

Micro
Informatique
Standards AMSTRAD

HORS SERIE

LISTINGS

CPC

**SPECIAL
JEUX**



M 2604 - 11 - 15,00 F-RD



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EDITO

Le 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...



CPC est une publication du groupe de presse FAUREZ-MELLETT

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Editions SORACOM

La Haie de Pen - 35170 BRUZ

RCS Rennes B319 816 302

CCP Rennes 794.17V

Tél. 99.52.98.11 +

Télécopie 99.52.78.57

Serveur 3615 MHz

Terminal NMPP E83

Régie publicitaire

IZARD CREATION - 15, rue St Melaine

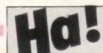
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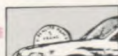
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Dépôt légal à parution
Distribué en Suisse par :
SEMAPHORE - Tél. 022.54.11.95

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CPC est une revue mensuelle totalement indépendante d'AMSTRAD GB et d'AMSTRAD FRANCE.

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ULCINOR

Prisonnier 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.

```
10 CLEAR:DEFINT A-Z:GOSUB 200:INK 0,0:INK 1,15:INK 2,6: >JR
   3,2:PAPER 0:PEN 1: BORDER 0:GOSUB 1660:GOSUB 1870:MD
   1:VIE:=4:P=5:C=0:F6=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$="00001101111001111011011011011000011100101101000
   00100001010000001110011110111101":T1$="0000011111011011
   111000111100010110100110100100000100001101011
   11100111":P$="000000-101-1010001010001-101-100-1-1"
   30 RESTORE 40:FOR H=1 TO 6:READ A,B,C,D,E:WINDOW #H,A,B >YC
   ,C,D:PAPER #H,E:CLS #H:NEXT:PEN #1,0
   40 DATA 25,20,2,3,25,2,24,22,3,39,27,17,4,3,39,27,24, >JB
   50,0,27,39,22,19,2,39,27,2,2,0
   50 GOTO 510 >RK
   60 ' >LF
   70 IF INKEY(1)=0 THEN SOUND 1,300,5,15:P=P+1-B*INT(P/B) >NZ
   :LOCATE #1,X,Y:PRINT #1,D$(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,D$(P)
   90 IF INKEY(0)=0 THEN 100 ELSE 110 >ZF
   100 KL$=MID$(P$,P*4+1,4):LM=VAL(MID$(KL$,1,2)):KM=VAL(M >RC
   IDS(KL$,3,2))
   110 IF DIF=1 AND INKEY(2)=0 THEN LM=0:KM=0:GOTO 140 >UC
   120 IF INKEY(47)=0 THEN CLS #2:LOCATE #2,2,2:PRINT #2, >MJ
   (16,0):(14,8):(13,9) (5,12):(20,27):(16,15) (1,14)
   :(11,21):(15,20)*:WHILE INKEY$(C)**:MEND: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
```



F a b r i c e • F U Z E A U

```
200 RESTORE 240:DIM O$(8):SYMBOL AFTER 128:FOR I=160 TO >XP
   233:READ C1,C2,C3,C4,C5,C6,C7,C8:SYMBOL I,C1,C2,C3,C4,
   C5,C6,C7,C8:NEXT
   210 Y$=CHR$(128):K=1:FOR B=160 TO 191 STEP 4:D$(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:D$(1)=CHR$(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
   1,25,17,17,0,0,0,0,0,252,204,196,176,0,0,0,0
   250 DATA 0,0,16,60,103,3,1,3,0,0,4,24,120,208,176,224,7 >MG
   ,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 0,0,0,0,0,35,35,51,63,0,0,0,0,136,136,152,240,30 >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 0,0,0,0,1,3,7,15,60,0,0,240,192,128,128,240,240, >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 >MK
   ,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, >VW
   0,0,0,0,0,0,0,0,2,1
   340 DATA 0,0,0,0,0,0,0,64,128,2,2,0,0,0,0,0,64,128,0,0, >YY
   0,0,0,0,0,0,0,0,0,2,1,6
   350 DATA 0,0,0,0,0,160,64,64,5,5,2,0,0,0,0,192,64,32, >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
```




```

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 1,1,15,15,1,1,1,1,128,128,240,240,128,128, >GJ
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 >GE
,255,31,3
430 DATA 0,0,0,1,14,24,49,34,98,68,76,72,72,6,68,96,0, >GG
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 1,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$(C,D):NEXT
520 DATA 1,1,40,154,1,25,40,154,1,21,25,154,26,18,14,15 >DE
4,26,23,14,154,26,3,14,154
530 FOR I=1 TO 25:LOCATE 1,1:PRINT L$: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 7,14,5,14,5,3,1,5,5,14,5,14,14,3,19,5,5,5 >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
3,4,1,10,6,6,6,6
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 >JD
,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 R,0:PLOT R,0,8:PLOT R,-8,0 >MF
:PLOT R,0,-8:DRAW R,0,8:GOSUB 930:PLOT R,0,8:DRAW R,0,8*
CD:GOSUB 930:DRAW R,8*CB,0:GOSUB 930:PLOT R,0,8:DRAW R,8*
H,0:GOSUB 930:PLOT R,2,2,CM:DRAW R,4,0:PLOT R,0,2:DRAW R-4
,0:PLOT R,0,2:DRAW R,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 M$=MID$(T$,L(J,I)*4+1,4):MD=VAL(MID$(M$,1,1)):MG>YL
=VAL(MID$(M$,2,1)):MH=VAL(MID$(M$,3,1)):MB=VAL(MID$(M
1$,4,1))
990 GOSUB 60 >CC
1000 IF L(J,I)>15 THEN GOSUB 1450:GOTO 1050 >JH
1010 IF P(X,Y)=1 THEN 1400 >TF
1020 IF P(X,Y+1)=1 THEN 1400 >UD
1030 IF P(X+1,Y+1)=1 THEN 1400 >WX
1040 IF P(X+1,Y)=1 THEN 1400 >UF
1050 IF MD=1 THEN GOSUB 1180 ELSE IF Y=23 THEN C=1:GOSU >YZ
B 910:J=J+1:GOTO 1260
1060 IF MB=1 THEN GOSUB 1160 ELSE IF X=1 THEN C=1:GOSUB >XC
910:J=J+1:GOTO 1260
1070 IF MH=1 THEN GOSUB 1200 ELSE IF Y=1 THEN C=1:GOSUB >ME
910:I=I+1:GOTO 1260
1080 IF MB=1 THEN GOSUB 1220 ELSE IF Y=18 THEN C=1:GOSU >YA
B 910:I=I+1:GOTO 1260
1090 IF FB=0 THEN 1400 >PE
1100 GOTO 980 >FE
1110 ' >XF
1120 CLS#1:GOSUB 1140:LOCATE #1,1,1:PRINT #1,STRING$(24
>CH,227):LOCATE #1,1,19:PRINT #1,STRING$(24>CB,226):F
OR FBH=1 TO 19:LOCATE #1,1,FBH:PRINT #1,CHR$(228>CG):N
EXT:FOR FBH=1 TO 19:LOCATE #1,24,FBH: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 >ME
,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 >EX
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 >B6
1310 LOCATE #5,1,1:PRINT #5,"ENERGIE ";>UM
FG:RETURN
1320 ' >XJ
1330 FOR TI=0 TO 4:P(XPO(TI),YPO(TI))=0:NEXT:P(3,3)=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,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 D(I)=0 THEN GOSUB 1470 >WA
1460 RETURN >FE
1470 P(20,6)=2:LOCATE #1,20,6:PRINT #1,CHR$(252) >PN
1480 IF P(X,Y)=2 THEN GOSUB 1530 >YJ
1490 IF P(X,Y+1)=2 THEN GOSUB 1530 >AJ
1500 IF P(X+1,Y+1)=2 THEN GOSUB 1530 >EM
1510 IF P(X+1,Y)=2 THEN GOSUB 1530 >AB
1520 RETURN >FB
1530 D(I)=1 >QF
1540 LOCATE #5,3,2:PRINT #5,CHR$(230>D(0)):CHR$(232>D(0 >AG
))
1550 LOCATE #5,3,3:PRINT #5,CHR$(231>D(0)):CHR$(233>D(0 >AD
))
1560 LOCATE #5,3,4:PRINT #5,CHR$(246>D(0)):CHR$(247>D(0 >AV
))
1570 LOCATE #5,5,3:PRINT #5,CHR$(235>D(0)): >XK
1580 LOCATE #5,6,3:PRINT #5,CHR$(237>D(0)): >KM
1590 LOCATE #5,7,3:PRINT #5,CHR$(239>D(0)): >XK
1600 LOCATE #5,7,4:PRINT #5,CHR$(250>D(0)): >KF
1610 LOCATE #5,8,4:PRINT #5,CHR$(251>D(0)): >KF
1620 LOCATE #5,8,3:PRINT #5,CHR$(245>D(0)): >XK
1630 OB=OB+1:GOSUB 1640:SOUND 1,200,10:FOR I1=1 TO 500: >LB
INK 0,10:NEXT:INK 0,0:RETURN
1640 LOCATE #2,2,2:PRINT #2,"NOMBRE DE SEGMENTS";OB:RET >BZ
URN
1650 ' PRESENTATION >YE
1660 MODE 20,12:A$="VOULEZ VOUS LES REGLES DE >YU
CE JEU GENIAL ? (O/N)":GOSUB 1850
1670 D$=UPPER$(INKEY$) >RU
1680 IF D$="O" THEN 1710 >QS
1690 IF D$="N" THEN RETURN >UP
1700 GOTO 1670 >XJ
1710 FOR L=1 TO 10:SOUND 3,600,6,6:SOUND 5,500,8,8:SOUN >XC
D 5,400,10,10:SOUND 5,300,12,12:NEXT
1720 MODE 2 >FG
1730 LOCATE 1,6:A$="Vous devez recolter 9 segments qui >GC

```



```

fermeront une cle qui vous permettra de "GOSUB 2080
1740 PRINT:AS="sortir du labyrinthe qui vous est proposé >LU
e.":GOSUB 2080
1750 PRINT:AS="Les tetes de mort sont mortelles,et au n >KF
iveau 2 vous ne pouvez pas vous arreter.":GOSUB 2080
1760 PRINT:AS=" Voici le manieement du vaisseau ":GOSUB >LV
B 2080:PRINT:AS=" - Les touches droites et gauches du c
urseur font tourner le vaisseau":GOSUB 2080
1770 PRINT:AS=" - La touche p sert a faire avancer le v >DX
aisseau dans le sens ou il est oriente":GOSUB 2080
1780 PRINT:AS=" - La touche q sert a faire arreter le v >PR
aisseau en niveau 1":GOSUB 2080
1790 PRINT:AS=" - La barre d'espace sert a avoir les co >QC
ordonnees des objets":GOSUB 2080
1800 PRINT:AS="Pour stopper la musique lorsque vous ave >HB
z gagne ou perdu (helas ce genre de chose arrive),
appuyer sur SPACE":GOSUB 2080
1810 LOCATE 25,23:AS="B D N N E C H A N C E ! ! ! ":G >GF
OSUB 1850
1820 LOCATE 27,25:AS="< APPUYEZ SUR ESPACE >":GOSUB 18 >DT
50
1830 GOSUB 2160 >XD
1840 RETURN >FG
1850 FOR I=1 TO LEN(AS):PRINT MID$(AS,I,1):CHR$(143):CH >XT
R$(8):IF MID$(AS,I,1) < " " THEN SOUND 1,50,2,15,,20
1860 FOR A=1 TO 20:NEXT:PRINT " ":RETURN >QD
1870 MODE 2:LOCATE 30,10:AS="NIVEAU (1-2)":GOSUB 1850 >WU
1880 OS=INKEY$ >YF
1890 IF OS="1" THEN DIF=1:RETURN >ZW
1900 IF OS="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 2000:TT=2:NM=3:GOTO 1960 >ZF
1960 READ N1,T1:T1=T1+TT:N1=N1+NM >CJ
1970 IF INKEY(47)=0 THEN BORDER 26:RUN >FU
1980 IF N1<0 THEN 2010 >ND
1990 SOUND 1,N1,T1,10:SOUND 2,N1+0.5,T1,14:SOUND 4,N1+0 >XF
.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
,10,71,20,80,20,80,20,80,10,60,10,60,10,60,10,95,10,95,10,80,
10,106,60,71,10,71,10,71,30,89,10,71,10,63,10
2030 DATA 10,10,53,10,60,10,80,10,60,10,45,10,47,20,80, >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 AS:FOR I=1 TO 100:NEXT:SOUND 1,80,10,15,0,1 KEY
,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
,201,159,134,105,142,142,142,35,134,134,134,35,119,119,
189,35,106,106,106,35,100,100,100,35,179,134,89,210,89,
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 201,134,134,35,142,142,142,35,134,134,134,35 >GBR
,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
34,106,200,159,159,159,35,100,100,100,35,106,106,106,35
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
,134,106,200,119,119,119,35,134,134,134,35,159,134,134,
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,-1-1

```

MOSTSCODE

J e a n • D I • S T E F A N O



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

- Le programme est composé de deux parties :
- **CRÉATION.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

RÈGLES 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. À 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

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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
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 entrerez 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, B, 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" débutera le jeu.

