,367,253,0,0,0,0
5210 DATA 372,303,1,372,290,1,406,265,1,431,241,1,416,2 >RU
25,2,398,216,2,365,218,1,370,200,2,410,185,1,428,180,3,
432,194,3,416,195,1,410,185,0,1,0,0
5220 GOSUB 15000 >DB
5222 GOSUB 15100 >DE
5225 RESTORE 5030:GOSUB 16000 >XP
5230 FOR i=1 TO 19:READ a,b,nom$:LOCATE a,b:PRINT nom$: >GR
NEXT i
5240 DATA 6,16,Tau,14,19,Ari,21,16,Tri,31,19,And,20,13, >YU
Per,16,10,Aur,25,6,Lyn,30,10,Cam,44,14,Cep,30,16,Cas,39
,18,Lac,52,19,Cyg,59,18,Lyr,66,17,Her,70,14,CrB,62,9,Bo
o,53,5,UMa,55,12,Dra,43,9,UMi
5270 GOSUB 15100 >DH
5300 'PRINTEMPS - SUD >YA
5310 e=143:RESTORE 5350 >RA
5320 GOSUB 8900 >XK
5330 LOCATE 2,1:PRINT"CONSTELLATIONS ET ETOILES VISIBLE >AZ
S DANS LE CIEL DE PRINTEMPS A NOS LATITUDES"
5340 LOCATE 1,20:PRINT"E":LOCATE 80,20:PRINT"O":LOCATE >NG
34,21:PRINT "vers le Sud"
5350 DATA 140,80,0,128,96,1,111,86,1,96,106,1,0,0,0 >QZ
5360 DATA 80,200,1,89,223,3,107,211,1,0,0,0,62,230,0,89 >WT
,223,0,73,246,0,0,0,0
5370 DATA 154,243,1,159,262,1,182,260,1,0,0,0 >KM
5380 DATA 159,140,3,170,158,2,180,180,2,200,186,1,213,2 >ZU
05,2,0,0,0,134,152,1,140,166,2,164,194,2,161,216,2,0,0,
0,180,180,0,164,194,0,0,0,0
5390 DATA 206,115,2,224,128,2,219,142,2,203,140,2,206,1 >GL
15,0,0,0,0
5400 DATA 234,170,1,252,174,1,260,159,1,268,146,1,260,1 >JY
37,1,248,144,1,260,159,0,0,0,0
5410 DATA 348,283,2,332,292,1,318,284,1,320,273,3,265,2 >EC
71,2,230,244,3,264,254,2,320,248,3,330,262,1,320,273,0,
0,0,0,320,248,0,343,237,1,357,241,1,0,0,0
5420 DATA 321,198,1,335,195,1,343,180,1,321,198,0,0,0,0 >WL

5430 DATA 176,80,0,181,92,1,187,100,2,194,95,1,274,131, >CG
1,284,152,2,319,150,1,356,178,3,362,194,1,372,206,1,383
,208,1,388,213,2,401,212,1,400,202,1,392,201,2,383,208,
0,0,0,0
5440 DATA 413,104,1,410,113,2,407,129,1,0,0,0,384,80,0, >BW
410,113,0,394,116,1,0,0,0
5450 DATA 476,80,0,497,98,1,482,104,1,474,116,3,464,102 >WA
,1,454,87,1,0,0,0,474,116,0,468,128,1,473,136,1,0,0,0
5460 DATA 549,135,3,545,107,3,519,117,3,531,135,3,542,1 >RL
35,3,549,135,0,556,147,3,536,170,3,531,135,0,0,0,0

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5470 DATA 467,200,3,481,206,2,0,0,0 >AV
5480 DATA 470,271,3,488,283,2,504,263,1,522,244,2,536,2 >RA
30,2,522,215,2,500,236,1,489,247,2,470,271,0,0,0,0
5490 DATA 373,298,1,385,273,1,393,261,1,417,241,1,0,0,0 >DJ
,393,261,0,377,239,1,0,0,0
5500 DATA 392,368,1,376,351,1,371,338,1,0,0,0 >KB
5510 DATA 320,314,1,318,332,1,284,326,1,0,0,0 >KC
5520 DATA 211,343,2,189,330,1,1,0,0 >AM
5530 GOSUB 15000 >DF
5532 GOSUB 15100 >DJ
5535 RESTORE 5350:GOSUB 16000 >YZ
5540 FOR i=1 TO 18:READ a,b,nom$:LOCATE a,b:PRINT nom$: >GV
NEXT i
5550 DATA 10,17,Lib,11,10,Boo,22,12,Vir,22,17,Crv,30,13 >VU
,Crt,37,18,Hya,21,8,Com,26,5,CVn,35,11,Leo,36,4,LM1,43,
3,Lyn,51,8,Cnc,38,12,Sex,47,19,Pup,55,18,CMa,71,18,Or1,
58,14,CM1,64,8,Gem
5580 GOSUB 15100:RETURN >TT
5600 ' ETE - NORD >YD
5610 e=160:RESTORE 5650 >RF
5620 GOSUB 8900 >YC
5630 LOCATE 5,1:PRINT"CONSTELLATIONS ET ETOILES VISIBLE >ML
S DANS LE CIEL D'ETE A NOS LATITUDES"
5640 LOCATE 1,20:PRINT"0":LOCATE 80,20:PRINT"E":LOCATE >QC
34,21:PRINT"vers le Nord"
5650 DATA 87,115,1,71,121,1,75,143,3,85,158,1,86,170,2, >NU
98,177,1,104,170,1,104,158,2,0,0,0,44,200,0,50,190,2,75
,143,0,0,0,0,53,215,0,74,195,2,86,170,0,0,0,0
5660 DATA 127,80,0,116,99,1,125,112,1,129,134,1,0,0,0,1 >YB

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16,99,0,101,94,1,0,0,0

5670 DATA 170,80,0,158,99,3,177,110,2,188,96,1,200,80,0 >CR  
,0,0,0

5680 DATA 224,80,0,230,96,1,235,111,1,254,114,3,266,111 >UE  
,1,263,100,1,272,98,1,278,80,0,0,0,0

5690 DATA 140,150,1,152,169,1,176,170,1,202,161,1,237,1 >JZ  
61,1,266,170,1,288,166,1,0,0,0

5700 DATA 125,212,1,132,231,1,119,241,1,0,0,0 >JW

5710 DATA 145,312,1,161,298,3,0,0,0 >AU

5720 DATA 221,338,3,231,321,3,227,303,3,224,287,3,228,2 >ZQ  
60,3,206,260,3,203,284,3,224,287,0,0,0,0

5730 DATA 320,252,3,329,265,1,326,278,1,316,287,1,302,2 >AC  
93,3,311,305,2,322,297,1,316,287,0,0,0,0

5740 DATA 266,288,1,275,293,1,281,322,1,319,350,1,354,3 >TD  
52,2,365,332,2,350,305,1,380,302,2,395,329,1,404,344,3,  
392,350,2,386,338,1,395,329,0,0,0,0

