

Micro  
Informatique  
Standards AMSTRAD

# HORS SERIE

## LISTINGS

# CPC

**SPECIAL  
JEUX**



M 2604 - 11 - 15,00 F-RD



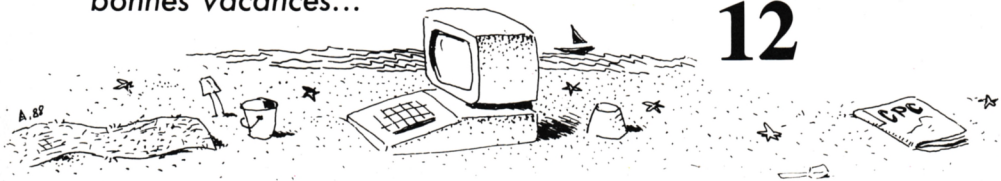
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# EDITO

**L**e numéro hors série que vous tenez fébrilement entre vos mains impatientes de partir au contact du clavier est un numéro spécial jeux. En effet, nous avons pensé que la proximité évidente des vacances inciterait à des activités ludiques plutôt qu'à une programmation forcenée. Mais que les stakhanovistes du listing se rassurent ; ils trouveront également un programme utilitaire et un éducatif dans ce numéro. Une fois de plus, il y en a pour tout le monde.

Alors, bon courage et bonnes vacances...



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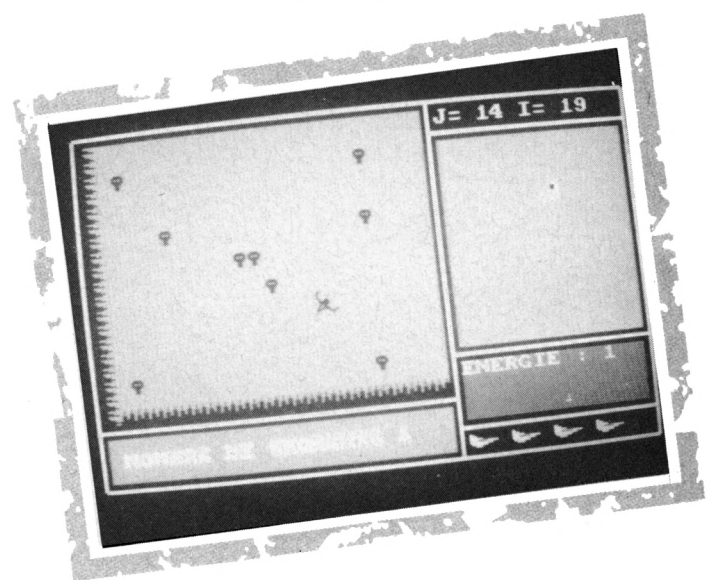


# ULCINOR

**P**risonnier au milieu d'un labyrinthe intersidéral, vous cherchez les 9 morceaux de la clé, unique objet de votre libération. Les pièces du labyrinthe sont truffées de têtes de mort au contact destructeur. Grâce aux touches fléchées, vous déplacerez votre vaisseau et vous parviendrez peut-être ainsi à vous en sortir vivant.

VALABLE POUR  
 ✕ CPC 664  
 ✕ CPC 6128

Bonne chance...  
 Le mode d'emploi est inclus dans le programme.



F a b r i c e • F U Z E A U

```

10 CLEAR:DEFINT A-Z:GOSUB 200:INK 0,0:INK 1,15:INK 2,6: >JR
INK 3,2:PAPER 0:PEN 1:BORDER 0:GOSUB 1660:GOSUB 1870:MD
DE 1:VIE=4:P=5:C=0:FG=2:DIM P(24,19),L(25,27),O(27):OB=
0:FOR I=0 TO 27:O(I)=0:NEXT:X=12:Y=16
20 T$="000011011110011110110101101011000011100101101000
00100001010000001110011110111101":T1$="000001111101011
1110001111000101101001101001010010000010000100001101101
111100111":P$="000000-101-1010001010001-101-100-1-1"
30 RESTORE 40:FOR H=1 TO 6:READ A,B,C,D,E:WINDOW #H,A,B >YC
,C,D:PAPER #H,E:CLS #H:NEXT:PEN #1,0
40 DATA 25,2,20,2,3,25,2,24,22,3,39,27,17,4,3,39,27,24, >JG
24,0,27,39,22,19,2,39,27,2,2,0
50 GOTO 510 >RK
60 >LF
70 IF INKEY(1)=0 THEN SOUND 1,300,5,15:P=P+1-B*INT(P/8) >NZ
:LOCATE #1,X,Y:PRINT #1,O$(P)
80 IF INKEY(8)=0 THEN SOUND 1,200,5,15:P=P-1+B*INT(1/P) >NZ
:LOCATE #1,X,Y:PRINT #1,O$(P)
90 IF INKEY(0)=0 THEN 100 ELSE 110 >ZF
100 KL$=MID$(P$,P*4+1,4):LM=VAL(MID$(KL$,1,2)):KM=VAL(M
ID$(KL$,3,2))
110 IF DIF=1 AND INKEY(2)=0 THEN LM=0:KM=0:GOTO 140 >UC
120 IF INKEY(47)=0 THEN CLS #2:LOCATE #2,2,2:PRINT #2," >MJ
(16,0);(14,8);(13,9) (5,12);(20,27);(16,15) (1,14)
;(11,21);(15,20)":WHILE INKEY(<)"":WEND:CALL &BBO6:CLS
#2:GOSUB 1640:GOTO 140
130 SOUND 2,2000,5,15:PEN #1,0:X=X+LM:Y=Y+KM:GOSUB 160: >ME
LOCATE #1,X,Y:PRINT #1,O$(P)
140 RETURN >ZA
150 >RG
160 IF (LM=0 AND KM=-1) OR (LM=0 AND KM=1) OR (LM=-1 AN >MB
D KM=0) OR (LM=1 AND KM=0) THEN LOCATE #1,X-LM*2,Y-KM*2
:PRINT #1,K$(1):RETURN
170 IF (LM=1 AND KM=-1) OR (LM=-1 AND KM=1) OR (LM=1 AN >HT
D KM=1) OR (LM=-1 AND KM=-1) THEN LOCATE #1,X-LM,Y-KM:P
RINT #1,K$(1):RETURN
180 RETURN >ZE
190 >TA
    
```

```

200 RESTORE 240:DIM O$(8):SYMBOL AFTER 128:FOR I=160 TO >KP
233:READ C1,C2,C3,C4,C5,C6,C7,C8:SYMBOL I,C1,C2,C3,C4,
C5,C6,C7,C8:NEXT
210 Y$=CHR$(128):K=1:FOR B=160 TO 191 STEP 4:O$(K)=CHR$ >MB
(B)+CHR$(B+1)+" "+CHR$(B+2)+CHR$(B+3):K=K+1:NEXT:K$(1
)=Y$+Y$+" "+Y$+Y$
220 EX$(1)=CHR$(196)+Y$+" "+Y$+CHR$(197):K=2:FOR B=19 >PZ
8 TO 225 STEP 4:EX$(K)=CHR$(B)+CHR$(B+1)+" "+CHR$(B+2
)+CHR$(B+3):K=K+1:NEXT:Q$(1)=CHR$(192)+CHR$(193)+CHR$(2
2)+CHR$(1)
230 Q$(2)=CHR$(194)+CHR$(195)+CHR$(22)+CHR$(0):F$=CHR$( >VB
143):L$=CHR$(149)
240 DATA 0,0,0,0,1,3,7,15,0,0,128,128,192,224,112,120,3 >CN
1,25,17,17,0,0,0,0,252,204,196,196,0,0,0,0
250 DATA 0,0,16,60,103,3,1,3,0,0,4,24,120,208,176,224,7 >WG
,3,1,0,0,0,0,0,240,176,24,8,12,24,16,0
260 DATA 0,0,0,15,3,1,1,15,0,0,0,0,128,192,224,240,15,1 >XT
5,1,1,3,15,0,0,60,240,224,192,128,0,0,0
270 DATA 0,0,0,0,0,1,3,7,0,16,24,12,8,24,176,240,3,1,3, >WB
103,60,16,0,0,224,160,208,120,24,4,0,0
280 DATA 0,0,0,0,35,35,51,63,0,0,0,0,136,136,152,240,30 >XX
,14,7,3,1,1,0,0,240,224,192,128,0,0,0,0
290 DATA 0,8,24,48,16,24,13,15,0,0,0,0,0,128,192,224,7, >DR
13,11,30,24,32,0,0,192,128,192,230,60,8,0,0
300 DATA 0,0,0,1,3,7,15,60,0,0,240,192,128,128,240,240, >CH
15,7,3,1,0,0,0,0,240,128,128,192,240,0,0,0
310 DATA 0,0,32,24,30,11,13,7,0,0,8,60,230,192,128,192, >DJ
15,13,24,16,48,24,8,0,224,192,128,0,0,0,0,0
320 DATA 192,240,254,255,255,127,30,0,0,0,0,255,248,192 >WK
,0,0,0,0,0,15,0,0,0,0
330 DATA 0,0,0,192,0,0,0,0,0,0,0,0,0,0,0,1,128,0,0,0,0, >VV
0,0,0,0,0,0,0,0,0,2,1
340 DATA 0,0,0,0,0,0,64,128,2,2,0,0,0,0,0,0,64,128,0,0, >YY
0,0,0,0,0,0,0,0,2,1,6
350 DATA 0,0,0,0,0,160,64,64,5,5,2,0,0,0,0,0,192,64,32, >EX
0,0,0,0,0,0,0,0,4,10,5,9,0,0,0,0,144,32,80,64,5,10,5,
4,0,0,0,0,96,176,96,80,0,0,0,0
360 DATA 0,0,0,10,13,18,12,21,0,0,0,72,32,80,168,32,25, >QC
    
```





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12,25,10,18,0,0,0
370 DATA 32,88,160,24,72,0,0,0,0,0,20,1,4,16,5,0,0,0,84 >MV
,0,196,48,72,4
380 DATA 17,4,10,17,4,17,0,0,16,64,148,72,20,0,0,0,68 >RW
,17,36,42,81,8,34
390 DATA 0,72,36,82,136,144,66,0,8,82,8,42,16,69,17,0,0 >XF
,84,32,138,32,84,18,0
400 DATA 1,1,15,15,1,1,1,1,1,128,128,240,240,128,128,128, >6J
128,7,8,16,32,64,255,128,255
410 DATA 224,16,8,4,2,255,1,255,34,34,39,119,119,127,25 >QX
5,255,255,255,127,119,119,39,34,34
420 DATA 192,248,255,192,224,252,255,252,63,255,63,7,31 >6E
,255,31,3
430 DATA 0,0,0,1,14,24,49,34,98,68,76,72,72,76,68,98,0, >6G
0,0,192,56,12,230,50,19,17,16,16,17,17,17,19
440 RESTORE 450:FOR I=245 TO 252:READ C1,C2,C3,C4,C5,C6 >MZ
,C7,C8:SYMBOL I,C1,C2,C3,C4,C5,C6,C7,C8:NEXT
450 DATA 0,224,16,16,32,32,32,32,34,49,24,14,1,0,0,0,50 >QT
,230,12,56,192,0,0,0,1,0,0,0,0,0,0,192,0,0,0,0,0,0,0,
2,2,2,1,0,0,0,0,32,32,32,224,0,0,0,0,249,138,254,250,24
9,253,255,248
460 SYMBOL 143,124,254,214,254,124,56,56,56 >JX
470 SYMBOL 235,0,255,0,0,255,1,1,1 >AQ
480 SYMBOL 237,0,255,0,0,7,117,85,92 >CK
490 SYMBOL 239,0,255,0,0,126,66,194,2 >CC
500 RETURN >ZA
510 RESTORE 520:FOR H=1 TO 6:READ A,B,C,D:LOCATE A,B:PR >EP
INT STRING$(C,D);:NEXT
520 DATA 1,1,40,154,1,25,40,154,1,21,25,154,26,18,14,15 >DE
4,26,23,14,154,26,3,14,154
530 FOR I=1 TO 25:LOCATE 1,I:PRINT L$;:LOCATE 40,I:PRIN >UV
T L$;:LOCATE 26,I:PRINT L$;:NEXT
540 FOR H=1 TO 14:READ A,B,C:LOCATE A,B:PRINT CHR$(C); >EH
NEXT
550 DATA 1,1,150,1,25,147,40,25,153,40,1,156,1,21,151,2 >FE
6,23,151,26,18,151,26,3,151,26,25,155,40,23,157,40,18,1
57,26,1,158,40,3,157,26,21,157
560 GOSUB 1310:GOSUB 1640 >TC
570 FOR H=1 TO 8:READ A,B,C,D:PEN #4,A:LOCATE #4,B,C:PR >VD
INT #4,Q$(D):NEXT
580 DATA 1,1,1,1,2,1,1,2,1,4,1,1,2,4,1,2,1,7,1,1,2,7,1, >TK
2,1,10,1,1,2,10,1,2
590 RESTORE 610:FOR I=0 TO 27:FOR J=0 TO 25:READ A:L(J, >RB
I)=A:NEXT:NEXT
600 'labyrinthel >RG
610 DATA 7,14,5,14,5,3,1,5,5,5,14,5,14,14,14,3,19,5,5,5 >NN
,14,5,5,14,5,10
620 DATA 6,9,3,9,10,7,5,5,10,1,13,10,6,6,6,2,1,14,5,10, >LC
6,1,10,11,3,6
630 DATA 6,2,7,14,13,15,14,3,4,7,14,12,6,6,6,11,10,9,10 >PK
,9,12,2,9,15,3,4
640 DATA 6,9,8,9,3,4,9,14,5,8,6,6,6,6,9,8,6,1,12,7,13,8 >FB
,2,9,10,2
650 DATA 11,5,14,3,7,10,7,15,10,7,8,4,4,11,5,5,15,10,6, >MU
9,5,5,12,2,6,6
660 DATA 11,3,9,5,8,9,12,4,4,9,3,7,5,8,7,10,6,9,15,3,1, >JP
14,13,8,6,6
670 DATA 6,7,14,14,14,3,9,10,1,5,10,6,1,5,12,9,13,3,9,3 >NQ
,7,13,5,14,12,6
680 DATA 11,8,4,11,13,5,3,6,1,5,13,13,5,10,6,1,10,1,14, >MU
3,4,1,10,6,6,6
690 DATA 11,14,3,9,10,7,3,6,2,7,5,14,5,8,18,7,8,1,12,2, >LP
1,5,15,8,9,12
700 DATA 6,9,5,10,11,8,2,4,11,8,2,6,7,17,7,15,5,5,13,13 >MZ
,14,10,6,2,7,8
710 DATA 6,1,14,8,11,3,11,5,12,7,8,6,9,10,6,11,10,1,14, >QV
14,8,11,13,13,8,2
720 DATA 11,10,11,3,4,7,12,2,6,6,2,9,5,8,6,4,4,2,6,11,3 >JC
,4,7,14,10,6
730 DATA 6,6,11,5,3,18,4,6,4,6,11,5,3,7,8,7,5,13,12,6,7 >JH
,14,8,6,4,6
740 DATA 6,4,6,7,14,5,5,13,5,8,6,2,1,15,3,11,10,2,4,11, >KD
8,6,2,9,5,12
750 DATA 4,19,8,6,6,7,10,1,10,7,13,8,7,8,1,8,9,15,3,9,1 >LR
0,4,11,14,3,6
760 DATA 2,2,7,12,9,8,6,7,12,9,5,10,6,1,14,3,19,8,2,7,1 >KY
3,14,8,4,2,6
770 DATA 6,9,8,9,14,10,6,6,9,5,10,11,13,5,12,7,10,2,11, >NV
15,3,11,3,7,8,4
780 DATA 11,3,2,7,12,4,6,4,7,5,12,11,5,14,12,6,4,9,8,9, >PX
10,11,10,11,10,2
790 DATA 11,3,11,8,6,2,9,5,12,7,15,13,3,4,9,13,5,10,2,7 >KG
,8,4,9,8,9,8
800 DATA 6,7,15,5,8,6,1,10,4,6,11,5,5,10,7,10,2,11,8,9, >KA
5,5,14,5,3,2
810 DATA 6,6,11,5,5,8,7,8,7,8,11,3,2,9,8,18,6,9,10,7,5, >JL
5,13,10,2,6
820 DATA 11,8,6,1,10,1,13,10,6,7,12,16,9,10,2,7,12,7,6, >MY
9,10,7,5,8,6,6
830 DATA 11,10,9,14,13,14,5,13,12,4,9,8,7,8,6,6,11,15,3 >PT
,2,4,9,10,7,12,6
840 DATA 6,9,10,6,2,4,7,10,9,5,14,3,6,7,8,6,4,9,10,9,10 >LK
,1,13,12,9,12
850 DATA 6,1,8,6,9,5,12,6,7,5,8,7,13,15,5,8,7,3,9,10,9, >KL
14,14,8,1,12
860 DATA 11,10,7,12,7,3,6,9,13,14,10,6,7,13,14,10,9,10, >RM
7,8,7,8,9,14,10,6
870 DATA 4,9,8,4,6,2,4,1,5,8,11,12,9,3,4,4,7,13,13,3,4, >GN
7,10,4,4,6
880 DATA 1,5,5,5,13,13,5,5,5,5,13,13,5,5,5,5,13,5,5,3,1 >LK
9,13,13,5,5,8
890 GOTO 940 >AG
900 ' >RK
910 IF L(J,I)>15 THEN CM=0 >TX
920 GOSUB 1140:GOSUB 930:PLOT 8,0:PLOT 0,8:PLOT -8,0 >MF
:PLOT 0,-8:DRAWR 0,8*CB:GOSUB 930:PLOT 8,0:DRAWR 0,8*
CD:GOSUB 930:DRAWR 8*CB,0:GOSUB 930:PLOT 0,8:DRAWR 8*C
H,0:GOSUB 930:PLOT 2,2,CM:DRAWR 4,0:PLOT 0,2:DRAWR -4
,0:PLOT 0,2:DRAWR 4,0:CM=3:RETURN
930 PLOT 416,128,C:PLOT J*8,I*8:RETURN >HX
940 'PROGRAMME PRINCIPAL >TD
950 J=15:I=20:GOTO 1260 >RL
960 IF I=27 AND J=0 AND OB=9 THEN 1930 >CN
970 IF L(J,I)>15 THEN GOSUB 1330 ELSE GOSUB 1330:GOSUB >BA

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1350
980 M1$=MID$(T1$,L(J,I)*4+1,4):MD=VAL(MID$(M1$,1,1)):MG >YL
=VAL(MID$(M1$,2,1)):MH=VAL(MID$(M1$,3,1)):MB=VAL(MID$(M
1$,4,1))
990 GOSUB 60 >CC
1000 IF L(J,I)>15 THEN GOSUB 1450:GOTO 1050 >JH
1010 IF P(X,Y)=1 THEN 1400 >TF
1020 IF P(X,Y+1)=1 THEN 1400 >UD
1030 IF P(X+1,Y+1)=1 THEN 1400 >WX
1040 IF P(X+1,Y)=1 THEN 1400 >UF
1050 IF MD=1 THEN GOSUB 1180 ELSE IF X=23 THEN C=1:GOSU >YZ
B 910:J=J+1:GOTO 1260
1060 IF MG=1 THEN GOSUB 1160 ELSE IF X=1 THEN C=1:GOSUB >XC
910:J=J-1:GOTO 1260
1070 IF MH=1 THEN GOSUB 1200 ELSE IF Y=1 THEN C=1:GOSUB >WE
910:I=I+1:GOTO 1260
1080 IF MB=1 THEN GOSUB 1220 ELSE IF Y=18 THEN C=1:GOSU >YA
B 910:I=I-1:GOTO 1260
1090 IF FG=0 THEN 1400 >PE
1100 GOTO 980 >FE
1110 ' >XF
1120 CLS#1:GOSUB 1140:LOCATE #1,1,1:PRINT #1,STRING$(24 >JF
*CH,227):;LOCATE #1,1,19:PRINT #1,STRING$(24*CB,226);;F
OR FGH=1 TO 19:LOCATE #1,1,FGH:PRINT #1,CHR$(228*CS);;N
EXT:FOR FGH=1 TO 19:LOCATE #1,24,FGH:PRINT #1,CHR$(229*
CD);;NEXT:RETURN
1130 ' >XH
1140 M$=MID$(T$,L(J,I)*4+1,4):CG=VAL(MID$(M$,1,1)):CB=V >CX
AL(MID$(M$,2,1)):CD=VAL(MID$(M$,3,1)):CH=VAL(MID$(M$,4,
1)):RETURN
1150 ' >XK
1160 IF X<=2 THEN SOUND 1,200,10:LM=1:X=X+1:LOCATE #1,X >TA
-1,Y:GOSUB 1250
1170 RETURN >FC
1180 IF X>=22 THEN SOUND 1,200,10:LM=-1:X=X-1:LOCATE #1 >WE
,X+1,Y:GOSUB 1250
1190 RETURN >FE
1200 IF Y<=2 THEN SOUND 1,200,10:KM=1:Y=Y+1:LOCATE #1,X >TX
,Y-1:GOSUB 1250
1210 RETURN >EH
1220 IF Y>=17 THEN SOUND 1,200,10:KM=-1:Y=Y-1:LOCATE #1 >WF
,X,Y+1:GOSUB 1250
1230 RETURN >EK
1240 ' >XK
1250 PRINT #1,K$(1):FG=FG-1:GOSUB 1310:RETURN >PA
1260 C=2 >VA
1270 IF X>=23 THEN X=2 ELSE IF X<=2 THEN X=22 >KU
1280 IF Y>=18 THEN Y=2 ELSE IF Y<=2 THEN Y=17 >KH
1290 LOCATE #6,1,1:PRINT #6,"J=";J:LOCATE #6,7,1:PRINT >JT
#6,"I=";I
1300 GOSUB 910:GOSUB 1120:GOTO 960 >BG
1310 LOCATE #5,1,1:PRINT #5,"ENERGIE :";FG:RETURN >UW
1320 ' >XJ
1330 FOR TI=0 TO 4:P(XPO(TI),YPO(TI))=0:NEXT:P(3,3)=0:P >TH
(3,17)=0:P(20,3)=0:P(20,17)=0:P(12,9)=0:RETURN
1340 ' >YA
1350 FOR TI=0 TO 4:XPO(TI)=INT(RND*15)+6:YPO(TI)=INT(RN >JT

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D*10)+6:P(XPO(TI),YPO(TI))=1:LOCATE #1,XPO(TI),YPO(TI):
PRINT#1,F$:NEXT
1360 RESTORE 1370:FOR H=1 TO 5:READ A,B:P(A,B)=1:LOCATE >FZ
#1,A,B:PRINT#1,F$:NEXT
1370 DATA 3,3,3,17,20,3,20,17,12,9 >ZC
1380 RETURN >FF
1390 ' >YF
1400 SOUND 2,0,150,15,0,0,1:FOR G=1 TO 5:SOUND 4,50,6,1 >RE
5,0,0,10:NEXT G:FOR W=1 TO 8:LOCATE #1,X,Y:PRINT #1,EX$
(W):FOR H=1 TO 500:NEXT:NEXT:FOR H=1 TO 500:NEXT
1410 RESTORE 1420:FOR H=1 TO 7:READ A1,B1,C1:SOUND 1,A1 >MA
,B1,C1:NEXT
1420 DATA 239,20,15,0,2,15,239,20,15,319,20,15,213,20,1 >XN
5,239,40,15,319,20,15
1430 VIE=VIE-1:IF VIE=3 THEN LOCATE #4,10,1:PRINT #4," >DA
" ELSE IF VIE=2 THEN LOCATE #4,7,1:PRINT #4," ":ELSE
IF VIE=1 THEN LOCATE #4,4,1:PRINT #4," " ELSE IF VIE=0
THEN LOCATE #4,1,1:PRINT #4," ":GOTO 1440
1440 IF VIE=0 THEN LOCATE #1,8,10:PRINT#1,"GAME OVER":G >KD
OSUB 2150:RUN ELSE CLS #1:X=12:Y=15:LM=0:KM=0:FG=2:GOSU
B 1310:GOTO 1260
1450 IF O(I)=0 THEN GOSUB 1470 >WA
1460 RETURN >FE
1470 P(20,6)=2:LOCATE #1,20,6:PRINT #1,CHR$(252) >PN
1480 IF P(X,Y)=2 THEN GOSUB 1530 >YJ
1490 IF P(X,Y+1)=2 THEN GOSUB 1530 >AJ
1500 IF P(X+1,Y+1)=2 THEN GOSUB 1530 >BM
1510 IF P(X+1,Y)=2 THEN GOSUB 1530 >AB
1520 RETURN >FB
1530 O(I)=1 >QF
1540 LOCATE #5,3,2:PRINT #5,CHR$(230*O(0));CHR$(232*O(0 >AG
))
1550 LOCATE #5,3,3:PRINT #5,CHR$(231*O(8));CHR$(233*O(8 >AD
))
1560 LOCATE #5,3,4:PRINT #5,CHR$(246*O(9));CHR$(247*O(9 >AV
))
1570 LOCATE #5,5,3:PRINT #5,CHR$(235*O(12)) >KK
1580 LOCATE #5,6,3:PRINT #5,CHR$(237*O(27)) >KW
1590 LOCATE #5,7,3:PRINT #5,CHR$(239*O(15)) >KX
1600 LOCATE #5,7,4:PRINT #5,CHR$(250*O(14)) >KF
1610 LOCATE #5,8,4:PRINT #5,CHR$(251*O(20)) >KF
1620 LOCATE #5,8,3:PRINT #5,CHR$(245*O(21)) >KK
1630 OB=OB+1:GOSUB 1640:SOUND 1,200,10:FOR I1=1 TO 500: >LB
INK 0,10:NEXT:INK 0,0:RETURN
1640 LOCATE #2,2,2:PRINT #2,"NOMBRE DE SEGMENTS";OB:RET >GZ
URN
1650 ' PRESENTATION >YE
1660 MODE 2:LOCATE 20,12:A$="VOULEZ VOUS LES REGLES DE >YU
CE JEU GENIAL ? (O/N)":GOSUB 1850
1670 O$=UPPER$(INKEY$) >RU
1680 IF O$="O" THEN 1710 >QG
1690 IF O$="N" THEN RETURN >UP
1700 GOTO 1670 >MK
1710 FOR L=1 TO 10:SOUND 3,600,6,6:SOUND 5,500,8,8:SOUN >XC
D 5,400,10,10:SOUND 5,300,12,12:NEXT
1720 MODE 2 >PG
1730 LOCATE 1,6:A$="Vous devez recollecter 9 segments qui >GC

```