CREATION.BAS

```
10 GOTO 130
20 e=FNd:i=i+1
30 IF FN1<>0 THEN j=j+1:e=FNd:GOT 130
```



```

0 30
40 f="MFSR":RETURN >PU
50 MOVE m,n:FOR i=1 TO 1:READ d:FOR >YJ
j=1 TO LEN(d):i=FNI
60 IF i=3 THEN k=k+1:m(k)=XPOS:n(k) >UZ
=yPOS:GOTO 120
70 IF i=4 THEN MOVE m(k),n(k):k=k-1 >LP
:GOTO 120
80 IF 1<0 THEN j=j+1 >NA
90 GOSUB 20:m=VAL(e):IF i=2 THEN FI >QQ
LL m:GOTO 120
100 j=i+1:GOSUB 20:n=VAL(e):IF i=1 >JF
THEN MOVER m*16,n*16:GOTO 120
110 DRAWM m*16,n*16,1 >PG
120 NEXT:RETURN >RV
130 DEFSTR d=d:DEFINT i=n:DIM m(27) >CT
140 DEF FND=MID$(d,j,1):DEF FNI=INS >NK
TR(i,FND)
150 MOVE 0,48,1:DRAWR 639,0: >VQ
DRAWR 0,303:DRAWR -639,0:DRAWR 0,-3
03
160 m=96:n=206:l=4:GOSUB 50:m=54:n= >VL
64:l=6:GOSUB 50
170 SAVE"image.bin",b,&C000,&4000 >DN
180 CLS:LOCATE 6,12:PRINT"SAUVEGARD >NK
E FICHIER EN COURS">CHR$(7)
190 N(1)=62:N(2)=92:N(3)=92:f="ABC >KA
DEFB1J1KLMNOPQRSTUVWXYZ
200 FOR i=1 TO 27:READ m(i):NEXT:OP >DL
ENOUT"musique.fic"
210 FOR i=1 TO 3:WRITE#9,n(i):FOR m >XJ
j=1 TO 4:READ d:j=0:FOR k=1 TO n(i):
j=j+1
220 e=FND:IF FNI=0 THEN n=VAL(e)-1: >HE
j=j+1:FOR i=1 TO n:WRITE#9,m(FNI):k
=k+1:NEXT
230 WRITE#9,m(FNI):NEXT:NEXT:NEXT:C >QA
:LOSEOUT
240 FOR i=1 TO 10:LOCATE 5,12:PRINT >YT
"SAUVEGARD GRILLE No":i;"EN COURS"
250 OPENOUT"grille"+MID$(STR$(i),2) >QL
+".fic":READ m,n:WRITE#9,m,n
260 FOR k=1 TO n:READ d:FOR j=1 TO >NB
m=e:FND:WRITE#9,ASC(e)-64:NEXT:NEXT
270 READ m:WRITE#9,m:IF M<-1 THEN >FX
READ e:WRITE#9,e:GOTO 270
280 READ e:WRITE#9,e:CLOSEOUT:NEXT >FE
290 CLS:LOCATE 6,12:PRINT"SAUVEGARD >LM
E FICHIER TERMINES":END
300 DATA -1107102-2S1022101-10-1223 >FR
03-30-3-2-2-30-33SM1-ISM2003011100-
3-1-1-10M-310-3-205-1102-10-110-4-2
0SMOIF3
310 DATA R0710R04-1-IR1-1101103-11R >NP
032230M0-1F2R03R1-1102210M-1-1F2
320 DATA M9002601-111402-20-1-10-11 >EA
-10-1-1S202-20-2-1-1-40-2201101-1S1

```

```

011-20-115-11-105-110-4S1-10-1-40S-
11011003-105-11M10F3
330 DATA R02600-2R011005-100-1R0-11 >PL
0R01-10M-10F2R021140RS-100-1R1-1101
1-1-1R1-120M-1F2
340 DATA -225-110322402-222303-30-3 >RJ
-2-2-30-33M1-ISM200311100-3-1-1-10S
M-3102S-10-11-20-1-10-3S2011101-10-
1-1-1-40M01F3
350 DATA R1201110R01R1-111103-11 >FL
R032230M0-1F2R032240M0-1F2
360 DATA M9101503-30-3-2-2-505-1101 >HC
1004-11M4-1100-3-1-1S04M-10F3
370 DATA R0-1101103-11R011005-10015 >HX
0M0-1F2
380 DATA M2101701-111402-20-1-10-11 >QL
-10-1-1S202-20-2-1-1-40-2201101-1S1
011-20-115-11-105-11-101-150-2101-1
0-2-70S-11011004-11M5-40-15-11S10M0
1F3
390 DATA R0-2300110R10011011005-100 >VU
1700-2R-100-1-100210R01-10M-30F2R02
1140RS-100-1R1-11011-11R1-120M-1F2
400 DATA 0,1,12,30,60,84,95,106,119 >VV
,127,142,159,190,213,239,253,284,31
9,338,379,402,426,478,506,568,638,6
76
410 DATA MKJMKJ12H214JM1JH1JH262H >UE
41ZF2F262K26H41J1J1G1K1K2J2KJ
420 DATA DCCDCDCDCDCDCDCDCDCDCDCDC >CQ
DCDCDCDCDCDCDCDCDCDCDCDCDCDCDCDC
C
430 DATA 9B9B9B9B9B9B8B,3A8A8A7A8A3A >QK
83A87A2A8A3A2A8A3A2A8A3A8A5A
440 DATA Y20U20Y20U20X2N20U2UP2R2 >GL
NU2NR2NU2NM2Q21NY20Y20V20X2NM2Q520X
2P12P2W2R2RU2P2W2QV2QV2Q2Q2N20
450 DATA 9C9C9C9C9C9C9C9C9C9C,9B9 >GE
9B9B9B9B9B9B9B9B8B,9B9B9B9B9B9B9B9
8B9B9B8A
460 DATA D9Q3Q3R6R3P3R3P3R3U3R9Q3 >KK
R3U3Q6S6T6R3U6S6R2Q,9C9C9C9C9C9C9C
C9C9C9C
470 DATA 2B2B2B2B2B2B2B2B2B2B2B2B >RH
2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B
2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B
2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B
480 DATA A2A2A2A2A2A2A2A2A2A2A2A2 >VB
8A2B2A2A2A2A2A2A2A2A2A2A2A2A2A2A2A
2A2A2A2A2A2A2A2A2A2A2A2A2A2A2A2A2A
490 DATA 15,23,8A8B8A8A8A8A8A8A,NS1 >PV
Q1EC8B8X8N8K,8S8T8A8E8E8E8E8E,TEHAF8
FEVVECCP
500 DATA 8Q8CH8A8L8V8P8,8BLEP8TEP8 >EN
DDIDC,8Q8E8E8E8E8E8E8E,VEDVC8AMEPAT
E10
510 DATA 8Q8N8E8E8E8A8C8,EJ1C8ABCD >EM
8EMN1,8Q8U8J8B88E8E,UNB8D88K8LM

```

```

EH
520 DATA @U888888888888888888888888 >EH
8YIWE,8V8N8E8E8E8E8E8E8E8E8E8E8E8E
ME
530 DATA @888888888888888888888888 >EF
8DB1S,8I8E8E8E8E8E8E8E8E8E8E8E8E8E
EH
540 DATA @8E8E8E8E8E8E8E8E8E8E8E8E >GN
TIGCE,8E8E8E8E8E8E8E8E8E8E8E8E8E8E
550 DATA 1,A,2,T,3,L,4,5,-1,ATLSEZB >DA
R1XYHMOU8CQF8KPDWVJ
560 DATA 10,23,ABCD8E8C8S,8E8F8A8C8 >YX
8,8J8P8F8D8J,8K8H8E8F8E8D,8G8I8E8H8J
570 DATA 8E8F8E8G8E8H,8N8E8D8J8G8, >HR
F8E8E8G,8C8D8E8U8F8I,8D8E8F8E8E8E,8L8J8F8O
DL8J
580 DATA 8E8K8E8C8A8,8Q8F8E8V8G8,8Q8E >JV
8E8E8E,8L8J8W8F8G8L,8E8D8E8E8E8C,8XL8N8
YFFJ
590 DATA 8J8L8C8Q8E8,8ZF8K8Z8D8F,8E8B >HF
88E8E8I,8UL8PJ8R8M8F,8J8E8F8E8H,8D8E8L
NEEF
600 DATA 1,P,2,H,3,0,4,T,-1,PHOTREU >DD
VLNCB8ASMDK8XFQJZWY
610 DATA 10,23,ABCD8E8P8J,8E8E8E8E8 >YR
8,F8J8C8I8K8L,8D8E8A8A8Q8E,8H8N8J8C8H
620 DATA 8E8E8E8E8E8E,8M1R8CIG8I,8E8E >JM
I8E8E8F,8LS18I8OP8I,8L8E8E8E8E8E,8UIT8R8
NEXT
630 DATA 8E8F8E8E8E8E,8L8R8E8M8IL8,8Q8E >JF
8E8F8E8E,8I8H8W8I8T,8E8E8E8E8E,8ZF8H8
PV8I
640 DATA 8W8F8E8H8E8E,8Z8E8F8D8UB,8Q8E >JZ
8L8U8A8E,8YV8CP8X8I8L8,8F8B8B8K8E8I,8E8B8E
H8BF
650 DATA 1,P,2,0,3,L,4,K,5,A,-1,POL >HN
KARTSEY8M8V8X8IC8Z8D8W8F8J
660 DATA 10,23,ABCD8E8S8F,8E8E8E8E8 >YD
8,F8H8I8E8H8F,8G8F8E8G8F8E,8ET8D8F8G8F
670 DATA 8E8D8A8E8E8E,8K8E8H8AF8E,8E8E >HQ
J8E8E8E,8H8E8E8A8D8E,8N8E8C8E8E8E,8H8V8UB
MO8E
680 DATA 8E8D8F8E8S8E,8J8H8E8A8JB8,8F8E >HM
8H8E8L8E,8W8E8E8E8E8A,8J8M8E8E8E8E,8Y8L8HA
FE8J
690 DATA 8T8F8A8E8E8E,8P8I8N8E8A8J,8M8Z >HY
8J8J8D,8F8M8D8A8E8J,8A8R8E8Y8M8O,8Z8E8E
YE8F
700 DATA 1,T,2,0,3,Q,4,U,5,E,-1,TOQ >HJ
U8I8N8F8C8L8M8K8Z8D8X8H8F8V8J
710 DATA 15,23,8E8E8E8E8E8E8E8E8E8E >NR
F8H8D8E8G8D8Z,8J8E8E8E8E8E8E8E8E8E8E
M8N8B8J8E
M8N8G8J8D
720 DATA 8E8F8E8E8E8E8E8E8E8E8E8E >EV
8F8D8H,8L8E8E8E8E8E8E8E8E8E8E8E8E8E
8F8H
730 DATA 8L8I8E8E8E8E8E8E8E8E8E8E >EE

```

```

@JIK, @eeC@e@e@e@e, @XBXFDH@CFBG
FH
740 DATA @Jee@e@e@e@e@e, @R@P@e@J@F >JP
@QBK, @e@e@e@e@e@e@e, @P@I@W@P@e@S@J@L
TH
750 DATA @e@e@e@e@e@e@e, @D@F@K@F@e@P@V >FK
@F@L@H, @e@e@e@e@e@e@e, @N@I@G@M@e@H@G@
FJ
760 DATA @e@e@e@e@e@e@e, @T@B@H@H@e@B@L >GC
@D@F@L, @e@e@e@e@e@e@e@e
770 DATA 1,4,2,3,4,3,4,2,4,4,-1, @B@Z@J@I@N >DZ
@D@L@K@S@T@H@P@C@M@Y@V@X@D
780 DATA 10,23, @A@B@D@e@e@H@F, @e@e@e@e@e@e >YR
@E, @D@I@F@D@G@F, @F@e@e@e@e@e, @F@P@A@K@e@A@N
790 DATA @e@e@e@e@e@e, @F@M@J@B@D@F@F, @e@e@e >JC
@J@e@e@H, @K@P@S@N@D@G@F, @A@J@e@e@e@e, @P@J@K@V
K@F@F
800 DATA @e@e@e@e@e@e@e, @N@G@K@F@e@Y@N, @F@e@e >JU
@U@e@e@e, @K@D@F@e@G@M@F, @T@e@S@e@e@e@N, @W@I@P@
D@K@F
810 DATA @e@e@e@e@e@e, @Z@K@F@Y@P@Y@F, @F@e@e >JB
@V@e@D@Z, @A@B@J@F@G@T@F, @A@D@e@J@e@J@, @W@F@J@M
K@F@F
820 DATA 1,1,2,0,3,4,4,-1, @L@O@V@e@S >DB
@D@N@K@T@U@S@I@H@P@M@J@Z@B
830 DATA 15,23, @e@e@e@e@e@e@e@e@e@e, @I@P@C >PX
@F@I@e@e@e@I@X, @e@e@e@e@e@e@e@e@e, @N@D@G@H@I@
H@D@G@I@P@X
840 DATA @F@e@e@e@e@e@e@e, @H@D@F@A@I@G@e >EM
@V@I@G, @e@e@e@e@e@e@e@e@e, @L@B@G@I@G@M@J@I@G
F@I
850 DATA @H@e@e@e@e@e@e@e@e, @K@I@J@e@A@B@C@D@E >EQ
@e@G@D@N, @e@e@e@e@e@e@e@e@e, @N@D@A@F@A@K@F@V@V
F@B
860 DATA @e@e@e@e@e@e@e@e, @L@P@A@H@G@I@N@A >FU
@e@D@G@Z, @L@e@e@e@e@e@e@e@e, @Q@S@R@T@P@I@e@H@F@J
J@I
870 DATA @e@e@e@e@e@e@e@e@e, @Q@D@A@I@e@M@F@V >FB
@D@M@R@R, @J@e@U@e@S@e@V@e@e@e, @J@J@B@I@F@V@I@N@P
A@I
880 DATA @e@e@e@e@e@e@e@e@e, @F@A@D@I@e@U@G@F >GH
@N@D@R@I@G, @e@I@e@I@e@I@e@e@e@e
890 DATA 1,5,2,4,3,4,4,0,5,N,-1, @S@A@V >HM
@N@I@R@G@F@J@B@H@U@M@T@Y@Q@L@K@Z@D
900 DATA 14,17, @J@e@J@e@e@F@e@e@e@e, @I@J@K@G >SL
@T@F@e@e@e@F, @A@B@C@D@e@K@H@M@J@e, @L@e@e@e@e@M@C
K@K@F
910 DATA @T@e@G@e@L@e@P@e@I@e, @J@A@Q@L@H@J@O@T@R >ZB
@C@F, @S@B@C@N@J@P@e@L@D@e@B, @K@e@F@O@T@e@e@B@P
920 DATA @O@S@e@A@B@H@D@e@F@e, @e@F@M@J@S@J@L@e >AT
@P@e@D, @L@e@D@I@B@K@e@O@A@e@T, @F@e@D@J@P@e@D@J@P
930 DATA @L@e@T@P@e@F@B@L@G@L, @A@B@C@A@Q@I@e@K@e >AQ
@L@J@O, @e@e@e@e@e@e@e@e@e, @O@T@N@P@e@O@J@e@L@P@e
940 DATA @e@e@F@e@F@B@K@J@F, 1,C,2,0,3,4,U >VM
4,P,5,E,-1, @C@O@P@e@D@I@V@A@L@B@G@T@H@Q@I@Z
950 DATA 15,15, @F@B@F@I@J@K@e@K@H@C@D, @L@M@F >NP
@K@F@N@L@D@e@C@e@B, @H@O@C@B@e@C@G@D@B@K@e@F, @C@K@J@K@e

```

```

DKMK@CHK
960 DATA @B@e@G@F@D@K@A@B@C@D, @P@K@B@D@F@H@e@ >EL
@F@e@G@K, @A@e@D@K@G@K@F@M@K@B@G, @K@O@C@e@J@A@K@e@C@e
J@e
970 DATA @F@J@J@e@D@L@C@K@e@R, @A@D@e@L@N@D@K@H >FW
@H@K@F@C, @D@R@L@K@e@L@e@D@F@B@S, @K@H@e@F@N@H@K@G@e@D
K@F
980 DATA @A@K@e@D@K@P@K@D@K@e@D, @C@I@e@F@C@H@e@ >GD
@G@F@G@D, @B@K@J@e@G@C@B@K@e@G@K
990 DATA 1,4,2,N,3,1,4,R,-1, @U@N@I@R@C@A@T >UG
@L@Y@S@e@D@V@M@P@S@D@Z
1000 DATA 14,17, @e@e@e@e@e@e@e@e@e@e, @C@H@I@J >HF
@B@K@J@e@J@M@F@K, @J@U@N@J@e@C@D@L@H@J@e@J, @B@N@K@L@e@J@F
A@J@e@L
1010 DATA @H@F@A@H@F@e@K@J@M@e, @Q@e@J@e@A@J@e@R >AB
@A@B@C, @L@B@B@e@G@J@K@L@e@N@K, @J@H@J@F@F@e@C@N@J@A
1020 DATA @H@L@e@A@A@R@K@F@J@e@J, @L@J@A@A@J@e@L@A >AT
@K@A@J, @e@G@R@H@L@J@A@e@R@e, @G@K@F@J@e@A@H@J@e@G@C
1030 DATA @e@e@e@e@e@e@e@e@e@e, @P@L@e@R@F@e@A@J >AG
J@H@J, @e@e@C@K@A@J@e@K@N@e@A, @C@G@K@A@J@F@e@C@N@J@A
1040 DATA @J@F@A@e@N@J@e@A@H@J, 1,S,2,F,3, >HQ
A,-1, @S@A@D@R@T@U@B@e@I@N@L@V@C@G@e