5750 DATA 320,80,0,322,108,2,342,118,3,351,135,2,356,14 >EK  
7,1,0,0,0,342,118,0,359,89,2,362,80,0,0,0,0

5760 DATA 317,215,1,330,199,1,344,174,1,323,161,1,314,1 >VH  
82,1,330,199,0,0,0,0

5770 DATA 364,182,3,385,175,3,386,194,3,404,182,3,407,2 >HF  
02,3,0,0,0

5780 DATA 416,224,1,418,236,1,408,258,2,385,255,2,356,2 >KU  
42,2,394,231,1,418,236,0,0,0,0

5790 DATA 473,252,3,487,265,2,506,284,1,518,296,2,0,0,0 >UK  
,473,284,2,487,265,0,503,248,2,0,0,0

5800 DATA 399,108,3,440,105,3,467,105,1,488,105,3,0,0,0 >UM  
,440,105,0,439,116,1,437,129,1,0,0,0

5810 DATA 464,215,1,467,203,1,482,202,1,498,199,1,0,0,0 >WA

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5820 DATA 506,80,0,536,101,2,548,112,1,554,118,1,573,13 >MB
1,1,563,155,1,554,118,0,0,0,0,536,101,0,506,122,2,518,1
28,3,520,134,1,518,155,1,515,170,1,0,0,0,506,122,0,504,
143,2,502,156,1,1,0,0
5830 GOSUB 15000 >DJ
5832 GOSUB 15100 >EB
5835 RESTORE 5650:GOSUB 16000 >XF
5840 FOR i=1 TO 18:READ a,b,nom$:LOCATE a,b:PRINT nom$: >GY
NEXT i
5850 DATA 6,16,Leo,17,10,LMI,17,7,CVn,10,19,Cnc,20,18,G >RL
em,30,17,Aur,25,14,Lyn,25,6,UMa,40,5,Dra,37,9,UMi,36,12
,Cam,41,17,Per,48,8,Cep,48,16,Cas,52,18,And,72,19,Peg,6
1,12,Lac,65,9,Cyg
5880 GOSUB 15100 >EE
5900 ' ETE _ SUD >YG
5910 e=147:RESTORE 5950 >RT
5920 GOSUB 8900 >YF
5930 LOCATE 5,1:PRINT"CONSTELLATIONS ET ETOILES VISIBLE >MP
S DANS LE CIEL D'ETE A NOS LATITUDES"
5940 LOCATE 1,20:PRINT"E":LOCATE 80,20:PRINT"O":LOCATE >NZ
34,21:PRINT"vers le Sud"
5950 DATA 88,167,1,85,176,1,79,185,1,68,182,1,76,174,1, >NQ
85,176,0,0,0,0
5960 DATA 112,140,2,116,160,1,120,177,3,122,188,2,145,2 >TW
06,2,0,0,0,157,158,2,120,177,0,0,0,0
5970 DATA 86,208,1,97,208,1,110,217,1,0,0,0,110,207,1,9 >LL
7,208,0,0,0,0
5980 DATA 89,266,0,100,262,1,108,257,1,122,248,2,0,0,0 >VL
5990 DATA 178,310,3,173,302,1,173,291,2,161,285,2,164,2 >WL
99,1,173,302,0,0,0,0
6000 DATA 254,261,2,245,288,2,252,302,2,243,323,2,230,3 >TW
20,2,226,334,1,0,0,0,296,266,1,278,276,2,266,304,2,264,
332,1,243,323,0,0,0,0,252,302,0,266,304,0,0,0,0
6010 DATA 235,235,3,228,209,2,265,158,2,295,175,2,319,1 >UL
98,2,0,0,0,294,155,1,295,175,0,0,0,0
6020 DATA 290,80,0,295,103,3,300,116,1,303,127,3,316,13 >XG
2,1,309,152,1,320,151,2,316,132,0,330,140,3,332,116,2,3
16,132,0,333,126,1,332,116,0,0,0,0,330,140,0,320,151,0,
0,0,0
6030 DATA 362,110,1,362,122,1,379,128,2,386,155,2,373,1 >BV
76,2,353,165,1,338,169,1,0,0,0,386,186,1,373,176,0,0,0,
0
6040 DATA 344,200,1,338,225,1,353,230,2,365,233,1,349,2 >QX
54,1,358,260,1,347,266,1,338,260,1,349,254,0,0,0,0
6050 DATA 339,314,1,349,302,1,344,291,3,336,290,1,328,2 >JU
90,1,321,293,1,320,302,1,0,0,0
6060 DATA 416,244,1,428,260,3,422,294,1,419,314,2,389,3 >NP
26,2,374,302,2,402,273,2,428,260,0,446,254,2,0,0,0,428,
332,1,419,314,0,0,0,0
6070 DATA 419,80,0,398,95,1,387,105,1,0,0,0 >HU
6080 DATA 516,255,1,494,264,1,488,248,1,0,0,0 >KM
6090 DATA 599,190,0,582,192,2,542,191,3,562,177,2,608,1 >HQ
59,0,0,0,0
6100 DATA 455,146,3,470,157,1,492,161,2,506,161,1,530,1 >AN
66,2,0,0,0,492,161,0,488,180,2,453,178,1,438,167,1,0,0,
0,491,200,2,488,180,2,1,0,0
6110 GOSUB 15000 >DA
6120 GOSUB 15100 >DC
6130 RESTORE 5950:GOSUB 16000 >XX

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6140 FOR i=1 TO 16:READ a,b,nom$:LOCATE a,b:PRINT nom$: >GP
NEXT i
6150 DATA 7,15,Del,12,11,Sge,17,16,Aql,15,8,Cyg,21,9,Ly >UZ
r,32,13,Oph,30,4,Her,40,5,CrB,45,12,Ser,33,19,Sco,52,19
,Hya,50,17,Lib,60,17,Vir,55,7,Boo,63,11,Can,71,16,Leo
6180 GOSUB 15100:RETURN >TP
6200 ' AUTOMNE - NORD >YA
6210 e=176:RESTORE 6250 >RG
6220 GOSUB 8900 >XK
6230 LOCATE 5,1:PRINT"CONSTELLATIONS ET ETOILES VISIBLE >VA
S DANS LE CIEL D'AUTOMNE A NOS LATITUDES"
6240 LOCATE 1,20:PRINT"D":LOCATE 80,20:PRINT"E":LOCATE >PH
34,21:PRINT"vers le Nord"
6250 DATA 52,80,0,58,108,2,74,105,1,85,106,1,87,135,1,9 >ZU
7,140,1,88,145,1,80,140,1,87,135,0,0,0,0
6260 DATA 80,158,1,85,171,2,115,197,3,136,214,2,125,233 >HV
,3,122,254,1,140,253,1,0,0,0,47,197,1,78,207,2,103,211,
1,125,233,0,0,0,0,103,211,0,115,197,0,0,0,0
6270 DATA 140,171,1,134,164,1,125,159,3,119,161,1,116,1 >JM
65,1,116,176,1,122,183,1,0,0,0
6280 DATA 122,86,1,144,101,3,148,142,3,152,171,3,176,18 >JR
2,3,184,159,3,168,138,1,144,101,0,161,97,2,0,0,0,184,15
9,0,199,159,1,0,0,0
6290 DATA 212,134,1,232,138,3,0,0,0 >AL
6300 DATA 212,170,3,230,177,3,250,177,3,265,171,3,302,1 >ZX
69,3,294,150,3,266,153,3,265,171,0,0,0,0
6310 DATA 326,248,3,311,253,2,296,250,2,276,237,2,265,2 >AD
27,3,254,236,2,272,250,2,276,237,0,0,0,0
6320 DATA 297,201,2,287,214,2,254,205,2,220,217,2,228,2 >RP
42,3,237,261,3,270,271,2,262,296,3,209,283,1,190,278,3,
194,261,2,207,266,1,209,283,0,0,0,0
6330 DATA 143,317,1,149,313,1,158,326,1,0,0,0,149,313,0 >PM
,152,302,3,0,0,0
6340 DATA 198,348,2,206,333,2,0,0,0 >AB
6350 DATA 328,344,1,344,321,1,340,281,2,310,309,2,299,3 >JC
26,2,328,344,0,341,344,1,0,0,0
6360 DATA 347,231,1,367,248,1,391,260,1,404,228,1,382,2 >WM
24,1,367,248,0,0,0,0
6370 DATA 404,275,2,422,288,2,403,297,3,417,310,3,392,3 >HY
19,3,0,0,0
6380 DATA 355,80,0,359,92,1,380,112,1,389,144,1,380,168 >TG
,1,388,182,1,0,0,0
6390 DATA 465,153,2,443,170,3,455,188,3,467,192,1,467,1 >KX
82,2,479,182,1,492,165,2,0,0,0
6400 DATA 563,142,2,545,134,3,507,125,2,500,146,3,544,1 >BG
46,1,563,142,0,584,140,1,574,154,1,542,205,2,544,146,0,
545,134,0,0,0,0
6410 DATA 560,223,1,553,230,2,541,229,3,530,217,1,524,2 >ZD
07,1,0,0,0,541,229,0,518,224,1,512,227,1,0,0,0,518,224,
0,518,224,0,518,217,1,0,0,0
6420 DATA 509,206,1,502,205,1,490,207,2,464,228,2,464,2 >UC
42,3,455,250,2,445,257,1,0,0,0,464,242,0,493,235,2,502,
232,1,0,0,0
6430 DATA 520,254,1,512,265,3,523,271,1,534,274,1,520,2 >GF
54,0,0,0,0
6440 DATA 490,279,3,517,301,3,504,304,1,494,296,1,1,1,1 >WD
6450 GOSUB 15000 >DH
6460 GOSUB 15100 >DK
6470 RESTORE 6250:GOSUB 16000 >XY