```

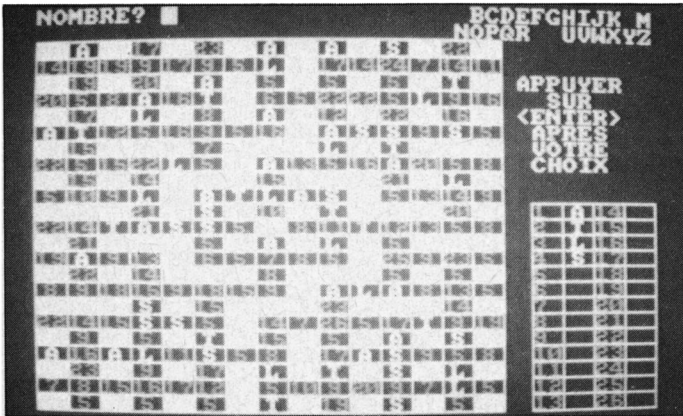
formeront une cle qui vous permettra de "GOSUB 2080
1740 PRINT:A$="sortir du labyrinthe qui vous est propos >LU
e.":GOSUB 2080
1750 PRINT:A$="Les tetes de mort sont mortelles,et,au n >KF
iveau 2 vous ne pouvez pas vous arreter.":GOSUB 2080
1760 PRINT:A$=" Voici le maniemment du vaisseau ":GOSU >LV
B 2080:PRINT:A$=" - Les touches droites et gauches du c
urser font tourner le vaisseau":GOSUB 2080
1770 PRINT:A$=" - La touche p sert a faire avancer le v >DX
aisseau dans le sens ou il est oriente":GOSUB 2080
1780 PRINT:A$=" - La touche q sert a faire arreter le v >PR
aisseau en niveau 1":GOSUB 2080
1790 PRINT:A$=" - La barre d'espace sert a avoir les co >QC
ordonnees des objets":GOSUB 2080
1800 PRINT:A$="Pour stopper la musique lorsque vous ave >HB
z gagne ou perdu (helas ce genre de chose arrive),
appuyer sur ESPACE":GOSUB 2080
1810 LOCATE 25,23:A$="B O N N E C H A N C E ! ! ! ":G >GF
OSUB 1850
1820 LOCATE 27,25:A$="< APPUYEZ SUR ESPACE >":GOSUB 18 >DT
50
1830 GOSUB 2160 >XD
1840 RETURN >FG
1850 FOR I=1 TO LEN(A$):PRINT MID$(A$,I,1);CHR$(143);CH >XT
R$(8);:IF MID$(A$,I,1)<>" " THEN SOUND 1,50,2,15,,,20
1860 FOR A=1 TO 20:NEXT:NEXT:PRINT " ";:RETURN >QD
1870 MODE 2:LOCATE 30,10:A$="NIVEAU (1-2)":GOSUB 1850 >WU
1880 O$=INKEY$ >YF
1890 IF O$="1" THEN DIF=1:RETURN >ZW
1900 IF O$="2" THEN DIF=2:RETURN >ZP
1910 GOTO 1880 >NF
1920 ' >YE
1930 LOCATE #1,10,10:PRINT #1,"GAGNE":GOSUB 1950:GOTO 1 >CL
930
1940 ' MUSIQUES >YG
1950 RESTORE 2020:TT=2:NN=3:GOTO 1960 >FZ
1960 READ N1,T1:T1=T1*TT:N1=N1*NN >CJ
1970 IF INKEY(47)=0 THEN BORDER 26:RUN >FU
1980 IF N1<0 THEN 2100 >ND
1990 SOUND 1,N1,T1,10:SOUND 2,N1*0.5,T1,14:SOUND 4,N1*0 >KF
.25,T1,10
2000 FOR I=1 TO T1:NEXT:SOUND 7,0,1,15:GOTO 1960 >QL
2010 FOR I=1 TO 3000:NEXT:RETURN >AY
2020 DATA 80,30,53,10,60,20,95,10,95,10,95,20,100,10,95 >MV
,10,71,20,80,20,80,20,80,10,60,10,60,10,95,10,95,10,80,
10,106,60,71,10,71,10,71,30,89,10,71,10,63,10
2030 DATA 60,10,53,10,60,10,80,10,60,10,45,10,47,20,80, >JQ
10,89,10,95,30,80,10,106,30,80,10,119,60,-1,-1
2040 DATA 71,15,75,5,71,20,71,20,89,20,89,20,119,20,119 >ZA
,20,0,20,71,15,75,5,71,20,71,20,89,20,89,20,106,20,0,40
,80,10,71,10,60,20,119,20,119,20,80,10,71,10,60,20
2050 DATA 119,20,119,20,0,10,71,10,60,20,67,20,71,20,80 >FU
,20,71,60
2060 DATA 71,15,75,5,71,20,71,20,89,20,89,20,119,20,119 >ZC
,20,0,20,71,15,75,5,71,20,71,20,89,20,89,20,106,20,0,40
,80,10,71,10,60,20,119,20,119,20,80,10,71,10,60,20
2070 DATA 119,20,119,20,0,10,71,10,60,20,67,20,71,20,80 >NK
,20,89,60,-1,-1
2080 PRINT A$;:FOR I=1 TO 100:NEXT:SOUND 1,80,10,15,0,1 >EY
,MUS:MUS=MUS+3:RETURN
2090 DATA 106,106,106,35,119,119,119,35,213,134,106,210 >GK
,159,159,159,35,100,100,100,35,106,106,106,35,159,119,1
00,210,106,106,106,35,119,119,119,35,134,134,134,35,179
,142,142,105,159,159,159,35,179,179,179,35,179,179,179,
35,106,106,106,35,119,119,119,35
2100 DATA 179,134,106,200,119,119,119,35,134,134,134,35 >GB
,159,134,134,105,159,159,159,35,134,134,134,70,159,106,
106,70,201,159,119,200,134,134,134,35,142,142,142,35,15
9,159,159,35,190,159,159,70,142,142,142,35,134,134,134,
35,142,142,142,70,159,159,159,70
2110 DATA 169,142,142,200,169,134,134,35,142,142,142,35 >TB
,201,159,134,105,142,142,35,134,134,134,35,119,119,
119,35,106,106,106,35,100,100,100,35,179,134,89,210,89,
89,89,35,179,134,100,35,106,106,106,35,159,100,100,70,1
06,106,106,35,119,119,119,35
2120 DATA 201,134,134,35,142,142,35,134,134,134,35, >GR
119,119,119,35,213,159,106,70,159,159,159,35,190,190,19
0,35,169,169,169,70,213,169,106,35,119,119,119,35,213,1
34,106,200,159,159,35,100,100,100,35,106,106,106,35
2130 DATA 159,119,100,200,106,106,106,35,119,119,119,35 >NG
,134,134,134,35,179,142,142,105,159,159,159,35,179,179,
179,35,179,179,179,35,106,106,106,35,119,119,119,35,179
,134,106,200,119,119,119,35,134,134,134,35,159,134,1345
,105,159,159,159,35,134,134,134,70
2140 DATA 159,106,106,70,201,159,119,200,201,159,100,35 >NL
,213,159,106,35,239,159,119,35,213,134,134,70,213,142,1
42,35,268,159,159,35,213,169,106,70,239,169,169,70,268,
213,159,300
2150 FOR I=1 TO 3000:NEXT:RESTORE 2090:FOR NOTE=1 TO 89 >BL
:IF INKEY(47)=0 THEN BORDER 26:RUN ELSE READ M1,M2,M3,D
UR:SOUND 2,M1,DUR,15:SOUND 1,M2,DUR,15:SOUND 4,M3,DUR,1
5:NEXT:FOR I=1 TO 5000:NEXT:RETURN
2160 RESTORE 2200 >LM
2170 READ L:IF L=-1 THEN 2160 >VN
2180 IF INKEY(47)=0 THEN BORDER 26:FOR H=1 TO 5000:NEXT >VH
:BORDER 0:RETURN
2190 READ M:SOUND 1,L*2,M,5:SOUND 2,L/2,M,5:SOUND 4,L,M >PZ
,7:GOTO 2170
2200 DATA 71,20,80,20,71,50,80,20,89,20,95,20,106,20,11 >TY
3,55,106,90,142,20,159,20,142,50,190,35,179,35,225,60,2
13,80,284,20,319,20,284,50,319,20,358,20,379,20,426,20,
451,50,426,90
2210 DATA 106,20,119,20,106,20,134,20,106,20,142,20,106 >GD
,20,159,20,106,20,169,20,106,20,159,20,106,20,142,20,10
6,20,134,20,106,20,426,20,106,20,379,20,106,20,338,20,1
06,20,319,20,106,20
2220 DATA 338,20,106,20,319,20,106,20,284,20,106,20,134 >AY
,40,106,40,134,40,106,40,100,40,319,40,100,40,319,40,11
9,40,142,40,119,40,142,40,106,40,358,40,106,40,358,40,1
34,40,319,40,134,40,319,40
2230 DATA 113,40,379,40,113,40,379,40,142,40,358,40,142 >EB
,40,358,40,159,40,451,40,159,40,451,40,358,40,426,40,35
8,40,426,40,402,40,1073,40,402,40,1073,40,284,100,-1

```



# MOSTSCODE

J e a n • D I • S T E F A N O



**M**OSTSCODE est un programme qui vous aidera à faire les grilles de MOTS CODES très simplement.

Le programme est composé de deux parties :

- **CREATION.BAS** créera les fichiers :
  - **IMAGE.BIN**, le fichier image écran ;
  - **MUSIQUE.FIC**, le fichier notes de musique en stéréo ;
  - **GRILLEx.FIC**, les fichiers grille 1 à grille 10.

Valable pour  
 CPC 464  
 CPC 664  
 CPC 6128

**Note :** pour les CPC 464, modifier la ligne 90 avant l'exécution : 90 GOSUB 20:m=VAL(e):IF 1=2 THEN 120

## EXPLICATION DES LIGNES DU PROGRAMME

- Lignes 20 à 40 - Routine si déplacement négatif ;
- Lignes 50 à 120 - Routine lecture DATA traduction et affichage page écran ;
- Lignes 130 à 160 - Définition variables et fonctions ;
- Ligne 170 - Sauvegarde fichier IMAGE.BIN ;
- Lignes 180 à 230 - Lecture DATA traduction et sauvegarde fichier MUSIQUE.FIC ;
- Lignes 240 à 280 - Lecture DATA traduction et sauvegarde fichiers GRILLEx.FIC ;
- Lignes 300 à 390 - DATA page écran ;
- Ligne 400 - DATA traduction musique ;
- Lignes 410 à 480 - DATA musique ;
- Lignes 490 à 1040 - DATA grille n° 1 à grille n° 10.

## • MOTSCODE.BAS

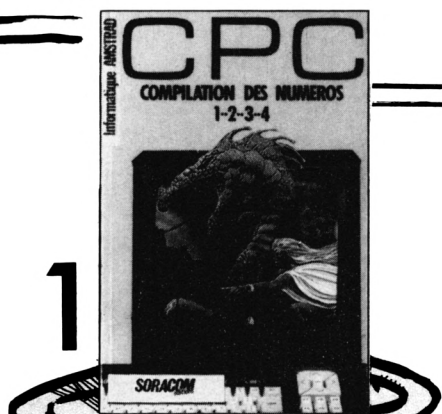
### REGLES DU JEU

Dans les grilles du programme, toutes les lettres ont été remplacées par des chiffres. Un même chiffre représente toujours la même lettre. Le but du jeu est de reconstituer les mots au fur et à mesure que les lettres apparaissent dans la grille. Au début du jeu, l'ordinateur vous affichera des lettres, puis il vous demandera un nombre et un caractère et il se chargera de placer le caractère à la position voulue en contrôlant toute la grille.

En haut à droite de l'écran apparaissent les lettres inutilisées. A droite de l'écran, une grille vous servira d'aide-mémoire, les lettres y seront affichées et modifiées selon vos directives.

# CPC COMPILATION

Souvent réclamées, voici les compilations de CPC. Vous y trouverez les listings des anciens numéros ainsi que certains articles de fond.



A posséder absolument !

- Compilation 1 (n° 1 à 4) 80 F
- Compilation 2 (n° 5 à 8) 80 F
- Frais de port 10%

Nom : \_\_\_\_\_

Prénom : \_\_\_\_\_

Code Postal : \_\_\_\_\_

Ville : \_\_\_\_\_

Date : \_\_\_\_\_ Signature

**SORACOM** éditions  
 La Haie de Pan  
 35170 BRUZ

Merci d'écrire en majuscules.  
 Ci-joint un chèque libellé à l'ordre des Editions SORACOM.



## LISTE DES VARIABLES

### VARIABLES ENTIERES

A, C = Calculs intermédiaires  
 B = Encre du stylo 1  
 D = Sauvegarde valeur case pour modification  
 E = Contrôle erreur  
 G = Numéro de la grille utilisée  
 H = Paramètre valeur case, nombre choisi  
 I, J = Boucles de travail  
 K = Largeur grille  
 L = Longueur grille  
 C(x, y) = Valeur des cases de la grille.

### VARIABLE REELLE

Z = Vidage buffer chaîne pour éviter GARBAGE (remplissage de la mémoire)

### VARIABLES CHAINES

M = Nombre choisi  
 N = Caractère choisi  
 O = Chaîne intermédiaire  
 P = Nombres et caractères donnés par l'ordinateur  
 Q = Caractère à afficher en haut à droite de l'écran  
 R = Réponse de la grille  
 S = Caractère à afficher à droite de l'écran  
 T = Toutes les lettres de l'alphabet  
 U = Chaîne de recherche pour modification  
 V = Tous les nombres choisis  
 W = Tous les caractères choisis  
 X = Message à afficher par TAG  
 Y = Message question, réponse  
 T(x) = Lettres de l'alphabet.

### FONCTION

FN(x,y) = Suppression de la chaîne Y à l'intérieur de la chaîne X.

## EXPLICATION LIGNES DU PROGRAMME

Lignes 20 à 50 - Routine d'affichage par TAG  
 Lignes 60 à 150 - Routine d'affichage à l'intérieur des grilles  
 Lignes 160 à 200 - Routine d'affichage dessins grilles et vidage buffer chaînes  
 Lignes 210 à 260 - Routine d'affichage questions et réponses  
 Lignes 270 à 280 - Routine modification chaînes si modification de caractère  
 Lignes 290 à 300 - Définition variables et fonction  
 Lignes 310 à 330 - Lecture fichier MUSIQUE.FIC  
 Lignes 340 à 370 - Lecture fichier IMAGE.BIN et affichage écran  
 Lignes 380 à 460 - Interprétation musicale sur les 3 voix  
 Ligne 470 - Suppression tableau C(x,y) et réaffectation des encres  
 Lignes 480 à 510 - Choix de la grille du jeu  
 Lignes 520 à 620 - Lecture fichier grille et affichage écran  
 Lignes 630 à 730 - Boucle principale  
 Lignes 630 à 670 - Choix du nombre  
 Lignes 680 à 710 - Choix du caractère  
 Lignes 720 à 730 - Gestion des choix et de la grille  
 Lignes 740 à 780 - Contrôle si grille correcte  
 Lignes 790 à 800 - Affichage solution si nombre choisi = 0  
 Lignes 810 à 840 - Fin du programme

## CREATION GRILLE

Pour créer des grilles, utilisez le programme CREAT.BAS  
 Mettre à la ligne 30 : i=(numéro de la grille).  
 A la ligne 100 : DATA (nombre de colonnes), (nombre de lignes).  
 De la ligne 110 à la ligne 330 : mettre en DATA les valeurs de chaque case ligne par ligne selon le tableau ci-dessous.  
 A la ligne 340 : DATA (nombres), (caractères) donnés par l'ordinateur.

A la ligne 360 : DATA (solution de la grille).

Note : le nombre de colonnes doit être inférieur à 16 et le nombre de lignes doit être inférieur à 24. N'oubliez pas de supprimer tous les REM.

Valeurs

0 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

Codes

à A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Exemple :

Vous mélangez les lettres de l'alphabet :

A C E G I K M O Q S U W Y B D F H J L N P R T V X Z

A chaque lettre, vous attribuez un chiffre de 1 à 26

A C E G I K M O Q S U W Y B D F H J L N P R T V X Z

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

Ensuite, il suffit d'établir la correspondance avec le tableau de codage donné plus haut, c'est-à-dire :

A C E G I K M O Q S U W Y B D F H J L N P R T V X Z

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

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Ensuite, vous entrez de manière codée les lignes de la grille dans les DATA à partir de la ligne 110.

Dans une grille 10x10 avec le mot CHOIX dans la première ligne, il faudra entrer en DATA :

DATA @BQEY @@@@

Les symboles @ ou à (AZERTY) constituent les pavés de séparation sur la grille.

En ligne 340, les nombres et caractères sont les indices donnés au début du jeu. En utilisant le mot "CHOIX" comme indice, on entrera

340 DATA 2, C, 17, H, 8, O, 5, I, 25, X

Enfin la solution de la grille est la série de lettres de l'alphabet mélangés.

Lancement :

Il faut taper et sauver les 3 programmes :

CREATION.BAS, MOTSCODE.BAS et CREAT.BAS

Lors de la première utilisation, c'est le programme CREATION qu'il faudra lancer. Ensuite, un RUN "MOTSCODE" débuttera le jeu.

## CREATION-BAS

```
10 GOTO 130 >RD
20 e=FNd:f="-" >RJ
30 IF FN1<>0 THEN j=j+1:e=e+FNd:GOT >GD
```







```

@JIIK,@@@C@H@C@L@@@L@,BXXBFDH@CFCBG
FH
740 DATA @J@@@H@M@E@Q@@@,RBMP@DLJ@H >FP
@QBRK,@M@B@@@I@@@H@I@,RPIWRPIW@SIJL
TH
750 DATA @@@B@L@@@I@@@T@,DFKFKF@QPV >FK
MFULH,@G@H@M@H@B@N@E@,BNIGFMH@D@NH@G@
FJ
760 DATA @D@G@F@M@H@B@E@,TB@H@N@H@B@UL >GC
BDFLT,@D@M@D@G@D@H@H@E@
770 DATA 1,B,2,A,3,Z,4,R,-1,BAZRJIN >DZ
EOLKUSGTHPCVMQYWF@X
780 DATA 10,23,ABCD@EDHF,C@P@B@B@P >YR
@,EDIFJ@G@G@FK,F@I@D@C@P@,FRPAFK@QAN
790 DATA @G@K@K@A@,FM@J@B@B@P@F,Se@@ >JC
J@E@@M,RK@P@S@N@L@D@F,A@J@D@@@E@,PJ@P@K@V
FKPF
800 DATA T@A@P@Z@F@,NGNK@F@D@Y@NK,F@F@ >JU
U@M@G@,KDK@F@G@M@FK,@T@S@H@H@@@N,WNIF@P
DPKF
810 DATA @D@A@I@A@@@,ZKN@R@F@Y@P@F,@F@P >JB
@V@D@Z,EABXJ@F@G@T@N,F@A@D@J@N@J,W@N@J@M
KFHF
820 DATA 1,L,2,0,3,Y,4,A,-1,LOYACES >DB
VDNRKTUGIHPXQFMJWZB
830 DATA 15,23,@R@B@G@L@H@I@I@,EIPC >PX
FIQI@BEEIXI,@Q@F@N@E@G@Y@E@V@N@,NDPGHI@
HVDGFI@X
840 DATA @F@D@E@I@H@A@A@,BHDEFAIG@I >EM
VICIG,@E@@@I@@@C@Q@@@,LBGGIG@NGI@JIG
FI
850 DATA @H@I@@@B@@@E@F@,KIIJ@ABCDE >EQ
@R@G@D@N,@@@B@M@I@F@@@P@,NOBAAFA@K@B@F@V@V
FG
860 DATA @D@@@E@Y@F@P@@@,DLPA@H@G@I@N@ >FU
@EDGZ,@L@B@@@E@V@@@Z@B@,Q@S@R@F@T@I@H@G@F@J
JI
870 DATA @@@F@P@@@B@@@I@,QDPA@I@W@F@V >FB
DMBRR,@J@U@G@B@E@V@B@F@,BJJ@G@I@F@V@I@N@P@F
AI
880 DATA @D@F@V@F@G@V@E@A@,FADGIV@U@G@F >GH
NDRIG,@I@I@I@I@I@E@E@G@
890 DATA 1,S,2,A,3,V,4,0,5,N,-1,SAV >HM
ONIRG@P@J@W@C@H@U@M@T@Y@Q@F@L@K@X@Z@D
900 DATA 14,17,@J@J@T@@@F@G@B@E@H@,@I@J@K@ >GL
TFELE@H@E@F,ABCD@E@DKB@H@M@J@N@E,@L@E@G@E@M@C
KKEF
910 DATA @T@E@G@C@L@@@P@B@I@,@J@A@L@B@H@J@O@T@R >ZB
C@F,@S@B@C@N@J@P@L@C@D@B,@K@E@F@O@T@@@C@B@P
920 DATA @O@E@S@A@B@H@D@E@L@E@F@,@B@F@M@J@S@J@L@F @ >AT
P@E@D,@L@E@L@T@B@K@E@Q@A@E@T,@F@E@D@J@P@T@F@D@J@T@P
930 DATA @L@E@T@P@G@E@F@B@L@G@L@E,@A@B@C@L@A@Q@E@I@E@K@ >AQ
L@J@D,@E@@@E@Q@F@D@L@E@P@E@D,@O@T@N@P@E@F@D@J@C@L@P@E
940 DATA @P@E@E@F@G@E@F@B@K@J@T@F,1,C,2,0,3,U >VM
,4,P,5,E,-1,COUPESDMVALRB@G@T@N@H@Q@Z@I
950 DATA 15,15,EF@G@H@I@J@K@E@K@H@K@D@C,L@M@F@H >NP
K@F@N@L@D@G@C@D@B,H@L@O@C@B@E@C@G@K@B@K@G,H@C@K@J@K@E

```

```

DKMK@CHK
960 DATA K@B@C@G@F@D@K@A@B@C@D,@P@K@B@K@D@F@H@K@E >EL
F@G@K@K,A@A@D@K@G@K@D@E@F@M@K@B@G,K@O@C@@@C@J@A@K@C@E
J@
970 DATA @F@J@J@C@J@@@D@L@C@Q@K@E@R,@D@C@L@N@R@D@K@H >FM
H@K@E@F,C@D@R@L@G@K@L@C@D@F@B@S,R@K@H@E@F@N@A@H@K@G@E@D
KF
980 DATA F@K@D@E@Q@P@K@B@K@D@E@D,C@J@E@F@P@C@H@E@ >GD
G@F@G@K@D,B@K@J@G@K@G@C@B@K@K@G@K
990 DATA 1,U,2,N,3,I,4,R,-1,UNIRCAT >UQ
LYSE@O@V@M@P@G@D@B@Z
1000 DATA 14,17,@D@E@E@B@E@F@B@E@G@F,CHI@J >HF
B@K@L@J@M@J@F@K,@J@N@J@C@D@J@L@H@J@J,B@N@J@K@L@A@J@F
A@J@C@L
1010 DATA @P@H@F@J@H@F@K@G@J@M@E,@Q@R@J@J@A@J@E@R >AB
@A@B@C,@L@B@H@G@J@F@K@L@A@N@K,J@D@H@J@F@J@E@P@C@N@J@A
1020 DATA @H@L@A@K@A@R@K@F@J@E@J,L@J@K@A@J@K@L@A >AT
K@A@G@J,@E@G@R@H@L@J@J@A@G@R@E,G@C@K@J@E@R@A@H@J@E@G@C
1030 DATA @E@R@E@R@L@G@J@O@K@L,P@R@L@E@R@F@J@A@A >AG
J@H@N@J,@B@E@C@K@E@K@A@J@K@N@E@A,C@G@K@A@J@F@O@D@C@N@J@G@A
1040 DATA @J@F@A@J@A@N@J@A@E@A@H@J,1,S,2,P,3, >HQ
A,-1,SFA@Q@D@R@T@U@B@E@I@N@M@L@V@C@G@O●

```

## MOTS CODE BAS

```

10 GOTO 290 >TA
20 PLOT 0,385:GOTO 50 >PW
30 a=j*32:IF LEN(x)=1 THEN a=a+8 >ZB
40 PLOT a,367-i*16,b >NQ
50 TAG:PRINT x;:TAGOFF:RETURN >AJ
60 t(h)=n:v=v+STR$(h):w=w+n:u=u+RIG >WD
HT$(STR$(h),2)
70 q="":s=n >BA
80 b=3:IF ASC(n)>64 THEN b=1 >VG
90 FOR i=0 TO 1-1:FOR j=0 TO k-1:IF >YN
c(j+1,i+1)<h THEN 120
100 IF h>9 THEN x="":GOSUB 30 >XL
110 x=n:GOSUB 30 >LK
120 NEXT:NEXT:c=h:a=550:IF h>13 THE >TN
N c=c-13:a=614
130 x=s:PLOT a,222-c*16,1:GOSUB 50 >BK
140 a=27+INSTR(t,t(h)):LOCATE a,1:I >ET
F a>40 THEN LOCATE a-13,2
150 PRINT q:RETURN >PA
160 FOR i=0 TO 1:MOVE 0,369-i*16:DR >NT
AWR k*32,0,1
170 IF i<5 THEN MOVE 510+i*32,0:DR >JL
WR 0,208
180 IF i<14 THEN MOVE 510,i*16:DRAW >HD
R 128,0
190 IF i<k+1 THEN MOVE i*32,369-1*i >QC
6:DRAWR 0,1*16
200 NEXT:z=FRE(""):RETURN >WD
210 PRINT CHR$(7):x="APPUYER SUR UN >BC
E TOUCHE":GOSUB 20

```

```

220 CALL @BB@06:GOTO 260 >QB
230 PRINT#1,y+" DEJA CHOISI":x="VOU >UV
LEZ-VOUS MODIFIER O/N":GOSUB 20
240 o=UPPER$(INKEY%):IF o="O" OR INST >ZX
R("O"),o=0 THEN 240
250 IF o="O" THEN e=1 >NG
260 CLS#1:x=STRING$(27,32):GOSUB 20 >MF
:RETURN
270 v=FNx(v,STR$(h)):w=FNx(w,t(h)): >LY
u=FNx(u,RIGHT$(STR$(h),2))
280 n=MID$(STR$(h),2):s="":z=t(h): >AP
GOSUB 80:e=0:RETURN
290 DEFINT a-1:DEFSTR m-y:DIM c(3,4 >NM
,92),t(26)
300 DEF FNx(x,y)=LEFT$(x,INSTR(x,y) >QP
-1)+MID$(x,INSTR(x,y)+LEN(y))
310 MODE 1:LOCATE 8,12:PRINT"LECTUR >CW
E MUSIQUE EN COURS"
320 OPENIN"musique.fic":FOR i=1 TO >YA
3:INPUT#9,a:FOR j=1 TO 4:FOR k=1 TO
a
330 INPUT#9,c(i,j,k):NEXT:NEXT:NEXT >RA
:CLOSEIN
340 MODE 1:LOAD"image.bin",&C000 >CX
350 LOCATE 2,2:PRINT CHR$(164)+"DI >ZF
STEFANO Jean Franck NOVEMBRE 1987"
360 LOCATE 2,24:PRINT"APPUYER SUR U >ME
NE TOUCHE POUR CONTINUER"
370 INK 2,20,6:INK 3,6,20:SPEED INK >GQ
45,45
380 FOR i=1 TO 3:b(i)=0:g(i)=0:h(i) >JE
=0:NEXT
390 h(i)=b:IF b(1)+b(2)+b(3)>=246 T >LC
HEN FOR i=1 TO 3000:NEXT:GOTO 380
400 IF INKEY$<>" "THEN 470 >TF
410 h=MIN(h(1),h(2),h(3)):i=1:j=1 >AF
420 IF h=h(2)THEN i=2:j=2 ELSE IF h >UP
=h(3)THEN i=3:j=4
430 b(i)=b(i)+1:a=b(i):b=h(i) >WY
440 IF g(i)=1 THEN g(i)=0:a=a-1:SOU >WA
ND j,1,i(i),0:b=b+i(i):b(i)=a:GOTO
390
450 IF c(i,4,a)=0 THEN c=ROUND(c(i, >JZ
2,a)*0.8):i(i)=c(i,2,a)-c:g(i)=1 EL
SE c=c(i,2,a)
460 SOUND j,c(i,1,a),c,c(i,3,a):b=b >NM
+c:GOTO 390
470 ERASE c:INK 2,20:INK 3,6 >VE
480 MODE 1:WINDOW#1,1,27,1,1:WINDOW >NQ
#2,32,40,3,11:t="ABCDEFGHIJKLMN@PQR
STUVWXYZ"
490 PRINT"MONOCHROME Oui - Non":GOS >VL
UB 240:INK 3,6:IF e=1 THEN INK 3,13
500 CLS:PRINT#1,CHR$(7)+"QUELLE GRI >HH
LLE (1-10");:INPUT#1,"");m
510 g=VAL(m):IF g<1 OR g>10 THEN 50 >BL

```

```

0
520 e=0:p="":r="":v="":w="":u="" >ZJ
530 LOCATE 28,1:PRINT LEFT$(t,13):L >MX
DCATE 28,2:PRINT RIGHT$(t,13)
540 OPENIN"grille"+MID$(STR$(g),2)+ >DF
".fic":INPUT#9,k,1
550 DIM c(k,1):FOR i=0 TO 1-1:FOR j >WF
=0 TO k-1:INPUT#9,x
560 b=3:IF x="0" THEN x=STRING$(2,1 >JA
43):b=2
570 GOSUB 30:c(j+1,i+1)=VAL(x):NEXT >KQ
:NEXT
580 INPUT#9,h:IF h<>-1 THEN INPUT#9 >UX
,n:p=p+STR$(h)+n:GOSUB 60:GOTO 580
590 INPUT#9,r:CLOSEIN >RU
600 FOR i=0 TO 12:x=MID$(STR$(i+1), >LN
2):PLOT 510,206-i*16,3:GOSUB 50
610 x=MID$(STR$(i+14),2):PLOT 574,2 >CC
06-i*16:GOSUB 50:NEXT:x=CHR$(13)+CH
R$(10)
620 LOCATE#2,1,3:PRINT#2,"APPUYER" >BE
x+" SUR"+x+"<ENTER>"+x+" APRES"+x+
" VOTRE"+x+" CHOIX"
630 GOSUB 160:y=CHR$(7)+"NOMBRE" >AW
640 PRINT#1,y;:INPUT#1,m:IF m="0" T >KG
HEN 790
650 h=VAL(m):IF h<1 OR h>26 OR INST >CD
R(p,STR$(h))<>0 THEN 640
660 IF INSTR(v,STR$(h))<>0 THEN GOS >ZV
UB 230:IF e=0 THEN 640
670 IF e=1 THEN GOSUB 270:t(h)=n:GO >HU
TO 630
680 y=CHR$(7)+"CARACTERE" >UQ
690 PRINT#1,"NOMBRE?";h;:LOCATE#1,1 >BK
2,1:PRINT#1,y;:INPUT#1,n:n=UPPER$(n
)
700 IF INSTR(t,n)=0 OR INSTR(p,n)<> >MZ
0 THEN 690
710 IF INSTR(w,n)<>0 THEN GOSUB 230 >TR
:IF e=0 THEN 690
720 IF e=1 THEN d=h:o=n:h=VAL(MID$( >AW
u,INSTR(w,n)*2-1,2)):GOSUB 270:h=d:
n=o
730 GOSUB 60:IF LEN(w)<LEN(r)THEN 6 >EE
30
740 PRINT#1,"GRILLE TERMINEE":GOSUB >JM
210
750 PRINT#1,"VERIFICATION DE LA GRI >WL
LLE":GOSUB 210
760 FOR h=1 TO LEN(r):IF t(h)<>MID$ >QK
(r,h,1)THEN d=h:GOSUB 270:h=d:e=1
770 NEXT:IF e=1 THEN PRINT#1,"GRILL >YM
E INCORRECTE":GOSUB 210:e=0:GOTO 63
0
780 PRINT#1,"GRILLE CORRECTE BRAVO" >QK
:GOTO 810
790 FOR h=1 TO LEN(r):IF t(h)<>MID$ >FU

```

```

(r,h,1)THEN t(h)=MID$(r,h,1):n=t(h)
:GOSUB 70
800 NEXT:GOSUB 160 >NT
810 GOSUB 210:CLS:LOCATE 3,10:PRINT >CN
"VOULEZ-VOUS FAIRE UNE AUTRE GRILLE
"
820 LOCATE 15,12:PRINT"Oui - Non"+C >XT
HR$(7):GOSUB 240
830 ERASE c:IF e=1 THEN 500 >UF
840 ERASE t:CLEAR:MODE 2 >TX

```

## CREAT BAS


```

10 DEFSTR d-f:DEFINT i-n >TG
20 DEF Fnd=MID$(d,j,1) >QT
30 i = 'numero de la grille >JA
40 LOCATE 5,12:PRINT"SAUVEGARDE GRI >EU
LLE No";i;"EN COURS"
50 OPENDOUT"grille"+MID$(STR$(i),2)+ >PZ
".fic":READ m,n:WRITE#9,m,n
60 FOR k=1 TO n:READ d:FOR j=1 TO m >VN
:e=Fnd:WRITE#9,ASC(e)-64:NEXT:NEXT
70 READ m:WRITE#9,m:IF m<>-1 THEN R >DJ
EAD e:WRITE#9,e:GOTO 70
80 READ e:WRITE#9,e:CLOSEOUT:NEXT >EZ
90 CLS:LOCATE 7,12:PRINT"SAUVEGARDE >GM
GRILLE TERMINEE":END
100 DATA : 'nombre de colonnes,nombr >GH
e de lignes
110 DATA : '1er ligne de la grille >GJ
120 DATA : '2eme ligne de la grille >GK
130 DATA : '3eme ligne de la grille >HA
140 DATA : '4eme ligne de la grille >HB
150 DATA : '5eme ligne de la grille >HC
160 DATA : '6eme ligne de la grille >HD
170 DATA : '7eme ligne de la grille >HE
180 DATA : '8eme ligne de la grille >HF
190 DATA : '9eme ligne de la grille >HG
200 DATA '10eme ligne de la grille >AA
210 DATA '11eme ligne de la grille >AB
220 DATA '12eme ligne de la grille >AC
230 DATA '13eme ligne de la grille >AD
240 DATA '14eme ligne de la grille >AE
250 DATA '15eme ligne de la grille >AF
260 DATA '16eme ligne de la grille >AG
270 DATA '17eme ligne de la grille >AH
280 DATA '18eme ligne de la grille >AJ
290 DATA '19eme ligne de la grille >AK
300 DATA '20eme ligne de la grille >AB
310 DATA '21eme ligne de la grille >AC
320 DATA '22eme ligne de la grille >AD
330 DATA '23eme ligne de la grille >AE
340 DATA : 'nombres,caracteres donne >HD
s par l'ordinateur
350 DATA -1: 'fin de donnees >WB
360 DATA : 'solution grille >HF

```

### SERVEUR MINTEL

N'oubliez pas  
36.15 code MHZ



La B.A.L. permet un dialogue direct avec la rédaction.  
Les petites annonces ouvrent la porte aux bonnes affaires !

## ANCIENS NUMEROS



- Hors série n° 2 ..... 13 F
  - Hors série n° 3 ..... 15 F
  - Hors série n° 4 ..... 15 F
  - Hors série n° 5 ..... 15 F
  - Hors série n° 6 ..... 15 F
  - Hors série n° 7 ..... 15 F
  - Hors série n° 8 ..... 15 F
  - Hors série n° 9 ..... 15 F
- 
- Disquette HS 1 ..... 140 F
  - Disquette HS 2 ..... 140 F
  - Disquette HS 3 ..... 140 F
  - Disquette HS 4 ..... 140 F
  - Disquette HS 5 ..... 140 F
  - Disquette HS 6 ..... 140 F
  - Disquette HS 7 ..... 140 F
  - Disquette HS 8 ..... 140 F
  - Disquette HS 9 ..... 140 F

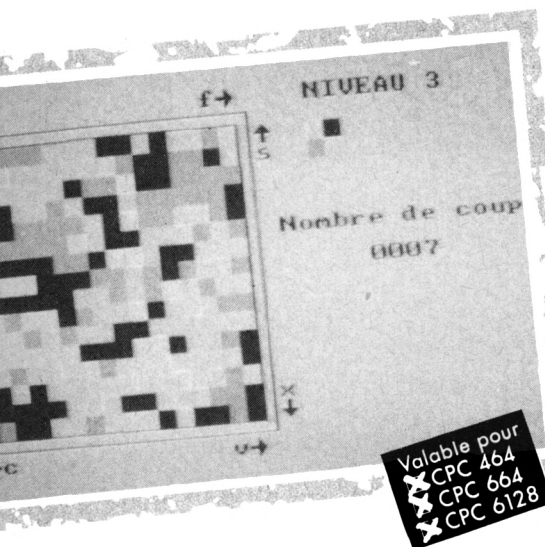
Chaque disquette comporte tous les programmes du n° hors-série correspondant. Les abonnés à CPC bénéficient du tarif unitaire de 110 F pour les disquettes.

**Nom** .....  
**Adresse** .....  
**Code postal** .....  
**Ville** .....  
**Signature** .....

Merci d'écrire en majuscules.  
Ci-joint un chèque libellé à l'ordre des Editions SORACOM. Retournez le coupon ou une photocopie à Editions SORACOM - La Haie de Pan - 35170 BRUZ.







**M**algré le soleil qui frappe votre moniteur et le sable qui s'est infiltré entre les touches du clavier, vous continuez à sourire béatement devant un casse-tête informatique. Le principe est très simple : l'ordinateur mélange des carrés de couleurs, votre tâche consiste à former une figure en déplaçant ces petits carrés. Et cela est loin d'être évident.

Tapez et lancez le programme PUZZLE. Celui-ci va sauver un PUZZLE 1.BIN. Il ne reste qu'à taper PUZZLE 2, à le sauver puis à lancer le tout par un RUN "PUZZLE 2".

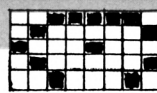
# PUZZLE

Y a n n i c k  
L E G O F F

## PUZZLE

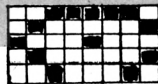
```
10 CLS
20 h=17500
30 FOR i=0 TO 409
40 i=i*10+300
50 READ a1$,a2$,a3$,a4$,a5$,a6$,a7$,a8$,af$
60 a1=VAL("&"+A1$):a2=VAL("&"+a2$):a3=VAL("&"+a3$):a4=VAL("&"+a4$):a5=VAL("&"+a5$):a6=VAL("&"+a6$):a7=VAL("&"+a7$):a8=VAL("&"+a8$):af=VAL("&"+af$)
70 an=a1+a2+a3+a4+a5+a6+a7+a8
80 IF HEX$(an)=HEX$(af) THEN 90 ELSE PRINT"erreur en ligne ";1:END
90 LOCATE 5,10:PRINT"ligne numero : ";1
100 POKE h+0,a1
110 POKE h+1,a2
120 POKE h+2,a3
130 POKE h+3,a4
140 POKE h+4,a5
150 POKE h+5,a6
160 POKE h+6,a7
170 POKE h+7,a8
180 h=h+8
190 NEXT
```