```

MOIS CODE BAS

```

10 GOTO 290 >TA
20 PLOT 0,385:GOTO 50 >PW
30 a:=432: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+STR$(h):w:=n:n=u+RIG >WD
HT$(STR$(h),2)
70 q="" "s=n" >BA
80 b=3:IF ASC(n)>64 THEN b=1 >VB
90 FOR i=0 TO 1-1:FOR j=0 TO k-1:IF >YN
c(j+1,i+1)>h THEN 120
100 IF h>9 THEN x="" "":GOSUB 30 >XL
110 x=n:GOSUB 30 >LK
120 NEXT:NEXT:c=h:a=550:IF h>13 THEN >TN
N=c-13:a=614
130 x=s:PLOT a,222-c*16,1:GOSUB 50 >BK
140 a=274-INST(r,t,h):LOCATE a,1:1 >ET
F a>40 THEN LOCATE a-13,2
150 PRINT q:RETURN >PA
160 FOR i=0 TO 1:MOVE 0,369-i*16:DR >NT
AMR k*32,0,1
170 IF i<5 THEN MOVE 510+i*32,0:DR >JL
WR 0,208
180 IF i<14 THEN MOVE 510,i*16:DR >HD
R 128,0
190 IF i<k+1 THEN MOVE i*32,369-1*i >QC
6:DRAW 0,i*16
200 NEXT:z:=FRE(""):RETURN >WD
210 PRINT CHR$(7):x="APPUYER SUR UN >BC
E TOUCHE"CHR$(7) 20

```

```

220 CALL @B@B@e@G@O@T@ 260 >QB
230 PRINT#1,y+"" @E@J@A@ CHOISI"x:=VOU >UV
LEZ-VOUS MODIFIER 0/N":GOSUB 20
240 o=UPPER$(INKEY$):IF o=""OR INST >ZX
R("DN"),o)=0 THEN 240
250 IF o="0" THEN e=1 >NG
260 CLS#1:=STRING$(27,32):GOSUB 20 >MF
:RETURN
270 v=FN(x,v,STR$(h)):w=FN(x,w,t(h)): >LY
u=FN(x,u,RIGHT$(STR$(h),2))
280 n=MID$(STR$(h),2):s="" "t=q: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$(x,INST(x,y) >QP
-1)+MID$(x,INST(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",@D@O@O >CX
350 LOCATE 2,2:PRINT CHR$(164)+@D >ZF
STEFANO Jean Franck NOVEMBRE 1987"
360 LOCATE 2,24:PRINT"APPUYER SUR U >ME
NE TOUCHE POUR CONTINUER"
370 INK 2,20,6:INK 3,6,20:SPEED INK >GQ
45,45
380 FOR i=1 TO 3:b(i)=0:g(i)=0:h(i) >JE
=0:NEXT
390 h(i)=b:IF b(1)+b(2)+b(3)>246 T >LC
HEN FOR i=1 TO 3000:NEXT:GOTO 380
400 IF INKEY$=""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(1)+a=b(i):b=h(i) >WY
440 IF g(i)=1 THEN g(i)=0:a=a-1:SOU >MA
ND 3,1,1,1,0,b=b+(i):b(i)=a:GOTO
390
450 IF c(i,4,a)=0 THEN c=ROUND(c(i, >JZ
2,a)*.08):i(i)=c(i,2,a)-c:g(i)=1 EL
SE c=(i,2,a)
460 SOUND i,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:WINDOW >NQ
#2,32,40,3,11:t="ABCDEFHIJKLMNPOQR
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,"")g:m
510 g=VAL(m):IF g<1 OR g>10 THEN 50 >BL

```

```

0
520 e0=p==":r==":v==":w==":u==" >JZ
530 LOCATE 28,1:PRINT LEFT$(t,13):L >MX
540 LOCATE 28,2:PRINT RIGHT$(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$(2,1)>JA
43)b=2
570 GOSUB 30:c(j+1,i)=VAL(x):NEXT >KQ
:NEXT
580 INPUT#9,h:IF h<>-1 THEN INPUT#9>UX
,n:p=p+STR$(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$(7)+"NOMBRE">AW
640 PRINT#1,"":INPUT#1,m:IF m="0">T >KG
HEN 790
650 h=VAL(m):IF h<1 OR h>26 OR INST>CD
R(p,STR$(h))<>0 THEN 640
660 IF INSTR(v,STR$(h))<>0 THEN 60S>ZV
UB 230:IF e=0 THEN 640
670 IF e=1 THEN GOSUB 270:t(h)=n:GO>HU
TO 630
680 y=CHR$(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>JEE
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$(d,i,1) >DT
30 i = : numero de la grille >JA
40 LOCATE 5,12:PRINT"SAUVEGARDE GRI>EU
LLE No":i;"EN COURS"
50 OPENOUT"grille"+MID$(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>SH
e de lignes
110 DATA :1er ligne de la grille >GJ
120 DATA :2eme ligne de la grille >BK
130 DATA :3eme ligne de la grille >JA
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 >HA
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 :1,nombres,caracteres donne>HD
s par l'ordinateur
350 DATA -1:fin de donnees >MB
360 DATA :1,solution grille >HF

```

SERVEUR MINITEL

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 | ☐ Hors série n° 4 | 13 F |
| ☐ Hors série n° 3 | ☐ Hors série n° 5 | 15 F |
| ☐ Hors série n° 5 | ☐ Hors série n° 6 | 15 F |
| ☐ Hors série n° 7 | ☐ Hors série n° 8 | 15 F |
| ☐ Hors série n° 9 | ☐ Hors série n° 10 | 15 F |
| ☐ Disquette HS 1 | ☐ Disquette HS 2 | 140 F |
| ☐ Disquette HS 3 | ☐ Disquette HS 4 | 140 F |
| ☐ Disquette HS 5 | ☐ Disquette HS 6 | 140 F |
| ☐ Disquette HS 7 | ☐ Disquette HS 8 | 140 F |
| ☐ Disquette HS 9 | ☐ Disquette HS 10 | 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.
Cj-joindre un chèque libellé à l'ordre des Editions SORACOM. Retournez le coupon ou une photocopie à Editions SORACOM - la Halle de Pan - 35170 BRUZ.



PUZZLE

Y o 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$,a8$,a9$
60 a1=VAL("%"+a1$):a2=VAL("%"+a2$):a3=VAL("%"+a3$):a4=VAL("%"+a4$):a5=VAL("%"+a5$):a6=VAL("%"+a6$):a7=VAL("%"+a7$):a8=VAL("%"+a8$):a9=VAL("%"+a9$)
70 an=a1+a2+a3+a4+a5+a6+a7+a8+a9
80 IF HEX$(an)=HEX$(af) THEN 90 ELSE PR
INT"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
```

Malgré 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".

```
200 SAVE "puzzle1",b,445C,3283
300 DATA CD,03,4A,3E,01,CD,0E,BC,300
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,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,48,414
550 DATA 4A,CD,E3,47,CD,3E,AB,48,482
560 DATA 26,49,CD,03,BB,CD,19,BC,39C
```

