

Valable pour
☒ CPC 464
☒ CPC 664
☒ CPC 6128

STRADAMUSE

Michel PARISOT

Stradamuse est un logiciel de création musicale polyphonique 3 voies : vous écrivez vos compositions sur les portées qui s'affichent à l'écran, et le programme se charge d'exécuter votre chef-d'œuvre.

FUNCTIONNEMENT

Stradamuse propose cinq options accessibles depuis le menu qui s'affiche quand on appuie sur la touche "M".

1. Ecoute :

- on peut écouter chaque voie séparément ou les 3 voies simultanément ;
- avant de jouer les 3 voies simultanément, le programme calcule la synchronisation des canaux, ce qui peut prendre un certain temps.

2. Ecriture :

- **Ecrire une note** : placez * avec les touches du curseur à la hauteur voulue, tapez ENTER, choisissez la durée et les altérations éventuelles, validez avec COPY, tapez ENTER.

- **Effacer une note** : placez * avec les touches du curseur sur la note à supprimer, tapez DEL.

- **Insérer une note** : placez * avec les touches du curseur sur la note devant laquelle doit se faire l'insertion, à la hauteur voulue, tapez ENTER, choisissez la durée et les altérations éventuelles, validez avec COPY, tapez ENTER.

- **changer de page** : CTRL— ou CTRL—

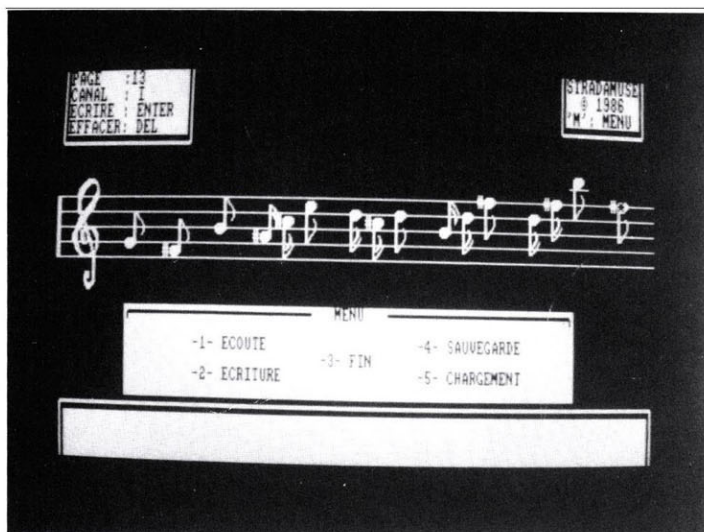
Remarque : lorsque le nombre de notes en mémoire est important, il peut arriver que l'Amstrad se bloque, le temps de réorganiser sa mémoire.

3 Fin : cette option permet d'accéder à une liste des notes, des durées et de l'état du canal pour chaque note. Vous pourrez ainsi récupérer vos chefs-d'œuvre pour les utiliser dans d'autres programmes.

4 Sauvegarde

5 Chargement

Remarques : l'écriture se fait en clé de sol sur les 3 voies, mais la voie 3 est jouée un octave plus bas.



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10 '%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%'
20 '%'
30 '%' S T R A D A M U S E '%'
40 '%'
50 '%' (C) 1986 '%'
60 '%'
70 '%' MICHEL PARISOT '%'
80 '%'
90 '%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%'
100 ON ERROR GOTO 1010
110 DEFINT a-z
120 ENV 1,2,7,1,14,-1,20
130 ENT -1,1,-1,8,1,1,8
140 ff=1:page=1:MODE 2
150 KEY 138,"MODE 2:list"+CHR$(13)
160 INK 0,3:INK 1,3:BORDER 3
170 FOR i=7 TO 15:LOCATE 18,i:PRINT STRI
NG$(46,233):NEXT i:INK 1,15
171 FOR i=1 TO 1000:NEXT i
180 FOR i=18 TO 63:FOR j=7 TO 15:LOCATE
i,j:READ a:PRINT CHR$(a):NEXT j,i

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190 DATA 150,149,149,149,147,32,32,150,1
47
200 DATA 154,32,32,32,154,32,32,154,154
210 DATA 154,150,149,147,154,32,32,154,1
54
220 DATA 154,154,32,154,154,32,32,154,15
4
230 DATA 154,154,32,154,154,32,32,154,15
4
240 DATA 154,154,32,154,156,149,149,153,
154
250 DATA 154,154,32,154,32,32,32,154

260 DATA 156,153,32,156,149,149,149,149,
153
270 DATA 32,32,32,32,32,32,32,32,32
280 DATA 32,32,32,146,32,32,32,32,32
290 DATA 32,32,149,159,149,149,149,149,1
47
300 DATA 32,32,32,152,32,32,32,32,152
310 DATA 32,32,32,32,32,32,32,32,32
320 DATA 32,32,32,151,149,149,149,149,14
5
330 DATA 32,32,32,156,145,32,32,32,32
340 DATA 32,32,32,32,32,32,32,32,32
350 DATA 32,32,32,150,32,150,149,149,147
360 DATA 32,32,32,154,32,154,32,32,154
370 DATA 32,32,32,156,149,157,149,149,15
3
380 DATA 32,32,32,32,32,32,32,32,32
390 DATA 32,32,32,150,149,149,149,149,14
7
400 DATA 32,32,32,154,32,32,32,32,154
410 DATA 32,149,149,157,149,149,149,149,
153
420 DATA 32,32,32,32,32,32,32,32,32
430 DATA 32,32,32,150,32,150,149,149,147