```
200 SAVE "puzzle1",b,&445C,3283
300 DATA CD,D3,4A,3E,01,CD,0E,BC,3C0
310 DATA 3E,00,01,0A,0A,CD,32,BC,20E
320 DATA 3E,01,01,03,03,CD,32,BC,201
330 DATA 3E,02,01,09,09,CD,32,BC,20E
340 DATA 3E,03,01,0C,0C,CD,32,BC,215
350 DATA 3E,00,32,B6,03,32,B7,03,215
360 DATA 32,B8,03,32,B9,03,CD,71,319
370 DATA 4B,CD,DE,4E,CD,14,BC,3E,41F
380 DATA 45,CD,20,49,3E,3C,CD,20,2E2
390 DATA 49,3E,3D,CD,20,49,3E,35,26D
400 DATA CD,20,49,3E,47,CD,20,49,2F1
410 DATA 3E,3F,CD,20,49,3E,3E,CD,2FC
420 DATA 20,49,3E,37,CD,20,49,3E,252
430 DATA 01,CD,DE,BB,21,51,01,11,2EB
440 DATA 41,00,CD,C9,BB,11,01,01,2A5
450 DATA 21,00,00,CD,F6,BB,11,01,2B1
460 DATA 01,21,FD,FE,CD,F6,BB,11,4AC
470 DATA FE,FF,21,FD,FE,CD,F6,BB,697
480 DATA 11,FE,FF,21,00,00,CD,F6,3F2
490 DATA BB,21,5B,01,11,37,00,CD,24D
500 DATA C9,BB,11,15,01,21,00,00,1CC
510 DATA CD,F6,BB,11,15,01,21,E9,3AF
520 DATA FE,CD,F6,BB,11,FE,FF,21,5AB
530 DATA E9,FE,CD,F6,BB,11,FE,FF,673
540 DATA 21,00,00,CD,F6,BB,CD,AB,414
550 DATA 4A,CD,E3,47,CD,5E,49,CD,4B2
560 DATA 26,49,CD,03,BB,CD,19,BC,39C
670 DATA CD,1B,BB,30,F5,F5,CD,69,4F3
580 DATA 45,F1,FE,61,CC,5D,47,FE,503
590 DATA 64,CC,A5,46,FE,73,CC,0D,465
600 DATA 46,FE,63,CC,C7,46,FE,7A,4F8
610 DATA CC,91,45,FE,78,CC,BB,45,4E4
620 DATA FE,66,CC,37,46,FE,76,CC,4ED
630 DATA 59,46,C3,F1,4B,21,B6,03,378
640 DATA 34,3E,09,BE,38,18,21,0C,1B6
650 DATA 1C,CD,75,BB,21,B9,03,7E,374
660 DATA C6,30,E5,CD,5D,BB,E1,2B,4CC
670 DATA 3E,B5,BD,20,F2,C9,7E,D6,4DF
680 DATA 0A,77,23,18,DB,3A,BB,13,29C
690 DATA 47,C5,2A,A2,13,FD,21,BB,3C1
700 DATA 0B,CD,87,47,ED,5B,A4,13,3A5
710 DATA 2A,A2,13,CD,E5,45,2A,BB,388
720 DATA 13,FD,21,BB,0B,CD,CC,47,3D4
730 DATA C1,10,DE,CD,16,4D,C9,3A,3E2
740 DATA BB,13,47,C5,2A,9C,13,FD,3AD
750 DATA 21,BB,0B,CD,87,47,ED,5B,3C7
760 DATA A6,13,2A,9C,13,CD,E5,45,389
770 DATA 2A,9B,13,FD,21,BB,0B,CD,383
780 DATA CC,47,C1,10,DE,CD,4B,4D,424
790 DATA C9,06,0F,C5,E5,D5,06,0B,36B
800 DATA C5,06,10,1A,77,13,23,10,1B2
810 DATA FA,ED,4B,AE,13,09,EB,09,3F0
820 DATA EB,C1,10,EC,D1,E1,01,B0,50B
830 DATA FF,09,EB,09,EB,C1,10,DB,493
840 DATA C9,3A,BB,13,47,C5,2A,9B,39C
850 DATA 13,FD,21,BB,0B,CD,87,47,38F
860 DATA ED,5B,9B,13,2A,9A,13,CD,397
870 DATA 9E,47,FD,21,BB,0B,2A,9C,38C
880 DATA 13,CD,CC,47,C1,10,DE,CD,46F
890 DATA F1,4C,C9,2A,8A,13,FD,21,3EB
900 DATA BB,0B,CD,E9,46,ED,5B,BC,493
910 DATA 13,2A,8E,13,CD,7B,46,2A,296
920 DATA BB,13,FD,21,BB,0B,CD,3B,381
930 DATA 47,CD,3B,4E,C9,2A,90,13,330
940 DATA FD,21,BB,0B,CD,E9,46,ED,4CA
950 DATA 5B,92,13,2A,9A,13,CD,7B,319
960 DATA 46,2A,96,13,FD,21,BB,0B,2FA
970 DATA CD,3B,47,CD,7B,4E,C9,06,3AE
980 DATA 0B,C5,D5,E5,06,0B,C5,3A,394
990 DATA B6,13,47,1A,77,2B,1B,10,1F7
1000 DATA FA,ED,4B,B0,13,09,EB,09,3F2
1010 DATA EB,C1,10,EA,E1,D1,01,50,4A9
1020 DATA 00,09,EB,09,EB,C1,10,D9,392
1030 DATA C9,2A,BB,13,FD,21,BB,0B,36F
1040 DATA CD,E9,46,2A,BB,13,ED,5B,409
1050 DATA AA,13,CD,0E,47,2A,BA,13,2A6
1060 DATA FD,21,BB,0B,CD,3B,47,CD,3FA
1070 DATA 7A,4D,C9,2A,96,13,FD,21,3B1
1080 DATA BB,0B,CD,E9,46,2A,96,13,392
1090 DATA ED,5B,AC,13,CD,0E,47,2A,353
1100 DATA 90,13,FD,21,BB,0B,CD,3B,389
1110 DATA 47,CD,BA,4D,C9,06,0B,E5,3D7
1120 DATA C5,06,0B,C5,3A,B7,13,47,2E3
1130 DATA 7E,FD,77,00,FD,23,23,10,345
```



1140 DATA F7,ED,5B,B2,13,19,C1,10,3EE  
 1150 DATA EA,C1,E1,11,50,00,19,10,316  
 1160 DATA DE,C9,06,08,C5,E5,D5,06,43A  
 1170 DATA 08,C5,3A,B6,13,47,1A,77,2AB  
 1180 DATA 13,23,10,FA,ED,4B,B4,13,33F  
 1190 DATA 09,EB,09,EB,C1,10,EA,D1,474  
 1200 DATA E1,01,50,00,09,EB,09,EB,31A  
 1210 DATA C1,10,D9,C9,06,08,E5,C5,42B  
 1220 DATA 06,08,C5,3A,B7,13,47,FD,31B  
 1230 DATA 7E,00,77,FD,23,23,10,F7,33F  
 1240 DATA ED,5B,B2,13,19,C1,10,EA,3E1  
 1250 DATA C1,E1,11,50,00,19,10,DE,30A  
 1260 DATA C9,3A,BB,13,47,C5,2A,BB,38C  
 1270 DATA 13,FD,21,BB,0B,CD,87,47,38F  
 1280 DATA ED,5B,BB,13,2A,9E,13,CD,38B  
 1290 DATA 9E,47,FD,21,BB,0B,2A,AB,39B  
 1300 DATA 13,CD,CC,47,C1,10,DE,CD,46F  
 1310 DATA CC,4C,C9,06,08,C5,06,10,2CA  
 1320 DATA 7E,FD,77,00,23,FD,23,10,345  
 1330 DATA F7,ED,4B,AE,13,09,C1,10,3CA  
 1340 DATA EC,C9,06,0F,C5,D5,E5,06,44F  
 1350 DATA 08,C5,06,10,7E,12,13,23,1A9  
 1360 DATA 10,FA,ED,4B,AE,13,09,E5,3F1  
 1370 DATA EB,09,E5,D1,E1,C1,10,E9,545  
 1380 DATA E1,D1,01,50,00,09,E5,EB,3DC  
 1390 DATA 09,E5,D1,E1,C1,10,D5,C9,50F  
 1400 DATA 06,08,C5,06,10,FD,7E,00,264  
 1410 DATA 77,23,FD,23,10,F7,ED,4B,3F9  
 1420 DATA AE,13,09,C1,10,EC,C9,21,371  
 1430 DATA 4B,C1,06,08,E5,C5,06,08,2CF  
 1440 DATA E5,C5,06,10,3E,FF,77,23,397  
 1450 DATA 10,FA,06,10,3E,F0,77,23,2EB  
 1460 DATA 10,FA,C1,E1,11,00,08,19,2DE  
 1470 DATA 10,E6,C1,E1,11,50,00,19,312  
 1480 DATA 10,DA,21,C8,C3,06,08,E5,389  
 1490 DATA C5,06,08,E5,C5,06,10,3E,2D1  
 1500 DATA 0F,77,23,10,FA,C1,E1,11,366  
 1510 DATA 00,08,19,10,EE,C1,E1,11,2D2  
 1520 DATA 50,00,19,10,E2,21,0A,17,19D  
 1530 DATA CD,75,BB,3E,4E,CD,5D,BB,46E  
 1540 DATA 3E,6F,CD,5D,BB,3E,6D,CD,40A  
 1550 DATA 5D,BB,3E,62,CD,5D,BB,3E,3DB  
 1560 DATA 72,CD,5D,BB,3E,65,CD,5D,424  
 1570 DATA BB,3E,20,CD,5D,BB,3E,64,3A0  
 1580 DATA CD,5D,BB,3E,65,CD,5D,BB,46D  
 1590 DATA 3E,20,CD,5D,BB,3E,63,CD,3B1  
 1600 DATA 5D,BB,3E,6F,CD,5D,BB,3E,3EB  
 1610 DATA 75,CD,5D,BB,3E,70,CD,5D,432  
 1620 DATA BB,3E,20,CD,5D,BB,3E,3A,376  
 1630 DATA CD,5D,BB,21,05,03,CD,75,350  
 1640 DATA BB,3E,F0,CD,5D,BB,21,06,3F5  
 1650 DATA 03,CD,75,BB,3E,61,CD,5D,3C9  
 1660 DATA BB,21,03,05,CD,75,BB,3E,31F  
 1670 DATA F2,CD,5D,BB,3E,64,CD,5D,4A3  
 1680 DATA BB,21,13,03,CD,75,BB,3E,32D  
 1690 DATA 7A,CD,5D,BB,21,14,03,CD,364  
 1700 DATA 75,BB,3E,F1,CD,5D,BB,21,465  
 1710 DATA 03,13,CD,75,BB,3E,66,CD,384  
 1720 DATA 5D,BB,3E,F3,CD,5D,BB,21,44F  
 1730 DATA 05,16,CD,75,BB,3E,F0,CD,413  
 1740 DATA 5D,BB,21,06,16,CD,75,BB,352  
 1750 DATA 3E,73,CD,5D,BB,21,13,16,2E0  
 1760 DATA CD,75,BB,3E,78,CD,5D,BB,498  
 1770 DATA 21,14,16,CD,75,BB,3E,F1,377  
 1780 DATA CD,5D,BB,21,16,05,CD,75,363  
 1790 DATA BB,3E,F2,CD,5D,BB,3E,63,471  
 1800 DATA CD,5D,BB,21,16,13,CD,75,371  
 1810 DATA BB,3E,76,CD,5D,BB,3E,F3,485  
 1820 DATA CD,5D,BB,C9,06,00,CD,39,3BA  
 1830 DATA BB,C9,3A,E1,05,47,21,EB,3F4  
 1840 DATA 03,C5,E5,7E,FE,00,CC,91,486  
 1850 DATA 45,FE,01,CC,A5,46,FE,02,3FB  
 1860 DATA CC,5D,47,FE,03,CC,37,46,3BA  
 1870 DATA FE,04,CC,BB,45,FE,05,CC,49D  
 1880 DATA C7,46,FE,06,CC,0D,46,FE,42E  
 1890 DATA 07,CC,59,46,E1,C1,23,10,347  
 1900 DATA D0,C9,3A,DC,05,FE,01,2B,3DB  
 1910 DATA 0A,FE,02,2B,5F,FE,03,CA,35C  
 1920 DATA 21,4A,C9,21,03,19,CD,75,2B3  
 1930 DATA BB,CD,84,4A,3E,31,CD,5D,3EF  
 1940 DATA BB,3E,32,32,E1,05,06,31,27A  
 1950 DATA 21,BB,13,DD,21,95,49,DD,375  
 1960 DATA 7E,00,77,23,DD,23,10,F7,31F  
 1970 DATA C9,4B,C1,60,C1,5F,C1,67,47A  
 1980 DATA C1,E0,C3,DF,C3,E7,C3,CB,678  
 1990 DATA C3,5B,C1,AB,C1,0B,C6,9B,4AB  
 2000 DATA C1,9B,C6,F8,C5,AB,C5,BB,601  
 2010 DATA C5,F8,C5,50,C1,D0,C3,F0,616  
 2020 DATA 07,1B,0B,F8,07,EB,07,1B,22D  
 2030 DATA 0B,04,FF,C9,21,03,19,CD,2DE  
 2040 DATA 75,BB,CD,84,4A,3E,32,CD,40B  
 2050 DATA 5D,BB,3E,64,32,E1,05,06,2D8  
 2060 DATA 31,21,BB,13,DD,21,EE,49,322  
 2070 DATA DD,7E,00,77,23,DD,23,10,305  
 2080 DATA F7,C9,4B,C1,64,C1,63,C1,512  
 2090 DATA 67,C1,E4,C3,E3,C3,E7,C3,61F  
 2100 DATA C8,C3,5B,C1,AB,C1,0B,C6,4D8  
 2110 DATA 9B,C1,9B,C6,F8,C5,AB,C5,5E1  
 2120 DATA BB,C5,F8,C5,4C,C1,CC,C3,5D6  
 2130 DATA F0,07,1C,0B,FC,07,E4,07,309  
 2140 DATA 1C,04,02,FF,C9,21,03,19,227  
 2150 DATA CD,75,BB,CD,84,4A,3E,33,409  
 2160 DATA CD,5D,BB,3E,FF,32,E1,05,43A  
 2170 DATA 06,31,21,BB,13,DD,21,47,23B  
 2180 DATA 4A,DD,7E,00,77,23,DD,23,33F  
 2190 DATA 10,F7,C9,4B,C1,66,C1,65,465  
 2200 DATA C1,67,C1,E6,C3,E5,C3,E7,621  
 2210 DATA C3,CB,C3,5B,C1,AB,C1,0B,4D8  
 2220 DATA C6,9B,C1,9B,C6,F8,C5,AB,5E2  
 2230 DATA C5,BB,C5,F8,C5,4A,C1,CA,5D4  
 2240 DATA C3,F0,07,1E,0B,FE,07,E2,3C7  
 2250 DATA 07,1E,02,01,FF,C9,11,FF,300  
 2260 DATA FF,3E,00,1B,BA,20,FC,C9,3F7  
 2270 DATA 3E,4E,CD,5D,BB,3E,49,CD,3C5  
 2280 DATA 5D,BB,3E,56,CD,5D,BB,3E,3CF  
 2290 DATA 45,CD,5D,BB,3E,41,CD,5D,3D3  
 2300 DATA BB,3E,55,CD,5D,BB,3E,20,391  
 2310 DATA CD,5D,BB,C9,21,70,C1,06,406  
 2320 DATA 0B,3E,FF,77,23,77,23,3E,2B7  
 2330 DATA F0,77,23,77,2B,2B,2B,11,293  
 2340 DATA 00,0B,19,10,EC,06,0B,21,14C  
 2350 DATA C0,C1,3E,0F,77,23,77,2B,30A  
 2360 DATA 11,00,0B,19,10,F4,C9,3E,23D  
 2370 DATA 00,CD,0E,BC,21,05,06,CD,290  
 2380 DATA 75,BB,3E,50,CD,5D,BB,3E,3E1  
 2390 DATA 55,CD,5D,BB,3E,5A,CD,5D,3FC  
 2400 DATA BB,3E,5A,CD,5D,BB,3E,4C,3C2  
 2410 DATA CD,5D,BB,3E,45,CD,5D,BB,44D  
 2420 DATA 21,0D,04,CD,75,BB,3E,43,2B0  
 2430 DATA CD,5D,BB,3E,72,CD,5D,BB,47A  
 2440 DATA 3E,65,CD,5D,BB,3E,65,CD,3FB  
 2450 DATA 5D,BB,3E,20,CD,5D,BB,3E,399  
 2460 DATA 70,CD,5D,BB,3E,61,CD,5D,41E  
 2470 DATA BB,3E,72,CD,5D,BB,3E,20,3AE  
 2480 DATA CD,5D,BB,3E,3A,CD,5D,BB,442  
 2490 DATA 21,12,07,CD,75,BB,3E,59,2CE  
 2500 DATA CD,5D,BB,3E,20,CD,5D,BB,42B  
 2510 DATA 3E,4C,CD,5D,BB,3E,65,CD,3DF  
 2520 DATA 5D,BB,3E,20,CD,5D,BB,3E,399  
 2530 DATA 47,CD,5D,BB,3E,4F,CD,5D,3E3  
 2540 DATA BB,3E,46,CD,5D,BB,3E,46,3AB  
 2550 DATA CD,5D,BB,CD,7A,4A,CD,7A,4BD  
 2560 DATA 4A,CD,7A,4A,C9,3E,01,CD,3B0  
 2570 DATA 0E,BC,21,0A,0A,CD,75,BB,2FC  
 2580 DATA 3E,4E,CD,5D,BB,3E,69,CD,3E5  
 2590 DATA 5D,BB,3E,76,CD,5D,BB,3E,3EF  
 2600 DATA 65,CD,5D,BB,3E,61,CD,5D,413  
 2610 DATA BB,3E,75,CD,5D,BB,3E,20,3B1  
 2620 DATA CD,5D,BB,3E,2B,CD,5D,BB,430  
 2630 DATA 3E,31,CD,5D,BB,3E,2C,CD,3BB  
 2640 DATA 5D,BB,3E,32,CD,5D,BB,3E,3AB  
 2650 DATA 2C,CD,5D,BB,3E,33,CD,5D,3AC  
 2660 DATA BB,3E,29,CD,5D,BB,3E,3F,384  
 2670 DATA CD,5D,BB,3E,20,CD,5D,BB,42B  
 2680 DATA CD,1B,BB,30,FB,FE,31,2B,425  
 2690 DATA 0A,FE,32,2B,0C,FE,33,2B,2C7  
 2700 DATA 0E,1B,ED,3E,01,32,DC,05,265  
 2710 DATA C9,3E,02,32,DC,05,C9,3E,323  
 2720 DATA 03,32,DC,05,C9,21,16,4F,265  
 2730 DATA 11,2E,50,1A,BE,C2,2E,45,29C  
 2740 DATA 7D,01,55,4F,B9,2B,04,23,22A  
 2750 DATA 13,1B,F0,21,56,4F,11,6E,260  
 2760 DATA 50,1A,BE,C2,2E,45,7D,01,2DB  
 2770 DATA 95,4F,B9,2B,04,23,13,1B,217  
 2780 DATA F0,21,A6,4F,11,AE,50,1A,32F  
 2790 DATA BE,C2,2E,45,7D,01,E5,4F,3A5  
 2800 DATA B9,2B,04,23,13,1B,F0,21,244  
 2810 DATA E6,4F,11,EE,50,1A,BE,C2,41E  
 2820 DATA 2E,45,7D,01,25,50,B9,2B,247  
 2830 DATA 04,23,13,1B,F0,CD,14,BC,2DF  
 2840 DATA 21,0B,05,CD,75,BB,06,16,247





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2850 DATA 11,9C,4C,D5,C5,1A,CD,5D,3D7
2860 DATA BB,C1,D1,13,10,F5,21,09,38F
2870 DATA 05,CD,75,BB,06,11,11,B2,2DC
2880 DATA 4C,D5,C5,1A,CD,5D,BB,C1,4A6
2890 DATA D1,13,10,F5,3E,20,CD,5D,371
2900 DATA BB,06,08,11,C3,4C,D5,C5,383
2910 DATA 1A,CD,5D,BB,C1,D1,13,10,3B4
2920 DATA F5,CD,7A,4A,CD,7A,4A,CD,4E4
2930 DATA 7A,4A,CD,14,BC,C3,84,44,3EC
2940 DATA 6A,65,20,70,65,75,78,20,2D1
2950 DATA 76,6F,75,73,20,66,65,6C,324
2960 DATA 69,63,69,74,65,72,64,27,30B
2970 DATA 61,76,6F,69,72,20,74,72,327
2980 DATA 6F,75,76,65,20,6C,61,73,31F
2990 DATA 6F,6C,75,74,69,6F,6E,C9,3D3
3000 DATA 3A,BB,13,47,C5,11,16,4F,287
3010 DATA 06,08,21,96,4F,1A,77,13,1BB
3020 DATA 23,10,FA,11,1E,4F,21,16,1E2
3030 DATA 4F,06,80,1A,77,13,23,10,1AC
3040 DATA FA,C1,10,E0,C9,3A,BB,13,479
3050 DATA 47,C5,11,A6,4F,06,08,21,241
3060 DATA 26,50,1A,77,13,23,10,FA,247
3070 DATA 11,AE,4F,21,A6,4F,06,80,2AA
3080 DATA 1A,77,13,23,10,FA,C1,10,2A2
3090 DATA E0,C9,3A,BB,13,47,C5,11,3CB
3100 DATA BE,4F,06,08,21,0E,4F,1A,183
3110 DATA 77,13,23,10,FA,11,86,4F,29D
3120 DATA 21,8E,4F,06,10,C5,06,08,1E7
3130 DATA 1A,77,13,23,10,FA,01,F0,2C2
3140 DATA FF,09,EB,09,EB,C1,10,ED,4A5
3150 DATA C1,10,D3,C9,3A,BB,13,47,3B9
3160 DATA C5,11,1E,50,06,08,21,9E,211

3170 DATA 4F,1A,77,13,23,10,FA,11,231
3180 DATA 16,50,21,1E,50,06,10,C5,1D0
3190 DATA 06,08,1A,77,13,23,10,FA,1DF
3200 DATA 01,F0,FF,09,EB,09,EB,C1,499
3210 DATA 10,ED,C1,10,D3,C9,3A,BB,45C
3220 DATA 13,47,C5,21,16,4F,11,D0,286
3230 DATA 07,06,08,CD,06,4E,21,16,16D
3240 DATA 4F,11,17,4F,06,08,CD,20,1C1
3250 DATA 4E,11,1D,4F,21,A6,4F,06,1E7
3260 DATA 08,CD,12,4E,21,A6,4F,11,25C
3270 DATA A7,4F,06,08,CD,20,4E,21,260
3280 DATA AD,4F,11,D0,07,06,08,CD,2BF
3290 DATA FA,4D,C1,10,C5,C9,3A,BB,498
3300 DATA 13,47,C5,21,56,4F,11,D0,2C6
3310 DATA 07,06,08,CD,06,4E,21,56,1AD
3320 DATA 4F,11,57,4F,06,08,CD,20,201
3330 DATA 4E,11,5D,4F,21,E6,4F,06,267
3340 DATA 08,CD,12,4E,21,E6,4F,11,29C
3350 DATA E7,4F,06,08,CD,20,4E,21,2A0
3360 DATA ED,4F,11,D0,07,06,08,CD,2FF
3370 DATA FA,4D,C1,10,C5,C9,C5,1A,485
3380 DATA 77,13,01,08,00,09,C1,10,16D
3390 DATA F5,C9,C5,7E,12,13,01,08,32F
3400 DATA 00,09,C1,10,F5,C9,C5,7E,3DB

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3410 DATA 12,01,08,00,09,EB,09,EB,203
3420 DATA C1,10,F3,C9,C5,D5,E5,06,512
3430 DATA 08,1A,77,23,13,10,FA,E1,2BA
3440 DATA D1,01,08,00,09,EB,09,EB,2C2
3450 DATA C1,10,E9,C9,3A,BB,13,47,3CF
3460 DATA C5,21,AD,4F,11,D0,07,06,2D0
3470 DATA 08,CD,06,4E,11,AD,4F,21,257
3480 DATA AC,4F,06,08,CD,BB,4E,11,2ED
3490 DATA 1D,4F,21,A6,4F,06,08,CD,25D
3500 DATA D0,4E,11,1D,4F,21,1C,4F,227
3510 DATA 06,08,CD,BB,4E,11,D0,07,2C9
3520 DATA 21,16,4F,06,08,CD,FA,4D,2AB
3530 DATA C1,10,C5,C9,3A,BB,13,47,3AB
3540 DATA C5,21,ED,4F,11,D0,07,06,310
3550 DATA 08,CD,06,4E,11,ED,4F,21,297
3560 DATA EC,4F,06,08,CD,BB,4E,11,32D
3570 DATA 5D,4F,21,E6,4F,06,08,CD,2DD
3580 DATA D0,4E,11,5D,4F,21,5C,4F,2A7
3590 DATA 06,08,CD,BB,4E,11,D0,07,2C9
3600 DATA 21,56,4F,06,08,CD,FA,4D,2E8
3610 DATA C1,10,C5,C9,C5,E5,D5,06,4E4
3620 DATA 07,7E,12,2B,1B,10,FA,D1,2B8
3630 DATA E1,01,08,00,09,EB,09,EB,2D2
3640 DATA C1,10,E9,C9,C5,1A,77,01,3DA
3650 DATA 08,00,09,EB,09,EB,C1,10,2C1
3660 DATA F3,C9,06,40,21,16,4F,3E,2C6
3670 DATA 11,CD,03,4F,06,40,21,56,1ED
3680 DATA 4F,3E,00,CD,03,4F,21,A6,273
3690 DATA 4F,3E,22,06,40,CD,03,4F,214
3700 DATA 21,E6,4F,3E,33,06,40,77,284
3710 DATA 23,10,FC,C9,01,05,00,00,1FE
3720 DATA 00,00,44,44,44,44,44,44,198
3730 DATA 44,44,11,11,11,11,11,11,EE
3740 DATA 11,11,11,11,11,11,11,11,88
3750 DATA 11,11,11,11,11,11,11,11,88
3760 DATA 11,11,11,11,11,11,11,11,88
3770 DATA 11,11,11,11,11,11,11,11,88
3780 DATA 11,11,11,11,11,11,11,11,88
3790 DATA 11,11,11,11,11,11,11,11,88
3800 DATA 11,11,11,11,11,11,11,11,88
3810 DATA 11,11,00,00,00,00,00,00,22
3820 DATA 00,00,00,00,00,00,00,00,0
3830 DATA 00,00,00,00,00,00,00,00,0
3840 DATA 00,00,00,00,00,00,00,00,0
3850 DATA 00,00,00,00,00,00,00,00,0
3860 DATA 00,00,00,00,00,00,00,00,0
3870 DATA 00,00,00,00,00,00,00,00,0
3880 DATA 00,00,00,00,00,00,00,00,0
3890 DATA 00,00,44,44,44,44,44,44,198
3900 DATA 44,44,44,44,44,44,44,44,220
3910 DATA 44,44,22,22,22,22,22,22,154
3920 DATA 22,22,22,22,22,22,22,22,110
3930 DATA 22,22,22,22,22,22,22,22,110
3940 DATA 22,22,22,22,22,22,22,22,110
3950 DATA 22,22,22,22,22,22,22,22,110
3960 DATA 22,22,22,22,22,22,22,22,110
3970 DATA 22,22,22,22,22,22,22,22,110

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3980 DATA 22,22,22,22,22,22,22,22,110
3990 DATA 22,22,33,33,33,33,33,33,176
4000 DATA 33,33,33,33,33,33,33,33,198
4010 DATA 33,33,33,33,33,33,33,33,198
4020 DATA 33,33,33,33,33,33,33,33,198
4030 DATA 33,33,33,33,33,33,33,33,198
4040 DATA 33,33,33,33,33,33,33,33,198
4050 DATA 33,33,33,33,33,33,33,33,198
4060 DATA 33,33,33,33,33,33,33,33,198
4070 DATA 33,33,44,44,44,44,44,44,1FE
4080 DATA 44,44,11,11,11,11,11,11,EE
4090 DATA 11,11,11,11,11,11,11,11,88
4100 DATA 11,11,11,11,11,11,11,11,88
4110 DATA 11,11,11,11,11,11,11,11,88
4120 DATA 11,11,11,11,11,11,11,11,88
4130 DATA 11,11,11,11,11,11,11,11,88
4140 DATA 11,11,11,11,11,11,11,11,88
4150 DATA 11,11,11,11,11,11,11,11,88
4160 DATA 11,11,00,00,00,00,00,00,22
4170 DATA 00,00,00,00,00,00,00,00,0
4180 DATA 00,00,00,00,00,00,00,00,0
4190 DATA 00,00,00,00,00,00,00,00,0
4200 DATA 00,00,00,00,00,00,00,00,0
4210 DATA 00,00,00,00,00,00,00,00,0
4220 DATA 00,00,00,00,00,00,00,00,0
4230 DATA 00,00,00,00,00,00,00,00,0
4240 DATA 00,00,22,22,22,22,22,22,CC
4250 DATA 22,22,22,22,22,22,22,22,110
4260 DATA 22,22,22,22,22,22,22,22,110
4270 DATA 22,22,22,22,22,22,22,22,110
4280 DATA 22,22,22,22,22,22,22,22,110
4290 DATA 22,22,22,22,22,22,22,22,110
4300 DATA 22,22,22,22,22,22,22,22,110
4310 DATA 22,22,22,22,22,22,22,22,110
4320 DATA 22,22,33,33,33,33,33,33,176
4330 DATA 33,33,33,33,33,33,33,33,198
4350 DATA 33,33,33,33,33,33,33,33,198
4360 DATA 33,33,33,33,33,33,33,33,198
4370 DATA 33,33,33,33,33,33,33,33,198
4380 DATA 33,33,33,33,33,33,33,33,198
4390 DATA 33,33,33,33,33,33,33,33,198
4400 DATA 33,33,00,00,00,00,00,00,66●

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## PUZZLE 2

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10 MEMORY 17500-1
20 LOAD"puzzle1"
30 BORDER 10:INK 0,10:INK 1,0
40 FOR i=0 TO 255
50 a=RND(1)*8.2345678
55 b=INT(a)
56 IF b>7 THEN b=7
57 IF b<0 THEN b=0
60 POKE 1000+i,b
70 NEXT
80 CALL 17500●

```



# CENTIPEDE

T h i e r r y M A T H I A S

**D**ans ce jeu, vous êtes une araignée et vous avez un gros défaut : celui d'haïr les mille-pattes. Pour pouvoir assouvir votre haine, la nature vous a fait un don :

- Valable pour
- ✕ CPC 464
- ✕ CPC 664
- ✕ CPC 6128

vous pouvez tirer sur vos proies.

Vous êtes en bas de l'écran et le mille-pattes parcourt son territoire en partant du haut. Chaque fois que vous l'atteignez, il se sépare en deux parties et le morceau touché se transforme en champignon (!). Mais attention : celui-ci peut être vénéneux. Dans ce cas, un simple contact d'un mille-patte et celui-ci dégringole. Gare à vous si vous êtes sur le chemin ! Si par contre vous parvenez à le toucher deux fois, vous aurez droit à un bonus de 1000 points. A chaque fin de tableau, vous marquez 10 points par champignon inoffensif restant à l'écran. Vous disposez initialement de 4 vies mais vous avez la possibilité d'en

gagner une nouvelle. Pour cela, un mille-patte constitué d'un seul morceau parcourt le haut de l'écran. Si vous arrivez à le toucher avant qu'il ne disparaisse, c'est gagné ; sinon...

Vous pouvez jouer en utilisant soit le joystick, soit le clavier redéfini à votre guise. Vous avez le choix entre 10 niveaux de rapidité (de 0 à 9, en vitesse décroissante) que vous sélectionnez en appuyant sur la touche correspondante. A chaque fin de tableau, le rythme s'accélère. Pour créer le fichier binaire, tapez le programme "CENT1.DAT" et exécutez le. Faites ensuite de même avec le programme "CENT2.DAT". Vous obtiendrez ainsi deux fichiers binaires. Tapez ensuite :  
MEMORY &75FF  
LOAD "CENT1.BIN"  
LOAD "CENT2.BIN"  
SAVE "CENTIPED.BIN",B,&7600,&214F

Il ne vous reste alors qu'à taper et sauvegarder le programme "LANCEUR" que vous mettrez, si vous possédez un lecteur de cassette, juste avant le programme "CENTIPED.BIN". Pour commencer le jeu tapez RUN "LANCEUR".