```
570 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,00,465
600 DATA 46,FE,63,CC,C7,46,FE,7A,4F8
610 DATA CC,91,45,FE,7B,CD,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 3A,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,06,4DF
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,16,40,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,3B3
780 DATA CC,47,C1,10,DE,CD,4B,40,424
790 DATA C9,06,0F,C5,E5,D5,06,0B,368
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,B0,508
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,87,47,3BF
860 DATA ED,5B,9B,13,2A,9A,13,CD,397
870 DATA 9E,47,FD,21,BB,0B,2A,9C,3BC
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,8C,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,46,E9,2A,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,80,13,09,EB,09,3F2
1010 DATA EB,C1,10,EA,E1,01,01,50,4A9
1020 DATA 00,09,EB,09,EB,C1,10,09,392
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,BB,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,E5,30D
1120 DATA C5,06,0B,C5,3A,87,13,47,2E3
1130 DATA 7E,FD,77,00,FD,23,23,10,3A5
```




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,ES,05,06,43A
 1170 DATA 08,C5,3A,B6,13,47,1A,77,2A8
 1180 DATA 13,23,10,FA,ED,4B,8A,13,33F
 1190 DATA 09,EB,09,EB,C1,10,EA,D1,47A
 1200 DATA E1,01,50,00,09,EB,09,EB,31A
 1210 DATA C1,10,09,C9,06,08,ES,C5,42B
 1220 DATA 06,08,C5,3A,B7,13,47,FD,31B
 1230 DATA 7E,00,77,FD,23,23,10,77,33F
 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,B8,13,47,C5,2A,B8,38C
 1270 DATA 13,FD,21,B8,0B,CD,87,47,38F
 1280 DATA ED,5B,B8,13,2A,9E,10,CD,38B
 1290 DATA 9E,47,FD,21,B8,0B,2A,B8,37B
 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,C5,05,ES,06,44F
 1350 DATA 05,C5,06,10,7E,12,13,23,1A9
 1360 DATA 10,FA,ED,4B,AE,13,09,ES,3F1
 1370 DATA EB,09,ES,D1,E1,C1,10,09,5A5
 1380 DATA E1,D1,01,50,00,09,ES,EB,30C
 1390 DATA 09,ES,D1,E1,C1,10,05,C9,50F
 1400 DATA 06,08,C5,06,10,FD,7E,00,26A
 1410 DATA 77,23,FD,23,10,7E,ED,4B,3F9
 1420 DATA AE,13,09,C1,10,EC,C9,21,37F
 1430 DATA 4A,C1,06,08,ES,C5,06,0B,201
 1440 DATA ES,C5,06,10,3E,FF,77,23,397
 1450 DATA 10,FA,06,10,3E,FD,77,23,2E8
 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,D4,21,C8,C3,06,ES,C5,389
 1490 DATA C5,06,08,ES,C5,06,10,3E,2D1
 1500 DATA 0F,77,23,10,FA,C1,E1,11,366
 1510 DATA 00,08,19,10,EE,C1,11,11,2D2
 1520 DATA 50,00,19,10,ED,21,0A,17,120
 1530 DATA CD,75,BB,3E,4E,CD,50,BB,46E
 1540 DATA 3E,6F,CD,50,BB,3E,6D,CD,50B
 1550 DATA 50,BB,3E,62,CD,50,BB,3E,408
 1560 DATA 72,CD,50,BB,3E,65,CD,50,42A
 1570 DATA BB,3E,20,CD,50,BB,3E,64,340
 1580 DATA CD,50,BB,3E,65,CD,50,BB,3E,460
 1590 DATA 3E,20,CD,50,BB,3E,63,CD,3B1
 1600 DATA 50,BB,3E,6F,CD,50,BB,3E,438
 1610 DATA 75,CD,50,BB,3E,70,CD,50,3E2
 1620 DATA BB,3E,20,CD,50,BB,3E,3A,37E
 1630 DATA CD,50,BB,21,05,03,CD,75,350
 1640 DATA BB,3E,FO,CD,50,BB,21,06,3F5
 1650 DATA 03,CD,75,BB,3E,61,CD,50,3C9
 1660 DATA BB,21,03,05,CD,75,BB,3E,31F
 1670 DATA F2,CD,50,BB,3E,6A,CD,50,4A3
 1680 DATA BB,21,13,03,CD,50,BB,3E,32D
 1690 DATA 7A,CD,50,BB,21,14,03,CD,56A
 1700 DATA 75,BB,3E,F1,CD,50,BB,21,465
 1710 DATA 03,13,CD,75,BB,3E,66,CD,384
 1720 DATA 50,BB,3E,F3,CD,50,BB,21,44F
 1730 DATA 05,16,CD,75,BB,3E,FO,CD,413
 1740 DATA 50,BB,21,06,16,CD,50,BB,352
 1750 DATA 3E,73,CD,50,BB,21,13,16,2E0
 1760 DATA CD,75,BB,3E,78,CD,50,BB,498
 1770 DATA 21,14,16,CD,75,BB,3E,F1,377
 1780 DATA CD,50,BB,21,16,05,CD,75,363
 1790 DATA BB,3E,F2,CD,50,BB,3E,63,471
 1800 DATA CD,50,BB,21,16,13,CD,75,371
 1810 DATA BB,3E,76,CD,50,BB,3E,F3,485
 1820 DATA CD,50,BB,C9,06,00,CD,39,38A
 1830 DATA BB,C9,3A,E1,05,47,21,EB,3F4
 1840 DATA 03,C5,ES,7E,FE,00,CC,91,486
 1850 DATA 45,FE,01,CC,45,46,FE,02,3FB
 1860 DATA CC,5D,47,FE,03,CC,37,46,38A
 1870 DATA FE,04,CC,BB,45,FE,05,CC,49D
 1880 DATA C7,46,FE,06,CC,00,46,FE,42E
 1890 DATA 07,CC,59,46,E1,C1,23,10,347
 1900 DATA D0,C9,3A,CD,05,FE,01,28,30B
 1910 DATA 0A,FE,02,28,5F,FE,03,CA,35C
 1920 DATA 21,4A,C9,21,03,19,CD,75,283
 1930 DATA BB,CD,84,4A,3E,31,CD,50,3EF
 1940 DATA BB,3E,32,32,E1,05,06,31,27A
 1950 DATA 21,88,13,DD,21,95,49,DD,375
 1960 DATA 7E,00,77,23,DD,23,10,77,31F
 1970 DATA C9,4B,C1,60,C1,3F,C1,67,47A
 1980 DATA C1,E0,C3,DF,C3,EF,C3,CB,678
 1990 DATA C3,CB,C1,A8,C1,08,C6,98,4A8
 2000 DATA C1,9B,C6,FB,C5,AB,C5,BB,601
 2010 DATA C3,CB,C5,50,C1,DD,C3,FO,616
 2020 DATA 07,18,08,FB,07,EB,07,18,22D
 2030 DATA 0A,0A,FF,C9,21,03,19,CD,20E
 2040 DATA 75,BB,CD,84,4A,3E,32,CD,408
 2050 DATA 50,BB,3E,64,32,E1,05,06,208
 2060 DATA 31,21,88,13,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,ES,C3,EF,C3,61F
 2100 DATA CB,C3,CB,C1,A8,C1,08,C6,408
 2110 DATA 9B,C1,9B,C6,FB,C5,AB,C5,5E1
 2120 DATA BB,C5,CB,C5,AC,C1,CC,C5,506
 2130 DATA FO,07,1C,08,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,50,BB,3E,FF,32,E1,05,43A
 2170 DATA 06,31,21,88,13,DD,21,47,238
 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,ES,C3,EF,621
 2210 DATA C3,CB,C3,CB,C1,A8,C1,08,408
 2220 DATA C6,9B,C1,9B,C6,FB,C5,AB,5E2
 2230 DATA C5,CB,C5,CB,C5,AC,C1,CA,50A
 2240 DATA C3,FO,07,1E,08,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,50,BB,3E,49,CD,3C5
 2280 DATA 50,BB,3E,56,CD,50,BB,3E,3CF
 2290 DATA 45,CD,50,BB,3E,41,CD,50,3D3
 2300 DATA BB,3E,55,CD,50,BB,3E,20,391
 2310 DATA CD,50,BB,C9,21,70,C1,06,406
 2320 DATA 0B,3E,FF,77,23,77,23,3E,287
 2330 DATA FO,77,23,77,2B,2B,21,1,293
 2340 DATA 00,08,19,10,06,06,08,21,14C
 2350 DATA CD,C1,3E,0F,77,23,77,2B,30A
 2360 DATA 11,00,08,19,10,FA,C9,3E,23D
 2370 DATA 00,00,0E,BC,21,05,06,CD,290
 2380 DATA 75,BB,3E,50,CD,50,BB,3E,3E1
 2390 DATA 55,CD,50,BB,3E,5A,CD,50,3FC
 2400 DATA BB,3E,54,CD,50,BB,3E,4C,3C2
 2410 DATA CD,50,BB,3E,45,CD,50,BB,44D
 2420 DATA 21,00,04,CD,75,BB,3E,43,28D
 2430 DATA CD,50,BB,3E,72,CD,50,BB,47A
 2440 DATA 3E,65,CD,50,BB,3E,65,CD,3FB
 2450 DATA 50,BB,3E,20,CD,50,BB,3E,399
 2460 DATA 70,CD,50,BB,3E,61,CD,50,41E
 2470 DATA BB,3E,72,CD,50,BB,3E,20,3AE
 2480 DATA CD,50,BB,3E,3A,CD,50,BB,442
 2490 DATA 21,12,07,CD,75,BB,3E,59,2CE
 2500 DATA CD,50,BB,3E,20,CD,50,BB,428
 2510 DATA 3E,4C,CD,50,BB,3E,65,CD,3DF
 2520 DATA 50,BB,3E,20,CD,50,BB,3E,399
 2530 DATA 47,CD,50,BB,3E,4F,CD,50,3E3
 2540 DATA BB,3E,46,CD,50,BB,3E,46,38A
 2550 DATA CD,50,BB,CD,7A,4A,CD,7A,4B0
 2560 DATA 4A,CD,7A,4A,C9,3E,01,CD,380
 2570 DATA 0E,BC,21,0A,0A,CD,75,BB,2CF
 2580 DATA 3E,4E,CD,50,BB,3E,6F,CD,3E5
 2590 DATA 50,BB,3E,76,CD,50,BB,3E,3EF
 2600 DATA 65,CD,50,BB,3E,61,CD,50,413
 2610 DATA BB,3E,75,CD,50,BB,3E,20,3B1
 2620 DATA CD,50,BB,3E,28,CD,50,BB,430
 2630 DATA 3E,31,CD,50,BB,3E,2C,CD,38B
 2640 DATA 50,BB,3E,32,CD,50,BB,3E,3AB
 2650 DATA 2C,CD,50,BB,3E,33,CD,50,3AC
 2660 DATA BB,3E,29,CD,50,BB,3E,3F,384
 2670 DATA CD,50,BB,3E,20,CD,50,BB,42B
 2680 DATA 1B,1B,30,FB,FE,31,28,425
 2690 DATA 0A,FE,32,28,0C,FF,32,28,2C7
 2700 DATA 0E,18,ED,3E,01,32,CD,05,265
 2710 DATA C9,3E,02,32,CD,05,C9,3E,323
 2720 DATA 03,32,CD,05,C9,21,16,4F,265
 2730 DATA 11,2E,50,1A,BE,C2,2E,45,29C
 2740 DATA 7D,01,55,4F,89,2B,24,23,22A
 2750 DATA 13,18,FO,21,56,4F,11,6E,260
 2760 DATA 50,1A,BE,C2,2E,45,FO,01,2DB
 2770 DATA 95,4F,89,2B,24,23,13,18,217
 2780 DATA FO,21,46,4F,11,AE,50,1A,32F
 2790 DATA BE,C2,2E,45,FO,01,ES,4F,3A5
 2800 DATA 9B,2B,24,23,13,18,FO,21,24A
 2810 DATA E6,4F,11,EE,50,1A,BE,C2,41E
 2820 DATA 2E,45,7D,01,25,50,89,28,24F
 2830 DATA 04,23,13,18,FO,21,4B,C2,20D
 2840 DATA 21,08,05,CD,75,BB,06,16,247



2850 DATA 11,9C,4D,05,C5,1A,CD,5D,307
 2860 DATA BB,C1,D1,13,10,FS,21,09,3BF
 2870 DATA 05,CD,75,BB,06,11,11,82,2DC
 2880 DATA 4C,05,C5,1A,CD,5D,BB,C1,4A6
 2890 DATA D1,13,10,FS,3E,20,CD,5D,371
 2900 DATA BB,06,08,11,C3,4C,05,C5,383
 2910 DATA 1A,CD,5D,BB,C1,D1,13,10,384
 2920 DATA F5,CD,7A,4A,CD,7A,4A,CD,4E4
 2930 DATA 7A,4A,CD,1A,BC,C5,84,4A,3EC
 2940 DATA 6A,65,20,70,65,75,7B,20,2D1
 2950 DATA 7B,6F,75,70,20,66,65,6C,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,61,75,31F
 2990 DATA 6F,6C,74,74,69,6F,6C,69,3D3
 3000 DATA 3A,BB,13,47,C5,11,16,4F,287
 3010 DATA 06,08,21,96,4F,1A,77,13,18B
 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 26,50,0A,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,B6,4F,29D
 3120 DATA 21,BE,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 C1,10,03,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,C5,100
 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,C1,10,03,C9,3A,BB,45C
 3220 DATA 13,47,C5,21,16,4F,06,08,286
 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,11,10,4F,21,A6,4F,06,1E7
 3260 DATA 08,CD,12,4E,21,A6,4F,11,25C
 3270 DATA 47,4F,06,08,CD,20,4E,21,260
 3280 DATA AD,4F,11,0D,07,06,08,CD,2BF
 3290 DATA FA,CD,C1,10,C5,C9,3A,BB,49B
 3300 DATA 13,47,C5,21,56,4F,11,0D,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,21,240
 3360 DATA ED,4F,11,0D,07,06,08,CD,2FF
 3370 DATA FA,CD,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,FS,C9,C5,7E,3DB

3410 DATA 12,01,08,00,09,EB,09,EB,203
 3420 DATA C1,10,F3,C9,C5,05,0E,512
 3430 DATA 08,1A,77,23,13,10,FA,E1,2BA
 3440 DATA D1,01,08,00,09,EB,09,EB,20C
 3450 DATA C1,10,E9,C9,3A,BB,13,47,3CF
 3460 DATA C5,21,AD,4F,11,0D,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,11,10,4F,21,1C,4F,227
 3510 DATA 06,08,CD,BB,4E,11,0D,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,11,0D,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,11,0D,07,2C9
 3600 DATA 21,56,4F,06,08,CD,FA,4D,2EB
 3610 DATA C1,10,C5,C9,C5,05,0E,4E4
 3620 DATA 07,7E,12,2B,18,10,FA,D1,2BB
 3630 DATA E1,01,08,00,09,EB,09,EB,2D2
 3640 DATA C1,10,E9,C9,C5,1A,77,01,3CA
 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 00,00,44,44,44,44,44,44,19E
 3730 DATA 44,44,11,11,11,11,11,11,11,88
 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 00,00,44,44,44,44,44,44,19B
 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

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
 4340 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

PUZZLE 2

10 MEMORY 17500-1
 20 LOAD "puzzle1"
 30 BORDER 10:INK 6,10: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

Thierry MATHIAS

Dans 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 :

vous pouvez tirer sur vos proies.

Valable pour
CPC 464
CPC 664
CPC 6128

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 vénérable. 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 mettez, 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:x1%=32:c=1 >DJ
2.57:FOR x1%=0 TO 142 STEP 2
80 x1%=x1%+8 >LG
90 c=c-.1408 >EC
100 y1%=150+c*(y1%-8) >MF
110 IF TEST (x1%,y1%)=0 THEN GOTO 1 >CE
40
120 c1%=c >VB
130 FOR h1%=y1%-c% TO y1%+c% STEP 2:MD >BF
```



VE x1%-4,h1%:DRAW 8,0:NEXT h1%

```
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-1:1=100
20 WHILE a<f
30 FOR a=a TO a+15:READ c:k=VAL(">HC
$):s=s+k*65536*(s+k*32768):POKE a,k:NEX
T
40 READ d:t=VAL(">HC
PRINT CHR$(7):"Erreur ligne ";1:END ELS
E 1=1+5
50 WEND
```

60 SAVE "cent1.bin",b,&7600,&2F
70 END

```
100 DATA ED,73,38,79,CD,25,77,CD,D0,B2,
CD,D1,83,CD,19,76,0916
105 DATA CD,57,77,CD,87,77,C3,F0,77,3E,
00,CD,0E,BC,21,05,1041
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,96,8B,06,04,1B95
120 DATA 21,BB,C1,C5,E5,22,77,CD,3B,
79,E1,11,F0,00,19,2399
125 DATA C1,10,F0,3E,0B,CD,E4,BB,11,2B,
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 C0,22,07,78,21,54,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,CD,22,07,78,06,84,
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,165,77,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,E5,05,CD,6809
175 DATA 75,BB,1A,CD,50,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,8758
195 DATA 41,85,11,4C,83,37,3F,20,08,21,
41,85,22,4F,86,18,8C25
200 DATA 06,21,BB,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,19,32,04,9573
210 DATA 78,21,02,F7,22,05,78,21,02,C7,
22,07,78,21,0E,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,02,32,06,80,C9,11,E9,C0,
1A,FE,03,28,09,11,A447
225 DATA E9,0E,1A,FE,03,C2,BC,B1,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,
```



06,00,DD,21,A3,7C,B8B6
 240 DATA DD,73,00,DD,72,01,3A,0D,80,FE,
 00,28,06,21,22,80,BE0C
 245 DATA CD,E1,7C,3E,00,32,0D,80,3E,1D,
 32,A3,7D,2A,D7,78,C459
 250 DATA DD,2D,9F,7A,2A,D5,78,CD,3B,79,2A,
 D9,7B,22,D7,78,C9,CC79
 255 DATA CD,9F,79,11,E9,0C,0D,54,7D,06,
 1F,C5,06,FF,10,FE,D4B3
 260 DATA C1,10,FB,3E,00,32,37,79,3E,4B,
 CD,1E,BB,C4,4E,78,D652
 265 DATA 3E,49,CD,1E,BB,C4,67,79,3E,4A,
 CD,1E,BB,C4,80,78,E30C
 270 DATA 3E,4B,CD,1E,BB,C4,9E,78,CD,AA,
 7D,3E,42,CD,1E,BB,EE29
 275 DATA C2,0A,7B,3A,37,79,FE,00,2B,86,
 2A,D7,78,22,D9,78,F2D1
 280 DATA 2A,D5,78,CD,3B,79,2A,D9,78,22,
 D7,78,18,A2,3A,D4,F9C9
 285 DATA 78,3D,3F,00,CB,32,D4,78,2A,D5,
 78,CD,83,79,22,D5,01F9
 290 DATA 78,3E,01,32,37,79,C9,3A,D4,78,
 3C,FE,1A,CB,32,D4,0903
 295 DATA 78,2A,D5,78,CD,70,79,22,D5,78,
 3E,01,32,37,79,C9,1001
 300 DATA 3A,D5,78,3D,FE,00,CB,32,D3,78,
 2A,D7,78,2B,22,D7,17A3
 305 DATA 78,2A,D5,78,2B,22,D5,78,3E,01,
 32,37,79,C9,3A,D3,1E23
 310 DATA 78,3C,FE,46,CB,32,D3,78,2A,D7,
 78,23,22,D7,78,2A,2597
 315 DATA D5,78,23,22,D5,78,3E,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 45,44,45,74,08,DD,75,07,DD,7E,
 03,DD,77,09,DD,7E,35F2
 330 DATA 04,00,00,00,00,00,00,00,00,00,
 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 00,00,00,20,00,00,00,00,30,20,
 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 20,20,30,00,00,20,00,20,00,00,
 00,A0,00,A0,00,38BE
 355 DATA 00,00,00,00,00,DD,46,00,DD,56,
 04,ES,CD,5F,79,06,40AB
 360 DATA 0E,21,E1,78,22,35,79,D1,2A,35,
 79,C5,D5,01,06,00,46AA
 365 DATA ED,80,22,35,79,E1,CD,70,79,C1,
 E5,10,EA,E1,01,1FAF9
 370 DATA 00,08,3E,BF,37,FE,ED,52,BC,38,
 F9,19,22,D7,78,C9,56A3
 375 DATA D5,11,00,08,19,30,0A,2A,D7,78,
 11,50,00,19,22,D7,5AD0
 380 DATA 78,D1,C9,F5,D5,11,00,FB,19,3E,
 BF,BC,38,0E,2A,D7,62CE
 385 DATA 78,11,80,FF,19,22,D7,78,11,00,
 3B,19,D1,F1,C9,21,699E
 390 DATA 24,7C,DD,21,25,7C,46,C5,DD,7E,
 05,FE,00,C4,97,7A,7121
 395 DATA 06,04,C5,CD,17,7B,E5,EB,CD,22,
 7D,EB,D2,CC,79,E1,7A6E
 400 DATA CD,52,78,FE,00,C2,8F,7A,C1,C3,
 0C,7B,ED,53,3D,80,82D9
 405 DATA 1A,FE,00,C4,83,7A,FE,0C,20,49,
 ES,DD,ES,D5,E1,3E,BBC6
 410 DATA 00,32,3F,80,CD,45,7E,DD,E1,E1,
 E1,ES,DD,56,02,DD,94BE
 415 DATA 5E,01,37,3F,ED,52,28,1B,11,06,
 00,DD,19,E1,ES,DD,9AC5
 420 DATA 56,02,DD,5E,01,37,3F,ED,52,CA,
 B3,7A,11,F4,FF,DD,A2B6
 425 DATA 19,18,70,3A,3F,80,FE,00,28,69,
 E1,D1,C1,05,C5,D5,AF91
 430 DATA E5,18,60,FE,3C,20,09,2A,0E,80,
 2B,22,0E,80,18,53,AEAF
 435 DATA FE,FC,2B,4F,FE,03,2B,4B,FE,0F,
 2B,47,FE,47,20,1F,8594
 440 DATA 00,00,32,3F,80,CD,02,7F,3E,00,
 32,00,80,21,22,80,B9D1
 445 DATA CD,E1,7C,3A,3F,80,FE,00,28,29,
 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,C8AD
 455 DATA 01,CD,E1,7C,23,23,10,F9,11,06,
 00,DD,19,C1,10,E7,CEBC
 460 DATA C3,25,B1,E1,ED,5B,3D,80,73,23,
 72,2B,CD,12,7D,C1,D62B
 465 DATA 05,CD,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,FEED
 490 DATA CD,B6,7B,13,CD,B6,7B,1B,1B,CD,
 B2,7B,EB,CD,3D,7D,0799
 495 DATA 0E,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,DD,17CE
 505 DATA 19,C1,05,C2,A7,79,C9,DD,66,02,
 DD,6E,01,ES,DD,46,1FF1
 510 DATA 00,05,58,16,00,19,19,CD,E1,7C,
 7B,FE,00,28,0E,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,01,38B5
 535 DATA C9,3A,24,7C,FE,01,CA,D7,80,DD,
 96,04,FE,00,28,23,4508
 540 DATA 4F,C5,06,05,B1,10,FD,4F,06,00,
 DD,ES,D1,21,06,00,4AC4
 545 DATA 19,ED,80,C1,41,11,06,00,DD,ES,
 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,C3,49,
 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,DD,
 80,36,00,1B,31,FE,74A0
 575 DATA 0F,20,1B,DD,36,05,02,DD,46,00,
 DD,66,02,DD,6E,01,79BB
 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,89BB
 590 DATA E1,C3,0B,78,01,1E,A3,7C,00,01,
 00,00,00,00,00,00,8D1E
 595 DATA 00,00,00,00,00,00,00,00,00,00,
 00,00,00,00,00,8D1E
 600 DATA 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,
 00,00,00,00,00,8D1E
 610 DATA 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,
 00,00,00,00,00,8D1E
 620 DATA 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,
 00,00,00,00,00,8D1E
 630 DATA 00,00,00,CC,CD,CD,CE,CD,CF,
 CD,CD,CD,D1,CD,D2,9747
 635 DATA C0,D3,CD,D4,CD,D5,CD,D6,CD,D7,
 CD,D8,CD,D9,CD,DA,3FB8
 640 DATA C0,DB,CD,DC,CD,DD,CD,DE,CD,DF,
 CD,E0,CD,E1,CD,E2,BOEF
 645 DATA C0,E3,CD,E4,CD,E5,CD,E6,CD,E7,
 CD,EB,CD,E9,CD,EC,BE06
 650 DATA 90,ES,D5,C5,SE,23,56,EB,2B,7E,
 FE,00,28,02,3E,03,CAE9
 655 DATA 23,11,00,08,06,04,77,19,10,FC,
 C1,D1,E1,C9,ES,D5,CBC1
 660 DATA C5,EB,11,00,08,06,03,36,0C,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,D860
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,EB6C
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,43,7D,FE,00,C8,
1A,FE,03,28,0E,01,F599
690 DATA EA,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,
28,07,11,06,00,02,02E
700 DATA 19,10,FC,DD,56,02,DD,5E,01,D5,
FD,E1,DD,7E,00,7F,0A49
705 DATA 5F,16,00,7F,19,FD,74,01,FD,75,
00,DD,34,00,21,A3,10BD
710 DATA 7D,35,C9,00,3A,0D,80,FE,01,2B,
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 42,43,38,80,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,28,F5,FE,FC,20,47BD
750 DATA 0A,CD,2D,7F,3B,EC,CD,02,7F,1B,
E7,FE,0C,C2,42,7E,4F0D
755 DATA 3A,26,80,FE,01,20,06,E1,E1,E1,
C3,71,82,CD,45,7E,57AB
760 DATA 1B,DD,00,C0,12,7E,CD,2D,7F,DB,CD,
74,7F,3E,01,BB,20,5F0E
765 DATA 0F,CD,87,7F,DD,35,00,7B,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,68AB
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,DD,780C
785 DATA 96,04,C5,06,05,4F,81,10,FD,4F,
06,00,C3,21,24,7F,7D2E
790 DATA 11,06,00,C0,32,74,7C,47,19,10,FD,
E5,19,D1,EB,C1,ED,83F4
795 DATA BB,C1,DD,7E,00,C5,90,DD,77,00,
05,DD,70,06,DD,06,B6C3
800 DATA 02,DD,6E,01,F1,87,5F,16,00,19,
3E,00,90,9F,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,46,04,00,9E90
815 DATA 2B,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,BE8A
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,BB,D2EC
855 DATA 19,10,F8,C9,FD,66,01,FD,6E,00,
11,00,0B,05,06,04,DBDD
860 DATA 36,3C,19,10,F8,C1,C9,FD,66,01,
FD,6E,00,11,00,0B,DE95
865 DATA C5,06,04,36,0F,19,10,F8,C1,C9,
3A,17,80,3C,FE,0A,E46C
870 DATA 2B,05,32,17,80,18,4D,3E,00,32,
17,80,3A,16,80,3C,E7DA
875 DATA FE,0A,2B,05,32,16,80,18,3B,3E,
00,32,16,80,3A,15,EB7F
880 DATA 80,3C,FE,0A,2B,05,32,15,80,1B,
29,3E,00,32,15,80,EF7D
885 DATA 3A,14,80,3C,FE,0A,2B,05,32,14,
80,1B,17,3E,00,32,F321
890 DATA 14,80,3A,13,80,3C,FE,0A,2B,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