440 DATA 32,32,32,154,32,154,32,32,154
450 DATA 32,32,32,156,149,157,149,149,15
3
460 DATA 32,32,32,32,32,32,32,32,32
470 DATA 32,32,32,150,149,149,149,149,14
5
480 DATA 32,32,32,154,32,32,32,32,32
490 DATA 32,32,32,158,149,149,149,149,14
5
500 DATA 32,32,32,154,32,32,32,32,32
510 DATA 32,32,32,156,149,149,149,149,14
5
520 DATA 32,32,32,32,32,32,32,32,32
530 DATA 32,32,32,148,149,149,149,149,14
7
540 DATA 32,32,32,32,32,32,32,32,154
550 DATA 32,32,32,148,149,149,149,149,15
3
560 DATA 32,32,32,32,32,32,32,32,32
570 DATA 32,32,32,150,149,147,32,32,146

580 DATA 32,32,32,154,32,154,32,32,154
590 DATA 32,32,32,152,32,156,149,149,153
600 DATA 32,32,32,32,32,32,32,32,32
610 DATA 32,32,32,150,149,151,149,149,14
7
620 DATA 32,32,32,154,32,154,32,32,154
630 DATA 32,32,32,156,149,153,32,32,153
640 DATA 32,32,32,32,32,32,32,32,32
650 LOCATE 36,25:PRINT"<ENTER>";
660 a$=INKEY$
670 IF INKEY(18)*INKEY(6)=0 AND page=1 T
HEN GOSUB 1080
680 IF INKEY(18)*INKEY(6)=0 AND page=2 T
HEN GOSUB 1150
690 IF INKEY(18)*INKEY(6)=0 AND page=3 T
HEN GOSUB 1190
700 IF INKEY(18)*INKEY(6)=0 AND page=4 T
HEN GOSUB 1260
710 IF INKEY(18)*INKEY(6)=0 AND page=5 T
HEN page=2
720 IF INKEY(79)=0 THEN RUN"stradi
730 READ a,b,c:SOUND a,b,c*1.3,0,1,1
740 GOTO 660
750 DATA 49,127,20,42,169,80,28,338,20,3
3,134,20,12,380,20,33,127,20,12,338,40
760 DATA 1,113,20,49,106,20,42,127,80,28
,506,40,1,84,20,33,95,20,12,318,40
770 DATA 1,106,20,49,113,20,42,80,80,28,
380,40,1,127,20,33,134,20,12,338,40
780 DATA 1,127,20,49,134,20,42,113,40,28
,226,20,33,127,20,12,212,20
790 DATA 49,113,20,42,134,40,28,190,40,1
,169,20,49,127,20,42,169,80,28,338,20
800 DATA 33,134,20,12,380,20,33,127,20,1
2,338,40,1,113,20,49,106,20,42,127,80
810 DATA 28,506,40,1,84,20,33,95,20,12,3
18,40,1,106,20,49,113,20,42,80,40
820 DATA 28,380,40,1,127,20,49,84,80,42,
134,120,28,338,40,4,134,20,4,127,20
830 DATA 33,84,40,12,226,40,49,113,20,42
,134,80,28,168,20,33,127,20,12,190,20
840 DATA 33,113,20,12,168,40,1,106,20,49
,95,20,42,80,80,28,510,40,1,80,20
850 DATA 33,84,20,12,536,40,1,95,20,49,1
06,20,42,84,80,28,338,40,1,113,20
860 DATA 33,106,20,12,506,40,1,113,20,49
,127,20,42,106,40,28,168,20
870 DATA 33,113,20,12,190,20,49,106,20,4
2,127,40,28,106,40,1,95,20,49,84,20
880 DATA 42,106,80,28,254,40,1,106,20,33
,95,20,12,126,40,1,84,20,49,80,20
890 DATA 42,63,80,28,380,40,1,63,20,33,7
1,20,12,450,40,1,80,20,49,84,20
900 DATA 42,71,80,28,568,40,1,95,20,33,8
4,20,12,426,40,1,95,20,49,106,20
910 DATA 42,84,40,28,212,20,33,95,20,12,
226,20,49,84,20,42,106,40,28,212,40
920 DATA 1,80,20,49,71,20,42,84,80,28,28

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4,80,1,84,20,1,100,20,1,95,20,49,84,20
930 DATA 42,71,80,28,506,40,1,60,20,33,6
3,20,12,450,40,1,71,20,49,80,20
940 DATA 42,127,40,28,402,40,1,84,20,49,
80,20,42,95,40,28,380,40,1,84,20
950 DATA 49,95,20,42,80,80,28,190,20,33,
80,20,12,212,20,33,84,20,12,226,40
960 DATA 1,95,20,49,106,20,42,134,40,28,
168,40,1,113,20,49,106,20,42,127,40
970 DATA 28,212,40,1,95,20,49,84,20,42,6
3,80,28,416,40,1,127,20,33,106,20
980 DATA 12,380,40,1,113,20,49,127,20,42,
113,10,28,338,40,2,106,10,10,113,10
990 DATA 17,134,20,2,106,10,10,49,127,80,42,
127,120,28,506,40,4,426,20,4,380,20
1000 DATA 33,127,40,12,338,40
1010 RESTORE 750
1020 WHILE SQ(1)<>4 AND SQ(2)<>4 AND SQ(
4)<>4:WEND
1030 ff=ff+1:IF ff=4 THEN ff=1
1040 IF ff=1 THEN ENV 1,2,7,1,14,-1,20
1050 IF ff=2 THEN ENV 1,1,15,150,15,-1,1
1060 IF ff=3 THEN ENV 1,1,15,25,10,-1,20
1070 RESUME 660
1080 FOR i=1 TO 6:LOCATE 1,26:PRINT:NEXT
1090 WINDOW 9,70,11,25:CLS:page=2
1100 PRINT"Vous entendez en ce moment un
extrait de la Suite en si mineur de Jean
Sebastien BACH."
1110 PRINT:PRINT"Cet air a ete compile p
ar STRADAMUSE."
1120 PRINT:PRINT"STRADAMUSE permet de co
mposer sur les trois voies du C.P.C. eta
ssure lui meme la synchronisation des 3
canaux."
1130 PRINT:PRINT"Il permet aussi de corr
iger vos compositions en supprimant, i
nserant ou ajoutant des notes."
1140 PRINT:PRINT SPC(36)"<ENTER>":RETURN