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6480 FOR i=1 TO 20:READ a,b,nom$:LOCATE a,b:PRINT nom$: >GR
NEXT i
6490 DATA 6,17,Ser,10,11,Her,21,7,Lyr,16,14,CrB,22,18,B >UF
oo,27,18,CVn,34,14,UMa,25,10,Dra,36,9,UMi,27,4,Cyg,36,4
,Cep,43,12,Cam,50,4,Cas,55,16,Aur,50,18,Lyn,66,19,Tau,6
7,10,Ari,55,12,Per,61,9,Tri,58,7,And
6500 GOSUB 15100 >DE
6510 ' AUTOMNE - SUD >YE
6520 e=200:RESTORE 6560 >RC
6530 GOSUB 8900 >YD
6540 LOCATE 5,1:PRINT"CONSTELLATIONS ET ETOILES VISIBLE >VE
S DANS LE CIEL D'AUTOMNE A NOS LATITUDES"
6550 LOCATE 1,20:PRINT"E":LOCATE 80,20:PRINT"O":LOCATE >NX
34,21:PRINT"vers le Sud"
6560 DATA 65,80,0,72,94,1,80,104,1,97,109,1,101,96,1,10 >KD
4,81,1,0,0,0
6570 DATA 184,92,1,209,112,1,232,102,1,215,80,0,0,0,0 >TR
6580 DATA 107,172,1,100,152,2,91,165,1,74,161,1,73,151, >NY
1,86,146,3,100,152,0,106,145,3,142,129,1,158,116,3,188,
131,3,203,140,1,212,146,1,203,164,1,169,143,2,158,146,1
,0,0,0,158,116,0,156,99,1,0,0,0
6590 DATA 135,220,1,131,226,2,120,230,3,106,221,1,102,2 >XM
12,1,0,0,0,120,230,0,93,234,1,86,242,1,0,0,0,93,234,0,8
3,232,1,0,0,0
6600 DATA 187,250,1,177,249,1,168,243,1,172,238,1,174,2 >BV
28,1,160,224,1,154,207,1,148,194,1,146,183,1,158,188,1,
170,194,1,189,195,1,202,196,1,220,201,1,236,201,1,250,2
07,1,262,209,1,263,203,1,255,195,1,245,192,1,250,207,0,
0,0,0,262,209,0,272,218,1,0,0,0
6610 DATA 102,260,1,105,275,2,117,275,1,133,272,1,102,2 >GJ
60,0,0,0,0
6620 DATA 125,302,0,168,286,3,190,278,1,212,276,3,0,0,0 >UA
,168,286,0,168,296,1,161,306,1,0,0,0
6630 DATA 210,236,2,269,248,2,289,239,1,295,237,1,341,2 >QU
33,3,314,230,2,295,237,0,0,0,0,269,248,0,268,286,2,290,
290,2,305,294,1,0,0,0,268,286,0,273,275,1,278,270,1,302
,274,1,321,278,1,0,0,0
6640 DATA 296,365,1,291,355,1,294,338,1,306,321,1,0,0,0 >WA
6650 DATA 314,80,0,305,95,1,288,99,1,279,104,1,283,117, >DV
3,302,121,1,332,80,0,0,0,0
6660 DATA 392,170,1,380,177,1,355,192,2,323,206,2,310,1 >LW
95,1,303,208,1,288,203,1,278,186,1,260,179,1,250,165,1,
260,151,3,280,158,1,284,171,1,285,176,1,278,186,0,0,0,0
6670 DATA 414,158,1,400,146,2,367,152,2,353,160,1,341,1 >HZ
55,1,331,160,2,338,139,1,352,138,1,380,125,1,400,146,0,
0,0,0
6680 DATA 380,206,1,386,223,1,374,221,1,380,206,0,0,0,0 >WH
6690 DATA 412,188,2,434,203,1,443,212,3,452,220,2,481,2 >UA
19,2,0,0,0,443,212,0,462,176,2,0,0,0
6700 DATA 410,230,1,416,242,1,412,254,1,397,259,1,399,2 >VG
43,1,416,242,0,0,0,0
6710 DATA 473,247,1,462,241,1,450,242,1,0,0,0,462,241,0 >PW
,473,236,1,0,0,0
6720 DATA 404,344,3,424,321,2,446,296,2,455,286,1,476,2 >JN
77,2,0,0,0,407,312,2,424,321,0,449,335,2,0,0,0
6730 DATA 507,304,3,506,297,1,506,285,2,493,281,2,494,2 >WR

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96,1,506,297,0,0,0,0
6740 DATA 524,80,0,530,152,2,542,175,2,0,0,0,576,175,1, >CD
592,184,1,601,181,0,0,0,0
6750 DATA 555,80,0,568,112,2,1,0,0 >ZV
6760 GOSUB 15000 >EB
6770 GOSUB 15100 >ED
6780 RESTORE 6560:GOSUB 16000 >XG
6790 FOR i=1 TO 20:READ a,b, nom$:LOCATE a,b:PRINT nom$: >GW
NEXT i
6800 DATA 8,18, Eri,16,16,Cet,9,12,Ari,15,10,Tri,23,7,An >UG
d,23,12,Psc,38,9,Peg,40,5,Lac,38,14,Aqr,28,18,Scu,42,19
,PsA,51,17,Cap,59,13,Aql,46,11,Equ,50,8,Del,61,10,Sge,4
8,5,Cyg,63,9,Lyr,69,13,Her,70,17,Oph
6810 GOSUB 15100:RETURN >TP
6900 ' HIVER - NORD >YH
6910 e=142:RESTORE 6950 >RP
6920 GOSUB 8900 >YG
6930 LOCATE 5,1:PRINT"CONSTELLATIONS ET ETOILES VISIBLE >QR
S DANS LE CIEL D'HIVER A NOS LATITUDES"
6940 LOCATE 1,20:PRINT"D":LOCATE 80,20:PRINT"E":LOCATE >QG
34,21:PRINT"vers le Nord"
6950 DATA 44,159,1,63,142,1,45,143,1,44,159,0,41,182,0, >LY
85,202,2,91,200,1,103,193,2,0,0,0,85,202,0,80,187,1,88,
176,1,98,167,1,0,0,0
6960 DATA 180,176,3,177,149,2,176,124,1,177,109,2,178,8 >HQ
4,2,0,0,0,155,149,2,177,149,0,200,151,2,0,0,0
6970 DATA 223,113,3,215,107,1,210,98,2,197,97,2,207,109 >TF
,1,215,107,0,0,0,0
6980 DATA 128,207,1,147,219,1,165,224,1,176,221,1,0,0,0 >WP