## LANCEUR

```

10 MODE 1:BORDER 0:INK 0,0:INK 1,0: >TH
INK 2,26:INK 3,1
20 LOCATE 25,3:PEN 2:PRINT "T.MATHI >GC
AS"
30 LOCATE 28,5:PEN 3:PRINT "et" >ZK
40 LOCATE 28,7:PEN 2:PRINT "CPC" >ZU
50 LOCATE 26,9:PEN 3:PRINT "present >MZ
ent"
60 LOCATE 1,25:PEN 1:PRINT "CENTIPE >HK
DE";
70 FOR y1%=2 TO 14 STEP 2:x%=32:c=1 >DJ
2.57:FOR x1%=0 TO 142 STEP 2
80 x%=x%+B >LG
90 c=c-0.1408 >EC
100 y%=150+c*(y1%-8) >MF
110 IF TEST (x1%,y1%)=0 THEN GOTO 1 >CE
40
120 c%=c >VB
130 FOR h%=y%-c% TO y%+c% STEP 2:MO >GF

```



```

VE x%-4,h%:DRAW R,0:NEXT h%
140 NEXT x1%,y1% >GE
150 LOCATE 1,25:PRINT " "; >ZQ
160 INK 1,20 >UE
170 LOCATE 35,25:PEN 3:PRINT CHR%(& >PD
A4);" 1988";
180 MEMORY &75FF:LOAD"!centiped.bin >KP
"
190 CALL &7600 >JD

```

## CENT 1 - DAT

```

10 a=&7600:f=32815:MEMORY a-1:l=100
20 WHILE a<f
30 FOR a=a TO a+15:READ c#:k=VAL("&"<+c
$):s=s+k+65536*(a+k>32767):POKE a,k:NEX
T
40 READ d#:t=VAL("&"<+d$):IF s<>t THEN
PRINT CHR%(7);"Erreur ligne ";l:END ELS
E l=1+5
50 WEND

```

```

60 SAVE "cent1.bin",b,&7600,&A2F
70 END
100 DATA ED,73,38,79,CD,25,77,CD,D0,82,
CD,D1,83,CD,19,76,0916
105 DATA CD,57,77,CD,87,77,C3,F0,77,3E,
00,CD,0E,BC,21,05,10A1
110 DATA 05,CD,3E,BC,21,77,87,CD,63,87,
3E,05,06,18,0E,00,15B2
115 DATA CD,32,BC,01,00,00,CD,38,BC,3E,
00,CD,96,BB,06,04,1B95
120 DATA 21,8B,C1,C5,E5,22,D7,78,CD,3B,
79,E1,11,F0,00,19,2399
125 DATA C1,10,F0,3E,08,CD,E4,BB,11,28,
00,21,4C,02,CD,CF,2A50
130 DATA BB,11,68,00,21,6E,01,CD,D2,BB,
CD,DB,BB,11,00,00,30E2
135 DATA 21,7C,02,CD,CF,BB,11,58,00,21,
66,00,CD,D2,BB,CD,37EF
140 DATA DB,BB,21,F0,C5,CD,03,77,21,3F,
C6,CD,03,77,21,54,3F84
145 DATA C0,22,D7,78,21,54,E0,3E,FF,06,
04,C5,E5,06,47,77,46BF
150 DATA 23,10,FC,E1,CD,70,79,C1,10,F1,
06,84,77,CD,70,79,4EFE
155 DATA 10,FA,21,EA,C0,22,D7,78,06,84,
77,CD,70,79,10,FA,5705
160 DATA 3E,01,CD,90,BB,21,01,04,CD,75,
BB,21,BC,78,06,08,5CE2
165 DATA CD,19,77,E5,3E,0D,CD,90,BB,E1,
06,06,CD,19,77,3E,640F
170 DATA 0C,CD,90,BB,06,09,21,06,01,11,
CA,78,C5,E5,D5,CD,6809
175 DATA 75,BB,1A,CD,5D,BB,D1,13,E1,2C,
C1,10,EF,3E,0D,CD,7301
180 DATA 90,BB,C9,CD,0E,77,11,B0,FF,19,
CD,0E,77,C9,11,00,7A6C
185 DATA 08,06,04,36,C3,19,10,FB,C9,C5,
E5,7E,CD,5D,BB,E1,8252
190 DATA 23,C1,10,F5,C9,06,09,21,19,80,
36,00,23,10,FB,2A,875B
195 DATA 41,B5,11,4C,B3,37,3F,20,08,21,
41,B5,22,4F,86,18,8C25
200 DATA 06,21,8B,B6,22,4F,86,5E,23,56,
21,15,00,19,36,FB,90DB
205 DATA 11,2F,00,19,36,07,C9,3E,21,32,
D3,78,3E,19,32,D4,9573
210 DATA 78,21,02,F7,22,D5,78,21,02,C7,
22,D7,78,21,0E,80,9B7E
215 DATA 36,00,06,09,21,10,80,36,00,23,
10,FB,3E,04,32,3A,9E86
220 DATA 79,3E,02,32,D6,80,C9,11,E9,C0,
1A,FE,03,28,09,11,AA47
225 DATA E9,E0,1A,FE,03,C2,BC,81,CD,FE,
7C,DD,21,24,7C,DD,AE1C
230 DATA 36,00,01,DD,36,01,01,21,A3,7C,
DD,75,02,DD,74,03,B350
235 DATA DD,36,04,00,DD,36,05,01,DD,36,

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06,00,DD,21,A3,7C,B8B6  
 240 DATA DD,73,00,DD,72,01,3A,0D,80,FE,  
 00,2B,06,21,22,80,BE0C  
 245 DATA CD,E1,7C,3E,00,32,0D,80,3E,1D,  
 32,A3,7D,2A,D7,78,C459  
 250 DATA 22,D9,7B,2A,D5,7B,CD,3B,79,2A,  
 D9,7B,22,D7,78,C9,CC79  
 255 DATA CD,9F,79,11,E9,C0,CD,54,7D,06,  
 1F,C5,06,FF,10,FE,D4B3  
 260 DATA C1,10,F8,3E,00,32,37,79,3E,4B,  
 CD,1E,BB,C4,4E,78,DB52  
 265 DATA 3E,49,CD,1E,BB,C4,67,78,3E,4A,  
 CD,1E,BB,C4,80,78,E30C  
 270 DATA 3E,4B,CD,1E,BB,C4,9E,78,CD,A4,  
 7D,3E,42,CD,1E,BB,EB29  
 275 DATA C2,0A,76,3A,37,79,FE,00,2B,B6,  
 2A,D7,78,22,D9,78,F21D  
 280 DATA 2A,D5,7B,CD,3B,79,2A,D9,78,22,  
 D7,78,18,A2,3A,D4,F9C9  
 285 DATA 7B,3D,FE,00,CB,32,D4,78,2A,D5,  
 7B,CD,83,79,22,D5,01F9  
 290 DATA 7B,3E,01,32,37,79,C9,3A,D4,7B,  
 3C,FE,1A,CB,32,D4,0903  
 295 DATA 7B,2A,D5,7B,CD,70,79,22,D5,7B,  
 3E,01,32,37,79,C9,1001  
 300 DATA 3A,D3,7B,3D,FE,00,CB,32,D3,7B,  
 2A,D7,78,2B,22,D7,17A3  
 305 DATA 7B,2A,D5,7B,2B,22,D5,7B,3E,01,  
 32,37,79,C9,3A,D3,1E23  
 310 DATA 7B,3C,FE,46,CB,32,D3,7B,2A,D7,  
 7B,23,22,D7,78,2A,2597  
 315 DATA D5,7B,23,22,D5,7B,3E,01,32,37,  
 79,C9,53,43,4F,52,2B97  
 320 DATA 45,20,3A,20,30,30,30,30,30,30,  
 43,45,4E,54,49,50,2F39  
 325 DATA 45,44,45,74,0B,DD,75,07,DD,7E,  
 03,DD,77,09,DD,7E,35F2  
 330 DATA 04,00,00,00,00,00,00,00,00,00,  
 8B,00,00,00,00,00,367E  
 335 DATA 20,00,00,00,50,20,20,70,00,00,  
 00,10,30,00,00,00,37DE  
 340 DATA 00,00,20,00,00,00,00,30,30,20,  
 00,00,50,00,20,50,393E  
 345 DATA 00,00,00,10,30,00,00,00,00,20,  
 20,20,00,00,00,20,39FE  
 350 DATA 20,20,00,00,00,20,00,20,00,00,  
 00,A0,00,A0,00,00,3BBE  
 355 DATA 00,00,00,00,00,DD,46,00,DD,56,  
 04,E5,CD,5F,79,06,40A8  
 360 DATA 0E,21,E1,7B,22,35,79,D1,2A,35,  
 79,C5,D5,01,06,00,464A  
 365 DATA ED,B0,22,35,79,E1,CD,70,79,C1,  
 E5,10,EA,E1,C9,11,4FA9  
 370 DATA 00,0B,3E,BF,37,3F,ED,52,BC,3B,  
 F9,19,22,D7,78,C9,56A3  
 375 DATA D5,11,00,0B,19,30,0A,2A,D7,7B,  
 11,50,00,19,22,D7,5AD0

380 DATA 7B,D1,C9,F5,D5,11,00,F8,19,3E,  
 BF,BC,3B,0E,2A,D7,62CE  
 385 DATA 7B,11,B0,FF,19,22,D7,7B,11,00,  
 3B,19,D1,F1,C9,21,699E  
 390 DATA 24,7C,DD,21,25,7C,46,C5,DD,7E,  
 05,FE,00,CA,97,7A,7121  
 395 DATA 06,04,C5,CD,17,7B,E5,EB,CD,22,  
 7D,EB,D2,CC,79,E1,7A6E  
 400 DATA CD,52,7B,FE,00,C2,8F,7A,C1,C3,  
 0C,7B,ED,53,3D,80,82D9  
 405 DATA 1A,FE,00,CA,83,7A,FE,0C,20,49,  
 E5,DD,E5,D5,E1,3E,BBC6  
 410 DATA 00,32,3F,80,CD,45,7E,DD,E1,E1,  
 E1,E5,DD,56,02,DD,94BE  
 415 DATA 5E,01,37,3F,ED,52,2B,1B,11,06,  
 00,DD,19,E1,E5,DD,9AC5  
 420 DATA 56,02,DD,5E,01,37,3F,ED,52,CA,  
 83,7A,11,F4,FF,DD,A2B6  
 425 DATA 19,1B,70,3A,3F,80,FE,00,2B,69,  
 E1,D1,C1,05,C5,D5,A9F1  
 430 DATA E5,1B,60,FE,3C,20,09,2A,0E,80,  
 2B,22,0E,80,1B,53,AEAF  
 435 DATA FE,FC,2B,4F,FE,03,2B,4B,FE,0F,  
 2B,47,FE,47,20,1F,B594  
 440 DATA 3E,00,32,3F,80,CD,02,7F,3E,00,  
 32,0D,80,21,22,80,B9D1  
 445 DATA CD,E1,7C,3A,3F,80,FE,00,2B,29,  
 E1,C1,C3,0C,7B,21,C150  
 450 DATA 24,7C,DD,21,25,7C,46,C5,DD,46,  
 00,DD,66,02,DD,6E,CB4D  
 455 DATA 01,CD,E1,7C,23,23,10,F9,11,06,  
 00,DD,19,C1,10,E7,CEBC  
 460 DATA C3,25,81,E1,ED,5B,3D,80,73,23,  
 72,2B,CD,12,7D,C1,D62B  
 465 DATA 05,C2,B2,79,C3,0C,7B,CD,17,7B,  
 E5,DD,7E,03,FE,00,DE07  
 470 DATA 2B,34,13,CD,B6,7B,1B,EB,CD,22,  
 7D,EB,CD,B2,7B,1B,E5E6  
 475 DATA CD,B2,7B,13,13,CD,B6,7B,EB,CD,  
 3D,7D,EB,1B,1B,CD,EE64  
 480 DATA B2,7B,EB,CD,3D,7D,EB,13,CD,B2,  
 7B,1B,CD,B2,7B,13,F723  
 485 DATA 13,CD,B6,7B,1B,32,1B,CD,B2,7B,  
 13,EB,CD,22,7D,EB,FEEB  
 490 DATA CD,B6,7B,13,CD,B6,7B,1B,1B,CD,  
 B2,7B,EB,CD,3D,7D,0799  
 495 DATA EB,13,13,CD,B6,7B,EB,CD,3D,7D,  
 EB,1B,CD,B6,7B,13,1031  
 500 DATA CD,B6,7B,1B,1B,CD,B2,7B,E1,CD,  
 52,7B,11,06,00,DD,17CE  
 505 DATA 19,C1,05,C2,A7,79,C9,DD,66,02,  
 DD,6E,01,E5,DD,46,1FF1  
 510 DATA 00,05,5B,16,00,19,19,CD,E1,7C,  
 7B,FE,00,2B,0E,2B,2497  
 515 DATA 2B,5E,23,56,23,73,23,72,2B,2B,  
 2B,10,F2,5E,23,56,291E  
 520 DATA E1,C9,FD,E1,D1,C1,05,3E,00,BB,

20,01,04,C5,D5,FD,31EF  
 525 DATA E5,C9,36,00,23,36,00,23,DD,35,  
 00,DD,7E,00,FE,00,37BA  
 530 DATA 20,06,CD,71,7B,3E,00,C9,DD,74,  
 02,DD,75,01,3E,01,3D85  
 535 DATA C9,3A,24,7C,FE,01,CA,D7,80,DD,  
 96,04,FE,00,2B,23,450B  
 540 DATA 4F,C5,06,05,81,10,FD,4F,06,00,  
 DD,E5,D1,21,06,00,4AC4  
 545 DATA 19,ED,B0,C1,41,11,06,00,DD,E5,  
 DD,35,04,DD,19,10,5171  
 550 DATA F9,DD,E1,21,24,7C,35,11,FA,FF,  
 DD,19,3E,01,32,3F,58CE  
 555 DATA 80,C9,06,00,1B,02,06,01,1A,FE,  
 C3,20,0E,3A,D6,80,5DD7  
 560 DATA FE,01,20,5C,E1,E1,E1,E1,C3,A9,  
 82,FE,47,20,20,3A,66B3  
 565 DATA D6,80,FE,01,20,07,E1,E1,E1,E1,  
 C3,71,82,EB,CD,7A,706B  
 570 DATA 7F,2A,0E,80,23,22,0E,80,21,0D,  
 80,36,00,1B,31,FE,74A0  
 575 DATA 0F,20,1B,DD,36,05,02,DD,46,00,  
 DD,66,02,DD,6E,01,79B8  
 580 DATA 5E,23,56,23,CD,12,7D,10,F7,E1,  
 E1,C3,0C,7B,FE,03,8122  
 585 DATA C0,E1,E1,73,23,72,2B,CD,FE,7C,  
 DD,70,03,C3,0C,7B,89B8  
 590 DATA E1,C3,0B,7B,01,1E,A3,7C,00,01,  
 00,00,00,00,00,00,8D1E  
 595 DATA 00,00,00,00,00,00,00,00,00,00,  
 00,00,00,00,00,00,8D1E  
 600 DATA 00,00,00,00,00,00,00,00,00,00,  
 00,00,00,00,00,00,8D1E  
 605 DATA 00,00,00,00,00,00,00,00,00,00,  
 00,00,00,00,00,00,8D1E  
 610 DATA 00,00,00,00,00,00,00,00,00,00,  
 00,00,00,00,00,00,8D1E  
 615 DATA 00,00,00,00,00,00,00,00,00,00,  
 00,00,00,00,00,00,8D1E  
 620 DATA 00,00,00,00,00,00,00,00,00,00,  
 00,00,00,00,00,00,8D1E  
 625 DATA 00,00,00,00,00,00,00,00,00,00,  
 00,00,00,00,00,00,8D1E  
 630 DATA 00,00,00,CC,C0,CD,C0,CE,C0,CF,  
 C0,DO,C0,D1,C0,D2,9747  
 635 DATA C0,D3,C0,D4,C0,D5,C0,D6,C0,D7,  
 C0,DB,C0,D9,C0,DA,A3FB  
 640 DATA C0,DB,C0,DC,C0,DD,C0,DE,C0,DF,  
 C0,E0,C0,E1,C0,E2,80EF  
 645 DATA C0,E3,C0,E4,C0,E5,C0,E6,C0,E7,  
 C0,EB,C0,E9,C0,CD,BE06  
 650 DATA 90,E5,D5,C5,5E,23,56,EB,2B,7E,  
 FE,00,2B,02,3E,03,C4E9  
 655 DATA 23,11,00,0B,06,04,77,19,10,FC,  
 C1,D1,E1,C9,E5,D5,CBC1  
 660 DATA C5,EB,11,00,0B,06,03,36,0C,19,  
 10,FB,36,06,C1,D1,DOC7



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665 DATA E1,C9,C5,E5,EB,11,00,08,06,04,
36,FC,19,10,FB,E1,DB60
670 DATA C1,C9,D5,E5,11,00,20,19,30,10,
E1,11,50,E0,19,E5,DF4E
675 DATA 11,CF,C7,3F,ED,52,3F,E1,18,01,
D1,D1,C9,F5,D5,E5,EBC6
680 DATA 11,00,E0,19,3E,BF,BC,38,07,E1,
11,80,1F,19,18,01,EDBB
685 DATA D1,D1,F1,C9,3A,A3,7D,FE,00,C8,
1A,FE,03,28,0E,11,F599
690 DATA E9,E0,1A,FE,03,28,06,3E,00,32,
A3,7D,C9,CD,FE,7C,FD4B
695 DATA EB,DD,21,25,7C,3A,24,7C,47,05,
28,07,11,06,00,DD,021E
700 DATA 19,10,FC,DD,56,02,DD,5E,01,D5,
FD,E1,DD,7E,00,87,0A49
705 DATA 5F,16,00,FD,19,FD,74,01,FD,75,
00,DD,34,00,21,A3,108D
710 DATA 7D,35,C9,00,3A,0D,80,FE,01,28,
2A,3E,4C,CD,1E,BB,1650
715 DATA C8,21,40,80,CD,AA,BC,21,49,80,
CD,AA,BC,2A,D7,78,1EC2
720 DATA 23,23,23,22,22,80,CD,F4,7D,22,
22,80,CD,66,7F,21,24C4
725 DATA 0D,80,36,01,C9,21,22,80,CD,E1,
7C,2A,22,80,06,04,2A14
730 DATA ED,43,3B,80,CD,F4,7D,ED,4B,3B,
80,10,F3,22,22,80,31F7
735 DATA CD,66,7F,C9,CD,3D,7D,7E,FE,03,
CB,FE,00,CB,FE,3C,3B40
740 DATA 20,17,22,22,80,21,22,80,CD,E1,
7C,2A,0E,80,2B,22,402D
745 DATA 0E,80,21,0D,80,36,00,E1,C9,FE,
0F,2B,F5,FE,FC,20,478D
750 DATA 0A,CD,2D,7F,3B,EC,CD,02,7F,18,
E7,FE,0C,C2,42,7E,4F0D
755 DATA 3A,D6,80,FE,01,20,06,E1,E1,E1,
C3,71,82,CD,45,7E,57AB
760 DATA 18,D0,C3,12,7E,CD,2D,7F,DB,CD,
74,7F,3E,01,BB,20,5F0E
765 DATA 0F,CD,87,7F,DD,35,00,DD,7E,00,
FE,00,CC,71,7B,C9,66DC
770 DATA FD,36,00,00,FD,36,01,00,2A,0E,
80,23,22,0E,80,DD,6BAB
775 DATA 7E,00,BB,20,12,DD,35,00,DD,66,
02,DD,6E,01,23,23,70FC
780 DATA DD,74,02,DD,75,01,C9,3A,24,7C,
DD,BE,04,28,23,DD,780C
785 DATA 96,04,C5,06,05,4F,81,10,FD,4F,
06,00,C5,21,24,7C,7D2E
790 DATA 11,06,00,3A,24,7C,47,19,10,FD,
E5,19,D1,EB,C1,ED,83F4
795 DATA BB,C1,DD,7E,00,F5,90,DD,77,00,
05,DD,70,06,DD,66,8C3C
800 DATA 02,DD,6E,01,F1,87,5F,16,00,19,
3E,00,90,90,5F,16,9163
805 DATA FF,19,DD,74,08,DD,75,07,DD,7E,

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03,DD,77,09,DD,7E,9943
810 DATA 04,3C,DD,77,0A,DD,36,0B,00,3A,
24,7C,DD,46,04,90,9E90
815 DATA 28,0B,47,11,06,00,DD,19,DD,34,
0A,10,F9,21,24,7C,A2FC
820 DATA 34,C9,DD,35,05,C0,DD,46,00,DD,
66,02,DD,6E,01,CD,AA51
825 DATA E1,7C,23,23,10,F9,2A,11,80,11,
64,00,19,22,11,80,AEF9
830 DATA 30,04,21,10,80,34,CD,BE,7F,CD,
71,7B,C9,DD,21,25,B5C1
835 DATA 7C,DD,46,FF,C5,DD,46,00,DD,56,
02,DD,5E,01,D5,FD,BEBA
840 DATA E1,E5,FD,56,01,FD,5E,00,37,3F,
ED,52,28,13,E1,FD,C6CD
845 DATA 23,FD,23,10,EC,11,06,00,DD,19,
C1,10,D7,E1,E1,37,CDBA
850 DATA C9,E1,D1,37,3F,C9,11,00,0B,06,
02,36,47,19,36,8B,D2EC
855 DATA 19,10,FB,C9,FD,66,01,FD,6E,00,
11,00,0B,C5,06,04,DBBD
860 DATA 36,3C,19,10,FB,C1,C9,FD,66,01,
FD,6E,00,11,00,0B,DE95
865 DATA C5,06,04,36,0F,19,10,FB,C1,C9,
3A,17,80,3C,FE,0A,E46C
870 DATA 28,05,32,17,80,18,4D,3E,00,32,
17,80,3A,16,80,3C,E7DA
875 DATA FE,0A,28,05,32,16,80,18,3B,3E,
00,32,16,80,3A,15,EB7F
880 DATA 80,3C,FE,0A,28,05,32,15,80,18,
29,3E,00,32,15,80,EF7D
885 DATA 3A,14,80,3C,FE,0A,28,05,32,14,
80,18,17,3E,00,32,F321
890 DATA 14,80,3A,13,80,3C,FE,0A,28,05,
32,13,80,18,05,3E,F713
895 DATA 00,32,13,80,21,01,0C,CD,75,BB,
06,06,21,13,80,C5,FB88
900 DATA E5,7E,C6,30,CD,5D,BB,E1,23,C1,
10,F3,C9,00,00,00,0357
905 DATA 00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,0357
910 DATA 00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,0357

```

**CENT 2 - DAT**

```

10 a=32816:f=38735:MEMORY a-1:l=100
20 WHILE a<f
30 FOR a=a TO a+15:READ c$:k=VAL("&"+c
$):s=s+k+65536*(s+k>32767):POKE a,k:NEX
T
40 READ d$:t=VAL("&"+d$):IF t<>s THEN
PRINT CHR$(7);"Erreur ligne ";l:END ELS
E l=1+5
50 WEND
60 SAVE"cent2.bin",b,32816,&171F