1150 CLS:PRINT:PRINT SPC(20)"----- Mode
d'emploi -----":page=3
1160 PRINT:PRINT:PRINT"- Ecrire une note
: Placez * avec les touches du curseur
a la hauteur voulue, tapez enter,chois
issez la duree et les alte- rations eve
ntuelles, validez avec copy, tapez enter
."
1170 PRINT:PRINT:PRINT"- Effacer une not
e : Placez * avec les touches du curseur
sur la note a effacer, tapez del."
1180 PRINT:PRINT SPC(36)"<ENTER>":RETURN
1190 CLS:PRINT:PRINT SPC(20)"----- Mode
d'emploi -----":page=4
1200 PRINT:PRINT"- Insérer une note : Pl
acez * avec les touches du curseur sur"
;:PRINT" la note devant laquelle doit s
e faire l'insertion, a la hau-"

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1210 PRINT" teur voulue, tapez enter, c
hoisissez la duree et les altera- tions
eventuelles, validez avec copy, tapez e
nter."
1220 PRINT:PRINT"- Acceder au menu : Ta
pez M."
1230 PRINT:PRINT"- Changer de page : Ct
rl "CHR$(242)" ou Ctrl "CHR$(243)
1240 PRINT:PRINT"- Deplacer * : "C
HR$(240)", "CHR$(241)", "CHR$(242)" et "CH
R$(243)".
1250 PRINT SPC(36)"<ENTER>":RETURN
1260 CLS:PRINT:PRINT SPC(24)"----- Remar
ques -----":page=5
1270 PRINT:PRINT"- Sur les 3 voies, l'e
criture se fait en cle de sol, mais la
voie numero 3 est jouee une octave plus
bas."
1280 PRINT:PRINT"- Il n'y a pas d'armatu
re a la cle (do majeur),mais toutes les
tonalites sont accessibles en jonglant
avec les alterations."
1290 PRINT"- Il est possible de recupere
r les notes pour les jouer dans un au
tre programme."
1300 PRINT:PRINT SPC(10)"<ENTER> pour re
voir"SPC(10)"<DEL> pour la suite":RETURN

10  '%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
20  '%'
30  '% S T R A D A M U S E ( 1 ) %
40  '%'
50  '%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
60  DEFINT a-z
70  ENV 1,2,7,1,14,-1,15
80  ENV 2,1,0,2,3,5,1,15,-1,10
90  ENV 3,1,0,1,3,5,1,15,-1,20
100  ENT -1,1,-1,8,1,1,8
110  ENT -2,1,0,1,1,-1,6,1,1,6
120  ENT -3,1,0,2,1,-1,6,1,1,6
130  SYMBOL AFTER 216
140  SYMBOL 226,0,0,0,0,0,0,1,7
150  SYMBOL 227,0,0,0,0,0,0,254,255
160  SYMBOL 228,0,0,0,0,0,0,0,128
170  SYMBOL 229,0,0,0,0,3,7,7,7
180  SYMBOL 230,31,127,255,252,248,240,22
4,192
190  SYMBOL 231,255,192,0,0,0,0,1,3

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200 SYMBOL 232,192,224,96,112,112,240,240,224
210 SYMBOL 233,7,7,7,7,7,7,7,3
220 SYMBOL 234,192,128,128,128,128,131,1,35,159
230 SYMBOL 235,7,15,31,127,255,254,252,240
240 SYMBOL 236,224,192,128
250 SYMBOL 237,3,0,1,3,3,7,15,31
260 SYMBOL 238,191,255,255,254,252,246,2,31,199
270 SYMBOL 239,224,128,0,0,0,0,0,254
280 SYMBOL 240,31,62,124,252,252,252,252,124
290 SYMBOL 241,143,127,121,120,120,124,1,24,63
300 SYMBOL 242,255,135,195,225,224,240,2,48,152
310 SYMBOL 243,128,192,224,240,240,112,1,12,112
320 SYMBOL 244,62,31,31,15,7,1
330 SYMBOL 245,31,0,0,128,192,240,255,15
340 SYMBOL 246,28,28,14,14,7,31,251,227
350 SYMBOL 247,112,112,112,96,192,128,12,8,128
360 SYMBOL 248,0,0,0,0,0,0,0,3
370 SYMBOL 249,3,3,3,3,3,3,3,227
380 SYMBOL 250,128,128,128,128,128,128,1,28,128
390 SYMBOL 251,3,7,7,7,7,3,3,1
400 SYMBOL 252,227,227,227,3,135,255,254,248
410 SYMBOL 253,128,128,128,128,128
420 SYMBOL 254,240
430 c1$(1)=CHR$(32)+CHR$(226)+CHR$(227)+CHR$(228)
440 c1$(2)=CHR$(229)+CHR$(230)+CHR$(231)+CHR$(232)
450 c1$(3)=CHR$(233)+CHR$(234)+CHR$(235)+CHR$(236)
460 c1$(4)=CHR$(237)+CHR$(238)+CHR$(239)
470 c1$(5)=CHR$(240)+CHR$(241)+CHR$(242)+CHR$(243)
480 c1$(6)=CHR$(244)+CHR$(245)+CHR$(246)+CHR$(247)
490 c1$(7)=CHR$(32)+CHR$(248)+CHR$(249)+CHR$(250)
500 c1$(8)=CHR$(32)+CHR$(251)+CHR$(252)+CHR$(253)
510 c1$(9)=CHR$(32)+CHR$(32)+CHR$(254)
520 BORDER 3:INK 0,3:INK 1,3
530 POKE &B8D1,0:POKE &B8D2,28
540 KEY 138,"speed key 20,2:cls:list"+CHR$(13)
550 SPEED KEY 10,10
560 MODE 2
570 LOCATE 68,1:PRINT CHR$(149);"XSTRADA MUSEX";CHR$(149)
580 LOCATE 68,2:PRINT CHR$(149);"X ";CHR$(149);" 1986 X";CHR$(149)
590 LOCATE 68,3:PRINT CHR$(149);"X'M': M ENU X";CHR$(149)
600 LOCATE 68,4:PRINT CHR$(147);STRING$(10,154);CHR$(153)
610 FOR i=1 TO 4:LOCATE 1,i:PRINT CHR$(149)
620 LOCATE 18,i:PRINT CHR$(149):NEXT
630 LOCATE 1,5:PRINT CHR$(147)STRING$(16,154)CHR$(153);
640 FOR i=1 TO 3:LOCATE 1,i+22:PRINT CHR$(149);
650 LOCATE 80,i+22:PRINT CHR$(149);:NEXT
660 LOCATE 1,22:PRINT CHR$(150)STRING$(7,8,154)CHR$(156);
670 FOR i=1 TO 9
680 LOCATE 3,i+6
690 PRINT c1$(i)
700 NEXT i:ERASE c1$
710 LOCATE 1,1:PRINT CHR$(22)CHR$(1)
720 FOR i=1 TO 5
730 LOCATE 1,i+7
740 PRINT STRING$(8,"_")
750 NEXT i
760 FOR i=1 TO 4
770 LOCATE 1,i+8
780 PRINT CHR$(133)
790 NEXT i
800 LOCATE 1,1:PRINT CHR$(22)CHR$(0)
810 WINDOW 9,80,6,15
820 WINDOW#1,2,79,23,25
830 WINDOW#2,2,17,1,4
840 WINDOW#3,10,69,16,21
850 PAPER#1,1:PEN#1,0:CLS#1
860 PAPER#2,1:PEN#2,0:CLS#2
870 PAPER#3,1:PEN#3,0
880 LOCATE#2,1,4:PRINT#2,"EFFACER: DEL";
890 LOCATE#2,1,3:PRINT#2,"Ecrire : ENTER";
900 LOCATE#2,1,2:PRINT#2,"CANAL : 1";
910 LOCATE#2,1,1:PRINT#2,"PAGE : 1";
920 ORIGIN 64,0
930 SYMBOL 216,224,224,224,227,225,225,2,25,225
940 SYMBOL 217,0,0,0,0,128,192,192,192
950 SYMBOL 218,195,199,206,248,195,199,2,52,240
960 SYMBOL 219,144,48,96,192,128
970 SYMBOL 220,0,0,0,0,63,63,63,63
980 SYMBOL 221,0,0,0,0,252,252,252,252
990 SYMBOL 222,120,126,115,113,124,119,1,15,113
1000 SYMBOL 223,0,0,128,192,96,48,152,20,0
1010 SYMBOL 224,112,112,112,112,112,112,112,112
1020 SYMBOL 225,224,224,224,192,128