6990 DATA 212,230,1,233,245,1,282,256,2,254,227,2,230,2 >JH
15,2,212,230,0,209,245,1,0,0,0
7000 DATA 213,266,3,206,287,3,232,283,3,233,302,2,258,2 >HB
91,2,0,0,0
7010 DATA 299,373,0,295,367,2,278,357,3,263,371,0,0,0,0 >UX
,278,357,0,269,340,2,263,327,1,0,0,0
7020 DATA 392,80,0,392,101,1,0,0,0 >ZZ
7030 DATA 322,200,1,315,188,1,329,182,2,338,192,3,322,2 >ZC
00,0,313,210,1,306,230,1,320,250,3,0,0,0
7040 DATA 384,206,1,369,199,1,360,166,1,338,139,1,308,1 >RG
48,2,292,160,2,284,189,1,260,181,2,260,152,1,263,134,2,
278,128,2,278,146,1,260,152,0,0,0,0
7050 DATA 320,283,1,308,302,1,305,328,1,343,322,1,338,3 >VJ
06,1,308,302,0,0,0,0
7060 DATA 401,136,3,398,155,3,404,164,3,413,180,2,417,2 >ZU
08,3,437,200,3,430,176,3,413,180,0,0,0,0
7070 DATA 387,310,1,415,304,1,448,300,1,479,266,1,491,2 >KF
38,1,518,225,1,535,232,1,0,0,0
7080 DATA 442,116,1,452,133,3,0,0,0 >AN
7090 DATA 560,165,2,545,168,1,536,152,1,542,140,3,520,1 >CD
15,2,503,89,3,532,104,2,570,128,3,555,140,1,542,140,0,0
,0,0,570,128,0,584,139,1,587,153,1,0,0,0
7100 DATA 515,152,1,510,164,1,520,179,1,0,0,0 >KB
7110 DATA 578,218,1,579,227,0,0,0,0,528,254,1,554,255,1 >MM
,562,253,0,0,0,0,500,311,3,0,0,0,401,362,3,1,0,0
7120 GOSUB 15000 >DC
7130 GOSUB 15100 >DE
7140 RESTORE 6950:GOSUB 16000 >XA
7150 FOR i=1 TO 17:READ a,b, nom$:LOCATE a,b:PRINT nom$: >GT

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NEXT i

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7160 DATA 9,12,Peg,19,10,Lac,18,18,Cyg,28,17,Lyr,30,13, >UN
Cep,25,6,Cas,38,4,Per,42,8,Cam,41,11,UMi,38,18,Dra,52,1
1,UHa,45,19,Boo,55,16,CVn,55,8,Lyn,65,8,Cnc,62,14,LMi,7
1,19,Leo
7170 GOSUB 15100 >DJ
7200 ' HIVER - SUD >YB
7210 e=225:RESTORE 7250 >RD
7220 GOSUB 8900 >YA
7230 LOCATE 5,1:PRINT"CONSTELLATIONS ET ETOILES VISIBLE >QK
S DANS LE CIEL D'HIVER A NOS LATITUDES"
7240 LOCATE 1,20:PRINT"E":LOCATE 80,20:PRINT"O":LOCATE >NU
34,21:PRINT"vers le Sud"
7250 DATA 50,80,0,55,98,1,52,114,1,57,124,1,67,131,1,75 >MH
,135,1,82,147,1,72,151,1,65,141,1,67,131,0,0,0,0
7260 DATA 47,166,1,47,193,1,65,188,1,0,0,0 >GC
7270 DATA 128,182,3,135,196,1,0,0,0 >AB
7280 DATA 106,248,3,112,271,2,137,266,1,163,262,2,177,2 >QT
56,2,173,235,2,152,236,1,140,236,2,106,248,0,0,0,0
7290 DATA 164,93,3,158,103,1,170,106,3,182,140,3,166,14 >ZE
0,1,161,151,1,0,0,0,191,89,1,182,102,3,187,115,1,202,14
3,3,235,100,2,0,0,0,170,106,0,182,102,0,0,0,0,182,140,0
,202,143,0,0,0,0
7300 DATA 227,186,3,233,194,3,239,200,3,243,218,3,212,2 >QV
18,3,227,186,0,227,162,3,253,169,3,239,200,0,0,0,0
7310 DATA 221,125,1,229,121,1,237,124,2,235,132,2,224,1 >RJ
40,1,218,135,1,0,0,0,237,124,0,260,123,2,254,142,2,235,
132,0,0,0,0,260,151,1,254,142,0,249,153,1,0,0,0
7320 DATA 258,178,1,266,188,2,268,178,1,284,185,1,266,1 >CU
88,0,0,0,0,289,185,1,314,182,1,327,164,2,0,0,0,314,182,
0,339,175,1,352,175,1,352,176,1,368,172,1,385,171,1,382
,156,1,378,150,1,370,142,1,362,137,1,347,142,1,335,141,
1,323,135,1,314,132,1,307,133,1
7330 DATA 295,117,1,312,110,1,354,108,3,362,99,1,375,80 >EH
,0,0,0,0
7340 DATA 228,312,2,229,339,3,266,352,3,277,346,1,265,3 >KT
35,1,274,333,2,278,310,2,0,0,0
7350 DATA 338,305,1,328,317,1,332,332,2,350,353,2,374,3 >KH
68,3,374,332,2,374,316,1,0,0,0
7360 DATA 292,258,3,300,267,1,343,285,2,368,240,1,338,2 >WF
41,1,316,259,1,300,267,0,245,287,3,240,261,2,292,258,0,
308,254,2,316,259,0,0,0,0
7370 DATA 399,218,2,400,231,1,385,233,1,368,225,1,380,2 >JU
22,3,399,218,0,416,230,1,429,205,1,454,167,1,458,158,2,
495,142,1,495,117,2,482,117,1,467,123,3,434,151,2,429,1
70,1,411,190,3,399,218,0,0,0,0,434,151,0,419,140,1,0,0,
0
7380 DATA 460,80,0,456,97,1,0,0,0 >YQ
7390 DATA 496,242,1,485,242,1,479,240,1,477,233,1,472,2 >VR
25,1,464,229,1,454,225,1,429,205,0,443,206,1,452,209,1,
470,207,1,481,197,1,493,191,1,502,179,1,515,177,1,524,1
70,1,515,165,1,503,164,1,495,172,1,502,179,0,0,0,0,524,
170,0,536,173,1,0,0,0
7400 DATA 446,239,1,443,248,2,427,256,3,416,248,1,410,2 >FZ
42,1,0,0,0,427,256,0,395,259,1,389,266,1,0,0,0,395,259,
0,386,255,1,0,0,0
7410 DATA 444,282,1,417,301,2,431,306,1,437,293,1,444,2 >HC
82,0,0,0,0
7420 DATA 434,326,3,480,291,3,502,258,2,527,247,3,0,0,0 >UA
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,480,291,0,485,306,1,477,320,1,0,0,0
7430 DATA 517,209,2,559,185,2,575,224,2,582,218,1,586,2 >WN
09,1,0,0,0,559,185,0,551,156,1,584,152,1,614,146,0,0,0,
0,584,152,0,595,139,2,614,134,0,1,0,0
7440 GOSUB 15000 >DH
7450 GOSUB 15100 >DK
7460 RESTORE 7250:GOSUB 16000 >XZ
7470 FOR i=1 TO 18:READ a,b,nom$:LOCATE a,b:PRINT nom$: >GZ
NEXT i
7480 DATA 10,18,Hya,8,15,Cnc,18,14,CMi,18,17,CMa,18,8,G >RY
em,33,12,Ori,32,19,Lep,36,16,Eri,35,10,Tau,24,5,Aur,40,
3,Per,52,18,Cet,59,19,Scu,50,8,Ari,50,6,Tri,53,4,And,64
,16,Psc,67,12,Peg
7490 GOSUB 15100:RETURN >TV
8900 'AFFICHAGE VOUTE CELESTE >YK
8910 CLS:MODE 2 >BJ
8920 FOR i=20 TO 620:PLOT i,80:NEXT i >DL
8930 FOR i=0 TO PI STEP 0.005 >VD
8940 PLOT 320+300*COS(i),80+300*SIN(i):NEXT i >MY
8950 RETURN >GF
9000 'CHOIX D'UNE CONSTELLATION >YB
9010 CLS:MODE 2 >BA
9020 RESTORE 9000 >LV
9021 FOR i=0 TO 639:PLOT i,0:PLOT i,38:PLOT i,372:NEXT >ZH
i
9022 FOR i=0 TO 372:PLOT 0,i:PLOT 639,i:NEXT >MA
9023 FOR i=38 TO 372:PLOT 310,i:NEXT i >EZ
9030 LOCATE 13,1:PRINT"CONSTELLATIONS DE L'EMISPHERE BO >LH
REAL ET EQUATORIALES"