```

```

70 END
100 DATA 00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,0000
105 DATA 01,00,00,00,00,0D,07,07,00,01,
00,00,00,00,12,07,0036
110 DATA 07,00,01,64,01,03,01,64,05,03,
01,01,01,1C,01,00,0133
115 DATA 01,2C,01,02,01,0F,06,0F,FF,08,
01,01,00,14,00,00,02A5
120 DATA 00,0A,00,01,00,00,F4,01,00,0F,
64,00,01,00,00,F4,050D
125 DATA 01,00,0F,4B,00,01,00,00,F4,01,
00,0F,19,00,01,00,0687
130 DATA 00,A9,01,00,0F,4B,00,01,00,00,
C2,01,00,0F,19,00,0877
135 DATA 01,00,00,C2,01,00,0F,4B,00,01,
00,00,F4,01,00,0F,0A9A
140 DATA 19,00,01,00,00,F4,01,00,0F,4B,
00,01,00,00,0D,02,0C13
145 DATA 00,0F,19,00,01,00,00,F4,01,00,
0F,64,00,01,00,00,0DA5
150 DATA 00,00,00,00,02,00,02,ED,7B,38,
79,2A,0E,80,3E,00,10B8
155 DATA BC,20,03,8D,28,31,E5,CD,A7,BC,
3E,01,21,63,80,CD,17D2
160 DATA BC,BC,E1,E5,E5,CD,9A,7F,21,6A,
80,CD,AA,BC,E1,11,220B
165 DATA 01,00,37,3F,ED,52,20,EC,E1,ED,
5B,11,80,19,22,11,27D3
170 DATA 80,30,04,21,10,80,34,3A,FA,77,
3D,FE,00,28,03,32,2CAF
175 DATA FA,77,C3,13,76,ED,7B,38,79,3A,
3A,79,3D,2B,5D,32,3366
180 DATA 3A,79,F5,CD,3D,81,F1,CD,60,81,
C3,13,76,CD,A7,BC,3CB4
185 DATA 3E,01,21,52,80,CD,BC,BC,3E,01,
21,56,80,CD,BF,BC,43A9
190 DATA 21,5A,80,CD,AA,BC,3E,01,CD,AD,
BC,CB,7F,20,F7,C9,4C76
195 DATA 47,2A,D7,78,22,D9,78,21,8B,C1,
11,F0,00,19,10,FD,533D
200 DATA 22,D7,78,06,0E,C5,06,05,E5,36,
00,23,10,FB,E1,CD,5989
205 DATA 70,79,C1,10,F0,2A,D9,78,22,D7,
78,C9,CD,EC,81,ED,630F
210 DATA 7B,38,79,3A,19,80,21,10,80,96,
38,0F,20,18,2A,1A,6718
215 DATA 80,ED,5B,11,80,37,3F,ED,52,30,
0B,21,10,80,11,19,6C3C
220 DATA 80,01,09,00,ED,80,CD,A7,BC,06,
0A,21,73,80,C5,E5,7361
225 DATA CD,AA,BC,30,FB,21,CD,80,CD,AA,
BC,30,FB,E1,11,09,7CB6
230 DATA 00,19,C1,10,E9,3E,01,CD,AD,BC,
E6,07,FE,03,28,F5,83D9
235 DATA 3E,01,CD,AD,BC,CB,7F,20,F7,C3,
0A,76,3A,D6,80,FE,8CB0

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240 DATA 00,C8,E1,CD,3D,81,11,00,40,CD,  
07,87,01,06,00,21,9188  
245 DATA D3,78,11,DB,78,ED,B0,01,17,00,  
21,0E,80,11,24,80,9750  
250 DATA ED,B0,3E,00,CD,0E,BC,CD,53,76,  
3E,01,CD,90,BB,21,9ED0  
255 DATA 01,01,CD,75,BB,21,BC,82,06,14,  
CD,19,77,3E,08,CD,A488  
260 DATA E4,BB,11,00,00,21,7C,02,CD,CF,  
BB,11,40,01,21,4E,AA1F  
265 DATA 01,CD,D2,BB,CD,DB,BB,21,40,C1,  
CD,66,82,21,8F,C1,B325  
270 DATA CD,66,82,CD,57,77,3E,01,32,D6,  
80,CD,87,77,3E,00,BA45  
275 DATA 32,A3,7D,C3,F0,77,11,00,08,06,  
08,36,C3,19,10,FB,C005  
280 DATA C9,3E,00,32,D6,80,11,00,40,CD,  
E2,86,06,03,C5,78,C660  
285 DATA 3C,CD,60,81,C1,10,F7,3E,01,32,  
3A,79,01,06,00,21,CB5E  
290 DATA DB,78,11,D3,78,ED,B0,01,17,00,  
21,24,80,11,0E,80,D126  
295 DATA ED,B0,ED,78,38,79,C3,13,76,3E,  
00,32,D6,80,01,17,DB06  
300 DATA 00,21,24,80,11,0E,80,ED,B0,C3,  
8C,81,2A,20,20,20,DD61  
305 DATA 56,69,65,20,65,6E,20,42,4F,4E,  
55,53,20,20,20,2A,E1A9  
310 DATA 3E,00,CD,0E,BC,CD,6C,BB,3E,05,  
CD,96,BB,3E,01,CD,E8DF  
315 DATA 90,BB,3E,01,01,00,00,CD,32,BC,  
3E,05,01,00,00,CD,ED36  
320 DATA 32,BC,3E,F0,21,52,83,CD,AB,BB,  
21,01,01,CD,75,BB,F498  
325 DATA 21,5C,83,7E,FE,00,28,08,E5,CD,  
5D,BB,E1,23,18,F3,FC1D  
330 DATA 11,37,97,21,00,00,22,5A,83,06,  
00,C5,21,00,00,D5,FFDD  
335 DATA 3E,00,BB,28,06,11,00,08,19,10,  
FD,11,00,C0,19,ED,0417  
340 DATA 5B,5A,83,19,D1,7E,12,13,C1,04,  
3E,08,90,20,DC,D5,0A4B  
345 DATA 2A,5A,83,23,22,5A,83,11,D0,01,  
37,3F,ED,52,D1,20,OFF9  
350 DATA C8,C9,00,00,00,76,DB,00,00,00,  
00,00,43,45,4E,54,1402  
355 DATA 49,50,45,44,45,20,2E,2E,2E,2E,  
2E,2E,20,A4,20,54,17D5  
360 DATA 68,69,65,72,72,79,20,4D,41,54,  
48,49,41,53,20,31,1CE0  
365 DATA 39,38,38,20,2E,2E,2E,2E,2E,2E,  
2E,2E,2E,2E,2E,2E,1FD1  
370 DATA 2E,2E,2E,2E,2E,2E,20,4A,3A,4A,  
6F,79,73,74,69,63,246E  
375 DATA 6B,20,20,20,43,3A,43,6C,61,76,  
69,65,72,20,20,20,28DC  
380 DATA 28,30,F0,39,29,3A,4E,69,76,65,

61,75,20,2E,2E,2E,2DD2  
385 DATA 2E,2E,2E,2E,2E,2E,2E,2E,2E,  
2E,2E,2E,2E,20,30A4  
390 DATA 00,3E,00,CD,0E,BC,21,30,30,CD,  
3E,BC,CD,03,BB,06,3652  
395 DATA 02,48,CD,38,BC,21,87,87,CD,63,  
87,3E,09,06,18,0E,3BB6  
400 DATA 00,CD,32,BC,3E,0A,06,00,0E,18,  
CD,32,BC,11,C3,87,40FB  
405 DATA CD,E2,86,3E,05,CD,96,BB,3E,09,  
CD,90,BB,21,02,09,481C  
410 DATA CD,75,BB,06,06,0E,30,21,13,80,  
11,9C,87,7E,81,12,4D5C  
415 DATA 23,13,10,F9,21,97,87,06,0B,CD,  
57,87,21,04,09,CD,5291  
420 DATA 75,BB,21,AD,87,06,0B,CD,57,87,  
3E,19,32,FA,77,3E,590A  
425 DATA 0A,CD,90,BB,21,03,09,CD,75,BB,  
06,06,0E,30,21,1C,5DDD  
430 DATA 80,11,A7,87,7E,81,12,23,13,10,  
F9,21,A2,87,06,0B,6347  
435 DATA CD,57,87,3E,06,CD,96,BB,3E,07,  
CD,90,BB,21,19,06,69F1  
440 DATA CD,75,BB,21,BB,87,06,0B,CD,57,  
87,11,FB,C4,CD,FE,72A5  
445 DATA 7C,DD,21,24,7C,DD,36,00,01,DD,  
36,01,01,21,A3,7C,7828  
450 DATA DD,75,02,DD,74,03,DD,36,04,00,  
DD,36,05,01,DD,36,7E13  
455 DATA 06,00,DD,21,A3,7C,DD,73,00,DD,  
72,01,3E,1D,32,A3,8406  
460 DATA 7D,DD,21,37,97,DD,E5,CD,9F,79,  
11,FB,C4,CD,54,7D,8D64  
465 DATA DD,E1,21,98,C6,11,00,08,06,3F,  
CD,19,BD,C5,E5,06,9452  
470 DATA 08,23,7E,2B,77,19,10,F9,E1,23,  
C1,10,F0,06,0B,DD,9A6F  
475 DATA 7E,00,77,DD,23,19,10,F7,DD,E5,  
D1,21,B7,A5,37,3F,A20A  
480 DATA ED,52,20,04,DD,21,37,97,06,06,  
C5,06,FF,10,FE,C1,ABDE  
485 DATA 10,FB,CD,09,BB,F5,06,30,90,38,  
27,06,0A,90,30,22,AEB3  
490 DATA 80,F5,06,30,80,F5,3E,05,CD,96,  
BB,3E,09,CD,90,BB,8663  
495 DATA 21,04,13,CD,75,BB,F1,CD,5D,BB,  
F1,87,06,0F,80,32,BDAD  
500 DATA FA,77,F1,FE,6A,20,16,3E,48,32,  
09,78,3C,32,11,78,C3DD  
505 DATA 3C,32,19,78,3C,32,21,78,3C,32,  
AC,7D,C9,FE,63,C2,CA66  
510 DATA DF,86,06,05,21,DA,86,36,FF,23,  
10,FB,3E,00,CD,0E,D0D3  
515 DATA BC,CD,03,BB,21,77,87,CD,63,87,  
01,00,00,CD,38,BC,D7B2  
520 DATA 3E,0E,01,12,00,CD,32,BC,21,10,  
10,CD,3E,BC,21,D4,DCC9

525 DATA C4,CD,3B,79,3E,02,DD,21,7A,86,  
CD,19,86,3E,02,DD,E3D5  
530 DATA 21,92,86,CD,19,86,3E,02,DD,21,  
AA,86,CD,19,86,3E,EA92  
535 DATA 02,DD,21,C2,86,CD,19,86,3E,0E,  
DD,21,7A,86,CD,19,F176  
540 DATA 86,CD,48,86,38,FB,32,09,78,3E,  
02,DD,21,7A,86,CD,F88B  
545 DATA 19,86,3E,0E,DD,21,92,86,CD,19,  
86,CD,48,86,38,FB,FFC9  
550 DATA 32,11,78,3E,02,DD,21,92,86,CD,  
19,86,3E,0E,DD,21,0590  
555 DATA AA,86,CD,19,86,CD,48,86,38,FB,  
32,19,78,3E,02,DD,OCDD  
560 DATA 21,AA,86,CD,19,86,3E,0E,DD,21,  
C2,86,CD,19,86,CD,1465  
565 DATA 4B,86,38,FB,32,21,78,3E,02,DD,  
21,C2,86,CD,19,86,1B26  
570 DATA CD,48,86,38,FB,32,AC,7D,C9,CD,  
DE,BB,DD,5E,00,DD,2499  
575 DATA 56,01,DD,6E,02,DD,66,03,CD,EA,  
BB,11,04,00,DD,19,2B00  
580 DATA 06,05,C5,DD,5E,00,DD,56,01,DD,  
6E,02,DD,66,03,CD,319F  
585 DATA F6,BB,11,04,00,DD,19,C1,10,EB,  
C9,CD,06,BB,2A,41,38D6  
590 DATA B5,0E,00,46,BB,28,04,0C,23,18,  
FB,79,06,05,21,DA,3D81  
595 DATA 86,F5,3E,FF,BE,28,0E,F1,BE,28,  
03,23,10,F3,3E,07,4472  
600 DATA CD,5A,BB,37,C9,F1,77,37,3F,C9,  
38,01,AA,00,38,01,4B17  
605 DATA DC,00,44,01,DC,00,38,01,EA,00,  
2C,01,DC,00,38,01,4F79  
610 DATA DC,00,38,01,78,00,38,01,46,00,  
44,01,46,00,38,01,5249  
615 DATA 38,00,2C,01,46,00,38,01,46,00,  
1C,01,90,00,E4,00,5504  
620 DATA 90,00,E4,00,98,00,D4,00,90,00,  
E4,00,88,00,E4,00,5AC4  
625 DATA 90,00,54,01,90,00,8C,01,90,00,  
8C,01,98,00,9C,01,5F18  
630 DATA 90,00,8C,01,88,00,8C,01,90,00,  
FF,FF,FF,FF,FF,C3,6798  
635 DATA B5,84,1A,4F,13,21,00,C0,AF,BC,  
CB,1A,B9,28,05,77,6DD8  
640 DATA 23,13,18,F4,13,1A,FE,00,20,03,  
79,18,F2,47,13,1A,725F  
645 DATA 13,77,23,10,FC,18,E1,0E,9F,79,  
12,13,21,00,C0,AF,77EC  
650 DATA BC,28,43,E5,7E,23,BE,20,2F,23,  
BE,20,2B,AF,BC,28,7E65  
655 DATA 27,E1,79,12,13,06,03,23,23,E5,  
7E,23,BE,20,0F,23,82F0  
660 DATA AF,BC,28,0A,3E,FF,BB,28,05,E1,  
23,04,18,EB,E1,78,8A13  
665 DATA 12,13,7E,12,13,23,18,C7,E1,7E,



12, 13, 7E, 23, B9, 20, BEDB  
 670 DATA BE, AF, 12, 13, 18, B9, C9, C5, E5, 7E,  
 CD, 5D, BB, E1, 23, C1, 97D9  
 675 DATA 10, F5, C9, 3E, 00, 06, 10, C5, F5, E5,  
 46, 4B, CD, 32, BC, E1, 9FC4  
 680 DATA 23, F1, 3C, C1, 10, F1, C9, 00, 14, 12,  
 07, 1A, 1B, 02, 16, 00, A416  
 685 DATA 00, 0B, 10, 11, 0B, 00, 06, 00, 1B, 12,  
 06, 03, 00, 02, 11, 02, A49B  
 690 DATA 1B, 00, 00, 00, 00, 00, 00, 53, 43, 30,  
 20, 3A, 30, 30, 30, 30, A690  
 695 DATA 30, 30, 52, 45, 43, 20, 3A, 30, 30, 30,  
 30, 30, 30, 4E, 49, 56, AA31  
 700 DATA 20, 3A, 20, 20, 20, 20, 20, 35, A4, 20,  
 54, 2E, 4D, 41, 54, 48, ADD0  
 705 DATA 49, 41, 53, 7B, 3C, 3C, 7B, 03, 03, 3C,  
 7B, 07, 03, 7B, 06, 3C, B19F  
 710 DATA 7B, 04, 03, 7B, 39, 3C, 03, 03, 3C, 3C,  
 7B, 03, 03, 7B, 0F, 3C, B4D6  
 715 DATA 03, 03, 7B, 03, 3C, 6B, F0, F0, D0, 7B,  
 2E, F0, D0, F0, E0, 7B, BD62  
 720 DATA 03, 03, 7B, 07, 3C, 03, 03, 7B, 03, 3C,  
 7B, 04, 03, 3C, 03, 3C, BFE3  
 725 DATA 3C, 03, 7B, 03, 3C, 6B, F0, F0, D0, 7B,  
 2E, F0, D0, F0, E0, 7B, CBAB  
 730 DATA 06, 3C, 7B, 05, 03, 3C, 7B, 05, 03, 7B,  
 03, 3C, 03, 3C, 03, 03, CB64  
 735 DATA 7B, 03, 3C, 6B, F0, F0, D0, 7B, 2E, F0,  
 D0, F0, E0, 7B, 03, 03, D3F0  
 740 DATA 3C, 7B, 07, 03, 3C, 7B, 03, 03, 3C, 03,  
 3C, 03, 7B, 03, 3C, 03, D6A9  
 745 DATA 7B, 04, 3C, 6B, F0, F0, D0, 7B, 2E, F0,  
 D0, F0, E0, 7B, 03, 03, DF36  
 750 DATA 7B, 03, 3C, 7B, 03, 03, 3C, 7B, 05, 03,  
 3C, 03, 3C, 7B, 03, 03, E22C  
 755 DATA 3C, 03, 7B, 3D, 3C, 7B, 03, 03, 3C, 7B,  
 03, 03, 3C, 7B, 05, 03, E55C  
 760 DATA 3C, 7B, 03, 03, 3C, 03, 7B, 39, 3C, 03,  
 3C, 7B, 09, 03, 3C, 7B, EBC5  
 765 DATA 03, 03, 3C, 7B, 03, 03, 7B, 03, 3C, 03,  
 03, 7B, 3B, 3C, 03, 7B, EBB5  
 770 DATA 16, 3C, 7B, 35, 03, 7B, 04, 3C, 03, 7B,  
 4A, 3C, 03, 7B, 04, 3C, EF37  
 775 DATA 03, 7B, 4A, 3C, 03, 7B, 04, 3C, 03, 7B,  
 09, 3C, 6C, CC, 7B, 03, F372  
 780 DATA 3C, 7B, 06, CC, 3C, 6C, CC, 9C, 3C, 3C,  
 CC, CC, 9C, 6C, 7B, 05, FAA3  
 785 DATA CC, 3C, 7B, 05, CC, 9C, 6C, 7B, 04, CC,  
 3C, 3C, 6C, 7B, 06, CC, 017B  
 790 DATA 3C, 7B, 04, CC, 9C, 3C, 6C, 7B, 06, CC,  
 7B, 04, 3C, 03, 7B, 04, 06D0  
 795 DATA 3C, 03, 7B, 07, 3C, CC, 7B, 04, 3C, 6C,  
 3C, 6C, CC, 3C, CC, 7B, 0CB7  
 800 DATA 04, 3C, CC, 9C, CC, 3C, 6C, CC, 7B, 03,  
 3C, 6C, CC, 7B, 05, 3C, 134D  
 805 DATA CC, 9C, 7B, 03, 3C, 6C, CC, 3C, 3C, CC,  
 9C, 3C, 6C, CC, 3C, CC, 1B03

810 DATA 7B, 04, 3C, CC, 9C, 3C, 3C, CC, 9C, 6C,  
 CC, 3C, CC, 7B, 06, 3C, 2203  
 815 DATA 03, 7B, 04, 3C, 03, 7B, 07, 3C, 6C, CC,  
 3C, 3C, 6C, 9C, 3C, 6C, 26E2  
 820 DATA CC, 7B, 03, 3C, CC, 3C, 3C, CC, 9C, 3C,  
 3C, CC, CC, 7B, 03, 3C, 20DE  
 825 DATA 6C, CC, 7B, 05, 3C, CC, 9C, 7B, 03, 3C,  
 6C, CC, 7B, 05, 3C, 6C, 3454  
 830 DATA CC, 7B, 03, 3C, CC, 3C, 3C, CC, 9C, 3C,  
 CC, 9C, 3C, 6C, CC, 7B, 3C19  
 835 DATA 03, 3C, CC, 7B, 04, 3C, 03, 7B, 04, 3C,  
 03, 7B, 4A, 3C, 03, 7B, 401F  
 840 DATA 04, 3C, 7B, 10, 03, 7B, 2F, 3C, 7B, 0D,  
 03, 7B, 13, 3C, 7B, 31, 43D4  
 845 DATA 03, 7B, FF, 3C, 3C, 3C, D0, 7B, 0B, F0,  
 C0, 94, 7B, 3B, 3C, 6B, 4AF3  
 850 DATA C0, 7B, 0B, F0, E0, 3C, 3C, 6B, 7B, 04,  
 F0, D0, 7B, 42, F0, E0, 53B2  
 855 DATA 7B, 04, F0, 94, 7B, 07, 3C, D0, 7B, 42,  
 F0, E0, 7B, A6, 3C, 00, 5B2D  
 860 DATA C0, C0, 7B, 0A, 00, C0, 7B, 22, 00, 3C,  
 3C, 7B, 03, 03, 3C, 7B, 603F  
 865 DATA 07, 03, 7B, 06, 3C, 7B, 04, 03, 7B, 39,  
 3C, 03, 03, 3C, 3C, 7B, 6371  
 870 DATA 03, 03, 7B, 0F, 3C, 03, 03, 7B, 03, 3C,  
 6B, F0, F0, D0, 7B, 2E, 68BE  
 875 DATA F0, D0, F0, E0, 7B, 03, 03, 7B, 07, 3C,  
 03, 03, 7B, 03, 3C, 7B, 6ECB  
 880 DATA 04, 03, 3C, 03, 3C, 03, 7B, 03, 3C,  
 6B, F0, F0, D0, 7B, 2E, 7404  
 885 DATA F0, D0, F0, E0, 7B, 06, 3C, 7B, 05, 03,  
 3C, 7B, 05, 03, 7B, 03, 7A11  
 890 DATA 3C, 03, 3C, 3C, 03, 7B, 03, 3C, 6B, F0,  
 F0, D0, 7B, 2E, F0, D0, 8106  
 895 DATA F0, E0, 7B, 03, 03, 3C, 7B, 07, 03, 3C,  
 7B, 03, 03, 3C, 03, 3C, 8550  
 900 DATA 03, 7B, 03, 3C, 03, 7B, 04, 3C, 6B, F0,  
 F0, D0, 7B, 2E, F0, D0, 8C4C  
 905 DATA F0, E0, 7B, 03, 03, 7B, 03, 3C, 7B, 03,  
 03, 3C, 7B, 05, 03, 3C, 90D3  
 910 DATA 03, 3C, 7B, 03, 03, 3C, 03, 7B, 3D, 3C,  
 7B, 03, 03, 3C, 7B, 03, 9401  
 915 DATA 03, 3C, 7B, 05, 03, 3C, 7B, 03, 03, 3C,  
 03, 7B, 39, 3C, 03, 3C, 96EE  
 920 DATA 7B, 09, 03, 3C, 7B, 03, 03, 3C, 7B, 03,  
 03, 7B, 03, 3C, 03, 03, 99AF  
 925 DATA 7B, 3B, 3C, 03, 7B, 16, 3C, 7B, 35, 03,  
 7B, 04, 3C, 03, 7B, 4A, 9DA4  
 930 DATA 3C, 03, 7B, 04, 3C, 03, 7B, 4A, 3C, 03,  
 7B, 04, 3C, 03, 7B, 0B, A0E6  
 935 DATA 3C, 6C, CC, CC, 9C, 3C, 3C, 7B, 06, CC,  
 3C, 3C, CC, 9C, 3C, 3C, A7DF  
 940 DATA 6C, CC, 3C, 6C, 7B, 05, CC, 3C, 7B, 05,  
 CC, 9C, 6C, 7B, 05, CC, AEE7  
 945 DATA 3C, 6C, 7B, 06, CC, 3C, 7B, 05, CC, 3C,  
 6C, 7B, 06, CC, 7B, 04, B4DB  
 950 DATA 3C, 03, 7B, 04, 3C, 03, 7B, 07, 3C, CC,

7B, 06, 3C, 6C, 7B, 03, B906  
 955 DATA CC, 7B, 04, 3C, CC, 9C, CC, 9C, 6C, CC,  
 7B, 03, 3C, 6C, CC, 7B, C102  
 960 DATA 05, 3C, CC, 9C, 7B, 03, 3C, 6C, 7B, 04,  
 CC, 9C, 3C, 6C, 7B, 03, C6DE  
 965 DATA CC, 7B, 04, 3C, CC, 9C, 3C, 3C, CC, 9C,  
 6C, 7B, 03, CC, 7B, 06, CDE4  
 970 DATA 3C, 03, 7B, 04, 3C, 03, 7B, 0B, 3C, CC,  
 9C, 3C, CC, 9C, 3C, 6C, D354  
 975 DATA CC, 7B, 03, 3C, CC, 3C, 3C, CC, 9C, 3C,  
 3C, CC, CC, 7B, 03, 3C, DA50  
 980 DATA 6C, CC, 7B, 04, 3C, 6C, CC, CC, 7B, 03,  
 3C, 6C, CC, 7B, 05, 3C, E0F5  
 985 DATA 6C, CC, 7B, 03, 3C, CC, 3C, 3C, CC, 9C,  
 6C, CC, 9C, 3C, 6C, CC, EBDB  
 990 DATA 7B, 03, 3C, CC, 7B, 04, 3C, 03, 7B, 04,  
 3C, 03, 7B, 4A, 3C, 03, ECE1  
 995 DATA 7B, 04, 3C, 7B, 10, 03, 7B, 2F, 3C, 7B,  
 0D, 03, 7B, 13, 3C, 7B, F0E0  
 1000 DATA 31, 03, 7B, FF, 3C, 3C, 3C, D0, 7B, 05,  
 , F0, E0, C0, C0, F0, 94, F966  
 1005 DATA 7B, 3B, 3C, 6B, F0, C0, C0, D0, 7B, 05,  
 , F0, E0, 3C, 3C, D0, 7B, 0210  
 1010 DATA 04, F0, D0, 7B, 42, F0, E0, 7B, 04, F0,  
 , E0, 7B, 07, 3C, D0, 7B, 0AB9  
 1015 DATA 42, F0, E0, 7B, A6, 3C, 40, 80, 40, 80,  
 , 7B, 09, 00, C0, 7B, 22, 11B9  
 1020 DATA 00, 3C, 3C, 7B, 03, 03, 3C, 7B, 07, 03,  
 , 7B, 06, 3C, 7B, 04, 03, 1482  
 1025 DATA 7B, 05, 3C, 6B, 94, 7B, 30, 3C, C0, 3C,  
 , 03, 03, 3C, 3C, 7B, 03, 1919  
 1030 DATA 03, 7B, 0F, 3C, 03, 03, 7B, 03, 3C, 6B,  
 , F0, F0, D0, 7B, 2E, F0, 1F53  
 1035 DATA D0, F0, E0, 7B, 03, 03, 7B, 07, 3C, 03,  
 , 03, 7B, 03, 3C, 7B, 04, 2471  
 1040 DATA 03, 3C, 03, 3C, 03, 7B, 03, 3C, 6B,  
 , F0, F0, D0, 7B, 2E, F0, 2A99  
 1045 DATA D0, F0, E0, 7B, 06, 3C, 7B, 05, 03, 3C,  
 , 7B, 05, 03, 7B, 03, 3C, 2FF2  
 1050 DATA 03, 3C, 3C, 03, 7B, 03, 3C, 6B, F0, F0,  
 , D0, 7B, 2E, F0, D0, F0, 379B  
 1055 DATA E0, 7B, 03, 03, 3C, 7B, 07, 03, 3C, 7B,  
 , 03, 03, 3C, 03, 3C, 03, 3AF8  
 1060 DATA 7B, 03, 3C, 03, 7B, 04, 3C, 6B, F0, F0,  
 , D0, 7B, 2E, F0, D0, F0, 42E1  
 1065 DATA E0, 7B, 03, 03, 7B, 03, 3C, 7B, 03, 03,  
 , 3C, 7B, 05, 03, 3C, 03, 467B  
 1070 DATA 3C, 7B, 03, 03, 3C, 03, 7B, 3D, 3C, 7B,  
 , 03, 03, 3C, 7B, 03, 03, 49A9  
 1075 DATA 3C, 7B, 05, 03, 3C, 7B, 03, 03, 3C, 03,  
 , 7B, 39, 3C, 03, 3C, 7B, 4DOE  
 1080 DATA 09, 03, 3C, 7B, 03, 03, 3C, 7B, 03, 03,  
 , 7B, 03, 3C, 03, 03, 7B, 4FCF  
 1085 DATA 3B, 3C, 03, 7B, 16, 3C, 7B, 35, 03, 7B,  
 , 04, 3C, 03, 7B, 4A, 3C, 53B5  
 1090 DATA 03, 7B, 04, 3C, 03, 7B, 4A, 3C, 03, 7B,  
 , 04, 3C, 03, 7B, 0B, 3C, 56C7





1095 DATA 7B,04,CC,3C,3C,7B,06,CC,3C,3C,3C,03,3C,7B,03,03,003C  
,CC,9C,3C,3C,6C,CC,5D67  
1100 DATA 3C,3C,7B,04,CC,9C,3C,6C,7B,04  
,CC,3C,3C,7B,05,CC,637D  
1105 DATA 9C,3C,7B,06,CC,3C,6C,7B,04,CC  
,9C,3C,7B,06,CC,7B,6A35  
1110 DATA 04,3C,03,7B,04,3C,03,7B,07,3C  
,CC,7B,06,3C,6C,7B,6E64  
1115 DATA 03,CC,7B,04,3C,CC,9C,6C,9C,6C  
,CC,7B,03,3C,6C,CC,7588  
1120 DATA 7B,05,3C,CC,9C,7B,03,3C,6C,7B  
,04,CC,3C,3C,6C,7B,7B7C  
1125 DATA 03,CC,7B,04,3C,CC,9C,3C,3C,CC  
,9C,6C,7B,03,CC,7B,827F  
1130 DATA 06,3C,03,7B,04,3C,03,7B,0B,3C  
,7B,04,CC,3C,3C,7B,867F  
1135 DATA 06,CC,3C,3C,CC,9C,3C,3C,6C,CC  
,7B,03,3C,6C,CC,7B,8D4E  
1140 DATA 03,3C,6C,7B,04,CC,3C,3C,CC,CC  
,9C,7B,04,3C,7B,06,932C  
1145 DATA CC,3C,6C,7B,04,CC,9C,3C,7B,06  
,CC,7B,04,3C,03,7B,9949  
1150 DATA 04,3C,03,7B,4A,3C,03,7B,04,3C  
,7B,10,03,7B,2F,3C,9CBF  
1155 DATA 7B,0D,03,7B,13,3C,7B,31,03,7B  
,FF,3C,3C,3C,68,7B,A1D4  
1160 DATA 04,F0,E0,D0,7B,03,F0,94,7B,3B  
,3C,68,7B,03,F0,E0,AA1F  
1165 DATA D0,7B,04,F0,94,3C,3C,D0,7B,04  
,F0,D0,7B,42,F0,E0,B306  
1170 DATA 7B,04,F0,E0,7B,07,3C,68,7B,42  
,C0,94,7B,A6,3C,40,BA29  
1175 DATA 80,00,00,40,80,40,80,C0,40,C0  
,00,40,C0,C0,00,40,BFE9  
1180 DATA C0,80,00,C0,00,40,80,7B,05,00  
,C0,C0,00,C0,40,C0,C669  
1185 DATA 00,C0,40,C0,00,00,C0,C0,00,C0  
,40,C0,00,3C,3C,7B,CC5C  
1190 DATA 03,03,3C,7B,07,03,7B,06,3C,7B  
,04,03,7B,05,3C,90,CFAE  
1195 DATA 60,7B,2F,3C,68,30,94,03,03,3C  
,3C,7B,03,03,7B,0F,D3A9  
1200 DATA 3C,03,03,7B,03,3C,68,F0,F0,D0  
,7B,2E,F0,D0,F0,E0,DBF6  
1205 DATA 7B,03,03,7B,07,3C,03,03,7B,03  
,3C,7B,04,03,3C,03,DEB6  
1210 DATA 3C,3C,03,7B,03,3C,68,F0,F0,D0  
,7B,2E,F0,D0,F0,E0,E73C  
1215 DATA 7B,06,3C,7B,05,03,3C,7B,05,03  
,7B,03,3C,03,3C,EA70  
1220 DATA 03,7B,03,3C,68,F0,F0,D0,7B,2E  
,F0,D0,F0,E0,7B,03,F2FC  
1225 DATA 03,3C,7B,07,03,3C,7B,03,03,3C  
,03,3C,03,7B,03,3C,F5B5  
1230 DATA 03,7B,04,3C,68,F0,F0,7B,2F,C0  
,D0,F0,E0,7B,03,03,FD46  
1235 DATA 7B,03,3C,7B,03,03,3C,7B,05,03  
,3C,03,3C,7B,03,03,003C  
1240 DATA 3C,03,7B,3D,3C,7B,03,03,3C,7B  
,03,03,3C,7B,05,03,036C  
1245 DATA 3C,7B,03,03,3C,03,7B,39,3C,03  
,3C,7B,09,03,3C,7B,06D5  
1250 DATA 03,03,3C,7B,03,03,7B,03,3C,03  
,03,7B,38,3C,03,7B,09C5  
1255 DATA 16,3C,7B,35,03,7B,04,3C,03,7B  
,4A,3C,03,7B,04,3C,0D47  
1260 DATA 03,7B,4A,3C,03,7B,04,3C,03,7B  
,0B,3C,CC,9C,3C,CC,123B  
1265 DATA 9C,3C,6C,CC,7B,03,3C,CC,3C,3C  
,CC,CC,3C,3C,6C,CC,1991  
1270 DATA 7B,03,3C,CC,CC,9C,7B,03,3C,6C  
,CC,CC,7B,03,3C,6C,2063  
1275 DATA CC,3C,3C,CC,9C,3C,6C,CC,7B,03  
,3C,CC,3C,3C,CC,9C,27E9  
1280 DATA 6C,CC,9C,3C,6C,CC,7B,03,3C,CC  
,7B,04,3C,03,7B,04,2DF4  
1285 DATA 3C,03,7B,07,3C,CC,7B,06,3C,6C  
,7B,03,CC,7B,04,3C,32EB  
1290 DATA CC,9C,6C,CC,6C,CC,7B,03,3C,6C  
,CC,7B,05,3C,CC,9C,3AD9  
1295 DATA 7B,03,3C,6C,7B,03,CC,7B,03,3C  
,6C,7B,03,CC,7B,04,4038  
1300 DATA 3C,CC,9C,3C,3C,CC,9C,6C,7B,03  
,CC,7B,06,3C,03,7B,46AD  
1305 DATA 04,3C,03,7B,0B,3C,6C,CC,CC,9C  
,3C,3C,7B,06,CC,3C,4C50  
1310 DATA 3C,CC,9C,3C,3C,6C,CC,7B,03,3C  
,CC,CC,9C,3C,3C,7B,5385  
1315 DATA 05,CC,9C,6C,7B,03,CC,7B,03,3C  
,6C,7B,06,CC,3C,7B,59D2  
1320 DATA 05,CC,3C,6C,7B,06,CC,7B,04,3C  
,03,7B,04,3C,03,7B,5EBF  
1325 DATA 4A,3C,03,7B,04,3C,7B,10,03,7B  
,2F,3C,7B,0D,03,7B,624D  
1330 DATA 13,3C,7B,31,03,7B,FF,3C,3C,3C  
,68,7B,04,F0,D0,7B,689B  
1335 DATA 04,F0,94,7B,3B,3C,68,7B,04,F0  
,E0,7B,04,F0,94,3C,700B  
1340 DATA 68,7B,05,F0,D0,7B,42,F0,E0,7B  
,05,F0,94,7B,F0,3C,78EB  
1345 DATA 00,C0,C0,00,40,80,40,80,40,80  
,40,80,00,C0,7B,04,7EA7  
1350 DATA 00,C0,00,40,80,C0,7B,05,00,40  
,80,40,80,40,C0,40,8427  
1355 DATA 80,40,C0,40,80,40,80,40,80,40  
,C0,40,80,3C,03,03,89E9  
1360 DATA 3C,03,3C,03,7B,05,3C,7B,0B,03  
,3C,3C,03,7B,04,3C,8CDF  
1365 DATA 68,30,30,7B,2F,C0,90,30,60,03  
,7B,0A,3C,7B,05,03,917B  
1370 DATA 3C,3C,7B,03,03,3C,3C,03,7B,03  
,3C,68,F0,F0,D0,7B,9739  
1375 DATA 2E,F0,D0,F0,E0,3C,3C,7B,05,03  
,7B,03,3C,03,7B,09,9D33  
1380 DATA 3C,03,3C,3C,03,7B,03,3C,68,F0  
,F0,D0,7B,2E,F0,D0,A42B  
1385 DATA F0,E0,3C,3C,7B,03,03,7B,07,3C  
,03,7B,03,3C,03,3C,ABAB  
1390 DATA 7B,03,03,3C,03,03,7B,03,3C,68  
,F0,F0,D0,7B,2E,F0,AED9  
1395 DATA D0,F0,E0,03,7B,09,3C,03,7B,03  
,3C,03,3C,03,3C,03,B37A  
1400 DATA 7B,03,3C,03,7B,05,3C,D0,E0,7B  
,2F,3C,68,F0,94,3C,B9B1  
1405 DATA 3C,7B,03,03,3C,03,3C,03,7B,07  
,3C,03,7B,03,3C,03,BC6A  
1410 DATA 3C,03,7B,39,3C,7B,03,03,7B,07  
,3C,03,3C,03,7B,05,BF9A  
1415 DATA 3C,03,7B,03,3C,03,7B,39,3C,03  
,7B,0D,3C,7B,03,03,C2CE  
1420 DATA 7B,06,3C,03,7B,3B,3C,03,7B,4A  
,3C,03,7B,04,3C,03,C642  
1425 DATA 7B,4A,3C,03,7B,04,3C,03,7B,4A  
,3C,03,7B,04,3C,03,C9C6  
1430 DATA 7B,07,3C,6C,CC,3C,6C,9C,3C  
,6C,CC,7B,03,3C,CC,D036  
1435 DATA 3C,3C,CC,3C,3C,6C,CC,7B,03  
,3C,6C,CC,7B,05,3C,D6A4  
1440 DATA CC,9C,7B,03,3C,6C,CC,3C,3C,6C  
,9C,3C,6C,CC,7B,03,DD70  
1445 DATA 3C,CC,3C,CC,9C,3C,CC,9C,3C  
,6C,CC,7B,03,3C,CC,E4F6  
1450 DATA 7B,04,3C,03,7B,04,3C,03,7B,07  
,3C,CC,7B,04,3C,6C,E923  
1455 DATA 3C,6C,CC,3C,CC,7B,04,3C,CC,9C  
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1460 DATA 3C,6C,CC,7B,05,3C,CC,9C,7B,03  
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1465 DATA 6C,CC,3C,CC,7B,04,3C,CC,9C,3C  
,3C,CC,9C,6C,CC,3C,FE7D  
1470 DATA CC,7B,06,3C,03,7B,04,3C,03,7B  
,09,3C,6C,CC,7B,03,033D  
1475 DATA 3C,7B,06,CC,3C,6C,CC,CC,3C,3C  
,6C,CC,9C,3C,6C,7B,0A75  
1480 DATA 03,CC,3C,3C,7B,05,CC,9C,6C,7B  
,03,CC,7B,03,3C,6C,1080  
1485 DATA 7B,06,CC,3C,7B,04,CC,9C,3C,6C  
,7B,06,CC,7B,04,3C,16A0  
1490 DATA 03,7B,04,3C,03,7B,4A,3C,03,7B  
,13,3C,03,7B,2F,3C,1A18  
1495 DATA 03,7B,FF,3C,7B,52,3C,68,7B,04  
,F0,7B,44,C0,7B,04,20AF  
1500 DATA F0,94,3C,7B,06,C0,D0,7B,42,F0  
,E0,7B,06,C0,7B,F0,29B9  
1505 DATA 3C,00,00,40,80,40,80,40,80,40  
,80,40,80,00,C0,00,2E75  
1510 DATA 00,40,C0,C0,00,00,C0,80,7B,05  
,00,40,C0,C0,80,40,3475  
1515 DATA 80,00,00,40,80,00,00,40,80,40  
,80,40,80,00,00,3C,3831  
1520 DATA 03,03,3C,03,3C,03,7B,05,3C,7B



,0B,03,3C,3C,03,7B,3AED  
 1525 DATA 04,3C,68,90,60,D0,7B,2E,F0,C0  
 ,30,C0,03,7B,0A,3C,4162  
 1530 DATA 7B,05,03,3C,3C,7B,03,03,3C,3C  
 ,03,7B,03,3C,68,F0,456B  
 1535 DATA F0,D0,7B,2E,F0,D0,F0,E0,3C,3C  
 ,7B,05,03,7B,03,3C,4D19  
 1540 DATA 03,7B,09,3C,03,3C,03,03,7B,03  
 ,3C,68,F0,F0,D0,7B,52A7  
 1545 DATA 2E,F0,D0,F0,E0,3C,3C,7B,03,03  
 ,7B,07,3C,03,7B,03,589D  
 1550 DATA 3C,03,3C,7B,03,03,3C,03,03,7B  
 ,03,3C,68,F0,F0,D0,5DAD  
 1555 DATA 7B,2E,F0,D0,F0,E0,03,7B,09,3C  
 ,03,7B,03,3C,03,3C,63A5  
 1560 DATA 03,3C,03,7B,03,3C,03,7B,05,3C  
 ,68,94,7B,30,3C,C0,6803  
 1565 DATA 7B,03,3C,7B,03,03,3C,03,3C,03  
 ,7B,07,3C,03,7B,03,6AFB  
 1570 DATA 3C,03,3C,03,7B,39,3C,7B,03,03  
 ,7B,07,3C,03,3C,03,6DEA  
 1575 DATA 7B,05,3C,03,7B,03,3C,03,7B,39  
 ,3C,03,7B,0D,3C,7B,7198  
 1580 DATA 03,03,7B,06,3C,03,7B,3B,3C,03  
 ,7B,4A,3C,03,7B,04,74D3  
 1585 DATA 3C,03,7B,4A,3C,03,7B,04,3C,03  
 ,7B,4A,3C,03,7B,04,7857  
 1590 DATA 3C,03,7B,07,3C,6C,9C,7B,03,3C  
 ,CC,3C,6C,CC,3C,6C,7DFE  
 1595 DATA 3C,6C,3C,3C,CC,CC,9C,3C,6C,CC  
 ,7B,03,3C,6C,CC,7B,8533  
 1600 DATA 05,3C,CC,9C,7B,03,3C,6C,CC,3C  
 ,3C,6C,9C,3C,6C,CC,8BC2  
 1605 DATA 3C,6C,3C,6C,3C,3C,CC,9C,3C,6C  
 ,CC,3C,6C,CC,3C,6C,92B2  
 1610 DATA 3C,6C,7B,04,3C,03,7B,04,3C,03  
 ,7B,07,3C,CC,7B,04,96AF  
 1615 DATA 3C,6C,3C,6C,CC,3C,CC,7B,04,3C  
 ,CC,9C,3C,7B,03,CC,9D7C  
 1620 DATA 7B,03,3C,6C,CC,7B,05,3C,CC,9C  
 ,7B,03,3C,6C,CC,7B,A3FF  
 1625 DATA 05,3C,6C,CC,3C,CC,7B,04,3C,CC  
 ,9C,3C,3C,CC,3C,6C,AABF  
 1630 DATA CC,3C,CC,7B,06,3C,03,7B,04,3C  
 ,03,7B,4A,3C,03,7B,AF60  
 1635 DATA 04,3C,03,7B,4A,3C,03,7B,13,3C  
 ,03,7B,2F,3C,03,7B,B2DB  
 1640 DATA FF,3C,7B,53,3C,D0,7B,03,F0,D0  
 ,7B,42,F0,E0,7B,03,BB36  
 1645 DATA F0,E0,7B,0B,3C,D0,7B,42,F0,E0  
 ,7B,F6,3C,40,80,40,C3CF  
 1650 DATA 80,00,C0,C0,80,40,80,40,80,00  
 ,C0,40,80,C0,00,C0,CACF  
 1655 DATA 00,40,80,C0,7B,05,00,40,80,00  
 ,00,40,80,00,00,40,CEBF  
 1660 DATA 80,00,00,40,80,40,80,40,80,00  
 ,00,3C,03,03,3C,03,D1D0

1665 DATA 3C,03,7B,05,3C,7B,0B,03,3C,3C  
 ,03,7B,04,3C,68,E0,D5CF  
 1670 DATA D0,D0,7B,2E,F0,D0,C0,E0,03,7B  
 ,0A,3C,7B,05,03,3C,DCFB  
 1675 DATA 3C,7B,03,03,3C,3C,03,7B,03,3C  
 ,68,F0,F0,D0,7B,2E,E2AE  
 1680 DATA F0,D0,F0,E0,3C,3C,7B,05,03,7B  
 ,03,3C,03,7B,09,3C,EBB6  
 1685 DATA 03,3C,3C,03,7B,03,3C,68,F0,F0  
 ,D0,7B,2E,F0,D0,F0,F05F  
 1690 DATA E0,3C,3C,7B,03,03,7B,07,3C,03  
 ,7B,03,3C,03,3C,7B,F46D  
 1695 DATA 03,03,3C,03,03,7B,03,3C,68,F0  
 ,F0,D0,7B,2E,F0,D0,FAF0  
 1700 DATA F0,E0,03,7B,09,3C,03,7B,03,3C  
 ,03,3C,03,3C,03,7B,FF3C  
 1705 DATA 03,3C,03,7B,3B,3C,7B,03,03,3C  
 ,03,3C,03,7B,07,3C,022D  
 1710 DATA 03,7B,03,3C,03,3C,03,7B,39,3C  
 ,7B,03,03,7B,07,3C,055B  
 1715 DATA 03,3C,03,7B,05,3C,03,7B,03,3C  
 ,03,7B,39,3C,03,7B,08B7  
 1720 DATA 0D,3C,7B,03,03,7B,06,3C,03,7B  
 ,3B,3C,03,7B,4A,3C,0C04  
 1725 DATA 03,7B,04,3C,03,7B,4A,3C,03,7B  
 ,04,3C,03,7B,4A,3C,0F8B  
 1730 DATA 03,7B,04,3C,03,7B,07,3C,CC,9C  
 ,7B,03,3C,CC,3C,6C,149D  
 1735 DATA CC,3C,6C,3C,6C,3C,3C,CC,CC,9C  
 ,3C,6C,CC,7B,03,3C,1B93  
 1740 DATA 6C,CC,7B,05,3C,CC,9C,7B,03,3C  
 ,6C,CC,3C,3C,6C,9C,2261  
 1745 DATA 3C,6C,CC,3C,6C,3C,6C,3C,3C,CC  
 ,9C,3C,6C,CC,3C,6C,2921  
 1750 DATA CC,3C,6C,3C,6C,7B,04,3C,03,7B  
 ,04,3C,03,7B,07,3C,2D77  
 1755 DATA CC,9C,7B,03,3C,CC,3C,6C,CC,3C  
 ,6C,3C,6C,3C,3C,CC,346D  
 1760 DATA 9C,3C,6C,CC,CC,7B,03,3C,6C,CC  
 ,7B,05,3C,CC,9C,7B,3BDA  
 1765 DATA 03,3C,6C,CC,7B,05,3C,6C,CC,3C  
 ,6C,3C,6C,3C,3C,CC,41D9  
 1770 DATA 9C,3C,6C,CC,3C,6C,CC,3C,6C,3C  
 ,6C,7B,04,3C,03,7B,47E6  
 1775 DATA 04,3C,03,7B,4A,3C,03,7B,04,3C  
 ,03,7B,4A,3C,03,7B,4B6A  
 1780 DATA 13,3C,03,7B,2F,3C,03,7B,FF,3C  
 ,3C,7B,0B,C0,7B,3A,5092  
 1785 DATA 3C,7B,0B,C0,3C,68,7B,04,F0,D0  
 ,7B,42,F0,E0,7B,04,5803  
 1790 DATA F0,94,7B,07,3C,D0,7B,42,F0,E0  
 ,7B,F6,3C,00,C0,C0,60CF  
 1795 DATA 7B,03,00,40,80,40,80,40,80,00  
 ,40,C0,00,40,C0,40,65CD  
 1800 DATA 80,C0,00,40,80,7B,05,00,C0,C0  
 ,00,C0,C0,00,00,C0,6C0D  
 1805 DATA C0,7B,03,00,C0,C0,00,C0,00,00

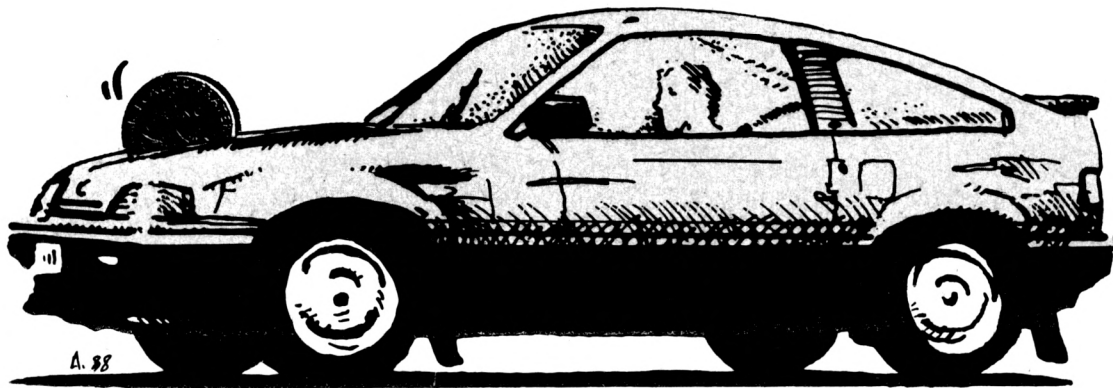
,00,3C,03,03,3C,03,70CC  
 1810 DATA 3C,03,7B,05,3C,7B,0B,03,3C,3C  
 ,03,7B,04,3C,68,F0,74DB  
 1815 DATA F0,D0,7B,2E,F0,D0,F0,E0,03,7B  
 ,0A,3C,7B,05,03,3C,7C57  
 1820 DATA 3C,7B,03,03,3C,3C,03,7B,03,3C  
 ,68,F0,F0,D0,7B,2E,820A  
 1825 DATA F0,D0,F0,E0,3C,3C,7B,05,03,7B  
 ,03,3C,03,7B,09,3C,8B12  
 1830 DATA 03,3C,3C,03,7B,03,3C,68,F0,F0  
 ,D0,7B,2E,F0,D0,F0,8FBB  
 1835 DATA E0,3C,3C,7B,03,03,7B,07,3C,03  
 ,7B,03,3C,03,3C,7B,93C9  
 1840 DATA 03,03,3C,03,03,7B,03,3C,68,F0  
 ,F0,D0,7B,2E,F0,D0,9AAC  
 1845 DATA F0,E0,03,7B,09,3C,03,7B,03,3C  
 ,03,3C,03,3C,03,7B,9E98  
 1850 DATA 03,3C,03,7B,3B,3C,7B,03,03,3C  
 ,03,3C,03,7B,07,3C,A1B9  
 1855 DATA 03,7B,03,3C,03,3C,03,7B,39,3C  
 ,7B,03,03,7B,07,3C,A4B7  
 1860 DATA 03,3C,03,7B,05,3C,03,7B,03,3C  
 ,03,7B,39,3C,03,7B,A7E3  
 1865 DATA 0D,3C,7B,03,03,7B,06,3C,03,7B  
 ,3B,3C,03,7B,4A,3C,AB60  
 1870 DATA 03,7B,04,3C,03,7B,4A,3C,03,7B  
 ,04,3C,03,7B,4A,3C,AE64  
 1875 DATA 03,7B,04,3C,03,7B,07,3C,CC,7B  
 ,04,3C,6C,3C,6C,CC,B3CA  
 1880 DATA 3C,CC,7B,04,3C,7B,03,CC,3C,6C  
 ,CC,7B,03,3C,6C,CC,BA3D  
 1885 DATA 7B,05,3C,CC,9C,7B,03,3C,6C,CC  
 ,3C,3C,6C,9C,3C,6C,C07B  
 1890 DATA CC,3C,CC,7B,04,3C,CC,9C,3C,3C  
 ,CC,3C,6C,CC,3C,CC,C832  
 1895 DATA 7B,06,3C,03,7B,04,3C,03,7B,07  
 ,3C,6C,9C,7B,03,3C,CC30  
 1900 DATA CC,3C,6C,CC,3C,6C,3C,6C,3C,3C  
 ,CC,9C,3C,6C,CC,CC,D3E0  
 1905 DATA 7B,03,3C,6C,CC,7B,05,3C,CC,9C  
 ,7B,03,3C,6C,CC,7B,DA63  
 1910 DATA 05,3C,6C,CC,3C,6C,3C,6C,3C,3C  
 ,CC,9C,3C,6C,CC,3C,E0BC  
 1915 DATA 6C,CC,3C,6C,3C,6C,7B,04,3C,03  
 ,7B,04,3C,03,7B,4A,E585  
 1920 DATA 3C,03,7B,04,3C,03,7B,4A,3C,03  
 ,7B,13,3C,03,7B,2F,EBFD  
 1925 DATA 3C,03,7B,FF,3C,3C,68,7B,0A,F0  
 ,94,7B,3B,3C,68,7B,EF71  
 1930 DATA 0A,F0,94,3C,68,7B,04,F0,D0,7B  
 ,42,F0,E0,7B,04,F0,F7DE  
 1935 DATA 94,7B,07,3C,D0,7B,42,F0,E0,7B  
 ,F6,3C,7B,04,00,40,FEF9  
 1940 DATA C0,C0,7B,27,00,40,80,00,00,00  
 ,00,00,00,00,00,00,01DB  
 1945 DATA 00,00,00,00,00,00,00,00,00,00  
 ,00,00,00,00,00,00,01DB



# GESTION D'AUTOMOBILE

M A R T I A L S T A U B

Valable pour  
CPC 464  
CPC 664  
CPC 6128



**C**e programme vous permettra d'enregistrer toutes les opérations d'entretien et de réparation de votre voiture automobile ainsi que les dépenses de carburant. Le mode d'emploi comprend 11 options.

## • Saisie des opérations

Lors de la première utilisation, cette option vous demandera quelques renseignements sur votre véhicule. Lors d'un appui ultérieur, le programme vous demandera la date, le kilométrage, le type d'opération (entretien, réparation ou divers) puis les dépenses occasionnées.



## • Menu des recherches

La recherche peut s'effectuer selon la date, la nature de l'opération, les pièces, les accessoires, le garage, les dépenses.

## • Consultation par opération

Vous pouvez avoir accès aux fiches entretien, réparation ou divers.

## • Consultation de la totalité des fiches.

## • Dernière intervention.

Après avoir entré la dénomination de l'intervention, vous aurez une visualisation de la fiche, le total kilométrique depuis la date indiquée.

Attention la recherche s'effectue uniquement sur la nature de l'intervention ou sur les pièces changées.

- Sauvegarde des données (pas plus de 8 lettres pour le nom du fichier).
- Chargement des données.
- Total des dépenses à ce jour.
- Graphique : cette option vous indique sous forme de graphique les 10 dernières interventions concernant l'opération choisie. Cela permet d'observer la régularité des interventions.
- Saisie des dépenses de carburant
- Diverses informations : vous y trouverez des indications sur toutes les dépenses, le prix au kilomètre de votre véhicule et la consommation moyenne au 100.