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1030 SYMBOL 226,0,0,63,255,255,255,255,6
3
1040 SYMBOL 227,112,112,240,240,240,240,
192
1050 SYMBOL 228,112,112,112,112,112,112,
112,112
1060 SYMBOL 229,0,0,63,240,224,192,192,6
3
1070 SYMBOL 230,0,0,192,48,112,240,192
1080 SYMBOL 231,112,112,240,48,112,240,1
92
1090 SYMBOL 232,192,192,252,198,204,216,
240,208
1100 SYMBOL 233,0,0,192,192,192,192,192,
192
1110 SYMBOL 234,0,0,63,255,255,255,255,2
55
1120 SYMBOL 235,224,224,224,224,224,224,
224,224
1130 SYMBOL 236,0,0,192,240,240,240,192
1140 SYMBOL 237,60,126,126,61,0,1,3,7
1150 SYMBOL 238,0,0,13,252,112,192,128
1160 SYMBOL 239,28,112,96
1170 SYMBOL 240,15,31,31,15,0,120,252,25
5
1180 SYMBOL 241,0,128,131,127,28,56,112,
192
1190 SYMBOL 242,121,3,6,12,24
1200 SYMBOL 243,128
1210 SYMBOL 244,0,0,63,240,224,192,195,2
55
1220 SYMBOL 245,120,124,118,115,113,112,
112,112
1230 SYMBOL 246,0,0,0,0,192,96,48,24
1240 SYMBOL 247,24,24,24,48,96
1250 SYMBOL 248,0,0,0,192,96,48,48,48
1260 SYMBOL 249,224,224,224,227,230,236,
248,240
1270 SYMBOL 250,48,96,192,128
1280 SYMBOL 251,0,0,0,0,0,1,3,0
1290 SYMBOL 252,48,24,12,30,124,240,208,
192
1300 SYMBOL 253,0,0,0,1,3,3,1
1310 SYMBOL 254,96,48,24,248,196,128,128
,192
1320 LOCATE 1,1:PRINT CHR$(23)+CHR$(1)
1330 FOR i=0 TO 4
1340 MOVE 0,208+i*16:DRAW 576,208+i*16
1350 NEXT i
1360 BORDER 3:INK 0,3:INK 1,15
1370 LOCATE#3,15,2:PRINT#3,CHR$(150)STRI
NG$(35,154)CHR$(156)
1380 LOCATE#3,15,3:PRINT#3,CHR$(149)"CHA
RGEMENT DE LA SUITE DU PROGRAMME"CHR$(14
9)
1390 LOCATE#3,15,4:PRINT#3,CHR$(147)STRI
NG$(35,154)CHR$(153)
1400 RUN"stradam