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9040 FOR i=1 TO 20: READ nom$,abr$:LOCATE 2,2+i:PRINT i >GC
: LOCATE 6,2+i:PRINT nom$:LOCATE 35,2+i:PRINT abr$:NEXT
i
9050 FOR i=21 TO 39:READ nom$,abr$:LOCATE 40,i-18:PRINT >RB
i:LOCATE 44,i-18:PRINT nom$:LOCATE 76,i-18:PRINT abr$:
NEXT i
9100 DATA L'Aigle,Aql,Andromède,And,La Baleine,Cet,Le B >RB
elier,Ari,Le Bouvier,Boo,Le Cancer,Cnc,Cassiopée,Cas,Ci
phée,Cep,Les Chiens de Chasse,CVn,Le Cocher,Aur,La Cour
onne Boréale,CrB,Le Cygne,Cyg,Le Dauphin,Del
9110 DATA Le Dragon,Dra,La Flèche,Sge,Les Gémeaux,Gem,L >YF
a Girafe,Cam,La Grande Ourse,UMa,Hercule,Her,L'Hydre Fe
melle,Hya,Le Lizard,Lac,La Licorne,Mon,Le Lion,Leo,Le L
ynx,Lyn,La Lyre,Lyr,Ophiuchus,Oph
9120 DATA Orion,Ori,Pégase,Peg,Persée,Per,Le Petit Chev >VU
al,Equ,Le Petit Chien,CMi,Le Petit Lion,LMi,La Petite O
urse,UMi,Les Poissons,Psc,Le Sextant,Sex,Le Taureau,Tau
,La Tête du Serpent,Ser,Le Triangle,Tri,La Vierge,Vir
9170 LOCATE 10,24:INPUT" taper le N° de la constellation >UH
choisie (0 retour au MENU)";choix
9180 IF choix<0 OR choix>40 THEN GOTO 9170 >JA
9190 IF choix=0 THEN RETURN >WH
9200 ON choix GOSUB 10000,10100,10200,10300,10400,10500 >JG
,10600,10700,10800,10900,11000,11100,11200,11300,11400,
11500,11600,11700,11800,11900,12000,12100,12200,12300,1
2400,12500,12600,12700,12800,12900,13000,13100,13200,13
300,13400,13500,13600,13700,13800
9300 GOTO 9000 >MJ
10000 ' AIGLE >CG

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10010 CLS:RESTORE 10010 >RZ
10020 e=15:LOCATE 1,1:PRINT"AIGLE" >CU
10040 GOSUB 15000 >LL
10042 LOCATE 23,5:PRINT"Altair" >BY
10050 GOSUB 15100:RESTORE 10051 >YP
10051 DATA 182,200,3,237,225,2,320,250,3,380,380,3,398, >YD
395,2,0,0,0,396,142,2,380,158,3,320,250,0,245,319,6,0,0
,0,230,289,2,245,319,0,255,340,3,1,0,0
10052 GOSUB 16000 >LQ
10095 GOSUB 15100:RETURN >UG
10100 'ANDROMEDE >CH
10110 RESTORE 10110 >NE
10120 CLS:e=9:LOCATE 1,1:PRINT "ANDROMEDE" >LK
10140 GOSUB 15000 >LM
10142 LOCATE 57,15:PRINT"Sirrah":LOCATE 31,10:PRINT"Mir >YW
ach":LOCATE 24,3:PRINT"Almak"
10150 GOSUB 15100 >LP
10155 RESTORE 10160 >NV
10160 DATA 434,184,3,362,207,2,295,265,3,179,346,3,0,0, >VZ
0,332,330,2,320,300,2,295,265,0,1,0,0
10170 GOSUB 16000 >LR
10195 GOSUB 15100:RETURN >UH
10200 'BALEINE >CJ
10210 CLS:RESTORE 10200 >BC
10220 e=33:LOCATE 1,1:PRINT"BALEINE" >EK
10240 GOSUB 15000 >LN
10242 LOCATE 28,11:PRINT"Mira":LOCATE 3,7:PRINT"Menkar" >XH
:LOCATE 66,23:PRINT"Diphada"
10250 GOSUB 15100 >LQ
10255 RESTORE 10260 >NX
10260 DATA 230,356,2,186,356,2,137,373,2,90,359,2,83,30 >QK
0,4,141,291,3,162,321,2,186,356,0,0,0,0,141,291,3,152,2
59,2,212,218,4,151,113,2,143,81,2,173,76,2,316,65,3,497
,40,4,568,147,2,419,132,3,377,155,2,295,147,2,191,110,2
,151,113,0,0,0,0,191,110,2,173,76,0
10261 DATA 0,0,0,316,65,0,269,5,2,0,0,0,497,40,0,419,13 >FD
2,0,1,0,0
10270 GOSUB 16000 >LT
10295 GOSUB 15100:RETURN >UJ
10300 'BELIER >CK
10310 CLS:e=13:RESTORE 10310:LOCATE 1,1:PRINT"BELIER" >ZF

10340 GOSUB 15000 >LP
10342 LOCATE 60,17:PRINT"Mesartim":LOCATE 58,15:PRINT"S >JX
heratan":LOCATE 53,13:PRINT"Hamal"
10350 GOSUB 15100 >LR
10355 RESTORE 10360 >NZ
10360 DATA 449,137,2,447,155,3,410,188,4,299,239,1,284, >HF
257,2,0,0,0,299,239,0,278,233,2,0,0,0,410,188,0,252,161
,1,215,143,2,1,0,0
10370 GOSUB 16000 >LU
10390 GOSUB 15100:RETURN >UE
10400 'BOUVIER >DA
10410 CLS:e=28:RESTORE 10410:LOCATE 1,1:PRINT"BOUVIER" >BV

10440 GOSUB 15000 >LQ
10442 LOCATE 46,20:PRINT"Arcturus":LOCATE 33,17:PRINT"I >MF
zar"
10445 GOSUB 15100 >LX

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10447 RESTORE 10450 >NB
10450 DATA 336,328,2,338,322,2,324,322,2,339,286,2,324, >LH
222,3,328,159,2,360,71,6,398,69,4,412,64,2,0,0,0,398,69
,0,409,50,2,0,0,0,360,71,0,320,14,2,312,50,2,301,67,2,3
09,130,5,262,171,3,283,238,2,324,222,0,0,0,0,360,71,0,3
09,130,0,0,0,0,283,238,0,252,214,2
10451 DATA 1,0,0 >WF
10460 GOSUB 16000 >LU
10490 GOSUB 15100:RETURN >UF
10500 'CANCER >DB
10510 CLS:e=13:RESTORE 10510:LOCATE 1,1:PRINT"CANCER" >ZC

10540 GOSUB 15000 >LR
10542 GOSUB 15100 >LV
10545 RESTORE 10550 >NB
10550 DATA 245,350,2,323,251,2,320,210,2,275,132,2,0,0, >EJ
0,320,210,0,359,209,2,419,201,1,0,0,0,356,239,1,359,209
,0,408,99,2,1,0,0
10560 GOSUB 16000 >LV
10590 GOSUB 15100:RETURN >UG
10600 'CASSIOPEE >DC
10610 CLS:e=7:RESTORE 10610:LOCATE 1,1:PRINT"CASSIOPEE" >CL