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CENT 2 - DAT

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10 a=32816i:=38735:MEMORY a-1:=100
20 WHILE a<f
30 FOR a=10 to a+15:READ c$:k=VAL("%"+c
$):s=s+k+65536*(s+k)*32767):POKE a,k:NEXT
T
40 READ d$:t=VAL("%"+d$):IF t<s THEN
PRINT CHR$(7):"Erreur ligne ":1:END ELSE
E 1:=1+5
50 WEND
60 SAVE "cent2.bin",b,32816,i:17F

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```

70 END
100 DATA 00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,0000
105 DATA 01,00,00,00,00,00,0D,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,0B,
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,AA,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,
00,01,00,00,00,02,0C13
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,2B,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 01,00,00,3F,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,
3C,FE,00,2B,03,32,2CAF
175 DATA FA,77,C3,13,76,ED,7B,38,79,3A,
79,79,3D,2B,5D,32,3366
180 DATA 3A,79,F5,CD,3D,81,F1,CD,60,81,
C3,13,76,CD,A7,BC,3C84
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,BC,7F,2D,7F,C9,4C76
195 DATA 47,2A,07,7B,22,D9,7B,21,BB,C1,
11,F0,00,19,10,FD,533D
200 DATA 22,07,7E,06,0E,C5,06,05,E5,36,
00,23,10,FB,E1,CD,5989
205 DATA 70,79,C1,10,F0,2A,D9,7B,22,D7,
7B,C9,CD,EC,B1,ED,630F
210 DATA 7B,38,79,3A,19,80,21,10,80,96,
3B,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,B0,CD,A7,BC,06,
0A,21,73,80,C5,E5,7361
225 DATA CD,AA,BC,30,FB,21,CD,80,CD,AA,
3C,30,FB,E1,11,09,7C86
230 DATA 00,19,C1,10,E9,3E,01,CD,AD,BC,
E6,07,FE,03,2B,F5,83D9
235 DATA 3E,01,CD,AD,BC,CB,7F,20,F7,C3,
0A,76,3A,66,80,FE,8C80

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240 DATA 00,C8,E1,CD,30,B1,11,00,40,CD,
07,87,01,06,00,21,9188
245 DATA D3,78,11,D8,78,ED,B0,01,17,00,
21,0E,80,11,24,80,9750
250 DATA ED,80,3E,00,CD,0E,BC,CD,53,7E,
3E,01,CD,90,88,21,9ED0
255 DATA 01,01,CD,75,BB,21,8C,82,06,14,
CD,19,77,3E,08,CD,A488
260 DATA E4,88,11,00,00,21,7C,02,CD,CF,
BB,11,40,01,21,4E,A41F
265 DATA 01,01,CD,80,CD,DB,88,21,40,C1,
CD,66,82,21,8F,C1,8325
270 DATA CD,66,82,CD,57,77,3E,01,32,06,
80,CD,87,77,3E,00,B445
275 DATA D3,32,A3,70,CD,F0,77,11,00,08,06,
08,3E,33,19,10,FB,C005
280 DATA C9,3E,00,32,D6,80,11,00,40,CD,
E2,86,06,03,C5,78,C660
285 DATA D3,CD,60,81,C1,10,F7,3E,01,32,
3A,79,01,06,00,21,C85E
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,D806
300 DATA 00,21,24,80,11,0E,80,ED,B0,C3,
8C,81,2A,20,20,20,D061
305 DATA 5A,69,65,20,65,6E,20,42,4F,4E,
55,53,20,4A,20,2A,E1A9
310 DATA 3E,00,CD,0E,BC,CD,6C,8B,3E,05,
CD,96,8B,3E,01,CD,E0DF
315 DATA 90,8B,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,00,2B,08,ES,CD,
5D,8B,E1,23,18,F3,FC1D
330 DATA 11,37,97,21,00,00,22,5A,83,06,
00,C5,21,00,00,5E,FFDD
335 DATA 3E,00,88,26,06,11,00,08,19,10,
FD,11,00,00,19,ED,0417
340 DATA 5B,5A,83,19,D1,7E,12,13,C1,04,
3E,08,90,20,CD,5E,0A48
345 DATA 2A,5A,83,23,22,5A,83,11,D0,01,
37,3F,ED,52,D1,20,0FF9
350 DATA C8,C9,00,00,00,76,D8,00,00,00,
00,00,43,45,4E,54,1402
355 DATA 49,50,45,44,45,20,2E,2E,2E,
2E,2E,20,44,20,54,1705
360 DATA 68,69,65,72,72,79,20,4D,41,54,
4B,49,41,53,20,31,1CE0
365 DATA 39,38,38,20,2E,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 68,20,20,20,43,3A,43,6C,61,76,
69,65,72,20,20,20,2BDC
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,38B6
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,90,8B,21,02,09,481C
410 DATA CD,75,8B,06,06,0E,30,21,13,80,
11,9C,87,7E,81,12,4D5C
415 DATA 23,13,10,F9,21,97,87,06,08,CD,
57,87,21,04,09,CD,5291
420 DATA 75,BB,21,AD,87,06,08,CD,57,87,
3E,19,32,FA,77,3E,590A
425 DATA 0A,CD,90,8B,21,03,09,CD,75,BB,
06,06,0E,30,21,1C,5DD0
430 DATA 80,11,A7,87,7E,81,12,23,13,10,
F9,21,A2,87,06,08,6347
435 DATA CD,57,87,3E,06,CD,96,8B,3E,07,
CD,90,8B,21,19,06,69F1
440 DATA CD,75,BB,21,BB,87,06,08,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,ES,CD,9F,79,
11,FB,C4,CD,54,7D,8D64
465 DATA DD,E1,21,98,C6,11,00,08,06,3F,
CD,19,8D,C5,ES,06,9452
470 DATA 08,23,7E,2B,77,19,10,F9,E1,23,
C1,10,F0,06,08,DD,9A6F
475 DATA 7E,00,77,DD,23,19,10,F7,DD,ES,
D1,21,87,45,37,3F,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,FS,06,30,90,38,
27,06,0A,90,30,22,AEB3
490 DATA 80,FS,06,30,80,FS,3E,05,CD,96,
BB,3E,09,CD,90,8B,8663
495 DATA 21,04,13,CD,75,BB,F1,CD,5D,BB,
F1,87,06,0F,80,32,B0AD
500 DATA FA,77,F1,FE,6A,20,16,3E,48,32,
09,78,3C,32,11,78,C3DD
505 DATA 3E,3E,19,78,3C,32,21,78,3C,32,
AC,7D,C9,FE,63,C2,CAB6
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,D782
520 DATA 3E,0E,01,12,00,CD,32,BC,21,10,
10,CD,3E,BC,21,D4,DC99

525 DATA C4,CD,38,79,3E,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,E492
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,F888
545 DATA 19,86,3E,0E,DD,21,92,86,CD,19,
86,CD,48,86,38,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,0CDD
560 DATA 21,AA,86,CD,19,86,3E,0E,DD,21,
C2,86,CD,19,86,CD,1465
565 DATA 48,86,38,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 85,0E,00,46,8B,28,04,0C,23,18,
FB,79,06,05,21,DA,3081
595 DATA 86,FS,3E,FF,BE,28,0E,F1,BE,28,
03,23,10,F3,3E,07,4472
600 DATA CD,5A,8B,37,C9,F1,77,37,C9,C9,
38,01,AA,00,38,01,4817
605 DATA DC,00,44,01,DC,00,38,01,EA,00,
2C,01,CD,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,
BC,01,98,00,9C,01,5F18
630 DATA 90,00,8C,01,88,00,8C,01,90,00,
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635 DATA 85,84,1A,4F,13,21,00,CD,AF,BC,
CB,1A,89,28,05,77,6D08
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,CD,AF,77EC
650 DATA BC,CD,43,ES,7E,23,BE,20,2F,23,
BE,20,2B,AF,BC,28,7E65
655 DATA 27,E1,79,12,13,06,03,23,ES,
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,



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 670 DATA BE,AF,12,13,18,B9,C9,C5,E5,7E,
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 685 DATA 00,08,10,11,08,00,06,00,1B,12,
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 690 DATA 1B,00,30,00,00,00,00,53,43,30,
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 695 DATA 30,30,52,45,43,20,3A,30,30,30,
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 700 DATA 20,3A,20,30,20,20,20,20,35,AA,20,
 54,2E,4D,41,54,48,ADD0
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 760 DATA 3C,7B,03,03,3C,03,7B,39,3C,03,
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 770 DATA 16,3C,7B,35,03,7B,04,3C,03,7B,
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 775 DATA 03,7B,4A,3C,7B,04,3C,03,7B,
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 990 DATA 7B,03,CC,CC,7B,04,3C,03,7B,04,
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 1010 DATA 04,F0,D0,7B,42,F0,E0,7B,04,F0,
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 1025 DATA 7B,05,3C,68,94,7B,30,3C,CC,3C,
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 1030 DATA 7B,03,0F,3C,03,03,7B,03,3C,68,
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 1085 DATA 3B,3C,03,7B,16,3C,7B,35,03,7B,
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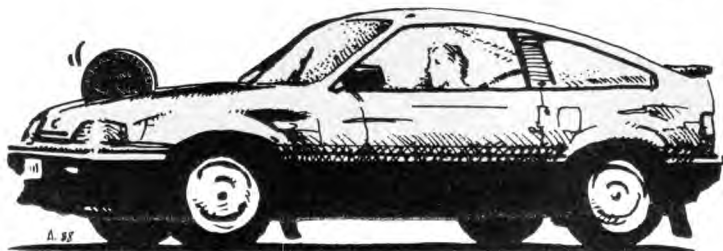
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 1825 DATA F0,D0,F0,E0,3C,3C,7B,05,03,7B
 ,03,3C,03,7B,09,3C,8B12
 1830 DATA 03,3C,3C,03,7B,03,3C,68,F0,F0
 ,D0,7B,2E,F0,D0,8FB8
 1835 DATA E0,3C,3C,7B,03,03,7B,07,3C,03
 ,7B,03,3C,03,3C,7B,93C9
 1840 DATA 03,03,3C,03,03,7B,03,3C,68,F0
 ,F0,D0,7B,2E,F0,D0,9AAC
 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
 ,03,03,03,7B,07,3C,A189
 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
 ,38,3C,03,7B,4A,3C,AB60
 1870 DATA 03,7B,04,3C,03,7B,4A,3C,03,7B
 ,04,3C,03,7B,4A,3C,AEE4
 1875 DATA 03,7B,04,3C,03,7B,07,3C,CC,7B
 ,04,3C,6C,3C,6C,CC,83CA
 1880 DATA 3C,CC,7B,04,3C,7B,03,CC,3C,6C
 ,CC,7B,03,3C,6C,CC,BA3D
 1885 DATA 7B,05,03,CC,9C,7B,03,3C,6C,CC
 ,3C,3C,6C,9C,3C,CC,007B
 1890 DATA CC,3C,CC,7B,04,3C,CC,9C,3C,3C
 ,CC,3C,6C,CC,CC,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,DAB3
 1910 DATA 05,3C,6C,CC,3C,6C,3C,6C,3C,3C
 ,CC,9C,3C,6C,CC,CC,E0BC
 1915 DATA 6C,CC,3C,6C,3C,6C,7B,04,3C,03
 ,7B,04,3C,03,7B,4A,ES85
 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,FD7E
 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