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10 %%%%%%%%%%%
20 %
30 % S T R A D A M U S E ( 2 ) %
40 %
50 %%%%%%%%%%%
60 OPENOUT"bidon":MEMORY HIMEM-1:CLOSEOU
T
70 DEFINT a-z
80 DIM no$(3,300),ca(3,300),de(17)
90 DIM page(3),no(3),xn(3),xp(3),x(3),y(
3),dt(3),d(3)
100 DEF FN son(u)=ROUND(125000/(440*(2^(
1+(u-10)/12))))
110 FOR h=0 TO 17:READ de(h):NEXT h
120 DATA -2,0,1,3,5,6,8,10,12,13,15,17,1
8,20,22,24,25,27
130 FOR u=1 TO 3:x(u)=1:y(u)=30:page(u)=
1:no(u)=0:xn(u)=1:NEXT u
140 can=1:syn=0:fin=0
150 no$(1,0)="X":no$(2,0)="X":no$(3,0)="
X"
160 PAPER#3,0:CLS#3:PAPER#3,1
170 TAG:GOSUB 360
180
190 WHILE INKEY#<>"":WEND:WHILE INKEY#="
":WEND
200 IF INKEY(0)=0 THEN GOSUB 360:y(can)=
y(can)+1:GOSUB 340
210 IF INKEY(2)=0 THEN GOSUB 360:y(can)=
y(can)-1:GOSUB 340
220 IF INKEY(8)=0 THEN GOSUB 360:x(can)=
x(can)-3:GOSUB 310
230 IF INKEY(1)=0 THEN GOSUB 360:x(can)=
x(can)+3:GOSUB 310
240 IF INKEY(1)=128 THEN GOSUB 360:x(can
)=x(can)+72:xm=x(can):page(can)=page(can
)+1:GOSUB 310:GOSUB 420:x(can)=xm:GOSUB
360
250 IF INKEY(8)=128 AND x(can)>=72 THEN
GOSUB 360:x(can)=x(can)-72:xm=x(can):pag
e(can)=page(can)-1:GOSUB 310:GOSUB 420:x
(can)=xm:GOSUB 360
260 IF INKEY(18)=0 THEN GOSUB 480
270 IF INKEY(38)=0 THEN GOTO 2360
280 IF INKEY(79)=0 THEN GOSUB 2200
290 TAG:GOTO 190
300

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310 IF x(can)<1 THEN x(can)=1:SOUND 1,50
,4,4:GOTO 360
320 IF x(can) MOD 72=1 AND INKEY(1)=0 TH
EN xm=x(can):SOUND 1,50,4,4:page(can)=pa
ge(can)+1:GOSUB 420:x(can)=xm
330 IF x(can) MOD 72=70 AND INKEY(8)=0 T
HEN xm=x(can):SOUND 1,50,4,4:page(can)=p
age(can)-1:GOSUB 420:x(can)=xm
340 IF y(can)>40 THEN y(can)=40:SOUND 1,
50,4,4
350 IF y(can)<23 THEN y(can)=23:SOUND 1,
50,4,4
360 MOVE (x(can) MOD 72)*8,y(can)*8-2:PR
INT"*";
370 RETURN
380
390 FOR i=0 TO 4:MOVE 0,208+i*16:DRAW 57
6,208+i*16
400 NEXT i:RETURN
410
420 TAGOFF:LOCATE 1,1:PRINT CHR$(23)+CHR
$(0)
430 CLS:GOSUB 390:GOSUB 1790
440 LOCATE#2,1,1:PRINT#2,"PAGE      ";USIN
G"##";page(can);
450 LOCATE#2,1,2:PRINT#2,"CANAL      ";CHR
$(18);STRING$(can,"I");
460 LOCATE 1,1:PRINT CHR$(23)+CHR$(1)
470 TAG:RETURN
480
490 TAGOFF:CLS#1:LOCATE 1,1:PRINT CHR$(2
3)+CHR$(0)
500 LOCATE#1,1,1:PRINT#1,SPC(13)CHR$(233
)SPC(10)CHR$(222)CHR$(223)SPC(3);
510 PRINT#1,CHR$(245)CHR$(246)SPC(3)CHR$
(228)SPC(4)CHR$(228)SPC(8)CHR$(240);
520 PRINT#1,CHR$(241)SPC(3)CHR$(237)CHR$
(238)SPC(3)CHR$(251)CHR$(252)SPC(8);
530 PRINT#1,CHR$(220)CHR$(221)
540 LOCATE#1,1,2:PRINT#1,SPC(8)CHR$(35)S
PC(4)CHR$(232)SPC(4)CHR$(144)SPC(4);
550 PRINT#1,CHR$(226)CHR$(227)CHR$(225)S
PC(2)CHR$(226)CHR$(227)CHR$(247);
560 PRINT#1,SPC(2)CHR$(226)CHR$(227)SPC(
3)CHR$(229)CHR$(231)SPC(3)CHR$(229);
570 PRINT#1,CHR$(230)SPC(3)CHR$(242)CHR$
(243)SPC(3)CHR$(239)SPC(4)CHR$(253);
580 PRINT#1,CHR$(254)SPC(3)CHR$(220)CHR$
(221)
590 LOCATE#1,73,1:PRINT#1,"ENTER"
600 LOCATE#1,74,2:PRINT#1,"COPY"
610 LOCATE#1,73,3:PRINT#1,"<- ->"
620 a=34:alt=0:du=0:dd=0:pt=0:c$=""
630 LOCATE#1,a,3:PRINT#1,"^";
640 WHILE INKEY<>"" :WEND:WHILE INKEY$=""
:WEND
650 IF INKEY(1)=0 THEN LOCATE#1,a,3:PRIN
T#1," ";a=a+5:IF a=74 THEN a=9
660 IF INKEY(8)=0 THEN LOCATE#1,a,3:PRIN
T#1," ";a=a-5:IF a=4 THEN a=69
670 IF INKEY(9)=0 THEN GOSUB 710
680 IF INKEY(18)=0 THEN GOSUB 1210:CLS#1
:RETURN
690 GOTO 630
700
710 GOSUB 1120:ON ((a+1)/5)-1 GOTO 730,7
80,830,870,900,920,940,960,980,1010,1030
,1050,1070,1080
720
730 IF tla=1 THEN RETURN
740 IF alt=0 THEN alt=1:PRINT#1,"X#X";:R
ETURN
750 IF alt=1 THEN alt=0:PRINT#1,"#";:RET
URN
760 RETURN
770
780 IF tla=1 THEN RETURN
790 IF alt=0 THEN alt=-1:PRINT#1,"X"CHR$
(232)"X";:RETURN
800 IF alt=-1 THEN alt=0:PRINT#1,CHR$(23
2);:RETURN
810 RETURN
820
830 IF du=1 OR du=17 THEN RETURN
840 IF pt=0 THEN pt=1:PRINT#1,"X.X";:RET
URN
850 IF pt=1 THEN pt=0:PRINT#1,".";:RETUR
N
860
870 IF pt=1 THEN RETURN
880 d$=CHR$(226)+CHR$(227):dd=1:GOSUB 11
00:RETURN
890
900 d$=CHR$(226)+CHR$(227):dd=2:GOSUB 11
00:RETURN
910
920 d$=CHR$(226)+CHR$(227):dd=4:GOSUB 11
00:RETURN
930
940 d$=CHR$(229)+CHR$(231):dd=8:GOSUB 11
00:RETURN
950
960 d$=CHR$(229)+CHR$(230):dd=16:GOSUB 1
100:RETURN
970
980 IF pt=1 THEN RETURN
990 d$=CHR$(242)+CHR$(243):dd=17:GOSUB 1
100:RETURN
1000
1010 d$=CHR$(239)+" ":dd=27:GOSUB 1100:R
ETURN
1020
1030 d$=CHR$(253)+CHR$(254):dd=47:GOSUB
1100:RETURN
1040
1050 d$=CHR$(220)+CHR$(221):dd=87:GOSUB