```

10 >LA
20 ***** >LB
30 GESTION DEPENSES ET CONTROLE >LC
40 ENTRETIEN VOITURE >LD
50 (c) STAUB Martial >LE
60 AVRIL 1988 >LF
70 ***** >LG
80 ON ERROR GOTO 4050 >PT
90 BORDER 13:INK 0,13:INK 1,0 >WJ
100 PAPER 0:PEN 1:MODE 2 >RF
110 DIM c(12),dat$(50),kil(50),nat$ >HZ
(50),ch$(50),pie$(50),ace$(50),gar$
(50),dep(50)
120 i$="#####,.## F":i1$="##### >BD
,.##"
130 ----- >RE
140 MENU PRINCIPAL >RF
150 ----- >RG
160 CLS >UB
170 ORIGIN 116,390:DRAW 384,0:DRAW >VE
384,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
120,386:DRAW 376,0:DRAW 376,-20:DRA
W 0,-20:DRAW 0,0
180 LOCATE 19,2:PRINT"* * * CARNET >KW
D'ENTRETIEN VOITURE * * *
190 ORIGIN 6,310:DRAW 628,0:DRAW 62 >FY
8,-248:DRAW 0,-248:DRAW 0,0
200 LOCATE 21,7:PRINT"*** M E N U >BU
P R I N C I P A L ***":LOCATE 21,
8:PRINT STRING$(36,154)
    
```



```

210 ORIGIN 12,264:DRAW 616,0:DRAW 6 >ZQ
16,-192:DRAW 0,-192:DRAW 0,0:ORIGIN
16,260:DRAW 608,0:DRAW 608,-184:DR
AW 0,-184:DRAW 0,0
220 LOCATE 4,10:PRINT"1. Saisie des >KQ
Operations":LOCATE 4,12:PRINT"2. R
echerches":LOCATE 4,14:PRINT"3. Con
sultation par Operation":LOCATE 4,1
6:PRINT"4. Consultation Total des F
iches":LOCATE 4,18:PRINT"5. Dernier
e Intervention"
230 LOCATE 44,10:PRINT"6. Sauvegard >CU
e des Fiches":LOCATE 44,12:PRINT"7.
Chargement des Fiches":LOCATE 44,1
4:PRINT"8. Total des Depenses":LOCA
TE 44,16:PRINT"9. Graphique":LOCATE
44,18:PRINT"0. Saisie Depenses Car
burant"
240 LOCATE 4,20:PRINT"XXXXXXXXXXXX >XZ
XXXXX ";CHR$(24);" [I]nformatio
ns diverses ";CHR$(24);" XXXXX
XXXXXXXXXXXX"
250 IF f$<>" THEN lc=INT(LEN(f$))/ >TV
2:LOCATE 27-lc,5:PRINT CHR$(24);" D
OSSIER : ";UPPER$(f$);" EN MEMOIRE
";CHR$(24)
260 IF n>n1 THEN LOCATE 12,23:PRINT >RN
"ATTENTION VOUS AVEZ EFFECTUE DE NO
UVEAUX ENREGISTREMENTS":LOCATE 24,2
4:PRINT"NOUBLIEZ PAS DE LES SAUVEGA
RDER"
270 PRINT CHR$(7); >MP
280 a$=INKEY$:IF a$="" THEN 280 >XC
290 IF a$="1" THEN 790 >ND
300 IF a$="2" THEN 1130 >PC
310 IF a$="3" THEN 3110 >PE
320 IF a$="4" THEN 2670 >PT
330 IF a$="5" THEN 2870 >PX
340 IF a$="6" THEN 410 >NT
350 IF a$="7" THEN 620 >NY
360 IF a$="8" THEN 2560 >PZ
370 IF a$="9" THEN 3310 >PV
380 IF a$="0" THEN 3660 >PV
390 IF UPPER$(a$)="I" THEN 3830 >XQ
400 GOTO 280 >ZA
410 '----- >RF
420 'Sauvegarde >RG
430 '----- >RH
440 CLS >UC
450 LOCATE 30,2:PRINT CHR$(24);" S >HN
A U V E G A R D E ";CHR$(24)
460 LOCATE 2,5:PRINT"Entrez le Nom >PZ
du Fichier (voiture)"
470 IF f$<>" THEN LOCATE 21,13:PRI >UQ
NT"VOUS AVEZ LE DOSSIER ";UPPER$(f$
);" EN MEMOIRE"
480 LOCATE 2,8:PRINT"[RETURN]=Retou >TQ

```



```

r Menu"
490 LOCATE 2,7:PRINT"Nom : ";CHR$(1 >XC
8);:INPUT f$:IF f$="" THEN GOTO 130
ELSE IF LEN(f$)>8 THEN 490
500 PRINT:OPENOUT f$+".VOI" >XR
510 CLS >UA
520 LOCATE 24,10:PRINT"La disquette >JQ
est-elle prete ?"
530 LOCATE 23,12:PRINT"Tapez sur ES >MQ
PACE pour commencer"
540 R$=INKEY$:IF R$="" THEN 560 >YY
550 GOTO 540 >ZF
560 CLS:LOCATE 20,11:PRINT"ENREGIST >HL
REMENT ";f$;" EN COURS"
570 WRITE#9,n:FOR s=1 TO n:WRITE#9, >UP
dat$(s),kil(s),ch$(s),nat$(s),pie$(
s),ace$(s),gar$(s),dep(s):NEXT
580 WRITE#9,dt$,lit,ml,toc,cml >AD
590 CLOSEOUT >TE
600 n1=n >YJ
610 GOTO 130 >YH
620 '----- >RJ
630 'CHARGEMENT >RK
640 '----- >TA
650 CLS >UF
660 LOCATE 29,2:PRINT CHR$(24);" C >HQ
H A R G E M E N T ";CHR$(24)
670 LOCATE 2,5:PRINT"Entrez le Nom >PC
du Fichier (voiture)"
680 IF f$<>" THEN LOCATE 21,13:PRI >UU
NT"VOUS AVEZ LE DOSSIER ";UPPER$(f$
);" EN MEMOIRE"
690 LOCATE 2,8:PRINT"[RETURN]=Retou >TU
r Menu"
700 LOCATE 2,7:PRINT"Nom : ";CHR$(1 >VN
8);:INPUT f$:IF f$="" THEN 130 ELSE
IF LEN(f$)>8 THEN 700
710 PRINT:OPENIN f$+".VOI" >VD
720 CLS >UD
730 CLS:LOCATE 26,11:PRINT"CHARGEME >YA
NT EN COURS"
740 INPUT#9,n:FOR s=1 TO n:INPUT#9, >UZ
dat$(s),kil(s),ch$(s),nat$(s),pie$(
s),ace$(s),gar$(s),dep(s):NEXT
750 INPUT#9,dt$,lit,ml,toc,cml >AH
760 n1=n >ZF
770 CLOSEIN >FF
780 GOTO 130 >ZF
790 '----- >TG
800 'ENT./REP. >RJ
810 '----- >RK
820 CLS >UE
830 ORIGIN 52,390:DRAW 544,0:DRAW 5 >MB
44,-28:DRAW 0,-28:DRAW 0,0:ORIGIN 5
6,386:DRAW 536,0:DRAW 536,-20:DRAW
0,-20:DRAW 0,0:LOCATE 9,2:PRINT"*
EN R E G I S T R E M E N T D E

```

```

S O P E R A T I O N S **
840 IF n=0 THEN n=1:LOCATE 22,7:PRI >VL
NT"ATTENTION CECI EST LA PREMIERE F
ICHE":LOCATE 13,8:PRINT"ELLE SERT U
NIQUEMENT A ENREGISTRER L'ACHAT DU
VEHICULE":GOSUB 4000:GOTO 1090
850 LOCATE 9,4:PRINT"DOSSIER ";CHR$ >UJ
(24);" ";UPPER$(f$);" ";CHR$(24):LO
CATE 43,4:PRINT"Dernier Fiche Enreg
istree : ";CHR$(24);n;CHR$(24)
860 ORIGIN 68,322:DRAW 144,0:DRAW 1 >EL
44,-20:DRAW 0,-20:DRAW 0,0
870 n=n+1 >EK
880 LOCATE 16,6:PRINT SPACE$(11):LO >RM
CATE 10,6:INPUT"DATE : ";dat$(n)
890 IF LEN(dat$(n))>8 OR VAL(MID$(d >NT
at$(n),4,2))>12 OR VAL(MID$(dat$(n)
,4,2))<1 THEN 880
900 LOCATE 62,6:PRINT CHR$(18) >YY
910 ORIGIN 388,322:DRAW 184,0:DRAW >YF
184,-20:DRAW 0,-20:DRAW 0,0:LOCATE
17,6:PRINT SPACE$(11):LOCATE 50,6:IN
PUT"KILOMETRES : ";kil(n):IF kil(n)
<kil(n-1) THEN LOCATE 56,8:PRINT"ER
REUR !!!":FOR t=1 TO 1000:NEXT:LOC
ATE 55,8:PRINT CHR$(18):GOTO 900
920 LOCATE 63,6:PRINT SPACE$(1) >ZW
930 LOCATE 2,9:PRINT"S'agit il de >DZ
[E]ntretien":LOCATE 18,10:PRINT"[
R]eparation":LOCATE 18,11:PRINT"[D]
ivers"
940 LOCATE 40,10:PRINT"Votre choix" >JY
;CHR$(18);:INPUT ch$(n):ch$(n)=UPPE
R$(ch$(n)):IF ch$(n)="D" OR ch$(n)=
"R" OR ch$(n)="E" THEN 950 ELSE 940
950 LOCATE 1,9:PRINT CHR$(20) >XR
960 IF ch$(n)="E" THEN GOSUB 1100 >YD
970 IF ch$(n)="R" THEN GOSUB 1110 >ZL
980 IF ch$(n)="D" THEN GOSUB 1120 >YG
990 k1=kil(n)-kil(n-1):LOCATE 10,8: >EC
PRINT"Vous avez effectue ";k1;" Kms
depuis la derniere intervention":k
1=0
1000 LOCATE 2,13:PRINT"NATURE >WW
: ";CHR$(18):ORIGIN 124,210:DRAW 4
40,0:DRAW 440,-20:DRAW 0,-20:DRAW 0
,0:LOCATE 18,13:LINE INPUT nat$(n):
IF LEN(nat$(n))>50 THEN LOCATE 1,14
:PRINT CHR$(18):GOTO 1000
1010 LOCATE 18,13:PRINT SPACE$(1) >AW
1020 LOCATE 2,15:PRINT"PIECE CHANGE >AD
: ";CHR$(18):ORIGIN 124,178:DRAW 4
40,0:DRAW 440,-20:DRAW 0,-20:DRAW 0
,0:LOCATE 18,15:LINE INPUT;pie$(n):
IF LEN(pie$(n))>50 THEN LOCATE 1,16
:PRINT CHR$(18):GOTO 1020

```





```

1030 LOCATE 18,15:PRINT SPACE$(1):L >VD
OCATE 2,17:PRINT"Suite          ";C
HR$(18):ORIGIN 124,146:DRAW 240,0:D
RAW 240,-20:DRAW 0,-20:DRAW 0,0:LOC
ATE 18,17:LINE INPUT;pie1$:IF LEN(p
ie1$)>25 THEN LOCATE 1,18:PRINT CHR
$(18):GOTO 1030
1040 IF pie1$="" THEN 1050 ELSE pie >MZ
$(n)=pie$(n)+" - "+pie1$:pie1$=""
1050 LOCATE 18,17:PRINT SPACE$(1):L >GG
OCATE 2,19:PRINT"ACCESSOIRES  ";C
HR$(18):ORIGIN 124,114:DRAW 440,0:D
RAW 440,-20:DRAW 0,-20:DRAW 0,0:LOC
ATE 18,19:LINE INPUT;ace$(n):IF LEN
(ace$(n))>50 THEN LOCATE 1,20:PRINT
CHR$(18):GOTO 1050
1060 LOCATE 18,19:PRINT SPACE$(1):L >CB
OCATE 2,21:PRINT"GARAGE          ";C
HR$(18):ORIGIN 124,82:DRAW 240,0:DR
AW 240,-20:DRAW 0,-20:DRAW 0,0:LOCA
TE 18,21:LINE INPUT;gar$(n):IF LEN(
gar$(n))>25 THEN LOCATE 1,22:PRINT
CHR$(18):GOTO 1060
1070 LOCATE 18,21:PRINT SPACE$(1):L >CJ
OCATE 2,23:PRINT"DEPENSES     ";C
HR$(18):ORIGIN 124,50:DRAW 96,0:DRA
W 96,-20:DRAW 0,-20:DRAW 0,0:LOCATE
 18,23:INPUT dep(n)
1080 LOCATE 18,23:PRINT SPACE$(1) >AE
1090 PRINT CHR$(7);:LOCATE 33,25:PR >FT
INT"UNE TOUCHE S.V.P.":CALL &BB06:G
OTO 130
1100 LOCATE 15,10:PRINT"VEUILLEZ IN >LB
DIQUER LES DETAILS DE L'ENTRETIEN":
RETURN
1110 LOCATE 15,10:PRINT"VEUILLEZ IN >KF
DIQUER LE DETAIL DES REPARATIONS":R
ETURN
1120 LOCATE 15,10:PRINT"VEUILLEZ IN >XK
DIQUER LE DETAIL DES AUTRES OPERATI
ONS":RETURN
1130 '----- >XH
1140 'RECHERCHE >XJ
1150 '----- >XK
1160 CLS >ZH
1170 WINDOW#1,1,80,7,23:PAPER#1,1:P >JB
EN#1,0
1180 WINDOW#2,1,80,25,25:PAPER#2,0: >TJ
PEN#2,1:CLS#2
1190 ORIGIN 124,390:DRAW 384,0:DRAW >TE
384,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
128,386:DRAW 376,0:DRAW 376,-20:DR
AW 0,-20:DRAW 0,0:LOCATE 18,2:PRINT
"** MENU DES RECHER
CHES **"
1200 IF n<=0 THEN 4030 >NE
1210 IF f$<>"" THEN le=INT(LEN(f$)/ >NU

```



```

2) ELSE le=0
1220 IF f$<>"" THEN LOCATE 24-le,5: >ZY
PRINT CHR$(24);" * * * FICHE TECHN
IQUE ";UPPER$(f$);" * * * ";CHR$(2
4)
1230 ORIGIN 160,302:DRAW 312,0:DRAW >DE
312,-240:DRAW 0,-240:DRAW 0,0:ORIG
IN 156,306:DRAW 320,0:DRAW 320,-248
:DRAW 0,-248:DRAW 0,0
1240 LOCATE 25,8:PRINT"1 .Recherche >ZA
par Date":LOCATE 25,10:PRINT"2 .Re
cherche par Nature":LOCATE 25,12:PR
INT"3 .Recherche par Piece":LOCATE
25,14:PRINT"4 .Recherche par Access
oire":LOCATE 25,16:PRINT"5 .Recher
che par Garage"
1250 LOCATE 25,18:PRINT"6 .Recherch >CL
e d'une Depense":LOCATE 25,20:PRINT
"7 .Retour Menu Principal"
1260 PRINT CHR$(7); >NB
1270 a$=INKEY$:IF a$="" THEN 1270 >ZF
1280 IF a$="1" THEN 1360 >PP
1290 IF a$="2" THEN 1660 >PV
1300 IF a$="3" THEN 1860 >PP
1310 IF a$="4" THEN 2060 >PJ
1320 IF a$="5" THEN 2250 >PM
1330 IF a$="6" THEN 2440 >PQ
1340 IF a$="7" THEN 130 >PH
1350 GOTO 1270 >MG
1360 ' >YC
1370 'Date >YD
1380 CLS >AB
1390 LOCATE 19,1:PRINT CHR$(24);" R >NU
E C H E R C H E D ' U N E D
A T E ";CHR$(24)
1400 LOCATE 2,5:PRINT"Quelle Date V >XR
oulez-vous consulter : ";CHR$(18);:
INPUT re$
1410 IF LEN(re$)>8 OR MID$(re$,3,1) >WM
<>"." OR MID$(re$,6,1)<>"." OR VAL(
MID$(re$,4,2))>12 THEN LOCATE 31,7:
PRINT"Entrez JJ.MM.AA":FOR t=1 TO
 1500:NEXT:LOCATE 31,7:PRINT SPACE$
(18):GOTO 1400
1420 LOCATE 1,5:PRINT CHR$(20) >YC
1430 FOR s=1 TO n:IF dat$(s)=re$ TH >VM
EN r=s:s=n:re$=""
1440 NEXT >LA
1450 IF r=0 THEN LOCATE 22,10:PRINT >RJ
"LA DATE DEMANDEE N'EST PAS FICHEE"
:FOR t=1 TO 2000:NEXT:GOTO 1130
1460 GOSUB 1470:GOTO 1630 >TG
1470 CLS#1:LOCATE 2,5:PRINT"Les ren >MD
seignements recherches se trouvent
dans la Fiche No ";r:LOCATE#1,6,2:P
RINT#1,"Date de l'intervention ";da
t$(r);" ";:Indication compteu

```



```

r ";kil(r);" Kms":GOTO 1510
1480 ORIGIN 72,338:DRAW 144,0:DRAW >VN
144,-22:DRAW 0,-22:DRAW 0,0:ORIGIN
352,338:DRAW 200,0:DRAW 200,-22:DRA
W 0,-22:DRAW 0,0
1490 CLS#1:LOCATE 11,5:PRINT"Fiche >YC
No ";CHR$(24);" ";r;" ";CHR$(24):LO
CATE 46,5:PRINT"Operation ";CHR$(24
):LOCATE 57,5:PRINT SPACE$(10):GOSU
B 2650:LOCATE 57,5:PRINT" ";ch1$;"
";CHR$(24):ch1$=""
1500 LOCATE#1,6,2:PRINT#1,"Date de >UA
l'intervention ";dat$(r);" ";
"Indication compteur ";kil(r);" Kms
"
1510 PRINT#1,STRING$(80,154);:PRINT >PP
#1," Nature de l'intervention : ";n
at$(r)
1520 IF pie$(r)="" THEN 1550 >UD
1530 IF LEN(pie$(r))>50 THEN na$=MI >FH
D$(pie$(r),1,50)+"-":na1$=MID$(pie$
(r),51,25) ELSE na$=pie$(r)
1540 PRINT#1,STRING$(80,144);:PRINT >KA
#1," Pieces Changees : ";n
a$:IF na1$<>"" THEN PRINT#1,TAB(29)
;na1$
1550 IF ace$(r)="" THEN 1570 >UL
1560 PRINT#1,STRING$(79,144):PRINT# >MH
1," Accessoires,Ingredients : ";ac
e$(r)
1570 IF gar$(r)="" THEN 1590 >UJ
1580 PRINT#1,STRING$(80,144);:PRINT >BU
#1," Garage : ";g
ar$(r)
1590 PRINT#1,STRING$(80,144);:PRINT >YU
#1," Montant des Depenses : ";U
SING i$;dep(r)
1600 PRINT#1,STRING$(80,154); >YD
1610 r=0:na$="":na1$="" >QX
1620 RETURN >FC
1630 re$="":CLS#2:PRINT CHR$(7);:LO >PB
CATE#2,28,1:PRINT#2,"UNE AUTRE RECH
ERCHE (O/N)"
1640 a$=INKEY$:IF a$="" THEN 1640 >ZH
1650 IF a$="O" OR a$="o" THEN 1130 >FE
ELSE 130
1660 CLS >AC
1670 LOCATE 19,1:PRINT CHR$(24);" R >PG
E C H E R C H E P A R N A T
U R E ";CHR$(24)
1680 LOCATE 2,5:PRINT"Quelle est la >GY
Nature de l'intervention a consult
er : ";CHR$(18);:INPUT re$:IF LEN(r
e$)>25 THEN GOSUB 4040:LOCATE 1,6:P
RINT CHR$(20):GOTO 1680
1690 LOCATE 2,8:PRINT"A partir de q >PT
uelle No de Fiche ";CHR$(18);:INPUT

```



```

nf:IF nf>n THEN LOCATE 2,9:PRINT"V
ous n'avez que";n;"fiches en memoir
e":GOTO 1690
1700 LOCATE 1,5:PRINT CHR$(20) >YD
1710 LOCATE 28,10:PRINT"UN INSTANT >TX
JE CHERCHE"
1720 re$=UPPER$(re$):FOR s=nf TO n: >MN
nat$(s)=UPPER$(nat$(s)):NEXT
1730 lo=LEN(re$) >LV
1740 FOR s=nf TO n >LC
1750 lo1=LEN(nat$(s)) >QE
1760 FOR d=1 TO lo1:oi$=MID$(nat$(s
),d,lo):IF oi$=re$ THEN r=s:si=s:ou
i=1:GOTO 1800
1770 NEXT d >VF
1780 NEXT s >XB
1790 re$="":nf=0:IF oui=0 THEN LOCA >AK
TE 24,10:PRINT"La recherche n'a pas
aboutie !!!":GOTO 1630 ELSE oui=0:
CLS#1:LOCATE 26,10:PRINT"La recherc
he est terminee !!!":GOTO 1630
1800 GOSUB 1470 >XD
1810 PRINT CHR$(7);:LOCATE#2,16,1:P >DY
RINT#2,"Voulez-vous continuer la re
cherche O/N"
1820 a$=INKEY$:IF a$="" THEN 1820 >ZH
1830 IF a$="O" OR a$="o" THEN CLS#1 >RF
:CLS#2:GOTO 1780
1840 IF a$="N" OR a$="n" THEN s=n:G >HY
OTO 1780
1850 GOTO 1820 >NC
1860 CLS >AE
1870 CLS:LOCATE 19,1:PRINT CHR$(24) >YQ
;" R E C H E R C H E D ' U N E
P I E C E ";CHR$(24)
1880 LOCATE 2,5:PRINT"Quelle Piece >AB
recherchez-vous : ";CHR$(18);:INPUT
re$:IF LEN(re$)>25 THEN GOSUB 4040
:LOCATE 1,6:PRINT CHR$(20):GOTO 188
0
1890 LOCATE 2,7:PRINT"A partir de q >PV
uelle No de Fiche ";CHR$(18);:INPUT
nf:IF nf>n THEN LOCATE 2,8:PRINT"V
ous n'avez que";n;"fiches en memoir
e":GOTO 1890
1900 LOCATE 1,5:PRINT CHR$(20) >YF
1910 LOCATE 28,10:PRINT"UN INSTANT >TZ
JE CHERCHE"
1920 re$=UPPER$(re$):FOR s=nf TO n: >ME
pie$(s)=UPPER$(pie$(s)):NEXT
1930 lo=LEN(re$) >LX
1940 FOR s=nf TO n >LE
1950 lo1=LEN(pie$(s)) >QB
1960 FOR d=1 TO lo1:oi$=MID$(pie$(s
),d,lo):IF oi$=re$ THEN r=s:oui=1:G
OTO 2000
1970 NEXT d >VH

```

```

1980 NEXT s >XD
1990 GOTO 1790 >PD
2000 GOSUB 1470 >WG
2010 PRINT CHR$(7);:LOCATE#2,18,1:P >DT
RINT#2,"Voulez-vous continuer la re
cherche O/N"
2020 a$=INKEY$:IF a$="" THEN 2020 >YB
2030 IF a$="O" OR a$="o" THEN CLS#1 >RA
:CLS#2:GOTO 1980
2040 IF a$="N" OR a$="n" THEN s=n:G >HT
OTO 1980
2050 GOTO 2020 >LJ
2060 CLS:LOCATE 14,1:PRINT CHR$(24) >LM
;" R E C H E R C H E D ' U N
A C C E S S O I R E ";CHR$(24)
2070 LOCATE 2,5:PRINT"Quel Accesoir >BL
e recherchez-vous ";CHR$(18);:INPUT
re$:IF LEN(re$)>25 THEN GOSUB 4040
:LOCATE 1,6:PRINT CHR$(20):GOTO 207
0
2080 LOCATE 2,6:PRINT"A partir de q >PA
uelle No de Fiche ";CHR$(18);:INPUT
nf:IF nf>n THEN LOCATE 2,7:PRINT"V
ous n'avez que";n;"fiches en memoir
e":GOTO 2080
2090 LOCATE 1,5:PRINT CHR$(20) >YG
2100 LOCATE 28,10:PRINT"UN INSTANT >TQ
JE CHERCHE"
2110 re$=UPPER$(re$):FOR s=nf TO n: >MA
ace$(s)=UPPER$(ace$(s)):NEXT
2120 lo=LEN(re$) >LN
2130 FOR s=nf TO n >LW
2140 lo1=LEN(ace$(s)) >PD
2150 FOR d=1 TO lo1:oi$=MID$(ace$(s
),d,lo):IF oi$=re$ THEN r=s:oui=1:G
OTO 2190
2160 NEXT d >UK
2170 NEXT s >WF
2180 GOTO 1790 >NF
2190 GOSUB 1470 >XG
2200 PRINT CHR$(7);:LOCATE#2,18,1:P >DU
RINT#2,"Voulez-vous continuer la re
cherche O/N"
2210 a$=INKEY$:IF a$="" THEN 2210 >YD
2220 IF a$="O" OR a$="o" THEN CLS#1 >RT
:CLS#2:GOTO 2170
2230 IF a$="N" OR a$="n" THEN s=n:G >HK
OTO 2170
2240 GOTO 2210 >MA
2250 CLS:LOCATE 18,1:PRINT CHR$(24) >VY
;" R E C H E R C H E P A R G
A R A G E ";CHR$(24)
2260 LOCATE 2,5:PRINT"Quel Garage r >UN
echerchez-vous ";CHR$(18);:INPUT re
$:IF LEN(re$)>25 THEN GOSUB 4040:LO
CATE 1,6:PRINT CHR$(20):GOTO 2260
2270 LOCATE 2,6:PRINT"A partir de q >PC

```