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





```

210 ORIGIN 12,264:DRAW 616,0:DRAW 6 >ZO
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
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
e des Fiches":LOCATE 44,12:PRINT"7.
Chargement des Fiches":LOCATE 44,1
4:PRINT"8. Total des Depenses":LOCATE
44,16:PRINT"9. Graphique":LOCATE
44,18:PRINT"0. Saisie Depenses Car
burant"
240 LOCATE 4,20:PRINT"XXXXXXXXXXXXX
XXXXX ";CHR$(24); " IInformatio
ns diverses ";CHR$(24); " XXXXX
XXXXXXXXXXXXXXXXXXXXX"
250 IF #<" THEN lc=INT(LEN(#))/2
2:LOCATE 27-lc,5:PRINT CHR$(24); " D
OSSIER ";UPPER$(#); " EN MEMOIRE
";CHR$(24)
260 IF n<1 THEN LOCATE 12,23:PRINT
"ATTENTION VOUS AVEZ EFFECTUE DE NO
UVEAUX ENREGISTREMENTS":LOCATE 24,2
4:PRINT"NOUBLIEZ PAS DE LES SAUVEGA
RDER"
270 PRINT CHR$(7);
280 a$=INKEY$:IF a$="" THEN 280
290 IF a$="1" THEN 790
300 IF a$="2" THEN 1130
310 IF a$="3" THEN 3110
320 IF a$="4" THEN 2670
330 IF a$="5" THEN 2670
340 IF a$="6" THEN 410
350 IF a$="7" THEN 620
360 IF a$="8" THEN 2560
370 IF a$="9" THEN 3310
380 IF a$="0" THEN 3660
390 IF UPPER$(a$)="I" THEN 3830
400 GOTO 280
410 '-----
420 'Sauvegarde
430 '-----
440 CLS
450 LOCATE 30,2:PRINT CHR$(24); " S
A U V E G A R D E ";CHR$(24)
460 LOCATE 2,5:PRINT"Entrez le Nom
du Fichier (voiture)"
470 IF #<" THEN LOCATE 21,13:PRI
NT"VOUS AVEZ LE DOSSIER ";UPPER$(#
); " EN MEMOIRE"
480 LOCATE 2,8:PRINT"[RETURN]=Retou

```



```

r Menu"
490 LOCATE 2,7:PRINT"Nom : ";CHR$(1
B):;INPUT #;IF #="" THEN GOTO 130
ELSE IF LEN(#)>8 THEN 490
500 PRINT:OPENOUT #+";.VOI"
510 CLS
520 LOCATE 24,10:PRINT"La disquette
est-elle prete ?"
530 LOCATE 23,12:PRINT"Tapez sur ES
PACE pour commencer"
540 R$=INKEY$:IF R$="" THEN 560
550 GOTO 540
560 CLS:LOCATE 20,11:PRINT"ENREGIST
REMENT ";#;" EN COURS"
570 WRITE#n,;FOR s=1 TO n:WRITE#s,
dat$(s),kil(s),ch$(s),nat$(s),pie$(
s),ace$(s),gar$(s),dep$(s):NEXT
580 WRITE#n,dt$,lit$,ml$,toc$,cm1
590 CLOSEOUT
600 n1=n
610 GOTO 130
620 '-----
630 CHARGEMENT
640 '-----
650 CLS
660 LOCATE 29,2:PRINT CHR$(24); " C
H A R G E M E N T ";CHR$(24)
670 LOCATE 2,5:PRINT"Entrez le Nom
du Fichier (voiture)"
680 IF #<" THEN LOCATE 21,13:PRI
NT"VOUS AVEZ LE DOSSIER ";UPPER$(#
); " EN MEMOIRE"
690 LOCATE 2,8:PRINT"[RETURN]=Retou
r Menu"
700 LOCATE 2,7:PRINT"Nom : ";CHR$(1
B):;INPUT #;IF #="" THEN 130 ELSE
IF LEN(#)>8 THEN 700
710 PRINT:OPENIN #+";.VOI"
720 CLS
730 CLS:LOCATE 26,11:PRINT"CHARGEME
NT EN COURS"
740 INPUT#n,;FOR s=1 TO n:INPUT#s,
dat$(s),kil(s),ch$(s),nat$(s),pie$(
s),ace$(s),gar$(s),dep$(s):NEXT
750 INPUT#n,dt$,lit$,ml$,toc$,cm1
760 n1=n
770 CLOSEIN
780 GOTO 130
790 '-----
800 'ENT./REP.
810 '-----
820 CLS
830 ORIGIN 52,390:DRAW 544,0:DRAW 5
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
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$(1
B); " ";UPPER$(#); " ";CHR$(24);LO
CATE 43,4:PRINT"Dernier Fiche Enreg
istree : ";CHR$(24);n;CHR$(24)
860 ORIGIN 68,322:DRAW 144,0:DRAW 1
44,-20:DRAW 0,-20:DRAW 0,0
870 n=n+1
880 LOCATE 16,6:PRINT SPACE$(11):LO
CATE 10,6:INPUT"DATE : ";dat$(n)
890 IF LEN(dat$(n))>8 OR VAL(MID$(dat$(n)
at$(n),4,2))>12 OR VAL(MID$(dat$(n)
,4,2))>1 THEN 880
900 LOCATE 62,6:PRINT CHR$(18)
910 ORIGIN 388,322:DRAW 184,0:DRAW
184,-20:DRAW 0,-20:DRAW 0,0:LOCATE
17,6:PRINT SPACE$(1):LOCATE 50,6:IN
PUT"KILOMETRES : ";kil(n):IF kil(n)
(kil(n)-1) THEN LOCATE 56,8:PRINT"ER
REUR !!!":FOR t=1 TO 1000:NEXT:LOC
ATE 55,8:PRINT CHR$(18):GOTO 900
920 LOCATE 63,6:PRINT SPACE$(1)
930 LOCATE 2,9:PRINT"S'agit il de
[Entretien]:LOCATE 18,10:PRINT"R
epARATION":LOCATE 18,11:PRINT"DI
vers"
940 LOCATE 40,10:PRINT"Votre choix":
CHR$(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)
960 IF ch$(n)="E" THEN GOSUB 1100
970 IF ch$(n)="R" THEN GOSUB 1110
980 IF ch$(n)="D" THEN GOSUB 1120
990 kil=kil(n)-kil(n)-1:LOCATE 10,8:
PRINT"Vous avez effectue ";kil; " Kms
depuis la derniere intervention":k
i=0
1000 LOCATE 2,13:PRINT"NATURE
";CHR$(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)
1020 LOCATE 2,15:PRINT"PIECE CHANGE
";CHR$(18):ORIGIN 124,178:DRAW 4
40,0:DRAW 440,-20:DRAW 0,-20:DRAW 0
,0:LOCATE 18,15:LINE INPUTpie$(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 240,0:0
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 440,0:0
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$(18):ORIGIN 124,82:DRAW 240,0:0
RAW 240,-20:DRAW 0,-20:DRAW 0,0:LOC
ATE 18,21:LINE INPUT:gar$(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 56,0:0
RAW 56,-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 &BBO6: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 >XF
DIQUER LE DETAIL DES REPARATIONS":R /
ETURN
1120 LOCATE 15,10:PRINT"VEUILLEZ IN >VK
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(<=) THEN 4030 >NE
1210 IF #(<=) THEN 1e=INT(LEN(#)/ >NU
2) ELSE 1e=0
1220 IF #(<=) THEN LOCATE 24-1e,5: >ZY
PRINT CHR$(24):" * * * FICHE TECHN
IQUE "UPPER(#):" * * * "CHR$(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
he par Garage"
1250 LOCATE 25,18:PRINT"6. Recherche >CL
e d'une Depense":LOCATE 25,20:PRINT
"7. Retour Menu Principal"
1260 PRINT CHR$(7): >NB
1270 as=INKEY$:IF as="" THEN 1270 >ZF
1280 IF as="1" THEN 1360 >PF
1290 IF as="2" THEN 1660 >PV
1300 IF as="3" THEN 1860 >PP
1310 IF as="4" THEN 2060 >PJ
1320 IF as="5" THEN 2250 >PM
1330 IF as="6" THEN 2440 >PQ
1340 IF as="7" THEN 130 >PH
1350 GOTO 1270 >MG
1360 ' >VC
1370 'Date >VD
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 re$=s:re$=""
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$(r):" "Indication compte
r "kil(r):" Kms:GOTO 1510
1480 ORIGIN 72,338:DRAW 144,0:DRAW >VN
144,-22:DRAW 0,-22:DRAW 0,0:ORIGIN
352,338:DRAW 200,0:DRAW 200,-22:DR
AW 0,-22:DRAW 0,0
1490 CLS#1:LOCATE 11,5:PRINT"Fiche >YC
No "CHR$(24):" "r:r "CHR$(24):L
OCATE 46,5:PRINT"Operation "CHR$(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 >PF
#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
DR(pie$(r),1,50)+""na$=MID$(pie$
(r),51,25) ELSE na$=pie$(r)
1540 PRINT#1,STRING$(80,144):PRINT >KA
#1," Pieces Changees : "n
as:IF na$<"> THEN PRINT#1,TAB(29)
:nal$
1550 IF ace$(r)="" THEN 1570 >UL
1560 PRINT#1,STRING$(79,144):PRINT# >MH
1," Accessoires,Ingredients : "iac
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$(80,154): >YD
1610 r=0:na$=""na$="" >QX
1620 RETURN >FC
1630 re$=""CLS#2:PRINT CHR$(7):LO >PB
CATE#2,28,1:PRINT#2,"UNE AUTRE RECH
ERCHE (O/N)"
1640 as=INKEY$:IF as="" THEN 1640 >ZH
1650 IF as="O" OR as="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 consul
ter " :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 nfn 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=fn TO n: >MN
nat$(s)=UPPER$(nat$(s)):NEXT
1730 lo=LEN(re$) >LV
1740 FOR s=fn TO n >LC
1750 lo=LEN(nat$(s)) >QE
1760 FOR d=1 TO lo:ol$=MID$(nat$(s) >LE
),d,lo:IF ol$=re$ THEN r=s:ou=1:G
o 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 D/N"
1820 as$=INKEY$:IF as$="" THEN 1820 >ZH
1830 IF as$="O" OR as$="o" THEN CLS#1 >RF
:CLS#2:GOTO 1780
1840 IF as$="N" OR as$="n" THEN s=n:G >HY
OTO 1780
1850 GOTO 1820 >NC
1860 CLS >AE
1870 CLS:LOCATE 19,1:PRINT CHR$(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 nfn 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=fn TO n: >ME
pie$(s)=UPPER$(pie$(s)):NEXT
1930 lo=LEN(re$) >LX
1940 FOR s=fn TO n >LE
1950 lo=LEN(pie$(s)) >QB
1960 FOR d=1 TO lo:ol$=MID$(pie$(s) >DG
),d,lo:IF ol$=re$ THEN r=s:ou=1:G
OTO 2000
1970 NEXT d >VH

```

```

1980 NEXT s
1990 GOTO 1790
2000 GOSUB 1470
2010 PRINT CHR$(7):LOCATE#2,18,1:P >
RINT#2,"Voulez-vous continuer la re
cherche D/N"
2020 as$=INKEY$:IF as$="" THEN 2020 >YE
2030 IF as$="O" OR as$="o" THEN CLS#1 >RA
:CLS#2:GOTO 1980
2040 IF as$="N" OR as$="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$(18):INPUT
nf:IF nfn THEN LOCATE 2,7:PRINT"V
ous n'avez que";n;"fiches en memoir
e":GOTO 2080
2090 LOCATE 1,5:PRINT CHR$(20) >YG
2100 LOCATE 28,10:PRINT"UN INSTANT >TQ
JE CHERCHE"
2110 re$=UPPER$(re$):FOR s=fn TO n: >MA
ace$(s)=UPPER$(ace$(s)):NEXT
2120 lo=LEN(re$) >LN
2130 FOR s=fn TO n >LD
2140 lo=LEN(ace$(s)) >PW
2150 FOR d=1 TO lo:ol$=MID$(ace$(s) >DL
),d,lo:IF ol$=re$ THEN r=s:ou=1:G
OTO 2170
2160 NEXT d >UK
2170 NEXT s >WF
2180 GOTO 1790
2190 GOSUB 1470 >XG
2200 PRINT CHR$(7):LOCATE#2,18,1:P >DU
RINT#2,"Voulez-vous continuer la re
cherche D/N"
2210 as$=INKEY$:IF as$="" THEN 2210 >YD
2220 IF as$="O" OR as$="o" THEN CLS#1 >RT
:CLS#2:GOTO 2170
2230 IF as$="N" OR as$="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