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1100:RETURN
1060
1070 d$=" ":dd=167:GOSUB 1100:RETURN
1080 RETURN
1090
1100 IF du=dd THEN du=0:PRINT#1,d$;:pr=0:RETURN
1110 du=dd:PRINT#1,"X"d$X";:pr=1:GOSUB 1130:c$=d$:RETURN
1120 LOCATE#1,a,2:RETURN
1130 IF aa=0 THEN aa=a:RETURN
1140 IF aa=a AND pr=1 THEN pr=0:RETURN
1150 IF aa=a AND pr=0 THEN pr=1
1160 IF a>44 AND alt=-1 THEN LOCATE#1,14,1:PRINT#1,"b";:alt=0
1170 IF a>44 AND alt=1 THEN LOCATE#1,9,1:PRINT#1,"#";:alt=0
1180 IF a>44 THEN tla=1 ELSE tla=0
1190 tt=a:a=aa:GOSUB 1120:IF c$<>" " THEN PRINT#1,c$;
1200 a=tt:aa=a:RETURN
1210
1220 IF du=0 THEN PRINT CHR$(23)+CHR$(1):TAG:RETURN
1230 IF x(can)>xp(can) THEN PRINT CHR$(23)+CHR$(1):TAG:GOSUB 360:TAGOFF:x(can)=xn(can)
1240 IF page(can)*72>xn(can) AND page(can)<>INT(xn(can)/72)+1 THEN WHILE page(can)*72>xn(can):page(can)=page(can)-1:WEND
1250 IF x(can)<=xp(can) THEN GOSUB 1960:RETURN
1260 x=x(can):y=y(can):GOSUB 1610
1270 affipa=0
1280 TAGOFF:PRINT CHR$(23)+CHR$(3):TAG
1290 x=x(can):y=y(can)
1300 IF pt=1 AND du<17 THEN MOVE ((x+1)MOD 72)*8+5,y*8-4:PRINT CHR$(144);
1310 IF pt=1 AND du=17 THEN MOVE ((x+1)MOD 72)*8+6,32*8-4:PRINT CHR$(144);
1320 IF alt=1 THEN MOVE ((x-1)MOD 72)*8,y*8-2:PRINT"#";
1330 IF alt=-1 THEN MOVE ((x-1)MOD 72)*8,y*8-2:PRINT CHR$(232);:MOVE ((x-1)MOD 72)*8,(y+1)*8-2:PRINT CHR$(233);
1340 IF du>=17 THEN 1500
1350 IF du<5 AND y<=31 THEN MOVE (x MOD 72)*8,y*8:PRINT CHR$(226)CHR$(227);
1360 IF du<=4 AND y>31 THEN MOVE (x MOD 72)*8,y*8:PRINT CHR$(234)CHR$(236);
1370 IF du=8 AND y<=31 THEN MOVE (x MOD 72)*8,y*8:PRINT CHR$(229)CHR$(231);
1380 IF du=8 AND y>31 THEN MOVE (x MOD 72)*8,y*8:PRINT CHR$(244)CHR$(230);
1390 IF du=2 AND y<=31 THEN MOVE ((x+1)MOD 72)*8,(y+3)*8:PRINT CHR$(245)CHR$(246);:MOVE ((x+2)MOD 72)*8,(y+1)*8:PRINT CHR$(247);
1400 IF du=2 AND y>31 THEN MOVE (x MOD 72)*8,(y-4)*8:PRINT CHR$(249)CHR$(250);:MOVE ((x+1)MOD 72)*8,(y-2)*8:PRINT CHR$(248);
1410 IF du=1 AND y<=31 THEN MOVE ((x+1)MOD 72)*8,(y+3)*8:PRINT CHR$(222)CHR$(223);:MOVE ((x+1)MOD 72)*8,(y+1)*8:PRINT CHR$(224)CHR$(225);
1420 IF du=1 AND y>31 THEN MOVE (x MOD 72)*8,(y-4)*8:PRINT CHR$(218)CHR$(219);:MOVE (x MOD 72)*8,(y-2)*8:PRINT CHR$(216)CHR$(217);
1430 IF du=16 THEN MOVE (x MOD 72)*8,y*8:PRINT CHR$(229)CHR$(230);
1440 IF du<>16 AND y<=31 THEN FOR i=1 TO 3:MOVE ((x MOD 72)+1)*8,(y+i)*8:PRINT CHR$(228);:NEXT
1450 IF du<>16 AND y>31 THEN FOR i=1 TO 3:MOVE (x MOD 72)*8,(y-i)*8:PRINT CHR$(235);:NEXT
1460 IF y>=37 THEN MOVE (x MOD 72)*8-4,36*8:DRAW (x MOD 72)*8+16,36*8,1
1470 IF y>=39 THEN MOVE (x MOD 72)*8-4,38*8:DRAW (x MOD 72)*8+16,38*8,1
1480 IF y<=25 THEN MOVE (x MOD 72)*8-4,24*8:DRAW (x MOD 72)*8+16,24*8,1
1490 IF y<=23 THEN MOVE (x MOD 72)*8-4,22*8:DRAW (x MOD 72)*8+16,22*8,1
1500 IF du=27 THEN MOVE (x MOD 72)*8,30*8-5:PRINT CHR$(239);:MOVE (x MOD 72)*8,32*8-5:PRINT CHR$(237)CHR$(238);
1510 IF du=17 THEN MOVE (x MOD 72)*8,30*8-5:PRINT CHR$(242)CHR$(243);:MOVE (x MOD 72)*8,32*8-5:PRINT CHR$(240)CHR$(241);
1520 IF du=47 THEN MOVE (x MOD 72)*8,30*8:PRINT CHR$(253)CHR$(254);:MOVE (x MOD 72)*8,32*8:PRINT CHR$(251)CHR$(252);
1530 IF du=87 THEN MOVE (x MOD 72)*8,32*8:PRINT CHR$(220)CHR$(221);
1540 IF du=167 THEN MOVE (x MOD 72)*8,33*8:PRINT CHR$(220)CHR$(221);
1550 IF affipa=1 THEN RETURN
1560 IF du>=17 THEN du=(du-7)/10
1570 xp(can)=xn(can):xn(can)=xn(can)+(du-du*(pt=1)/2)*3:x(can)=xn(can)
1580 TAGOFF:PRINT CHR$(23)+CHR$(1):TAG:GOSUB 360
1590 IF xn(can)>page(can)*72 THEN WHILE xn(can)>page(can)*72:page(can)=page(can)+1:WEND:SOUND 1,50,4,4:GOSUB 420:GOSUB 360
1600 RETURN
1610
1620 no(can)=no(can)+1
1630 IF alt=0 THEN sto$="00"
1640 IF alt=1 THEN sto$="01"
1650 IF alt=-1 THEN sto$="-1"
1660 sto$=sto$+RIGHT$(" "+STR$(pt),1)