```

uelle No de Fiche ";CHR$(18);:INPUT
nf:IF nf>n THEN LOCATE 2,7:PRINT"V
ous n'avez que";n;"fiches en memoir
e":GOTO 2270
2280 LOCATE 1,5:PRINT CHR$(20) >YH
2290 LOCATE 28,10:PRINT"UN INSTANT >TB
JE CHERCHE"
2300 re$=UPPER$(re$):FOR s=nf TO n: >MN
gar$(s)=UPPER$(gar$(s)):NEXT
2310 lo=LEN(re$) >LP
2320 FOR s=nf TO n >LX
2330 lo1=LEN(gar$(s)) >QP
2340 FOR d=1 TO lo1:oi$=MID$(gar$(s
),d,lo):IF oi$=re$ THEN r=s:oui=1:G
OTO 2380
2350 NEXT d >VA
2360 NEXT s >WG
2370 GOTO 1790 >NG
2380 GOSUB 1470 >XH
2390 PRINT CHR$(7);:LOCATE#2,18,1:P >DE
RINT#2,"Voulez-vous continuer la re
cherche O/N"
2400 a$=INKEY$:IF a$="" THEN 2400 >YF
2410 IF a$="O" OR a$="o" THEN CLS#1 >RV
:CLS#2:GOTO 2360
2420 IF a$="N" OR a$="n" THEN CLS#1 >FG
:s=n:GOTO 2360
2430 GOTO 2400 >MC
2440 CLS:LOCATE 15,1:PRINT CHR$(24) >EE
;" R E C H E R C H E D ' U N E
D E P E N S E ";CHR$(24)
2450 LOCATE 2,5:INPUT"Quel Montant >NJ
recherchez-vous ";re
2460 LOCATE 1,5:PRINT CHR$(20) >YH
2470 FOR s=1 TO n:IF dep(s)=re THEN >RN
r=s:GOTO 2500
2480 NEXT s >WK
2490 re=0:LOCATE 26,10:PRINT"La Rec >CF
herche est terminee !!!":GOTO 1630
2500 GOSUB 1470 >XB
2510 PRINT CHR$(7);:LOCATE#2,18,1:P >DY
RINT#2,"Voulez-vous continuer la re
cherche O/N"
2520 a$=INKEY$:IF a$="" THEN 2520 >ZD
2530 IF a$="O" OR a$="o" THEN CLS#1 >RB
:CLS#2:GOTO 2480
2540 IF a$="N" OR a$="n" THEN CLS#1 >QE
:s=n:GOTO 2480
2550 GOTO 2520 >MJ
2560 '----- >YF
2570 'TOTAL DEPENSES >YG
2580 '----- >YH
2590 CLS >AF
2600 IF n=0 THEN 4030 >NY
2610 LOCATE 30,10:PRINT"UN INSTANT >TX
JE CALCULE"
2620 tdep=0:FOR s=1 TO n:tdep=tdep+ >RF

```







```

dep(s):NEXT
2630 LOCATE 10,10:PRINT"Au ";dat$(n) >HG
);" Le total de vos Depenses s'elev
e a ";USING"#####.## F";tdep+m1
2640 FOR t=1 TO 3000:NEXT:GOTO 130 >BE
2650 IF ch$(r)="E" THEN ch1$="ENTRE >TA
TIEN" ELSE IF ch$(r)="R" THEN ch1$=
"REPARATION" ELSE IF ch$(r)="D" THE
N ch1$="DIVERS"
2660 RETURN >FH
2670 '----- >YH
2680 'CONSULTATION DES FICHES >YJ
2690 '----- >YK
2700 CLS >ZJ
2710 ORIGIN 84,390:DRAW 452,0:DRAW >JG
452,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
88,386:DRAW 444,0:DRAW 444,-20:DRAW
0,-20:DRAW 0,0:LOCATE 13,2:PRINT"*
* CONSULTATION DES
FICHES **"
2720 IF n<=0 THEN 4030 >PE
2730 WINDOW#1,1,80,7,23:PAPER#1,1:P >JE
EN#1,0
2740 WINDOW#2,1,80,25,25:PAPER#2,0: >TM
PEN#2,1:CLS#2
2750 LOCATE 2,7:PRINT"VOUS AVEZ UN >XF
TOTAL DE ";n;" FICHES EN MEMOIRE"
2760 LOCATE 2,10:PRINT"A partir de >YJ
quelle Fiche consulter ";CHR$(18)::
INPUT fic:IF fic>n THEN 2760
2770 FOR s=fic TO n:r=s >RB
2780 GOSUB 1480 >YC
2790 PRINT CHR$(7);:LOCATE#2,32,1:P >LD
RINT#2,"[S]uite [F]in"
2800 a$=INKEY$:IF a$="" THEN 2800 >ZF
2810 IF a$="S" OR a$="s" THEN CLS#1 >TC
:CLS#2:GOTO 2840
2820 IF a$="F" OR a$="f" THEN s=n:G >HC
OTO 2840
2830 GOTO 2800 >NA
2840 NEXT >LF
2850 CLS#2:PRINT CHR$(7);:LOCATE#2, >XC
20,1:PRINT#2,"FIN DE LISTE
UNE TOUCHE S.V.P"
2860 CALL &BB06:GOTO 130 >RB
2870 '----- >YK
2880 'DERNIERE INTER. >ZA
2890 '----- >ZB
2900 CLS >AA
2910 WINDOW#1,1,80,9,23:PAPER#1,1:P >JG
EN#1,0
2920 ORIGIN 112,390:DRAW 412,0:DRAW >BW
412,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
116,386:DRAW 404,0:DRAW 404,-20:DR
AW 0,-20:DRAW 0,0:LOCATE 17,2:PRINT
"** DERNIERE INTERV
ENTION **"
2930 IF n<=0 THEN 4030 >PH
2940 LOCATE 2,6:PRINT"ATTENTION LA >FH
RECHERCHE NE S'EFFECTUE QUE SUR LA
NATURE DE L'INTERVENTION":LOCATE 2,
7:PRINT"OU SUR LES PIECES CHANGEES"
2950 LOCATE 2,9:PRINT"Sur quelle in >CU
tervention desirez-vous etre inform
e ";CHR$(18)::INPUT re$:IF LEN(re$)
>25 THEN LOCATE 21,12:PRINT CHR$(24
);" LIGNE TROP LONGUE max. 25 carac
teres ";CHR$(24):FOR t=1 TO 1500:NE
XT:LOCATE 1,10:PRINT CHR$(20):GOTO
2950
2960 IF re$="" THEN 130 >PB
2970 LOCATE 2,11:INPUT"Veuillez ind >KK
iquer le kilometrage actuel ";kac
2980 LOCATE 1,6:PRINT CHR$(20):LOCA >ZJ
TE 20,11:PRINT"UN INSTANT JE CHERCH
E DANS FICHE No "
2990 re$=UPPER$(re$) >PW
3000 lo=LEN(re$) >LL
3010 FOR s=n TO 1 STEP -1 >RN
3020 long$=UPPER$(nat$(s))+UPPER$(p >MQ
ie$(s))
3030 lo1=LEN(long$) >NA
3040 FOR d=1 TO lo1:o1$=MID$(long$, >VN
d,lo):LOCATE 56,11:PRINT CHR$(24);s
;CHR$(24):IF o1$=re$ THEN r=s:trouv
e=1:GOTO 3070
3050 NEXT d >UJ
3060 NEXT s:IF trouve=0 THEN LOCATE >ZX
1,11:PRINT CHR$(20):LOCATE 25-(LEN
(re$)/2),11:PRINT CHR$(24);" RECHER
CHE [";re$;"] NON ABOUTIE !!! ";CHR
$(24):GOTO 3100
3070 LOCATE 1,5:PRINT CHR$(20):LOCA >KR
TE 2,5:PRINT"La derniere interventi
on concernant : ";CHR$(24);" ";re$;
" ";CHR$(24):LOCATE 2,6:PRINT"date
du ";CHR$(24);" ";dat$(r);" ";CHR$(
24);" et se trouve dans le fiche No
";" ";CHR$(24);r;" ";CHR$(24)
3080 dif=kac-kil(r):LOCATE 2,8:PRIN >LA
T"Vous avez effectue ";dif;" kilome
tres depuis cette date":dif=0
3090 IF trouve=1 THEN trouve=0:CLS# >RN
1:GOSUB 1510
3100 re$="" :kac=0:long$="" :PRINT CH >NA
R$(7);:LOCATE 32,25:PRINT"UNE TOUCH
E S.V.P":CALL &BB06:GOTO 130
3110 '----- >XH
3120 'CONSULTATION PAR OPERATION >XJ
3130 '----- >XK
3140 CLS >ZH
3150 ORIGIN 132,390:DRAW 368,0:DRAW >WF
368,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
136,386:DRAW 360,0:DRAW 360,-20:DR
AW 0,-20:DRAW 0,0:LOCATE 19,2:PRINT
"** CONSULTATION DES FICHES PAR OPE
RATION **"
3160 IF n<=0 THEN 4030 >PD
3170 WINDOW#1,1,80,7,23:PAPER#1,1:P >JD
EN#1,0
3180 WINDOW#2,1,80,25,25:PAPER#2,0: >KZ
PEN#2,1
3190 LOCATE 2,6:PRINT"Quelles Opera >LB
tions voulez-vous consulter ":LOCAT
E 44,5:PRINT"[E]ntretien":LOCATE 44
,6:PRINT"[R]eparation":LOCATE 44,7:
PRINT"[D]ivers"
3200 LOCATE 20,10:PRINT"Votre choix >UW
";CHR$(18)::INPUT cho$:cho$=UPPER$(
cho$):IF cho$="E" OR cho$="R" OR c
ho$="D" THEN 3210 ELSE 3200
3210 LOCATE 1,5:PRINT CHR$(20) >YB
3220 FOR s=1 TO n:IF ch$(s)=cho$ TH >HP
EN r=s:GOSUB 1480:GOSUB 3250
3230 NEXT >KK
3240 CLS#2:cho$="" :r=0:PRINT CHR$(7 >QA
);:LOCATE#2,24,1:PRINT#2,"FIN DE LI
STE - UNE TOUCHE S.V.P":CALL &BB06:
GOTO 130
3250 PRINT CHR$(7);:LOCATE#2,29,1:P >NM
RINT#2,"[S]uite [F]in"
3260 a$=INKEY$:IF a$="" THEN 3260 >ZH
3270 IF a$="F" OR a$="f" THEN s=n:c >XN
ho$="" :r=0:GOTO 3300
3280 IF a$="S" OR a$="s" THEN CLS#2 >XK
:GOTO 3300
3290 GOTO 3250 >NB
3300 RETURN >EK
3310 '----- >XK
3320 'GRAPHIQUE >YA
3330 '----- >YB
3340 CLS >ZK
3350 FOR s=1 TO 11:c(s)=0:NEXT >XT
3360 ORIGIN 204,390:DRAW 208,0:DRAW >NG
208,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
208,386:DRAW 200,0:DRAW 200,-20:DR
AW 0,-20:DRAW 0,0:LOCATE 28,2:PRINT
"** G R A P H I Q U E **"
3370 LOCATE 12,6:PRINT"CETTE OPTION >FF
PERMET UN CONTROLE SOUS FORME DE G
RAPHIQUE":LOCATE 14,7:PRINT"SUR LA
REGULARITE D'UNE INTERVENTION DE VO
TRE CHOIX"
3380 LOCATE 2,11:PRINT"Intervention >QX
concernee : ";CHR$(18)::INPUT re$:
IF LEN(re$)>25 THEN GOSUB 4040:LOCA
TE 1,12:PRINT CHR$(20):GOTO 3380
3390 IF re$="" THEN 130 >PZ
3400 ok=0:CLS >QC
3410 LOCATE 29,11:PRINT"UN INSTANT >VY

```





```

JE RECHERCHE"
3420 LOCATE 1,2:PRINT STRING$(80,15 >FY
4);
3430 re$=UPPER$(re$) >PK
3440 lo=LEN(re$) >LV
3450 FOR s=n TO 1 STEP -1 >RX
3460 long$=UPPER$(nat$(s))+UPPER$(p >MZ
ie$(s))
3470 lo1=LEN(long$) >PA
3480 FOR d=1 TO lo1:ol$=MID$(long$, >VX
d,lo):IF ok=11 THEN s=1:d=lo1:GOTO
3490 ELSE IF ol$=re$ THEN ok=ok+1:d
=lo1:GOSUB 3640
3490 NEXT d:NEXT s >MC
3500 LOCATE 29,11:PRINT SPACE$(40) >BL
3510 GOSUB 3610 >XB
3520 dra=0:ORIGIN 40,24:FOR s=1 TO >JJ
11:IF c(s)=0 THEN 3560 ELSE dra=INT
((kil(c(s))-kil(c(s-1)))/650
3530 IF dra<0 THEN s=11:GOTO 3560 >ZJ
3540 DRAWR 56,dra:DRAWR 0,10:DRAWR >KU
0,-10:LOCATE (XPOS/8)+2,25-(YPOS/16
)-3:PRINT kil(c(s)):LOCATE (XPOS/8)
+3,25-(YPOS/16)-4:PRINT"F";c(s)
3550 dd=c(s) >BG
3560 NEXT >LF
3570 IF dd=0 THEN 3590 >PT
3580 LOCATE 17-(LEN(re$)/2),1:PRINT >ZL
"Derniere Int. ";re$;" en date du "
;dat$(dd);",Fiche No";dd:dd=0
3590 IF ok=0 THEN LOCATE 30,11:PRIN >AA
T"AUCUNE DONNEE !!!"
3600 ok=0:CALL &BB06:GOTO 130 >WU
3610 ORIGIN 36,24:DRAW 564,0:ORIGIN >NM
40,20:DRAW 0,310:FOR x=96 TO 600 5
TEP 56:ORIGIN x,20:DRAW 0,4:NEXT
3620 s3=0:FOR s=12 TO 75 STEP 7:s3= >NX
s3+1:LOCATE s,25:PRINT s3:NEXT
3630 RETURN >FF
3640 FOR s2=1 TO 11:IF ok=11-s2 THE >KP
N c(s2)=s
3650 NEXT:RETURN >MC
3660 '----- >YH
3670 'CARBURANT >YJ
3680 '----- >YK
3690 CLS >AH
3700 ORIGIN 204,390:DRAW 208,0:DRAW >NA
208,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
208,386:DRAW 200,0:DRAW 200,-20:DR
AW 0,-20:DRAW 0,0:LOCATE 28,2:PRINT
"*** C A R B U R A N T ***"
3710 LOCATE 2,4:PRINT"Le dernier en >XV
registrement date du ";dt$:LOCATE 2
,5:PRINT"Vous avez achete un total
de";lit;"litre pour un montant tota
l de";USING i1$;ml
3720 LOCATE 2,10:PRINT"NOUVEL ENREG >VQ

```



```

ISTREMENT":LOCATE 2,11:PRINT"-----
-----"
3730 LOCATE 2,13:INPUT"Date >JB
: ";dt$:IF dt$="" THEN 3730
3740 LOCATE 2,14:INPUT"Litres >CM
: ";li:lit=lit+li
3750 LOCATE 2,15:INPUT"Prix paye >DV
: ";m1:ml=ml+m1
3760 LOCATE 2,16:PRINT"Total Compte >WP
ur : ";CHR$(18);:INPUT toc1:IF toc1
<=toc THEN 3760
3770 LOCATE 1,4:PRINT CHR$(18):LOCA >BF
TE 1,5:PRINT CHR$(18)
3780 IF toc1<5000 THEN 3810 >UX
3790 LOCATE 2,19:PRINT"VOTRE CONSOM >UD
MATION MOYENNE EST DE ";CHR$(24);RO
UND((lit/(toc1+300))*100,2);"Litres
aux 100 ";CHR$(24)
3800 cm1=ROUND((ml/lit),2):LOCATE 2 >AX
,21:PRINT"Vous avez achete un total
de";lit;"litres pour un montant to
tal de";ml;"Frs":LOCATE 2,22:PRINT"
soit une moyenne de";cm1;"Frs le li
tre"
3810 toc=toc1 >UA
3820 li=0:m1=0:PRINT CHR$(7);:LOCA >XD
TE 32,25:PRINT"UNE TOUCHE S.V.P.":C
ALL &BB06:GOTO 130
3830 '----- >YG
3840 'INFORMATIONS >YH
3850 '----- >YJ
3860 CLS >AG
3870 IF n=0 OR toc=0 THEN 4030 >WX
3880 tdep=0:FOR s=1 TO n:tdep=tdep+ >QQ
dep(s):NEXT:tadep=tdep-dep(1)
3890 ORIGIN 116,390:DRAW 408,0:DRAW >BR
408,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
120,386:DRAW 400,0:DRAW 400,-20:DR
AW 0,-20:DRAW 0,0:LOCATE 17,2:PRINT
"*** I N F O R M A T I O N S D I
V E R S E S ***"
3900 LOCATE 17,4:PRINT"PRIX DE REVI >MK
ENT AU KILOMETRE EN DATE DU ";dt$;:
LOCATE 3,6:PRINT"TOTAL KILOMETRAGE
: ";toc;:PRINT" PRI
X D'ACHAT :";USING i1$;dep(1)
3910 ORIGIN 11,298:DRAW 610,0:DRAW >HV
610,-116:DRAW 0,-116:DRAW 0,0
3920 ORIGIN 12,296:DRAW 608,0:DRAW >PP
608,-112:DRAW 0,-112:DRAW 0,0:ORIGI
N 12,248:DRAW 608,0:ORIGIN 12,272:D
RAW 520,0:ORIGIN 116,272:DRAW 0,-88
:ORIGIN 460,272:DRAW 0,-88
3930 ORIGIN 180,296:DRAW 0,-112:ORI >CR
GIN 181,296:DRAW 0,-112:ORIGIN 284,
272:DRAW 0,-88:ORIGIN 356,296:DRAW
0,-112:ORIGIN 357,296:DRAW 0,-112:O

```



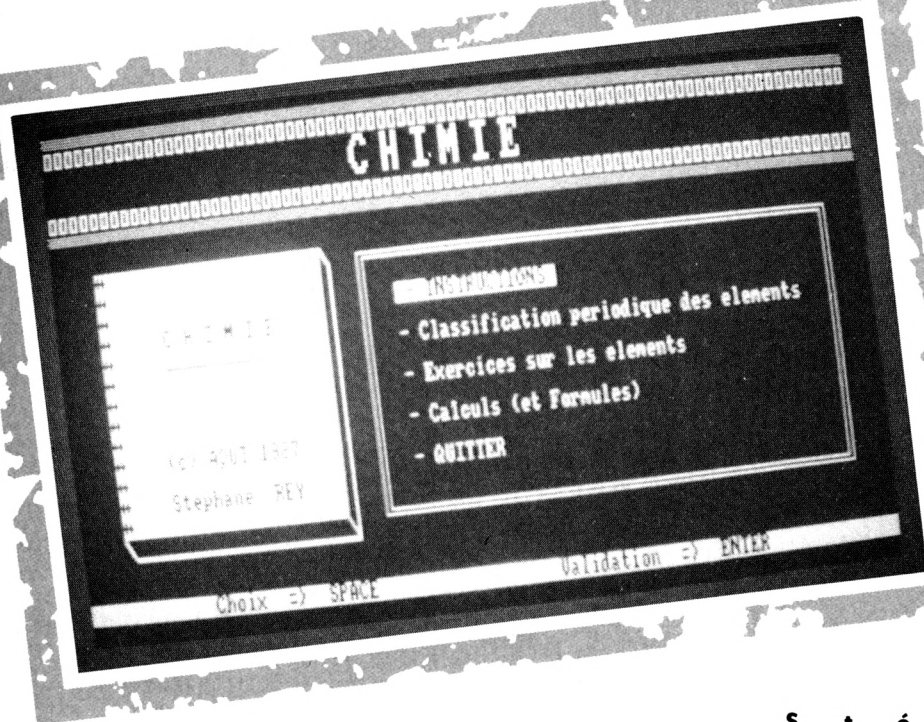
```

RIGIN 532,296:DRAW 0,-112:ORIGIN 53
3,296:DRAW 0,-112
3940 ORIGIN 0,0:TAG:PLOT 24,290:FRI >AR
NT"1 ESSENCE";:PLOT 188,290:FRI
NT"2 AUTRES DEPENSES";:PLOT 408,29
0:PRINT"TOTAL 1+2";:PLOT 36,266:PRI
NT"MONTANT";:PLOT 128,266:PRINT"Pr/
Km";:PLOT 204,266:PRINT"MONTANT";:P
LOT 300,266:PRINT"Pr/Km";
3950 PLOT 380,266:PRINT"MONTANT";:P >AT
LOT 476,266:PRINT"Pr/Km";:PLOT 548,
287:PRINT"PRIX/KM";:PLOT 537,269:PR
INT"AVEC ACHAT";:TAGOFF
3960 LOCATE 4,12:PRINT USING i1$;ml >YM
:LOCATE 17,12:PRINT USING"###.##";ml
/toc:LOCATE 25,12:PRINT USING i1$;t
adep:LOCATE 38,12:PRINT USING"###.#
#";tadep/toc:LOCATE 47,12:PRINT USI
NG i1$;tadep+ml:LOCATE 60,12:PRINT
USING"###.##";(tadep+ml)/toc
3970 LOCATE 71,12:PRINT USING"###.# >WJ
#";(tdep+ml)/toc
3980 LOCATE 3,15:PRINT"Consommation >UG
moyenne : ";CHR$(24);ROUND((lit/to
c)*100,2);"/100 ";CHR$(24)
3990 LOCATE 32,25:PRINT"UNE TOUCHE >DQ
S.V.P.":PRINT CHR$(7);:CALL &BB06:GO
TO 130
4000 LOCATE 6,11:PRINT"Date de l'ac >KR
hat [JJ.MM.AA] :";CHR$(18);:INPUT d
at$(n):IF LEN(dat$(n))>8 OR VAL(MID
$(dat$(n),4,2))>12 OR VAL(MID$(dat$
(n),4,2))<1 THEN 4000
4010 LOCATE 6,13:INPUT"Kilometre >YH
: ";kil(n):LOCATE 6,15:INPUT"Mar
que et Type :";nat$(n):nat$(n)="AC
HAT "+nat$(n):LOCATE 6,17:INPUT"Pri
x d'achat :";dep(n):LOCATE 6,19:
INPUT"Garage :";gar$(n)
4020 ch$(n)="D":RETURN >RR
4030 LOCATE 31,11:PRINT"MANQUE DE D >YL
ONNEES":FOR t=1 TO 2000:NEXT:GOTO 1
30
4040 SOUND 1,200,30,15:LOCATE 30,10 >DF
:PRINT"25 CARACTERES MAXIMUM":FOR a
=1 TO 2000:NEXT:RETURN
4050 CLS:IF ERL=710 THEN LOCATE 28, >QG
11:PRINT"FICHE NON TROUVEE":f$="" :F
OR s=1 TO 1500:NEXT:RESUME 650
4060 IF ERR=11 THEN GOSUB 4090:RESU >HD
ME 130
4070 PRINT "ERREUR No";ERR;"Ligne"; >KQ
ERL
4080 ON ERROR GOTO 0:END >TX
4090 CLS:LOCATE 23,10:PRINT"JE N'AI >TZ
ME PAS DIVISER PAR 0":FOR T=1 TO 20
00:NEXT:RETURN

```



# CHIMIE



Valable pour  
 CPC 464  
 CPC 664  
 CPC 6128

S t é p h a n e • R E Y

**C**e programme n'est pas une initiation à la chimie ; il sera utilisé par les pratiquants pour suppléer à votre mémoire défaillante. La table des éléments périodes et sa composition latine, les moles et le nombre d'Avogadro se rappelleront à votre souvenir. Bon courage tout de même...

```

10 ***** >LA
20 CHIMIE >LB
30 >LC
40 - 21 Ko - >LD
50 (c) ADUT 1987 >LE
60 REY St. >LF
70 ***** >LG
80 ON BREAK GOSUB 5400 >QU
90 MODE 2:RESTORE 570:BORDER 4:INK 0,1:INK 1,16:PAPER 0 >FF
:PEN 1
100 WINDOW #1,5,26,8,20:PAPER #1,1:PEN #1,0:CLS#1 >QA
110 ***** >RC
120 SYMBOL AFTER 175 >PZ
130 SYMBOL 175,15,15,60,60,240,240,240,240 >HA
140 SYMBOL 176,240,240,60,60,0,0,0,0 >BH
150 SYMBOL 177,240,240,60,60,15,15,0,0 >DR
  
```

```

160 SYMBOL 178,0,0,60,60,240,240,0,0 >BM
170 SYMBOL 179,60,60,60,60,60,60,63,63 >DQ
180 SYMBOL 180,60,60,60,60,60,60,252,252 >FF
190 SYMBOL 181,60,60,60,60,60,60,0,0 >BX
200 SYMBOL 182,63,63,3,3,3,3,3 >YG
210 SYMBOL 183,252,252,192,192,192,192,192 >ML
220 SYMBOL 184,3,3,3,3,63,63,0,0 >YE
230 SYMBOL 185,192,192,192,192,252,252,0,0 >HX
240 SYMBOL 186,240,240,252,252,255,255,255 >ME
250 SYMBOL 187,60,60,252,252,252,252,252 >KH
260 SYMBOL 188,243,243,240,240,240,240,0,0 >HC
270 SYMBOL 189,255,255,60,60,60,60,63,63 >FD
280 SYMBOL 190,252,252,12,12,192,192,192,192 >KL
290 SYMBOL 191,60,60,60,60,255,255,0,0 >DF
300 SYMBOL 192,192,192,12,12,252,252,0,0 >FW
310 SYMBOL 245,0,0,4,6,6,6,6 >WB
320 SYMBOL 246,0,0,6,24,48,32,64,64 >BR
330 SYMBOL 247,7,5,5,109,136,144,96,0 >CG
340 SYMBOL 248,64,64,64,192,192,128,128,0 >GM
350 CC$=CHR$(175)+CHR$(176)+CHR$(8)+CHR$(8)+CHR$(10)+CH >VF
R$(177)+CHR$(178)
360 HH$=CHR$(179)+CHR$(180)+CHR$(8)+CHR$(8)+CHR$(10)+CH >VE
R$(181)+CHR$(181)
370 II$=CHR$(182)+CHR$(183)+CHR$(8)+CHR$(8)+CHR$(10)+CH >VM
R$(184)+CHR$(185)
  
```



```
380 MM$=CHR$(186)+CHR$(187)+CHR$(8)+CHR$(8)+CHR$(10)+CHR$(10)+CHR$(188) >VF
R$(188)+CHR$(181)
390 EE$=CHR$(189)+CHR$(190)+CHR$(8)+CHR$(8)+CHR$(10)+CHR$(10)+CHR$(191) >WZ
R$(191)+CHR$(192)
400 NN$=CHR$(245)+CHR$(246)+CHR$(8)+CHR$(8)+CHR$(10)+CHR$(10)+CHR$(247) >VR
R$(247)+CHR$(248)
410 LOCATE 31,3:PRINT CC$:LOCATE 34,3:PRINT HH$:LOCATE 37,3:PRINT II$:LOCATE 40,3:PRINT MM$:LOCATE 43,3:PRINT
II$:LOCATE 46,3:PRINT EE$
420 LOCATE 1,1:PRINT STRING$(80,CHR$(218)) >KD
430 LOCATE 1,2:PRINT STRING$(80,CHR$(232)) >KN
440 LOCATE 1,6:PRINT STRING$(80,CHR$(216)) >KW
450 LOCATE 1,5:PRINT STRING$(80,CHR$(232)) >KU
460 LOCATE #1,7,4:PRINT#1,"C H I M I E" >FM
470 LOCATE #1,7,5:PRINT#1,"" >LP
480 LOCATE #1,6,10:PRINT#1,"(c) ADUT 1987" >KK
490 LOCATE #1,6,12:PRINT#1,"Stephane REY" >NX
500 LOCATE #1,1,1:FOR i=1 TO 13:PRINT#1,CHR$(255):NEXT >YV
510 LOCATE 27,8:PRINT CHR$(205):LOCATE 27,9:PRINT CHR$(209) >EN
520 ORIGIN 215,65:DRAW 0,200:ORIGIN 214,65:DRAW 0,200 >WJ
530 LOCATE 5,21:PRINT CHR$(205):ORIGIN 38,65:DRAW 175,0 >EP
:ORIGIN 40,63:DRAW 175,0
540 ORIGIN 215,62:DRAW -12,25:ORIGIN 215,64:DRAW -12,25 >YX
550 '*** MENU DESCENDANT *** >TA
560 GOSUB 950 >JE
570 DATA "- INSTRUCTIONS","- Classification periodique des elements",- Exercices sur les elements >UB
580 DATA "- Calculs (et Formules) ", "- QUITTER " >YH
590 FOR I=1 TO 5:READ X$(I):NEXT:H=1 >DH
600 PEN 1:LOCATE 1,24:PRINT CHR$(24);" Choix >NF
=> SPACE Validation => ENTER
";CHR$(24)
610 FOR I=1 TO 5:LOCATE 34,8+I*2:PRINT X$(I):NEXT >TA
620 LOCATE 34,8+h*2:PRINT CHR$(24);" ";X$(H);" ";CHR$(24) >AT
4)
630 R$="":WHILE R$="":R$=INKEY$:WEND >EZ
640 GOSUB 1170 >QA
650 IF R$=CHR$(13) THEN 690 >UB
660 V=H:H=H+1:IF H=6 THEN H=1 >WB
670 LOCATE 34,8+v*2:PRINT " ";X$(V);" " >FB
680 GOTO 620 >ZJ
690 ON H GOTO 710,2250,2770,4180,3080 >CR
700 '***** INSTRUCTIONS ***** >RH
710 CLS:H$="** INSTRUCTIONS **":Y=3:M=80:GOSUB 4110:GOSUB 1100:GOSUB 1000 >ZB
720 LOCATE 13,7:PRINT " Vous avez du mal a assimiler les caracteristiques de" >BP
730 GOSUB 1150:LOCATE 13,8:PRINT"certains elements chimiques ? Vous souhaitez connaitre" >WP
740 GOSUB 1150:LOCATE 13,9:PRINT"le nombre de moles contenues dans un corps ou meme le" >RG
750 GOSUB 1150:LOCATE 13,10:PRINT"volume d'un gaz et d'autres encore ? Alors CHIMIE " >KL
760 GOSUB 1150:LOCATE 13,11:PRINT"pourra peut etre vous aider a resoudre ses problemes." >UR
770 GOSUB 1150:LOCATE 13,13:PRINT" Regroupant 6 formules de calculs, ainsi que les 103" >PA
780 GOSUB 1150:LOCATE 13,14:PRINT"elements de la classification periodique ( et leurs
caracteristiques ), C'est la CHIMIE vous aidera a resoudre des"
800 GOSUB 1150:LOCATE 13,16:PRINT"exercices a l'aide des formules comprises dans le" >QW
810 GOSUB 1150:LOCATE 13,17:PRINT"programme et a reviser ou meme a apprendre les elements" >QF
820 GOSUB 1150:LOCATE 13,18:PRINT"noms chimiques grace a de petits exercices compris" >TZ
830 GOSUB 1150:LOCATE 13,19:PRINT"eux aussi dans ce programme ." >YR
840 GOSUB 1150:LOCATE 21,21:PRINT " Encore BONNE CHANCE et BON TRAVAIL !!!" >FE
850 LOCATE 1,24:PRINT CHR$(24);" >EG
<<<< TAPER UNE TOUCHE >>>>
";CHR$(24):CALL &BB06:RESTORE 570:GOSUB 1170:GOTO 90
860 '***** liste des elements ***** >TE
870 WHILE INKEY$<>"":WEND >VU
880 RESTORE 1200 >LA
890 RESTORE 1200:CLS:MODE 1:FOR n=1 TO 103:READ A$,B$,C$,D$,E$:CLS:GOSUB 1100 >BT
900 H$="* CHIMIE *":Y=3:M=40:GOSUB 4110:GOSUB 1050:LOCATE 7,8:PRINT " Nom : ";A$:LOCATE 7,10:PRINT " Symbole : ";B$ >ZY
910 LOCATE 7,12:PRINT " No atom. : ";C$:LOCATE 7,14:PRINT " Poids atom. : ";D$:LOCATE 7,16:PRINT " Famille : ";E$ >BM
920 LOCATE 1,23:PRINT CHR$(24);" <COPY> => MENU <E> >YK
SPACE> => SUITE ";CHR$(24):IF INKEY(9)<>-1 THEN GOTO 2
250 ELSE CALL &BB18:NEXT
930 RUN 2270 >YA
940 '***** cadres ***** >TD
950 ORIGIN 0,0:MOVE 237,78:DRAW 237,280:DRAW 610,280 >VA
960 DRAW 610,78:DRAW 237,78 >UP
970 MOVE 241,82:DRAW 241,276:DRAW 606,276 >GG
980 DRAW 606,82:DRAW 241,82 >UF
990 RETURN >AD
1000 ORIGIN 0,0:MOVE 65,52:DRAW 65,320:DRAW 558,320 >TH
1010 DRAW 558,52:DRAW 65,52 >UQ
1020 MOVE 69,56:DRAW 69,316:DRAW 554,316 >GE
1030 DRAW 554,56:DRAW 69,56 >UB
1040 RETURN >EJ
1050 ORIGIN 0,0:MOVE 40,135:DRAW 40,300:DRAW 610,300 >UG
1060 DRAW 610,135:DRAW 40,135 >WD
1070 MOVE 44,139:DRAW 44,296:DRAW 606,296 >GE
1080 DRAW 606,139:DRAW 44,139 >WZ
1090 RETURN >FD
1100 ORIGIN 0,0:MOVE 0,0:DRAW 0,398:DRAW 639,398 >QN
1110 DRAW 639,0:DRAW 0,0 >RR
1120 MOVE 4,4:DRAW 4,394:DRAW 635,394 >DK
1130 DRAW 635,4:DRAW 4,4 >RC
1140 RETURN >EK
1150 '***** >YK
1160 FOR t=1 TO 1000:NEXT:RETURN >AN
1170 '***** son ***** >YB
```