```

```

>XD uelle No de Fiche ";CHR$(18):INPUT
nf:IF nfn THEN LOCATE 2,7:PRINT"V
ous n'avez que";n;"fiches en memoir
e":GOTO 2270
2280 LOCATE 1,5:PRINT CHR$(20) >YH
2290 LOCATE 28,10:PRINT"UN INSTANT >TB
JE CHERCHE"
2300 re$=UPPER$(re$):FOR s=fn TO n: >MN
gar$(s)=UPPER$(gar$(s)):NEXT
2310 lo=LEN(re$) >LP
2320 FOR s=fn TO n >LX
2330 lo=LEN(gar$(s)) >DP
2340 FOR d=1 TO lo:ol$=MID$(gar$(s) >DG
),d,lo:IF ol$=re$ THEN r=s:ou=1:G
OTO 2380
2350 NEXT d >VA
2360 NEXT s >WG
2370 GOTO 1790 >NG
2380 GOSUB 1470 >XH
2390 PRINT CHR$(7):LOCATE#2,18,1:P >DE
RINT#2,"Voulez-vous continuer la re
cherche D/N"
2400 as$=INKEY$:IF as$="" THEN 2400 >YF
2410 IF as$="O" OR as$="o" THEN CLS#1 >RV
:CLS#2:GOTO 2360
2420 IF as$="N" OR as$="n" THEN CLS#1 >PG
: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$(20) >YH
2470 FOR s=1 TO n:IF dep(s)=re THEN >RN
r=s:GOTO 2500
2480 NEXT s >MK
2490 re=0:LOCATE 26,10:PRINT"La Rec >CF
herche est terminee !!!":GOTO 1630
2500 GOSUB 1470 >XB
2510 PRINT CHR$(7):LOCATE#2,18,1:P >DY
RINT#2,"Voulez-vous continuer la re
cherche D/N"
2520 as$=INKEY$:IF as$="" THEN 2520 >ZD
2530 IF as$="O" OR as$="o" THEN CLS#1 >RB
:CLS#2:GOTO 2480
2540 IF as$="N" OR as$="n" THEN CLS#1 >QE
:s=n:GOTO 2480
2550 GOTO 2520 >MJ
2560 "----- >YF
2570 TOTAL DEPENSES >YG
2580 "----- >YH
2590 CLS >YF
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$(n) >H6
);" Le total de vos Depenses s'eleve
a ";USING"#####.### F";tdep+m1
2640 FOR t=1 TO 3000:NEXT:GOTO 130 >BE
2650 IF ch$(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<0 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$(7);:LOCATE#2, >XC
20,1:PRINT#2,"FIN DE LISTE
UNE TOUCHE S.V.P"
2860 CALL &B06:GOTO 130 >RB
2870 "----- >YK
2880 "DERNIERE INTER. >ZA
2890 "----- >ZB
2900 CLS >AA
2910 WINDOW#1,1,80,9,23:PAPER#1,1:P >JG
EN#1,0
2920 ORIGIN 112,390:DRAW 412,0:DRAW >BM
412,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
116,386:DRAW 404,0:DRAW 404,-20:DR
AW 0,-20:DRAW 0,0:LOCATE 17,2:PRINT
** DERNIERE INTER
VENTION**
2930 IF n<0 THEN 4030 >PH
2940 LOCATE 2,6:PRINT"ATTENTION LA >FH
RECHERCHE NE S'EFFECTUE QUE SUR LA
NATURE DE L'INTERVENTION":LOCATE 2,
7:PRINT"OU SUR LES PIECES CHANGEES"
2950 LOCATE 2,9:PRINT"Sur quelle in >CU
tervention desirez-vous etre inform
e "CHR$(18):INPUT re$:IF LEN(re$)
>25 THEN LOCATE 21,12:PRINT CHR$(24
);" LIGNE TROP LONGUE max. 25 caract
eres "CHR$(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$) >VN
3040 FOR d=1 TO lo1:ol$=MID$(long$,
d,lo1):LOCATE 56,11:PRINT CHR$(24);s
:CHR$(24):IF ol$=re$ 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 >XR
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$(7):LOCATE 32,25:PRINT"UNE TOUCHE
E S.V.P":CALL &B06:GOTO 130
3110 "----- >XH
3120 "CONSULTATION PAR OPERATION >XJ
3130 "----- >XK
3140 CLS >ZH
3150 ORIGIN 132,390:DRAW 368,0:DRAW >WF
368,-28:DRAW 0,-28:DRAW 0,0:ORIGIN
136,386:DRAW 360,0:DRAW 360,-20:DR
AW 0,-20:DRAW 0,0:LOCATE 19,2:PRINT
** CONSULTATION DES FICHES PAR OPE
RATION**
3160 IF n<0 THEN 4030 >PD
3170 WINDOW#1,1,80,7,23:PAPER#1,1:P >JD
EN#1,0
3180 WINDOW#2,1,80,25,25:PAPER#2,0: >KZ
PEN#2,1
3190 LOCATE 2,6:PRINT"Duelles Opera >LB
tions voulez-vous consulter ":LOCAT
E 44,5:PRINT"[E]ntretien":LOCATE 44
,6:PRINT"[R]eparation":LOCATE 44,7:
PRINT"[D]ivers"
3200 LOCATE 20,10:PRINT"Votre choix >UW
";CHR$(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 &B06:
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$="s" THEN CLS#2 >KX
:GOTO 3300
3290 GOTO 3250 >NB
3300 RETURN >EK
3310 "----- >XK
3320 "GRAPHIQUE >YA
3330 "----- >YB
3340 CLS >ZK
3350 FOR s=1 TO 11:c$(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 SONS FORME DE
GRAPHIQUE":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$(BO,15) >FY
4);
3430 re$=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,1):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$(40) >BL
3510 GOSUB 3610 >XB
3520 dra=0:ORIGIN 40,24:FOR s=1 TO >JJ
11:IF c(s)=0 THEN 3560 ELSE dra=INT
((kil(c(s))-kil(c(s-1)))/650)
3530 IF dra<0 THEN s=11:GOTO 3560 >ZJ
3540 DRAWR 56,dra:DRAWR 0,10:DRAWR >KU
0,-10:LOCATE (XPOS/B)+2,25-(YPOS/16
1)-3:PRINT kil(c(s)):LOCATE (XPOS/B
+3,25-(YPOS/16)-4:PRINT"€";c(s)
3550 ddr=c(s) >BG
3560 NEXT >LF
3570 IF dd=0 THEN 3590 >PT
3580 LOCATE 17-(LEN(re$)/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 &BBO6:GOTO 130 >WU
3610 ORIGIN 36,24:DRAW 564,0:ORIGIN >NM
40,20:DRAW 0,310:FOR x=96 TO 600 S
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 >XP
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 >XV
registre date du ";dt$:LOCATE 2
,5:PRINT"Vous avez achete un total
de";lit;"litre pour un montant tota
l de";USING i$;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
";l1:lit=l1+l1
3750 LOCATE 2,15:INPUT"Prix paye >DV
";ml:ml=ml+l1
3760 LOCATE 2,16:PRINT"Total Comete >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$(18)
3780 IF toc1<5000 THEN 3810 >UX
3790 LOCATE 2,19:PRINT"VOTRE CONSON >UD
MATION MOYENNE EST DE ";CHR$(24):FO
UND((lit/(toc1+300))*100,2); "Litres
aux 100 ";CHR$(24)
3800 cl=ROUND((ml/lit),2):LOCATE 2 >AX
,21:PRINT"Vous avez achete un total
de";lit;"litres pour un montant to
tal de";ml;"€";"Frs":LOCATE 2,22:PRINT
soit une moyenne de";cm;"€";"Frs le li
tre"
3810 toc=toc1 >UA
3820 li=0:ml=0:PRINT CHR$(7);LOCA >XD
TE 32,25:PRINT"UNE TOUCHE S.V.P.":C
ALL &BBO6: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:tdep=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$:
LOCATE 3,6:PRINT"TOTAL KILOMETRAGE
";toc1:PRINT" PRI
X D'ACHAT ";USING i$;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 12,272:0
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,-112:0
```

```
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:PRI
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 i$;ml >YM
:LOCATE 17,12:PRINT USING i$;ml
/toc:LOCATE 25,12:PRINT USING i$;t
ade:LOCATE 38,12:PRINT USING i$;#
";tagdep(toc):LOCATE 47,12:PRINT USI
NG i$;tade:ml:LOCATE 60,12:PRINT
USING i$;#;#;#;#;#;#;#;#;#;#;#;#;#;#
(tade+ml)/toc
3970 LOCATE 71,12:PRINT USING i$;# >WJ
";#;#;#;#;#;#;#;#;#;#;#;#;#;#;#;#;#;#
(tade+ml)/toc
3980 LOCATE 3,15:PRINT"Consommation >UG
moyenne ";CHR$(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 &BBO6:GO
TO 130
4000 LOCATE 6,11:PRINT"Date de l'ac >KR
hat IJJ.MM.AAJ ";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$(n)="D":RETURN >RR
4030 LOCATE 31,11:PRINT"MANQUE DE >YL
ONNEES":FOR t=1 TO 2000:NEXT:GOTO 1
30
4040 SOUND 1,200,30,15:LOCATE 30,10 >DF
:PRINT"25 CARACTERES MAXIMUM":FOR a
=1 TO 2000:NEXT:RETURN
4050 CLS:IF ERL=710 THEN LOCATE 28, >QG
11:PRINT"FICHE NON TROUVEE";f$="":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"; >XQ
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
 X CPC 464
 X CPC 664
 X CPC 6128

Ce 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 périodiques et sa composition latine, les moles et le nombre d'Avogadro se rappelleront à votre souvenir. Bon courage tout de même...

```

10 *****
20 CHIMIE
30
40 - 21 ko -
50 (c) ADUT 1987
60 REY St.
70 *****
80 ON BREAK GOSUB 5400
90 MODE 2:RESTORE 570:BORDER 4:INK 0,1:INK 1,16:PAPER 0:OFF
:PEN 1
100 WINDOW #1,5,26,8,20:PAPER #1,1:PEN #1,0:CLS#1
110 *****
120 SYMBOL AFTER 175
130 SYMBOL 175,15,15,60,60,240,240,240
140 SYMBOL 176,240,240,60,60,0,0,0,0
150 SYMBOL 177,240,240,60,60,15,15,0,0
```

```

/LA
/LB
/LC
/LD
/LE
/LF
/LG
/QU
/DA
/RC
/PZ
/HA
/BA
/DR
```

S t r é p h a n e e R E Y

```

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 182,63,63,3,3,3,3,3,3 >YG
210 SYMBOL 183,252,252,192,192,192,192,192,192 >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 186,240,240,252,252,255,255,255,255 >ME
250 SYMBOL 187,60,60,252,252,252,252,252,252 >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 191,60,60,60,60,60,255,255,0,0 >DF
300 SYMBOL 192,192,192,12,12,252,252,0,0 >FW
310 SYMBOL 245,0,0,4,6,6,6,6,6 >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 >GW
350 CC$=CHR$(175)+CHR$(176)+CHR$(178)+CHR$(180)+CHR$(182)+CHR$(184)+CHR$(185) >VF
R$(177)+CHR$(178)
360 HH$=CHR$(179)+CHR$(180)+CHR$(181)+CHR$(182)+CHR$(183)+CHR$(184)+CHR$(185) >VE
R$(181)+CHR$(181)
370 II$=CHR$(182)+CHR$(183)+CHR$(184)+CHR$(185)+CHR$(186)+CHR$(187)+CHR$(188)+CHR$(189)+CHR$(190)+CHR$(191)+CHR$(192) >VM
R$(184)+CHR$(185)
```



```

380 M$=CHR$(186)+CHR$(187)+CHR$(8)+CHR$(8)+CHR$(10)+CH >VF
R$(188)+CHR$(181)
390 E$=CHR$(189)+CHR$(190)+CHR$(8)+CHR$(8)+CHR$(10)+CH >WZ
R$(191)+CHR$(192)
400 N$=CHR$(245)+CHR$(246)+CHR$(8)+CHR$(8)+CHR$(10)+CH >VR
R$(247)+CHR$(248)
410 LOCATE 31,3:PRINT C$:LOCATE 34,3:PRINT H$:LOCATE >CB
37,3:PRINT I$:LOCATE 40,3:PRINT M$:LOCATE 43,3:PRINT
I$:LOCATE 46,3:PRINT E$
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 11,7,4: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) AOUT 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$( >EN
209)
520 ORIGIN 215,65:DRAW 0,200:ORIGIN 214,65:DRAW 0,200 >WJ
530 LOCATE 5,21:PRINT CHR$(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 >YA
550 '*** MENU DESCENDANT ***
560 GOSUB 950 >JE
570 DATA "- INSTRUCTIONS","- Classification periodique >UB
des elements","- Exercices sur les elements"
580 DATA "- Calculs (et Formules) ","- QUITTER " >YH
590 FOR I=1 TO 5:READ X$(I):NEXT I=1 >DH
600 PEN 1:LOCATE 1,24:PRINT CHR$(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+I*2:PRINT CHR$(24); " ";X$(H); " ";CHR$(2 >AT
4)
630 R$="":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 **":V=3:M=80:GOSUB 4110:GOS >ZB
UB 1100:GOSUB 1000
720 LOCATE 13,17:PRINT " Vous avez du mal a assimiler le >BP
s caracteristiques de"
730 GOSUB 1150:LOCATE 13,8:PRINT"certains elements chim >WP
iques ? Vous souhaitez connaitre"
740 GOSUB 1150:LOCATE 13,9:PRINT"le nombre de moles con >RG
tenues dans un corps ou meme le"
750 GOSUB 1150:LOCATE 13,10:PRINT"volume d'un gaz et d' >KL
autres encore ? Alors CHIMIE "
760 GOSUB 1150:LOCATE 13,11:PRINT"pourra peut etre vous >UR
aidez a resoudre ses problemes."
770 GOSUB 1150:LOCATE 13,13:PRINT" Regroupant 6 formu >PA

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es de calculs, ainsi que les 103"
780 GOSUB 1150:LOCATE 13,14:PRINT"elements de la classi >TV
fication periodique ( et leurs "
790 GOSUB 1150:LOCATE 13,15:PRINT"caracteristiques ", C >AR
HIMIE vous aidera a resoudre des"
800 GOSUB 1150:LOCATE 13,16:PRINT"exercices a l'aide >QW
des formules comprises dans le"
810 GOSUB 1150:LOCATE 13,17:PRINT"programme et a revise >QF
r ou meme a apprendre les ele-"
820 GOSUB 1150:LOCATE 13,18:PRINT"ments chimiques grace >TZ
a de petits exercices compris"
830 GOSUB 1150:LOCATE 13,19:PRINT"eux aussi dans ce pro >YR
gramme ."
840 GOSUB 1150:LOCATE 21,21:PRINT" Encore BONNE CHANCE >FE
et BON TRAVAIL !!!"
850 LOCATE 1,24:PRINT CHR$(24); " >EG
<<<< TAPER UNE TOUCHE >>>>
"CHR$(24):CALL &B80:RESTORE 570:GOSUB 1170:GOTO 90 >TE
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 >BT
$,D$,E$:CLS:GOSUB 1100
900 H$="* CHIMIE *":V=3:M=40:GOSUB 4110:GOSUB 1050:LOCA >ZY
TE 7,8:PRINT " Nom : ";A$:LOCATE 7,10:PRINT " Symbo
le : ";B$
910 LOCATE 7,12:PRINT " No atom. : ";C$:LOCATE 7,14:PR >BM
INT" Poids atom. : ";D$:LOCATE 7,16:PRINT " Famille
: ";E$
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 &B81: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 >BG
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 >UG
1020 MOVE 69,56:DRAW 69,316:DRAW 554,316 >QE
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