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1670 sto$=sto$+RIGHT$(" "+STR$(du),3)
1680 sto$=sto$+RIGHT$(" "+STR$(x),5)
1690 sto$=sto$+RIGHT$(" "+STR$(y),2)
1700 IF du>=17 THEN so=0:GOTO 1730
1710 so=de(y-23)+alt
1720 so=FN son(so)
1730 sto$=sto$+RIGHT$(" "+STR$(so),4)
1740 IF du>=17 THEN da=(du-7)/10 ELSE da
=du
1750 da=da-da*(pt=1)/2
1760 sto$=sto$+RIGHT$(" "+STR$(da),2)
1770 no$(can,no(can))=sto$:sto$=""
1780 RETURN
1790
1800 affipa=1
1810 FOR ii=1 TO no(can)
1820 xx=VAL(MID$(no$(can,ii),7,5))
1830 IF xx>(page(can)-1)*72 AND xx<=page
(can)*72 THEN GOTO 1870
1840 IF xx>page(can)*72 THEN ii=no(can)
1850 NEXT ii
1860 RETURN
1870 alt=VAL(MID$(no$(can,ii),1,2))
1880 pt=VAL(MID$(no$(can,ii),3,1))
1890 du=VAL(MID$(no$(can,ii),4,3))
1900 y(can)=VAL(MID$(no$(can,ii),12,2))
1910 x(can)=xx
1920 TAGOFF:LOCATE 1,1:PRINT CHR$(23)+CH
R$(3)
1930 TAG:GOSUB 1290:TAGOFF
1940 LOCATE 1,1:PRINT CHR$(23)+CHR$(1)
1950 GOTO 1850
1960
1970 inser=0
1980 FOR jj=1 TO no(can)
1990 xx=VAL(MID$(no$(can,jj),7,5))
2000 IF x(can)=xx THEN inser=1:GOTO 2040
2010 NEXT jj
2020 IF inser=0 THEN LOCATE 1,1:PRINT CH
R$(23)+CHR$(1):TAG
2030 RETURN
2040
2050 IF du>=17 THEN du1=(du-7)/10 ELSE d
u1=du
2060 FOR h=no(can) TO jj STEP-1:no$(can,
h+1)=no$(can,h):MID$(no$(can,h+1),7,5)=R
IGHT$(" "+STR$(VAL(MID$(no$(can,h),7
,5)))+(du1-du1*(pt=1)/2)*3),5):NEXT h
2070 no(can)=no(can)+1:xp(can)=xp(can)+(
du1-du1*(pt=1)/2)*3:xn(can)=xn(can)+(du1
-du1*(pt=1)/2)*3
2080 IF alt=0 THEN s$="00"
2090 IF alt=1 THEN s$="01"
2100 IF alt=-1 THEN s$="-1"
2110 no$(can,jj)=s$+RIGHT$(" "+STR$(pt),
1)+RIGHT$(" "+STR$(du),3)
2120 no$(can,jj)=no$(can,jj)+RIGHT$("
 "+STR$(x(can)),5)+RIGHT$(" "+STR$(y(c
an)),2)
2130 so=de(y(can)-23)+alt:so=FN son(so)
2140 IF du>=17 THEN so=0
2150 no$(can,jj)=no$(can,jj)+RIGHT$("
 "+STR$(so),4)
2160 du1=du1-(du1*(pt=1))/2
2170 no$(can,jj)=no$(can,jj)+RIGHT$("
 "+STR$(du1),2)
2180 GOSUB 420:GOSUB 360
2190 GOTO 2030
2200
2210 supri=0
2220 FOR jj=1 TO no(can)
2230 xx=VAL(MID$(no$(can,jj),7,5))
2240 IF x(can)=xx THEN supri=1:GOTO 2280
2250 NEXT jj
2260 IF supri=0 THEN TAGOFF:LOCATE 1,1:P
RINT CHR$(23)+CHR$(1):TAG
2270 RETURN
2280
2290 du=VAL(MID$(no$(can,jj),4,3)):IF du
>=17 THEN du=(du-7)/10
2300 pt=VAL(MID$(no$(can,jj),3,1))
2310 FOR h=jj TO no(can)-1:no$(can,h)=no
$(can,h+1):MID$(no$(can,h),7,5)=RIGHT$("
 "+STR$(VAL(MID$(no$(can,h),7,5))-(d
u-du*(pt=1)/2)*3),5):NEXT h
2320 no$(can,no(can))="" :ca(can,no(can))
=0
2330 no(can)=no(can)-1:xn(can)=xn(can)-(
du-du*(pt=1)/2)*3:xp(can)=xp(can)-(du-du
*(pt=1)/2)*3
2340 GOSUB 420:GOSUB 360
2350 GOTO 2270
2360
2370 CLS#3:TAGOFF
2380 LOCATE#3,1,1:PRINT#3,CHR$(150)STRIN
G$(24,154)" MENU "STRING$(24,154)CHR
$(156)
2390 LOCATE#3,10,3:PRINT#3,"-1- ECOUTE"S
PC(20)"-4- SAUVEGARDE"
2400 LOCATE#3,10,5:PRINT#3,"-2- ECRITURE
"SPC(18)"-5- CHARGEMENT"
2410 LOCATE#3,27,4:PRINT#3,"-3- FIN"
2420 IF INKEY(64)*INKEY(13)=0 THEN 2480
2430 IF INKEY(65)*INKEY(14)=0 THEN 2680
2440 IF INKEY(57)*INKEY(5)=0 THEN 3040
2450 IF INKEY(56)*INKEY(20)=0 THEN 2800
2460 IF INKEY(49)*INKEY(12)=0 THEN 2910
2470 GOTO 2420
2480
2490 CLS#3:PRINT#3,CHR$(150)STRING$(24,1
54)" ECOUTE "STRING$(24,154)CHR$(156)
2500 LOCATE#3,4,3:PRINT#3,"-1- ECOUTE CA
NAL I -3- ECOUTE CANAL III"
2510 LOCATE#3,4,5:PRINT#3,"-2- ECOUTE CA
NAL II -4- ECOUTE CANAUX I,II & III"