10640 GOSUB 15000 >LT
10642 LOCATE 43,17:PRINT"Schldir":LOCATE 55,15:PRINT"Ca >JH
ph"
10650 GOSUB 15100 >LV
10655 RESTORE 10660 >NF
10660 DATA 311,362,2,308,297,3,311,236,3,353,216,3,350, >XD
158,4,410,167,4,1,0,0
10670 GOSUB 16000 >LX
10690 GOSUB 15100:RETURN >UH
10700 'CEPHEE >DD
10710 CLS:e=14:RESTORE 10710:LOCATE 1,1:PRINT"CEPHEE" >ZF

10740 GOSUB 15000 >LU
10743 LOCATE 50,18:PRINT"Aldiramin" >HL
10750 GOSUB 15100 >LW
10755 RESTORE 10760 >NH
10760 DATA 395,329,2,365,227,3,393,134,4,365,83,2,320,7 >EY
4,3,290,77,2,272,176,2,263,317,3,395,327,0,0,0,0,393,13
4,0,443,140,3,458,164,2,1,0,0
10770 GOSUB 16000 >LY
10790 GOSUB 15100:RETURN >UJ
10800 'CHIENS DE CHASSE >DE
10810 CLS:e=6:RESTORE 10810:LOCATE 1,1:PRINT"CHIENS DE >MK
CHASSE"
10840 GOSUB 15000 >LV
10843 LOCATE 40,14:PRINT"Coeur de Charles II" >VT
10850 GOSUB 15100 >LX
10855 RESTORE 10860 >NK
10860 DATA 381,209,2,365,236,2,320,200,3,275,229,2,231, >JW
178,2,1,0,0
10870 GOSUB 16000 >LZ
10890 GOSUB 15100:RETURN >UK
10900 'COCHER >DF
10910 CLS:e=17:RESTORE 10910:LOCATE 1,1:PRINT"COCHER" >ZZ

10940 GOSUB 15000 >LW

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10943 LOCATE 48,9:PRINT"Capella":LOCATE 44,24:PRINT"EI >MU
Nath":LOCATE 24,11:PRINT"Menkalinan"
10950 GOSUB 15100 >LY
10955 RESTORE 10960 >NM
10960 DATA 272,350,2,356,255,6,389,233,3,392,203,2,419, >QM
110,3,362,47,5,280,141,3,278,236,4,272,350,0,0,0,0,389,
233,0,382,203,2,392,203,0,0,0,0,278,236,0,356,255,0,1,0
,0
10970 GOSUB 16000 >LA
10990 GOSUB 15100:RETURN >UL
11000 'COURONNE BOREALE >CH
11010 CLS:e=12:RESTORE 11010:LOCATE 1,1:PRINT"COURONNE >NF
BOREALE"
11040 GOSUB 15000 >LM
11042 LOCATE 44,15:PRINT"Gemma" >BC
11045 RESTORE 11060 >NU
11050 GOSUB 15100 >LP
11060 DATA 356,245,1,364,217,2,348,190,3,329,185,2,311, >WC
185,1,293,197,1,245,252,1,248,295,1,0,0,0,293,197,0,290
,234,2,1,0,0
11070 GOSUB 16000 >LR
11090 GOSUB 15100:RETURN >UC
11100 'CYGNE >CJ
11110 CLS:e=17:RESTORE 11110:LOCATE 1,1:PRINT"CYGNE" >YT
11140 GOSUB 15000 >LN
11143 LOCATE 36,8:PRINT"D(neb":LOCATE 58,23:PRINT"Albir >KC
lo"
11150 GOSUB 15100 >LQ
11155 RESTORE 11160 >NX
11160 DATA 434,368,2,416,347,1,410,324,2,403,260,4,339, >WH
194,4,293,112,4,233,68,3,160,56,2,0,0,0,226,178,1,250,2
34,2,296,251,5,339,194,0,398,137,2,416,111,2,470,62,3,1
,0,0
11170 GOSUB 16000 >LT
11190 GOSUB 15100:RETURN >UD
11200 ' DAUPHIN >CK
11210 CLS:e=7:RESTORE 11210:LOCATE 1,1:PRINT"DAUPHIN" >AU

11230 GOSUB 15000 >LN
11250 GOSUB 15100 >LR
11255 RESTORE 11260 >NZ
11260 DATA 341,164,2,329,203,2,320,221,2,300,224,2,308, >WQ
210,1,329,203,0,1,0,0
11270 GOSUB 16000 >LU
11290 GOSUB 15100:RETURN >UE
11300 ' DRAGON >DA
11310 CLS:e=19:RESTORE 11310:LOCATE 1,1:PRINT"DRAGON" >ZY

11340 GOSUB 15000 >LQ
11341 LOCATE 13,21:PRINT"Etamin" >CC
11350 GOSUB 15100 >LT
11355 RESTORE 11360 >NB
11360 DATA 605,371,3,566,314,2,527,197,2,440,98,3,380,8 >QD
6,2,345,124,3,294,185,3,258,291,2,177,279,3,191,111,2,2
20,77,2,209,41,3,155,57,4,191,111,0,0,0,0,258,291,0,178
,330,2,143,329,2,1,0,0
11370 GOSUB 16000 >LV
11380 GOSUB 15100:RETURN >UE
11400 'FLECHE >DB

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11410 CLS:e=7:RESTORE 11410:LOCATE 1,1:PRINT"FLECHE" >YB
11430 GOSUB 15000 >LQ
11440 GOSUB 15100 >LT
11450 RESTORE 11460 >NY
11460 DATA 343,195,1,320,200,2,287,212,2,0,0,0,338,186, >QY
1,320,200,0,1,0,0
11470 GOSUB 16000 >LW
11480 GOSUB 15100:RETURN >UF
11500 'GEMEAUX >DC
11510 CLS:e=23:RESTORE 11510:LOCATE 1,1:PRINT"GEMEAUX" >BB

11530 GOSUB 15000 >LR
11540 LOCATE 19,9:PRINT"Pollux":LOCATE 23,6:PRINT"Casto >AP
r":LOCATE 56,18:PRINT"Alhina"
11550 GOSUB 15100 >LV
11555 RESTORE 11560 >NF
11560 DATA 214,258,5,293,185,2,340,168,2,423,117,5,467, >CA
191,3,391,224,2,320,287,2,241,307,5,214,258,0,0,0,0,293
,185,0,299,119,2,0,0,0,423,117,0,399,75,2,0,0,0,467,191
,0,494,191,2,0,0,0,383,331,2,320,287,0,273,257,2,1,0,0
11570 GOSUB 16000 >LX
11580 GOSUB 15100:RETURN >UG
11600 'GIRAFE >DD
11610 CLS:e=7:RESTORE 11610:LOCATE 1,1:PRINT"GIRAFE" >YM
11630 GOSUB 15000 >LT
11650 GOSUB 15100 >LW
11655 RESTORE 11660 >NH
11660 DATA 263,339,2,364,278,2,401,59,2,330,122,2,326,1 >WR
96,2,364,278,0,1,0,0
11670 GOSUB 16000 >LY
11680 GOSUB 15100:RETURN >UH
11700 'GRANDE OURSE >DE
11710 CLS:e=28:RESTORE 11710:LOCATE 1,1:PRINT"GRANDE OU >HM
RSE"
11730 GOSUB 15000 >LU
11740 LOCATE 4,7:PRINT"Alkaid":LOCATE 13,2:PRINT"Hisar" >MY
:LOCATE 19,3:PRINT"Alloth":LOCATE 29,4:PRINT"Meirez":LO
CATE 41,3:PRINT"Dubhe":LOCATE 43,9:PRINT"Merak":LOCATE
33,9:PRINT"Phecda"
11750 GOSUB 15100 >LX
11755 RESTORE 11760 >NK
11760 DATA 38,317,5,110,350,3,158,338,5,221,323,3,341,3 >NR
43,5,329,281,4,239,274,4,221,323,0,0,0,0,341,343,0,476,
339,2,566,311,3,467,204,3,524,161,2,515,150,2,467,204,0
,435,234,1,281,146,3,375,110,3,364,93,3,281,146,0,230,2
04,3,230,20,3,224,2,2,0,0,0
11761 DATA 239,274,0,230,204,0,1,0,0 >AC
11770 GOSUB 16000 >LZ
11780 GOSUB 15100:RETURN >UJ
11800 'HERCULE >DF
11810 CLS:e=33:RESTORE 11810:LOCATE 1,1:PRINT"HERCULE" >BE