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1180 SOUND 1,180,18,10: SOUND 1,250,18,10: RETURN
 1190 ***** DATAS *****
 1200 DATA ACTINIUM,Ac,89,227,ACTINIDES
 1210 DATA ALUMINIUM,Al,13,27,METALUX
 1220 DATA AMERICIUM,Am,95,243,ACTINIDES
 1230 DATA ANTIMONY,Sb,51,121.8,METALUX
 1240 DATA ARGENT,Ag,47,107.9,METALUX
 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,METALUX
 1300 DATA BERKELIUM,Bk,97,249,ACTINIDES
 1310 DATA BERYLLIUM,Be,4,9,METALUX
 1320 DATA BISMUTH,Bi,83,209,METALUX
 1330 DATA BORE,B,5,10.8,METALLOIDES
 1340 DATA BROME,Br,35,79.9,METALLOIDES
 1350 DATA CADMIUM,Cd,48,112.4,METALUX
 1360 DATA CAESIUM,Cs,55,132.9,METALUX
 1370 DATA CALCIUM,Ca,20,40.1,METALUX
 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,METALUX
 1430 DATA COBALT,Co,27,58.9,METALUX
 1440 DATA CUIVRE,Cu,29,63.5,METALUX
 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,METALUX
 1500 DATA EUROPIUM,Eu,63,152,LANTHANIDES
 1510 DATA FER,Fe,26,55.8,METALUX
 1520 DATA FERMIUM,Fm,100,255,ACTINIDES
 1530 DATA FLUOR,F,9,19,METALLOIDES
 1540 DATA FRANCIUM,Fr,87,223,METALUX
 1550 DATA GADOLINIUM,Gd,64,157.3,LANTHANIDES
 1560 DATA GALLIUM,Ga,31,69.7,METALUX
 1570 DATA GERMANIUM,Ge,32,72.6,METALUX
 1580 DATA HAFNIUM,Hf,72,178.5,METALUX
 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,METALUX
 1630 DATA IODE,I,53,126.9,METALLOIDES
 1640 DATA IRIDIUM,Ir,77,192.2,METALUX
 1650 DATA KRYPTON,Kr,36,83.8,GAZ
 1660 DATA LANTHANUM,La,57,138.9,LANTHANIDES
 1670 DATA LAWRENCIUM,Lr,103,257,ACTINIDES
 1680 DATA LITHIUM,Li,3,6.9,METALUX
 1690 DATA LUTETIUM,Lu,71,175,LANTHANIDES
 1700 DATA MAGNESIUM,Mg,12,24.3,METALUX
 1710 DATA MANGANESE,Mn,25,54.9,METALUX
 1720 DATA MENDELEVIUM,Md,101,256,ACTINIDES
 1730 DATA MERCURE,Hg,80,200.6,METALUX
 1740 DATA MOLYBDENE,Mo,42,95.9,METALUX

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,METALUX
 1790 DATA NIOBIUM,Nb,41,92.9,METALUX
 1800 DATA NOBELIUM,Nb,102,253,ACTINIDES
 1810 DATA OR,Ar,79,197,METALUX
 1820 DATA OSMIUM,Os,76,190.2,METALUX
 1830 DATA OXYGENE,O,8,16,METALLOIDES
 1840 DATA PALLADIUM,Pd,46,106.4,METALUX
 1850 DATA PHOSPHORE,P,15,31,METALLOIDES
 1860 DATA PLATINE,Pt,78,195.1,METALUX
 1870 DATA PLOMB,Pb,82,207.2,METALUX
 1880 DATA PLUTONIUM,Pu,94,242,ACTINIDES
 1890 DATA POLONIUM,Po,84,209,METALUX
 1900 DATA POTASSIUM,K,19,39.1,METALUX
 1910 DATA PRASEODYME,Pr,59,140.9,LANTHANIDES
 1920 DATA PROMETHIUM,Pm,61,145,LANTHANIDES
 1930 DATA PROCTACTINIUM,Pa,91,231,ACTINIDES
 1940 DATA RADIUM,Ra,88,226.1,METALUX
 1950 DATA RADON,Rn,86,222,GAZ
 1960 DATA RHENIUM,Rh,75,186.2,METALUX
 1970 DATA RHODIUM,Rh,45,102.9,METALUX
 1980 DATA RUBIDIUM,Rb,37,85.5,METALUX
 1990 DATA RUTHENIUM,Ru,44,101.1,METALUX
 2000 DATA SAMARIUM,Sm,62,150.4,LANTHANIDES
 2010 DATA SCANDIUM,Sc,21,45,METALUX
 2020 DATA SELENIUM,Se,34,79,METALLOIDES
 2030 DATA SILICIUM,Si,14,28.1,METALLOIDES
 2040 DATA SODIUM,Na,11,23,METALUX
 2050 DATA STRONTIUM,Sr,38,87.6,METALUX
 2060 DATA SOUFRE,S,16,32.1,METALLOIDES
 2070 DATA TANTALE,Ta,73,180.9,METALUX
 2080 DATA TECHNETIUM,Tc,43,99,METALUX
 2090 DATA TELLURIUM,Te,52,127.6,METALLOIDES
 2100 DATA TERBIUM,Tb,65,158.9,LANTHANIDES
 2110 DATA THALLIUM,Tl,81,204.4,METALUX
 2120 DATA THORIUM,Th,90,232,ACTINIDES
 2130 DATA THULIUM,Tm,69,168.9,LANTHANIDES
 2140 DATA TITANE,Ti,22,47.9,METALUX
 2150 DATA TUNGSTENE,W,74,183.9,METALUX
 2160 DATA URANIUM,U,92,238,ACTINIDES
 2170 DATA VANADIUM,V,23,50.9,METALUX
 2180 DATA XENON,Xe,54,131.3,GAZ
 2190 DATA YTBERIUM,Yb,70,173,LANTHANIDES
 2200 DATA YTTRIUM,Y,39,88.9,METALUX
 2210 DATA ZINC,Zn,30,65.4,METALUX
 2220 DATA ZIRCONIUM,Zr,40,91.2,METALUX
 2230 END
 2240 *****
 2250 **** CLASSIFICATION (MENU) ****
 2260 WHILE !KEY\$<"":GOTO 4110
 2270 MODE 1:CLS:GOSUB 1100:HS="* CLASSIFICATION PERIODI"
 2280 QUE "":Y=3:M=40:GOSUB 4110
 2280 HS="* 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."



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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." >GH
2340 LOCATE 1,23:PRINT CHR$(24):" <<< Taper votre >QQ
choix >>> "CHR$(24)
2350 Z$=INKEY$ >YK
2360 IF Z$="A" OR Z$="a" THEN GOSUB 1170:GOTO 860 >PR
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$<>"":WEND >VQ
2440 RESTORE 1200:MODE 1:CLS:GOSUB 1100: H$="* Recherche >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 >YD
2480 GOSUB 2730:GOTO 2510 >TH
2490 NEXT >LG
2500 GOSUB 2530 >MK
2510 LOCATE 1,23:PRINT CHR$(24):" <<< TAPER UNE >KG
TOUCHE >>> "CHR$(24)
2520 CALL LB060:GOSUB 1170:GOTO 2250 >CA
2530 H$="DESOLE, MAIS NON REPERTOIRE...":Y=17:M=40:GOSU >YJ
B 4110:FOR H=1 TO 500:NEXT:RETURN
2540 **** recherche par le SYMBOLE **** >YD
2550 WHILE INKEY$<>"":WEND >VU
2560 RESTORE 1200:MODE 1:CLS:GOSUB 1100:H$="* Recherche >GT
par Symbole *":Y=3:M=40:GOSUB 4110
2570 LOCATE 5,8:INPUT"Symbole de l'element : ",R$ >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 ' *****
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$(24):" QUESTION >MC
No ";Q:CHR$(24)
2980 RESTORE 1200:FOR I=1 TO X:READ A$,B$,C$,D$,E$:NEXT >HM
I:C=C+1
2990 ORIGIN 62,25:DRAW 0,348:ORIGIN 63,25:DRAW 0,348 >VT
3000 ORIGIN 62,25:DRAW 510,0:ORIGIN 183,25:DRAW 0,348:0 >CR
RIGIN 184,25:DRAW 0,348
3010 ORIGIN 262,25:DRAW 0,348:ORIGIN 342,25:DRAW 0,348 >XB
3020 ORIGIN 446,25:DRAW 0,348:ORIGIN 572,25:DRAW 0,348: >EE
ORIGIN 573,25:DRAW 0,348
3030 ORIGIN 62,342:DRAW 510,0:ORIGIN 62,375:DRAW 510,0 >XR
3040 LOCATE 29,1:PRINT CHR$(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$(1 >XH
41):LOCATE 4,11:PRINT CHR$(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 >NW
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)

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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$(13):LOCATE 10,C:FOR M=200 >BF
TO 1 STEP -10:SOUND 1,m,1,15:NEXT m:PRINT A$: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$<>"":WEND >VP
3420 CLS:MODE 2:n=103:SC=0:C=3 >YE
3430 FOR Q=1 TO 11:IF Q=11 THEN 4070 >AF
3440 RANDOMIZE TIME:X=INT(RND*n)+1 >EC
3450 X(Q)=X >XF
3460 FOR J=1 TO Q-1 >ME
3470 IF X(Q)=X(J) THEN 3440 >UL
3480 NEXT J >WB
3490 GOSUB 2960 >YF
3500 C=C+1:LOCATE 10,C:PRINT A$: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$<>"":WEND >VX
3760 CLS:MODE 2:n=103:SC=0:C=3 >YM
3770 FOR Q=1 TO 11:IF Q=11 THEN 4070 >AN
3780 RANDOMIZE TIME:X=INT(RND*n)+1 >EY
3790 X(Q)=X >YB
3800 FOR J=1 TO Q-1 >MD
3810 IF X(Q)=X(J) THEN 3780 >UR
3820 NEXT J >VK
3830 GOSUB 2960 >YD
3840 C=C+1:LOCATE 10,C:PRINT A$: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
```




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LOCATE 12,12:PRINT "SCORE : ";SC: / 10"
4090 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une >PE
touche >>> "CHR$(24)
4100 CALL &B806: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 >HM
$(153)
4170 RETURN >FF
4180 "***** Calculs (et formules) ***** >YF
4190 MODE 1:CLS:GOSUB 1100:H$="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." >QV
4220 LOCATE 5,10:PRINT"C- Nombre de particules d'un cor >TF
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." >ZF
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 AS=INKEY$ >WK
4300 IF AS="a" OR AS="A" THEN GOSUB 1180:GOTO 4390 >PT
4310 IF AS="b" OR AS="B" THEN GOSUB 1180:GOTO 4510 >PP
4320 IF AS="c" OR AS="C" THEN GOSUB 1180:GOTO 4630 >FW
4330 IF AS="d" OR AS="D" THEN GOSUB 1180:GOTO 4760 >PD
4340 IF AS="e" OR AS="E" THEN GOSUB 1180:GOTO 4870 >QA
4350 IF AS="f" OR AS="F" THEN GOSUB 1180:GOTO 4990 >QG
4360 IF AS="g" OR AS="G" THEN GOSUB 1180:GOTO 5290 >QD
4370 IF AS="h" OR AS="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$; >HM
". M(x)":LOCATE 8,9:PRINT STRING$(25,154)
4440 LOCATE 11,11:PRINT NN$;"= 6.02*10 mol" >MG
4450 LOCATE 22,11:PRINT"23 -1" >ZN
4460 LOCATE 12,14:PRINT"(ou 6.02*1E+24)" >HQ
4470 LOCATE 5,17:INPUT"Entrez la valeur de m(x):",rep >BG
4480 resultat=6.02*1E+24*rep >XF
4490 LOCATE 10,20:PRINT " M(x) =":ROUND(resultat,2) >XH
4500 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une >XY
touche >>> "CHR$(24):CALL &B806:GOTO 4180
4510 "*** Volume d'un gaz *** >YC
4520 WHILE INKEY$<"":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

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4550 LOCATE 18,8:PRINT "V(x) = n(x) . Vm" >KA
4560 LOCATE 8,9:PRINT STRING$(26,154) >FF
4570 LOCATE 5,12:INPUT"Entrez la valeur de n(x):",n >DZ
4580 LOCATE 5,15:INPUT"Entrez la valeur de Vm :",v >CZ
4590 resultat=n*v >NH
4600 LOCATE 13,20:PRINT"V(x) =":ROUND(resultat,2) >WD
4610 LOCATE 1,23:PRINT CHR$(24);" <<< Taper une >XA
touche >>> "CHR$(24):CALL &B806:GOTO 4180
4620 END >ZA
4630 "*** Nombre de particules d'un corps *** >YF
4640 WHILE INKEY$<"":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$(24);" <<< Taper une t >PB
ouche >>> "CHR$(24)
4750 CALL &B806: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$(24):CALL &B806:GOTO 4180
4870 "*** Volume molaire d'un gaz *** >ZB
4880 WHILE INKEY$<"":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 &B806: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 16,11:PRINT"(S/L/G)"
5030 z$=INKEY$
5040 IF z$="S" OR z$="s" THEN GOSUB 1180:GOTO 5080
5050 IF z$="L" OR z$="l" THEN GOSUB 1180:GOTO 5170
5060 IF z$="G" OR z$="g" THEN GOSUB 1180:GOTO 5200
5070 GOTO 5030
5080 *** Nombre de moles d'un solide ***
5090 MODE 1:CLS:GOSUB 1400:H$="Nombre de moles d'un soli
ide":Y=3:M=40:GOSUB 4110
5100 LOCATE 8,8:PRINT"Formule ="
5110 LOCATE 18,8:PRINT "n(x) =" :LOCATE 24,8:PRINT STRIN
G$(6,154):LOCATE 24,7:PRINT " V(x)":LOCATE 24,9:PRINT "
M(x)"
5120 LOCATE 5,12:INPUT"Entrez la valeur de m(x):",h
5130 LOCATE 5,15:INPUT"Entrez la valeur de M(x):",k
5140 resultat=h/k
5150 LOCATE 13,20:PRINT"n(x) =" :ROUND(resultat,2)
5160 LOCATE 1,23:PRINT CHR$(24):" <<< Taper une t
ouche >>> " :CHR$(24):CALL &B06:GOTO 4180
5170 *** Nombre de moles d'un liquide ***
5180 MODE 1:CLS:GOSUB 1100:H$="Nombre de moles d'un liq
uide":Y=3:M=40:GOSUB 4110
5190 GOTO 5100
5200 *** Nombre de moles d'un gaz ***
5210 MODE 1:CLS:GOSUB 1100:H$="Nombre de moles d'un gaz
" :Y=3:M=40:GOSUB 4110
5220 LOCATE 8,8:PRINT"Formule ="
5230 LOCATE 18,8:PRINT "n(x) =" :LOCATE 24,8:PRINT STRIN
G$(6,154):LOCATE 24,7:PRINT " V(x)":LOCATE 24,9:PRINT "
M(x)"
5240 LOCATE 5,12:INPUT"Entrez la valeur de m(x):",p
5250 LOCATE 5,15:INPUT"Entrez la valeur de Vm(x):",r
5260 resultat=p/r
5270 LOCATE 13,20:PRINT"n(x) =" :ROUND(resultat,2)
5280 LOCATE 1,23:PRINT CHR$(24):" <<< Taper une t
ouche >>> " :CHR$(24):CALL &B06:GOTO 4180
5290 *** Legende ***
5300 CLS:MODE 1:GOSUB 1100:H$="** Legende **":Y=3:M=40:
GOSUB 4110
5310 LOCATE 5,7:PRINT"m = masse d'un corps."
5320 LOCATE 5,9:PRINT"V = volume d'un gaz."
5330 LOCATE 5,11:PRINT"n = nbre de moles."
5340 LOCATE 5,13:PRINT"Vm = volume molaire d'un corps."
5350 LOCATE 5,14:PRINT"NN$ = nbre d'AVOGADRO."
5360 LOCATE 5,17:PRINT "N = nbre de particules."
5370 LOCATE 5,19:PRINT "M = masse molaire aton. d'un co
rps."
5380 LOCATE 1,23:PRINT CHR$(24):" <<< Taper une
touche >>> " :CHR$(24)
5390 CALL &B06:GOTO 4180
5400 RETURN

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