```

1180 SOUND 1,180,18,10:SOUND 1,250,16,10:RETURN
1190 ***** DATAS *****
1200 DATA ACTINIUM,Ac,89,227,ACTINIDES
1210 DATA ALUMINIUM,Al,13,27,METAUX
1220 DATA AMERICIUM,Am,95,243,ACTINIDES
1230 DATA ANTIMOINE,Sb,51,121.8,METAUX
1240 DATA ARGENT,Ag,47,107.9,METAUX
1250 DATA ARGON,Ar,18,39.9,GAZ
1260 DATA ARSENIC,As,33,74.9,METALLOIDES
1270 DATA ASTATE,At,85,210,METALLOIDES
1280 DATA AZOTE,N,7,14,METALLOIDES
1290 DATA BARIUM,Ba,56,137.3,METAUX
1300 DATA BERKELIUM,Bk,97,249,ACTINIDES
1310 DATA BERYLLIUM,Be,4,9,METAUX
1320 DATA BISMUTH,Bi,83,209,METAUX
1330 DATA BORE,B,5,10.8,METALLOIDES
1340 DATA BROME,Br,35,79.9,METALLOIDES
1350 DATA CADMIUM,Cd,48,112.4,METAUX
1360 DATA CAESIUM,Cs,55,132.9,METAUX
1370 DATA CALCIUM,Ca,20,40.1,METAUX
1380 DATA CALIFORNIUM,Cf,98,251,ACTINIDES
1390 DATA CARBONE,C,6,12,METALLOIDES
1400 DATA CERIUM,Ce,58,140.1,LANTHANIDES
1410 DATA CHLORE,Cl,17,35.5,METALLOIDES
1420 DATA CHROME,Cr,24,52,METAUX
1430 DATA COBALT,Co,27,58.9,METAUX
1440 DATA CUIVRE,Cu,29,63.5,METAUX
1450 DATA CURIUM,Cm,96,247,ACTINIDES
1460 DATA DYSPROSIUM,Dy,66,162.5,LANTHANIDES
1470 DATA EINSTEINIUM,Es,99,254,ACTINIDES
1480 DATA ERBIUM,Er,68,167.3,LANTHANIDES
1490 DATA ETAIN,Sn,50,118.7,METAUX
1500 DATA EUROPIUM,Eu,63,152,LANTHANIDES
1510 DATA FER,Fe,26,55.8,METAUX
1520 DATA FERMIUM,Fm,100,255,ACTINIDES
1530 DATA FLUOR,F,9,19,METALLOIDES
1540 DATA FRANCIUM,Fr,87,223,METAUX
1550 DATA GADOLINIUM,Gd,64,157.3,LANTHANIDES
1560 DATA GALLIUM,Ga,31,69.7,METAUX
1570 DATA GERMANIUM,Ge,32,72.6,METAUX
1580 DATA HAFNIUM,Hf,72,178.5,METAUX
1590 DATA HELIUM,He,2,4,GAZ
1600 DATA HOLMIUM,Ho,67,164.9,LANTHANIDES
1610 DATA HYDROGENE,H,1,1,GAZ
1620 DATA INDIUM,In,49,114.8,METAUX
1630 DATA IODE,I,53,126.9,METALLOIDES
1640 DATA IRIDIUM,Ir,77,192.2,METAUX
1650 DATA KRYPTON,Kr,36,83.8,GAZ
1660 DATA LANTHANUM,La,57,138.9,LANTHANIDES
1670 DATA LAWRENCIUM,Ln,103,257,ACTINIDES
1680 DATA LITHIUM,Li,3,6.9,METAUX
1690 DATA LUTETIUM,Lu,71,175,LANTHANIDES
1700 DATA MAGNESIUM,Mg,12,24.3,METAUX
1710 DATA MANGANESE,Mn,25,54.9,METAUX
1720 DATA MENDELEVIUM,Md,101,256,ACTINIDES
1730 DATA MERCURE,Hg,80,200.6,METAUX
1740 DATA MOLYBDENE,Mo,42,95.9,METAUX
1750 DATA NEODYME,Nd,60,144.2,LANTHANIDES
1760 DATA NEON,Ne,10,20.2,GAZ
1770 DATA NEPTUNIUM,Np,93,237,ACTINIDES
1780 DATA NICKEL,Ni,28,58.7,METAUX
1790 DATA NIOBIUM,Nb,41,92.9,METAUX
1800 DATA NOBELIUM,Nb,102,253,ACTINIDES
1810 DATA OR,Au,79,197,METAUX
1820 DATA OSMIUM,Os,76,190.2,METAUX
1830 DATA OXYGENE,O,8,16,METALLOIDES
1840 DATA PALLADIUM,Pd,46,106.4,METAUX
1850 DATA PHOSPHORE,P,15,31,METALLOIDES
1860 DATA PLATINE,Pt,78,195.1,METAUX
1870 DATA PLOMB,Pb,82,207.2,METAUX
1880 DATA PLUTONIUM,Pu,94,242,ACTINIDES
1890 DATA POLONIUM,Po,84,209,METAUX
1900 DATA POTASSIUM,K,19,39.1,METAUX
1910 DATA PRASEODYME,Pr,59,140.9,LANTHANIDES
1920 DATA PROMETHIUM,Pm,61,145,LANTHANIDES
1930 DATA PROTACTINIUM,Pa,91,231,ACTINIDES
1940 DATA RADIUM,Ra,88,226.1,METAUX
1950 DATA RADON,Rn,86,222,GAZ
1960 DATA RHENIUM,Rh,45,101.1,METAUX
1970 DATA RHODIUM,Rh,45,102.9,METAUX
1980 DATA RUBIDIUM,Rb,37,85.5,METAUX
1990 DATA RUTHENIUM,Ru,44,101.1,METAUX
2000 DATA SAMARIUM,Sm,62,150.4,LANTHANIDES
2010 DATA SCANDIUM,Sc,21,45,METAUX
2020 DATA SELENIUM,Se,34,79,METALLOIDES
2030 DATA SILICIUM,Si,14,28.1,METALLOIDES
2040 DATA SODIUM,Na,11,23,METAUX
2050 DATA STRONTIUM,Sr,38,87.6,METAUX
2060 DATA SOUFRE,S,16,32.1,METALLOIDES
2070 DATA TANTALE,Ta,73,180.9,METAUX
2080 DATA TECHNETIUM,Tc,43,99,METAUX
2090 DATA TELLURIUM,Te,52,127.6,METALLOIDES
2100 DATA TERBIUM,Tb,65,158.9,LANTHANIDES
2110 DATA THALLIUM,Tl,81,204.4,METAUX
2120 DATA THORIUM,Th,90,232,ACTINIDES
2130 DATA THULIUM,Tm,69,168.9,LANTHANIDES
2140 DATA TITANE,Ti,22,47.9,METAUX
2150 DATA TUNGSTENE,W,74,183.9,METAUX
2160 DATA URANIUM,U,92,238,ACTINIDES
2170 DATA VANADIUM,V,23,50.9,METAUX
2180 DATA XENON,Xe,54,131.3,GAZ
2190 DATA YTTERBIUM,Yb,70,173,LANTHANIDES
2200 DATA YTTRIUM,Y,39,88.9,METAUX
2210 DATA ZINC,Zn,30,65.4,METAUX
2220 DATA ZIRCONIUM,Zr,40,91.2,METAUX
2230 END
2240 *****
2250 **** CLASSIFICATION (MENU) ****
2260 WHILE INKEY$<>"":WEND
2270 MODE 1:CLS:GOSUB 1100:H$="* CLASSIFICATION PERIODI
QUE *:Y=3:M=40:GOSUB 4110
2280 H$="* DES ELEMENTS *:Y=5:M=40:GOSUB 4110
2290 LOCATE 6,9:PRINT"A- Liste des elements."
2300 LOCATE 6,11:PRINT"B- Recherche par le NOM."

```





```

2310 LOCATE 6,13:PRINT"C- Recherche par le Symbole." >FF
2320 LOCATE 6,15:PRINT"D- Recherche par le No atomique." >MK
"
2330 LOCATE 6,17:PRINT"E- Retour au menu." >QH
2340 LOCATE 1,23:PRINT CHR$(24);" <<< Taper votre >QG
choix >>> ";CHR$(24)
2350 z$=INKEY$ >YK
2360 IF z$="A" OR z$="a" THEN GOSUB 1170:GOTO 860 >FR
2370 IF z$="B" OR z$="b" THEN GOSUB 1170:GOTO 2420 >QL
2380 IF z$="C" OR z$="c" THEN GOSUB 1170:GOTO 2540 >QT
2390 IF z$="D" OR z$="d" THEN GOSUB 1170:GOTO 2640 >QX
2400 IF z$="E" OR z$="e" THEN GOSUB 1170:GOTO 90 >NT
2410 GOTO 2350 >ME
2420 '**** recherche par le NOM **** >YA
2430 WHILE INKEY$<>"":WEND >VQ
2440 RESTORE 1200:MODE 1:CLS:GOSUB 1100: H$="* Recherch >YM
e par NOM *":Y=3:M=40:GOSUB 4110
2450 LOCATE 7,8:INPUT"NOM de l'element : ",R$ >UV
2460 R$=UPPER$(R$):FOR R=1 TO 103:READ A$,B$,C$,D$,E$ >VA
2470 IF R$=A$ THEN 2480 ELSE 2490 >VD
2480 GOSUB 2730:GOTO 2510 >TH
2490 NEXT >LG
2500 GOSUB 2530 >WK
2510 LOCATE 1,23:PRINT CHR$(24);" <<< TAPER UNE >XG
TOUCHE >>> ";CHR$(24)
2520 CALL &BB06:GOSUB 1170:GOTO 2250 >CA
2530 H$="DESOLE, MAIS NON REPERTORIE...":Y=17:M=40:GOSU >YJ
B 4110:FOR H=1 TO 500:NEXT:RETURN
2540 '**** recherche par le SYMBOLE **** >YD
2550 WHILE INKEY$<>"":WEND >VU
2560 RESTORE 1200:MODE 1:CLS:GOSUB 1100:H$="* Recherche >BT
par Symbole *":Y=3:M=40:GOSUB 4110
2570 LOCATE 5,8:INPUT"Symbole de l'element : ",R$ >BG
2580 FOR R=1 TO 103:READ A$,B$,C$,D$,E$ >DU
2590 IF R$=B$ THEN 2600 ELSE 2610 >XD
2600 GOSUB 2730:GOTO 2630 >TE
2610 NEXT >LA
2620 GOSUB 2530 >XC
2630 GOTO 2510 >MG
2640 '**** recherche par le No ATOMIQUE **** >YE
2650 RESTORE 1200:MODE 1:CLS:GOSUB 1100:H$="* Recherche >MJ
par No ATOMIQUE *":Y=3:M=40:GOSUB 4110
2660 LOCATE 5,8:INPUT"No ATOMIQUE de l'element : ",R$ >ER
2670 R$=UPPER$(R$):FOR R=1 TO 103:READ A$,B$,C$,D$,E$ >VD
2680 IF R$=C$ THEN 2690 ELSE 2700 >YF
2690 GOSUB 2730:GOTO 2720 >TP
2700 NEXT >LA
2710 GOSUB 2530 >XC
2720 GOTO 2510 >MG
2730 ' ***** >YE
2740 CLS:MODE 1:GOSUB 1100:H$="* CHIMIE *":Y=3:M=40:GOS >RD
UB 4110:GOSUB 1050:LOCATE 7,8:PRINT " NOM : ";A$:LOCAT
E 7,10:PRINT " SYMBOLE : ";B$
2750 LOCATE 7,12:PRINT " No atom. : ";C$:LOCATE 7,14:P >DZ
RINT" Poids atom. : ";D$:LOCATE 7,16:PRINT" Famille
: ";E$
2760 RETURN >FJ
2770 '***** >YJ
2780 ' EXERCICES SUR LES ELEMENTS >YK
2790 '***** >ZA
2800 MODE 1:CLS:GOSUB 1100:H$="Exercices sur les elemen >RG
ts":Y=4:M=40:GOSUB 4110
2810 LOCATE 6,8:PRINT"A- Trouver le NOM." >PV
2820 LOCATE 6,10:PRINT"B- Trouver le SYMBOLE." >VU
2830 LOCATE 6,12:PRINT"C- Trouver le No ATOMIQUE." >AL
2840 LOCATE 6,14:PRINT"D- Trouver le POIDS ATOMIQUE." >EL
2850 LOCATE 6,16:PRINT"E- Trouver la FAMILLE." >VR
2860 LOCATE 6,18:PRINT"F- Retour au MENU" >NE
2870 LOCATE 1,23:PRINT CHR$(24);" <<< Taper votr >QZ
e choix >>> ";CHR$(24)
2880 Z$=INKEY$ >ZH
2890 IF Z$="A" OR Z$="a" THEN GOSUB 1170:GOTO 3230 >QR
2900 IF Z$="B" OR Z$="b" THEN GOSUB 1170:GOTO 3400 >QJ
2910 IF Z$="C" OR Z$="c" THEN GOSUB 1170:GOTO 3570 >QW
2920 IF Z$="D" OR Z$="d" THEN GOSUB 1170:GOTO 3740 >QY
2930 IF Z$="E" OR Z$="e" THEN GOSUB 1170:GOTO 3910 >QA
2940 IF Z$="F" OR Z$="f" THEN GOSUB 1170:GOTO 90 >NE
2950 GOTO 2880 >PB
2960 '**** dessin du tableau (exercice) **** >YK
2970 GOSUB 1100:LOCATE 34,25:PRINT CHR$(24);" QUESTION >WC
No ";Q:CHR$(24)
2980 RESTORE 1200:FOR i=1 TO X:READ A$,B$,C$,D$,E$:NEXT >HM
i:C=C+1
2990 ORIGIN 62,25:DRAW 0,348:ORIGIN 63,25:DRAW 0,348 >VT
3000 ORIGIN 62,25:DRAW 510,0:ORIGIN 183,25:DRAW 0,348:O >CR
RIGIN 184,25:DRAW 0,348
3010 ORIGIN 262,25:DRAW 0,348:ORIGIN 342,25:DRAW 0,348 >XB
3020 ORIGIN 446,25:DRAW 0,348:ORIGIN 572,25:DRAW 0,348: >EE
ORIGIN 573,25:DRAW 0,348
3030 ORIGIN 62,342:DRAW 510,0:ORIGIN 62,375:DRAW 510,0 >XR
3040 LOCATE 29,1:PRINT CHR$(24);"*** C H I M I E ***" >HC
;CHR$(24)
3050 LOCATE 15,3:PRINT"NOM":LOCATE 25,3:PRINT"SYMBOLE" >BT
3060 LOCATE 35,3:PRINT"No Atom.":LOCATE 45,3:PRINT"Poid >HM
s Atom.":LOCATE 61,3:PRINT"FAMILLE"
3070 RETURN >FD
3080 '**** Sortie du programme **** >YD
3090 CLS:MODE 1:GOSUB 1100:H$="* CHIMIE *":Y=3:M=40:G >KG
OSUB 4110
3100 LOCATE 4,10:PRINT CHR$(142);STRING$(32,131);CHR$(1 >KH
41):LOCATE 4,11:PRINT CHR$(133);" Confirmez-vous votre
decision ";CHR$(138)
3110 LOCATE 4,12:PRINT CHR$(133);STRING$(32,128);CHR$(1 >GP
38):LOCATE 4,13:PRINT CHR$(133);" de quitter le program
me ?(O/N) ";CHR$(138)
3120 LOCATE 4,14:PRINT CHR$(139);STRING$(32,140);CHR$(1 >DB
35)
3130 A$=INKEY$ >WB
3140 IF A$="O" OR A$="o" THEN 3170 >YJ
3150 IF A$="N" OR A$="n" THEN 90 >WW
3160 GOTO 3130 >ME
3170 CLS:LOCATE 5,11:PRINT CHR$(142);STRING$(30,131);CH >UG
R$(141):LOCATE 5,12:PRINT CHR$(133);STRING$(30,128);CHR
$(138)

```



```

3180 LOCATE 5,13:PRINT CHR$(133);STRING$(30,128);CHR$(1 >DJ
38)
3190 LOCATE 5,14:PRINT CHR$(133);STRING$(30,128);CHR$(1 >MR
38) :LOCATE 5,15:PRINT CHR$(137);STRING$(30,140);CHR$(1
34)
3200 LOCATE 8,13:PRINT"AUREVOIR ET,";FOR I=1 TO 500:NEX >DT
T:LOCATE 20,13:PRINT" A BIENTOT !..."
3210 FOR H=1 TO 2000:NEXT >TE
3220 INK 0,1:INK 1,24:MODE 1:BORDER 1:PAPER 0:PEN 1 :EN >YX
D
3230 '***** Trouver NOM ***** >YA
3240 WHILE INKEY$<>"":WEND >VQ
3250 CLS:MODE 2:n=103:SC=0:C=3 >YF
3260 FOR Q=1 TO 11:IF Q=11 THEN 4070 >AG
3270 RANDOMIZE TIME:X=INT(RND*n)+1 >ED
3280 X(Q)=X >XF
3290 FOR J=1 TO Q-1 >MG
3300 IF X(Q)=X(J) THEN 3270 >UD
3310 NEXT J >VD
3320 GOSUB 2960 >XH
3330 C=C+1:LOCATE 27,C:PRINT B$:LOCATE 37,C:PRINT C$:LO >EG
CATE 47,C:PRINT D$:LOCATE 59,C:PRINT E$
3340 LOCATE 10,C:LINE INPUT W$:W$=UPPER$(W$) >NF
3350 IF W$="" OR W$ <> A$ THEN GOTO 3360 ELSE GOTO 3370 >TT
3360 LOCATE 10,C:PRINT SPACE$(13):LOCATE 10,C:FOR m=200 >BF
TO 1 STEP -15:SOUND 1,m,1,15:NEXT m:PRINT A$:GOTO 3380
3370 FOR m=1 TO 200 STEP 10:SOUND 1,m,1,15:NEXT m:SC=SC >AH
+1
3380 NEXT >LF
3390 END >ZD
3400 '***** Trouver SYMBOLE ***** >XK
3410 WHILE INKEY$<>"":WEND >VP
3420 CLS:MODE 2:n=103:SC=0:C=3 >YE
3430 FOR Q=1 TO 11:IF Q=11 THEN 4070 >AF
3440 RANDOMIZE TIME:X=INT(RND*n)+1 >EC
3450 X(Q)=X >XE
3460 FOR J=1 TO Q-1 >MF
3470 IF X(Q)=X(J) THEN 3440 >UL
3480 NEXT J >WB
3490 GOSUB 2960 >YF
3500 C=C+1:LOCATE 10,C:PRINT A$:LOCATE 37,C:PRINT C$:LO >DE
CATE 47,C:PRINT D$:LOCATE 59,C:PRINT E$
3510 LOCATE 27,C:LINE INPUT W$ >YK
3520 IF W$="" OR W$ <> B$ THEN GOTO 3530 ELSE GOTO 3540 >TQ
3530 LOCATE 27,C:PRINT SPACE$(5):LOCATE 27,C:FOR m=200 >AQ
TO 1 STEP -10:SOUND 1,m,1,15:NEXT m:PRINT B$:GOTO 3550
3540 FOR m=1 TO 200 STEP 10:SOUND 1,m,1,15:NEXT m:SC=SC >AG
+1
3550 NEXT >LE
3560 END >ZC
3570 '***** Trouver No atom. ***** >YH
3580 WHILE INKEY$<>"":WEND >VY
3590 CLS:MODE 2:n=103:SC=0:C=3 >YN
3600 FOR Q=1 TO 11:IF Q=11 THEN 4070 >AE
3610 RANDOMIZE TIME:X=INT(RND*n)+1 >EB
3620 X(Q)=X >XD

```

```

3630 FOR J=1 TO Q-1 >ME
3640 IF X(Q)=X(J) THEN 3610 >UJ
3650 NEXT J >WA
3660 GOSUB 2960 >YE
3670 C=C+1:LOCATE 10,C:PRINT A$:LOCATE 27,C:PRINT B$:LO >EC
CATE 47,C:PRINT D$:LOCATE 59,C:PRINT E$
3680 LOCATE 37,C:LINE INPUT W$ >YV
3690 IF W$="" OR W$ <> C$ THEN GOTO 3700 ELSE GOTO 3710 >TY
3700 LOCATE 37,C:PRINT SPACE$(5):LOCATE 37,C:FOR m=200 >AR
TO 1 STEP -10:SOUND 1,m,1,15:NEXT m:PRINT C$:GOTO 3720
3710 FOR m=1 TO 200 STEP 10:SOUND 1,m,1,15:NEXT m:SC=SC >AF
+1
3720 NEXT >LD
3730 END >ZB
3740 '***** Trouver POIDS atom. ***** >YG
3750 WHILE INKEY$<>"":WEND >VX
3760 CLS:MODE 2:n=103:SC=0:C=3 >YM
3770 FOR Q=1 TO 11:IF Q=11 THEN 4070 >AN
3780 RANDOMIZE TIME:X=INT(RND*n)+1 >EK
3790 X(Q)=X >YB
3800 FOR J=1 TO Q-1 >MD
3810 IF X(Q)=X(J) THEN 3780 >UR
3820 NEXT J >VK
3830 GOSUB 2960 >YD
3840 C=C+1:LOCATE 10,C:PRINT A$:LOCATE 27,C:PRINT B$:LO >DH
CATE 37,C:PRINT C$:LOCATE 59,C:PRINT E$
3850 LOCATE 47,C:LINE INPUT W$ >YV
3860 IF W$="" OR W$ <> D$ THEN GOTO 3870 ELSE GOTO 3880 >TQ
3870 LOCATE 47,C:PRINT SPACE$(9):LOCATE 47,C:FOR m=200 >AR
TO 1 STEP -10:SOUND 1,m,1,15:NEXT m:PRINT D$:GOTO 3890
3880 FOR m=1 TO 200 STEP 10:SOUND 1,m,1,15:NEXT m:SC=SC >AP
+1
3890 NEXT >MB
3900 END >ZA
3910 '***** Trouver FAMILLE ***** >YF
3920 CLS:MODE 2:n=103:SC=0:C=3 >YK
3930 FOR Q=1 TO 11:IF Q=11 THEN 4070 >AL
3940 RANDOMIZE TIME:X=INT(RND*n)+1 >EH
3950 X(Q)=X >XK
3960 FOR J=1 TO Q-1 >ML
3970 IF X(Q)=X(J) THEN 3940 >UX
3980 NEXT J >WG
3990 GOSUB 2960 >ZA
4000 C=C+1:LOCATE 10,C:PRINT A$:LOCATE 27,C:PRINT B$:LO >DR
CATE 37,C:PRINT C$:LOCATE 47,C:PRINT D$
4010 LOCATE 58,C:LINE INPUT W$:W$=UPPER$(W$) >NN
4020 IF W$="" OR W$ <> E$ THEN GOTO 4030 ELSE GOTO 4040 >TF
4030 LOCATE 58,C:PRINT SPACE$(12):LOCATE 58,C:FOR m=200 >BU
TO 1 STEP -10:SOUND 1,m,1,15:NEXT m:PRINT E$:GOTO 4050
4040 FOR m=1 TO 200 STEP 10:SOUND 1,m,1,15:NEXT m:SC=SC >AC
+1
4050 NEXT >LA
4060 END >YJ
4070 '***** RESULTATS EXERCICES ***** >YD
4080 CLS:MODE 1:GOSUB 1100:H$="* CHIMIE *":Y=3:M=40:GOS >DV
UB 4110:H$=" " :Y=12:M=40:GOSUB 4110:L

```



```
DCATE 12,12:PRINT "SCORE : ";SC;" / 10"
4090 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une >PE
touche >>> ";CHR$(24)
4100 CALL &BB06:GOTO 2770 >TY
4110 '**** CADRES DES TITRES **** >XJ
4120 X=(M-LEN(H$))/2-2 >QD
4130 LE=LEN(H$) >BD
4140 LOCATE X,Y-1:PRINT CHR$(150);STRING$(LE+2,154);CHR >HT
$(156)
4150 LOCATE X,Y:PRINT CHR$(149);" ";H$;" ";CHR$(149) >VB
4160 LOCATE X,Y+1:PRINT CHR$(147);STRING$(LE+2,154);CHR >HW
$(153)
4170 RETURN >FF
4180 '***** Calculs (et formules) ***** >YF
4190 MODE 1:CLS:GOSUB 1100:H$="Calculs (et formules)":Y >GD
=3:M=40:GOSUB 4110
4200 LOCATE 5,6:PRINT"A- Masse molaire d'un corps." >ED
4210 LOCATE 5,8:PRINT"B- Volume d'un gaz." >QF
4220 LOCATE 5,10:PRINT"C- Nombre de particules d'un cor >TV
ps."
4230 LOCATE 5,12:PRINT"D- Masse d'un corps." >UL
4240 LOCATE 5,14:PRINT"E- Volume molaire d'un gaz." >EC
4250 LOCATE 5,16:PRINT"F- Nombre de moles d'un corps." >JF
4260 LOCATE 5,18:PRINT"G- Legende." >FZ
4270 LOCATE 5,20:PRINT"H- Retour au menu principal." >GA
4280 LOCATE 1,23:PRINT CHR$(24);" <<< Taper votre >QW
choix >>> ";CHR$(24)
4290 a$=INKEY$ >WK
4300 IF a$="a" OR a$="A" THEN GOSUB 1180:GOTO 4390 >PT
4310 IF a$="b" OR a$="B" THEN GOSUB 1180:GOTO 4510 >PP
4320 IF a$="c" OR a$="C" THEN GOSUB 1180:GOTO 4630 >PW
4330 IF a$="d" OR a$="D" THEN GOSUB 1180:GOTO 4760 >PD
4340 IF a$="e" OR a$="E" THEN GOSUB 1180:GOTO 4870 >QA
4350 IF a$="f" OR a$="F" THEN GOSUB 1180:GOTO 4990 >QG
4360 IF a$="g" OR a$="G" THEN GOSUB 1180:GOTO 5290 >QD
4370 IF a$="h" OR a$="H" THEN GOSUB 1180:GOTO 90 >NE
4380 GOTO 4290 >NH
4390 '*** Masse molaire d'un corps *** >YJ
4400 WHILE INKEY$<>"":WEND >VP
4410 MODE 1:CLS:GOSUB 1100:H$="Masse molaire d'un corps" >ML
":Y=3:M=40:GOSUB 4110
4420 LOCATE 8,8:PRINT"Formule :" >DG
4430 LOCATE 18,8:PRINT "M(X) = ":LOCATE 25,7:PRINT NN$; >HH
". m(x)":LOCATE 8,9:PRINT STRING$(25,154)
4440 LOCATE 11,11:PRINT NN$;"= 6.02*10 mol" >MG
4450 LOCATE 22,11:PRINT"23 -1" >ZN
4460 LOCATE 12,14:PRINT"(ou 6.02*1E+24)" >HQ
4470 LOCATE 5,17:INPUT"Entrez la valeur de m(x):",rep >GG
4480 resultat=6.02*1E+24*rep >XF
4490 LOCATE 10,20:PRINT " M(x) =";ROUND(resultat,2) >XH
4500 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une >XY
touche >>> ";CHR$(24):CALL &BB06:GOTO 4180
4510 '*** Volume d'un gaz *** >YC
4520 WHILE INKEY$<>"":WEND >VT
4530 MODE 1:CLS:GOSUB 1100:H$="Volume d'un gaz":Y=3:M=4 >WV
0:GOSUB 4110
4540 LOCATE 8,8:PRINT"Formule :" >DK
4550 LOCATE 18,8:PRINT "V(x) = n(x) . Vm" >KA
4560 LOCATE 8,9:PRINT STRING$(26,154) >FP
4570 LOCATE 5,12:INPUT"Entrez la valeur de n(x):",n >DZ
4580 LOCATE 5,15:INPUT"Entrez la valeur de Vm :",v >CZ
4590 resultat=n*v >NH
4600 LOCATE 13,20:PRINT"V(x) =";ROUND(resultat,2) >WD
4610 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une >XA
touche >>> ";CHR$(24):CALL &BB06:GOTO 4180
4620 END >ZA
4630 '*** Nombre de particules d'un corps *** >YF
4640 WHILE INKEY$<>"":WEND >VW
4650 MODE 1:CLS:GOSUB 1100:H$="Nombre de particules d'u >AB
n corps":Y=3:M=40:GOSUB 4110
4660 LOCATE 8,8:PRINT"Formule :" >DN
4670 LOCATE 18,8:PRINT "N = ":LOCATE 22,7:PRINT NN$;" . >DP
n(x)":LOCATE 8,9:PRINT STRING$(22,154)
4680 LOCATE 11,11:PRINT NN$;"= 6.02*10 mol" >MN
4690 LOCATE 22,11:PRINT"23 -1" >ZV
4700 LOCATE 12,14:PRINT"(ou 6.02*1E+24)" >HM
4710 LOCATE 5,18:INPUT"Entrez la valeur de n(x):",rep >GF
4720 resultat=6.02*1E+24*rep >XC
4730 LOCATE 11,21:PRINT " N =";ROUND(resultat,2) >UC
4740 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une t >PG
ouche >>> ";CHR$(24)
4750 CALL &BB06:GOTO 4180 >TG
4760 '*** Masse d'un corps *** >YK
4770 WHILE INKEY$<>"":WEND >VA
4780 MODE 1:CLS:GOSUB 1100:H$="Masse d'un corps":Y=3:M= >XC
40:GOSUB 4110
4790 LOCATE 8,8:PRINT"Formule :" >DT
4800 LOCATE 18,8:PRINT "m(x) = n(x) . M(x)" >MN
4810 LOCATE 8,9:PRINT STRING$(28,154) >FP
4820 LOCATE 5,12:INPUT"Entrez la valeur de n(x):",n >DX
4830 LOCATE 5,15:INPUT"Entrez la valeur de M(x):",M >DP
4840 resultat=n*M >NW
4850 LOCATE 13,20:PRINT"m(x) =";ROUND(resultat,2) >WL
4860 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une t >XH
ouche >>> ";CHR$(24):CALL &BB06:GOTO 4180
4870 '*** Volume molaire d'un gaz *** >ZB
4880 WHILE INKEY$<>"":WEND >VC
4890 MODE 1:CLS:GOSUB 1100:H$="Volume molaire d'un corp >PC
s":Y=3:M=40:GOSUB 4110
4900 LOCATE 8,8:PRINT"Formule :" >DK
4910 LOCATE 18,8:PRINT "Vm(x) =":LOCATE 25,7:PRINT NN$; >JF
". V(x)":LOCATE 8,9:PRINT STRING$(25,154)
4920 LOCATE 11,11:PRINT NN$;"= 6.02*10 mol" >MK
4930 LOCATE 22,11:PRINT"23 -1" >ZR
4940 LOCATE 12,14:PRINT"(ou 6.02*1E+24)" >HU
4950 LOCATE 5,18:INPUT"Entrez la valeur de V(x):",rep >GL
4960 resultat=6.02*1E+24*rep >XJ
4970 LOCATE 8,21:PRINT " Vm(x) =";ROUND(resultat,2) >YN
4980 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une >XL
touche >>> ";CHR$(24):CALL &BB06:GOTO 4180
4990 '*** nombre de moles *** >ZE
5000 WHILE INKEY$<>"":WEND >VL
5010 MODE 1:CLS:GOSUB 1100:H$="Nombre de moles ":Y=3:M= >XB
40:GOSUB 4110
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5020 LOCATE 9,10:PRINT"Solide,Liquide ou Gaz ?":LOCATE >KK
16,11:PRINT"(S/L/G)"
5030 z$=INKEY$ >YH
5040 IF z$="S" OR z$="s" THEN GOSUB 1180:GOTO 5080 >QB
5050 IF z$="L" OR z$="l" THEN GOSUB 1180:GOTO 5170 >QM
5060 IF z$="G" OR z$="g" THEN GOSUB 1180:GOTO 5200 >QW
5070 GOTO 5030 >MH
5080 '*** Nombre de moles d'un solide *** >YF
5090 MODE 1:CLS:GOSUB 1400:H$="Nombre de moles d'un sol >RE
ide":Y=3:M=40:GOSUB 4110
5100 LOCATE 8,8:PRINT"Formule : " >DC
5110 LOCATE 18,8:PRINT "n(x) =":LOCATE 24,8:PRINT STRIN >TF
6$(6,154):LOCATE 24,7:PRINT " m(x)":LOCATE 24,9:PRINT "
M(x)"
5120 LOCATE 5,12:INPUT"Entrez la valeur de m(x):",h >DH
5130 LOCATE 5,15:INPUT"Entrez la valeur de M(x):",k >DF
5140 resultat=h/k >NL
5150 LOCATE 13,20:PRINT"n(x) =":ROUND(resultat,2) >WF
5160 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une t >XB
ouche >>> ";CHR$(24):CALL &BB06:GOTO 4180
5170 '*** Nombre de moles d'un liquide *** >YF
5180 MODE 1:CLS:GOSUB 1100:H$="Nombre de moles d'un liq >UR
uide":Y=3:M=40:GOSUB 4110
5190 GOTO 5100 >MJ
5200 '*** Nombre de moles d'un gaz *** >XK
5210 MODE 1:CLS:GOSUB 1100:H$="Nombre de moles d'un gaz >LV
":Y=3:M=40:GOSUB 4110
5220 LOCATE 8,8:PRINT"Formule : " >DF
5230 LOCATE 18,8:PRINT "n(x) =":LOCATE 24,8:PRINT STRIN >UA
6$(6,154):LOCATE 24,7:PRINT " Vm(x)":LOCATE 24,9:PRINT "
Vm(x)"
5240 LOCATE 5,12:INPUT"Entrez la valeur de m(x):",p >DV
5250 LOCATE 5,15:INPUT"Entrez la valeur de Vm(x):",r >FJ
5260 resultat=p/r >NF
5270 LOCATE 13,20:PRINT"n(x) =":ROUND(resultat,2) >WJ
5280 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une t >XE
ouche >>> ";CHR$(24):CALL &BB06:GOTO 4180
5290 '*** Legende *** >YJ
5300 CLS:MODE 1:GOSUB 1100:H$="** Legende ***":Y=3:M=40: >PW
GOSUB 4110
5310 LOCATE 5,7:PRINT"m = masse d'un corps." >UV
5320 LOCATE 5,9:PRINT"V = volume d'un gaz." >TY
5330 LOCATE 5,11:PRINT"n = nbre de moles." >QQ
5340 LOCATE 5,13:PRINT"Vm = volume molaire d'un corps." >LG
5350 LOCATE 5,14:PRINT NN$;" = nbre d'AVOGADRO." >VP
5360 LOCATE 5,17:PRINT "N = nbre de particules." >ZE
5370 LOCATE 5,19:PRINT "M = masse molaire atom. d'un co >TU
rps."
5380 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une >PH
touche >>> ";CHR$(24)
5390 CALL &BB06:GOTO 4180 >TH
5400 RETURN >FC

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