11830 GOSUB 15000 >LV
11840 LOCATE 43,25:PRINT"Ras Algethi":LOCATE 56,20:PRIN >EA
T"Kornephorus"
11850 GOSUB 15100 >LY
11855 RESTORE 11860 >NH
11860 DATA 257,362,2,223,256,3,290,255,2,310,251,3,347, >JC
182,2,317,107,2,279,121,2,242,140,3,216,158,2,194,154,2

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,0,0,0,317,107,0,320,5,3,0,0,0,440,397,2,407,397,2,0,0,
0,469,344,1,430,365,2,407,397,0,387,328,1,373,283,4,387
,193,3,426,77,3,452,53,1,452,20,1
11865 DATA 0,0,0,373,283,0,310,251,0,0,0,0,387,193,0,34 >LA
7,182,0,1,0,0
11870 GOSUB 16000 >LA
11890 GOSUB 15100:RETURN >UL
11900 'HYDRE FEMELLE >DG
11910 CLS:e=14:RESTORE 11910:LOCATE 1,1:PRINT"HYDRE FEM >JC
ELLE"
11930 GOSUB 15000 >LW
11940 LOCATE 42,14:PRINT"Alphard" >EH
11950 GOSUB 15100 >LZ
11955 RESTORE 11960 >NP
11960 DATA 446,362,2,461,335,2,477,333,2,480,360,2,452, >LB
369,3,446,362,0,427,362,3,368,320,2,327,208,4,254,116,2
,150,90,2,111,91,2,77,98,3,1,0,0
11965 GOSUB 16000 >LF
11970 GOSUB 15100:RETURN >UK
12000 'LEZARD >CJ
12010 CLS:e=5:RESTORE 12010:LOCATE 1,1:PRINT"LEZARD" >YX

12030 GOSUB 15000 >LM
12050 GOSUB 15100 >LQ
12055 RESTORE 12060 >NX
12060 DATA 327,266,2,320,240,2,328,210,2,380,98,2,1,0,0 >WA
12065 GOSUB 16000 >LX
12070 GOSUB 15100:RETURN >UB

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12100 'LICORNE >CK
12110 CLS:e=12:RESTORE 12110:LOCATE 1,1:PRINT"LICORNE" >BT
12130 GOSUB 15000 >LN
12140 GOSUB 15100 >LQ
12145 RESTORE 12150 >NX
12150 DATA 346,367,2,368,335,2,395,292,2,320,277,2,230, >UY
241,2,156,131,2,74,212,2,0,0,0,230,241,0,377,161,2,421,
169,2,1,0,0
12155 GOSUB 16000 >LX
12160 GOSUB 15100:RETURN >UB
12200 'LION >DA
12210 CLS:e=15:RESTORE 12210:LOCATE 1,1:PRINT"LION" >XY
12230 GOSUB 15000 >LP
12240 LOCATE 57,14:PRINT"R{gulus":LOCATE 53,9:PRINT"A{g >KT
i{ba":LOCATE 15,15:PRINT"D{n{bola"
12250 GOSUB 15100 >LT
12255 RESTORE 12260 >NB
12260 DATA 506,308,3,485,335,2,413,302,3,401,261,4,236, >GD
269,3,129,198,4,236,208,3,437,164,5,440,224,3,401,261,0
,0,0,0,437,164,0,520,140,3,547,157,2,1,0,0
12270 GOSUB 16000 >LV
12280 GOSUB 15100:RETURN >UE
12300 'LYNX >DB
12310 CLS:e=7:RESTORE 12310:LOCATE 1,1:PRINT"LYNX" >WG
12330 GOSUB 15000 >LQ
12340 GOSUB 15100 >LT
12345 RESTORE 12350 >NB
12350 DATA 191,27,3,195,57,2,231,115,2,396,225,2,418,34 >UX

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5,2,470,368,2,1,0,0
12355 GOSUB 16000 >LZ
12360 GOSUB 15100:RETURN >UD
12400 'LYRE >DC
12410 CLS:e=13:RESTORE 12410:LOCATE 1,1:PRINT"LYRE" >XL
12430 GOSUB 15000 >LR
12440 LOCATE 44,10:PRINT"V(ga":LOCATE 43,15:PRINT"Sh(ly >KN
ak"
12450 GOSUB 15100 >LV
12455 RESTORE 12460 >NF
12460 DATA 385,198,2,347,228,6,330,239,2,271,232,1,266, >PZ
219,2,0,0,0,347,228,0,330,214,2,311,204,1,302,154,2,323
,161,3,330,214,0,1,0,0
12470 GOSUB 16000 >LX
12480 GOSUB 15100:RETURN >UG
12500 'OPHIUCUS >DD
12510 CLS:e=12:RESTORE 12510:LOCATE 1,1:PRINT"OPHIUCUS" >CL

12530 GOSUB 15000 >LT
12540 LOCATE 17,1:PRINT"Ras Alhague":LOCATE 41,23:PRINT >QM
"Sabik"
12550 GOSUB 15100 >LW
12555 RESTORE 12560 >NH
12560 DATA 225,374,4,338,338,3,416,249,2,465,182,3,453, >PN
170,3,299,42,2,197,279,4,225,374,0,0,0,0,299,42,0,269,2
,2,1,0,0
12570 GOSUB 16000 >LY
12580 GOSUB 15100:RETURN >UH
12600 'ORION >DE
12610 CLS:e=18:RESTORE 12610:LOCATE 1,1:PRINT"ORION" >YA
12630 GOSUB 15000 >LU
12640 LOCATE 44,7:PRINT"Bellatrix":LOCATE 25,6:PRINT"B( >KW
telgeuse":LOCATE 30,14:PRINT"Alnitak":LOCATE 46,13:PRIN
T"Rintak":LOCATE 53,19:PRINT"Rigel":LOCATE 34,22:PRINT"
Saiph"
12650 GOSUB 15100 >LX
12655 RESTORE 12660 >NK
12660 DATA 449,330,2,473,312,2,467,287,2,471,269,2,452, >AR
230,3,439,222,2,358,278,5,266,293,6,308,179,5,323,188,5
,335,200,4,358,278,0,0,0,0,308,179,0,287,84,4,389,101,6
,335,200,0,1,0,0
12670 GOSUB 16000 >LZ
12680 GOSUB 15100:RETURN >UJ
12700 'PEGASE >DF
12710 CLS:e=23:RESTORE 12710:LOCATE 1,1:PRINT"PEGASE" >ZX

12730 GOSUB 15000 >LV
12740 LOCATE 17,17:PRINT"Algenib":LOCATE 17,4:PRINT"Sir >BM
rah Alph(ratz":LOCATE 47,15:PRINT"Markab":LOCATE 40,4:P
RINT"Scheat":LOCATE 74,21:PRINT"Enif"
12750 GOSUB 15100 >LY
12755 RESTORE 12760 >NH
12760 DATA 149,329,4,140,159,4,349,159,4,353,316,3,149, >JY
329,0,0,0,0,353,316,0,395,275,2,404,261,2,524,283,2,598
,287,2,0,0,0,349,159,0,401,122,2,419,107,3,514,49,2,596
,94,4,419,107,0,0,0,0,596,94,0,594,185,2,638,215,2,1,0,
0
12770 GOSUB 16000 >LA
12780 GOSUB 15100:RETURN >UK

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12800 'PERSEE >DG
12810 CLS:e=13:RESTORE 12810:LOCATE 1,1:PRINT"PERSEE" >AF

12830 GOSUB 15000 >LM
12840 LOCATE 44,7:PRINT"Mirfak":LOCATE 47,14:PRINT"Algo >HU
|"
12850 GOSUB 15100 >LZ
12855 RESTORE 12860 >NP
12860 DATA 245,84,4,239,130,1,248,180,4,286,271,3,320,2 >NX
92,5,356,334,3,378,364,1,495,313,2,0,0,0,320,292,0,347,
185,5,352,158,3,1,0,0
12870 GOSUB 16000 >LB
12880 GOSUB 15100:RETURN >UL
12900 'PETIT CHEVAL >DH
12910 CLS:e=11:RESTORE 12910:LOCATE 1,1:PRINT"PETIT CHE >HD
VAL"
12930 GOSUB 15000 >LX
12940 GOSUB 15100 >LZ
12945 RESTORE 12950 >NP
12950 DATA 309,170,2,287,191,1,309,227,2,309,170,0,323, >CY
230,2,359,161,2,309,170,0,0,0,0,309,227,0,323,230,2,1,0
,0
12960 GOSUB 16000 >LB
12970 GOSUB 15100:RETURN >UL
13000 'PETIT CHIEN >CK
13010 CLS:e=3:RESTORE 13010:LOCATE 1,1:PRINT"PETIT CHIE >ED
N"
13030 GOSUB 15000 >LN
13040 LOCATE 35,16:PRINT"Procyon" >EE
13050 GOSUB 15100 >LR
13055 RESTORE 13060 >NZ
13060 DATA 303,183,6,341,220,3,1,0,0 >AX
13065 GOSUB 16000 >LY
13070 GOSUB 15100:RETURN >UC
13100 'PETIT LION >DA
13110 CLS:e=5:RESTORE 13110:LOCATE 1,1:PRINT"PETIT LION >DX
"
13130 GOSUB 15000 >LP
13140 GOSUB 15100 >LR
13145 RESTORE 13150 >NZ
13150 DATA 226,181,2,284,200,2,323,176,1,395,182,2,1,0, >XK
0
13155 GOSUB 16000 >LY
13160 GOSUB 15100:RETURN >UC
13200 'PETITE OURSE >DB
13210 CLS:e=9:RESTORE 13210:LOCATE 1,1:PRINT"PETITE OUR >GC
SE"
13230 GOSUB 15000 >LQ
13240 LOCATE 46,14:PRINT"Kochab":LOCATE 36,1:PRINT"Etoi >YJ
le Polaire"
13250 GOSUB 15100 >LU
13255 RESTORE 13260 >ND
13260 DATA 320,200,2,299,176,1,348,133,2,367,166,4,320, >BM
200,0,290,252,2,293,308,2,305,356,5,1,0,0
13265 GOSUB 16000 >LA
13270 GOSUB 15100:RETURN >UE
13300 'POISSONS >DC
13310 CLS:e=30:RESTORE 13310:LOCATE 1,1:PRINT"POISSONS" >CZ

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13330 GOSUB 15000 >LR
13340 GOSUB 15100 >LU
13345 RESTORE 13350 >ND
13350 DATA 254,395,1,275,320,1,228,247,2,221,290,2,207, >QE
321,2,230,356,2,254,395,0,0,0,0,228,247,0,168,177,2,125
,102,2,74,25,2,101,31,2,136,57,2,170,65,2,218,76,1,254,
85,2,298,82,2,450,73,2,509,61,2,546,71,2,569,59,1,578,3
3,3,547,8,2,501,14,2,509,61,0,0,0,0
13355 DATA 578,33,0,609,39,1,1,0,0 >ZY
13360 GOSUB 16000 >LW
13390 GOSUB 15100:RETURN >UH
13400 'SEXTANT >DD
13410 CLS:e=8:RESTORE 13410:LOCATE 1,1:PRINT"SEXTANT" >AL
13430 GOSUB 15000 >LT
13440 GOSUB 15100 >LV
13445 RESTORE 13450 >NF
13450 DATA 347,240,2,281,212,2,277,237,2,347,240,0,394, >LJ
146,2,317,146,2,347,240,0,1,0,0
13460 GOSUB 16000 >LX
13470 GOSUB 15100:RETURN >UG
13500 'TAUREAU >DE
13510 CLS:e=14:RESTORE 13510:LOCATE 1,1:PRINT"TAUREAU" >BT

13530 GOSUB 15000 >LU
13540 LOCATE 30,14:PRINT"Ald{baran":LOCATE 17,2:PRINT"E >UL
l Nath":LOCATE 59,6:PRINT"Les Pliades"
13541 PLOT 467,295:PLOT 464,295:PLOT 469,291:PLOT 462,2 >KT
90:PLOT 458,292:PLOT 453,290
13550 GOSUB 15100 >LX
13555 RESTORE 13560 >NK
13560 DATA 313,201,6,122,257,3,158,350,5,335,233,2,461, >UM
291,0,519,117,2,418,150,2,361,188,2,350,212,2,335,233,0
,313,201,0,329,197,2,361,188,0,1,0,0
13565 GOSUB 16000 >LD
13570 GOSUB 15100:RETURN >UH
13600 'TETE DU SERPENT >DF
13610 CLS:e=12:RESTORE 13610:LOCATE 1,1:PRINT"TETE DU S >MU
ERPENT"
13630 GOSUB 15000 >LV
13640 LOCATE 44,12:PRINT"Coeur du Serpent" >RH
13650 GOSUB 15100 >LY
13655 RESTORE 13660 >NM
13660 DATA 319,317,2,341,367,1,310,348,1,288,318,2,319, >BJ
317,0,350,262,2,320,224,1,326,213,3,306,191,2,308,163,1
,312,96,2,1,0,0
13670 GOSUB 16000 >LA
13680 GOSUB 15100:RETURN >UK
13700 'TRIANGLE >DG
13710 CLS:e=5:RESTORE 13710:LOCATE 1,1:PRINT"TRIANGLE" >BQ
13730 GOSUB 15000 >LW
13740 GOSUB 15100 >LY
13750 RESTORE 13760 >NJ
13760 DATA 356,197,2,307,264,3,286,247,2,356,197,0,1,0, >XX
0
13770 GOSUB 16000 >LB
13780 GOSUB 15100:RETURN >UL
13800 'VIERGE >DH
13810 CLS:e=15:RESTORE 13810:LOCATE 1,1:PRINT"VIERGE" >AH
13830 GOSUB 15000 >LX

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13840 LOCATE 38,21:PRINT"Spica":LOCATE 55,13:PRINT"Porr >KW
ima":LOCATE 47,1:PRINT"Almuredin Vindemiatrix"
13850 GOSUB 15100 >LA
13855 RESTORE 13860 >NR
13860 DATA 71,257,2,205,253,2,286,227,3,316,101,5,359,1 >ER
70,2,443,218,3,401,275,3,383,365,4,335,299,3,286,227,0,
0,0,0,443,218,0,508,226,2,596,256,3,1,0,0
13870 GOSUB 16000 >LC
13880 GOSUB 15100:RETURN >UH
15000 ' Affichage Etoiles >DB
15010 FOR i=1 TO e >LU
15020 READ xe,ye,re >NP
15030 FOR j=0 TO 6.28 STEP 1 >UH
15040 PLOT xe,ye:DRAW xe+(re*1.5)*COS(j),ye+(re*1.5)*SI >ZQ
N(j):NEXT j:NEXT i
15050 RETURN >MD
15100 ' Test d'une touche >DC
15110 LOCATE 1,25:PRINT"APPUYER SUR UNE TOUCHE" >VA
15120 a$=INKEY$:IF a$="" THEN 15120 >AV
15130 RETURN >MC
16000 'AFFICHAGE LIAISONS ETOILES >DC
16010 READ xe,ye,re:PLOT xe,ye >ZZ
16020 READ xe,ye,re >NQ
16030 IF xe=0 THEN READ xe,ye,re:PLOT xe,ye:GOTO 16050 >YT
16040 IF xe=1 THEN RETURN >UY
16050 DRAW xe,ye >LK
16060 GOTO 16020 >BE

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