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2520 IF INKEY(64)*INKEY(13)=0 THEN cc=1:
GOTO 2570
2530 IF INKEY(65)*INKEY(14)=0 THEN cc=2:
GOTO 2570
2540 IF INKEY(57)*INKEY(5)=0 THEN cc=3:G
OTO 2570
2550 IF INKEY(56)*INKEY(20)=0 THEN 3330
2560 GOTO 2520
2570 LOCATE#3,20,6:PRINT#3,"<ESPACE> POU
R ARRETER"
2580 FOR iir=1 TO no(cc)
2590 ptr=VAL(MID$(no$(cc,iir),3,1))
2600 dur=VAL(MID$(no$(cc,iir),4,3))
2610 IF dur>=17 THEN dur=(dur-7)/10:so=0
:GOTO 2630
2620 so=VAL(MID$(no$(cc,iir),14,4))
2630 dur=dur-(dur/2)*(ptr=1)
2640 SOUND 1,so,dur*10,0,-1*(so<>0),-1*(
so<>0)
2650 IF INKEY(47)=0 THEN 2370
2660 NEXT iir
2670 GOTO 2370
2680
2690 CLS#3:PRINT#3,CHR$(150)STRING$(24,1
54)" ECRITURE "STRING$(24,154)CHR$(156)
2700 syn=0
2710 LOCATE#3,20,2:PRINT#3,"-1- SUR LE C
ANAL I"
2720 LOCATE#3,20,4:PRINT#3,"-2- SUR LE C
ANAL II"
2730 LOCATE#3,20,6:PRINT#3,"-3- SUR LE C
ANAL III"
2740 IF INKEY(64)*INKEY(13)=0 THEN IF ca
n=1 THEN 2790 ELSE can=1:GOTO 2780
2750 IF INKEY(65)*INKEY(14)=0 THEN IF ca
n=2 THEN 2790 ELSE can=2:GOTO 2780
2760 IF INKEY(57)*INKEY(5)=0 THEN IF can
=3 THEN 2790 ELSE can=3:GOTO 2780
2770 GOTO 2740
2780 PAPER#3,0:CLS#3:PAPER#3,1:GOSUB 410
:TAG:GOSUB 360:GOTO 180
2790 PAPER#3,0:CLS#3:PAPER#3,1:TAG:GOTO
180
2800
2810 CLS#3:PRINT#3,CHR$(150)STRING$(24,1
54)" SAUVER "STRING$(24,154)CHR$(156)
2820 LOCATE#3,15,3:PRINT#3,"ENTREZ NOM D
U MORCEAU ";
2830 INPUT#3,MUSIC$
2840 LOCATE#3,15,4:PRINT#3,"PUIS TAPEZ U
NE TOUCHE...."
2850 WHILE INKEY$<>"" :WEND:WHILE INKEY$=
"" :WEND
2860 OPENOUT MUSIC$
2870 FOR sa=1 TO 3:PRINT#9,pag(sa),no(s
a),xn(sa),xp(sa),x(sa),y(sa):NEXT
2880 FOR sa=1 TO 3:FOR ve=0 TO no(sa):PR
INT#9,no$(sa,ve):NEXT ve,sa
2890 LOCATE#3,15,5:PRINT#3,"REMISE EN OR
DRE DE LA MEMOIRE....":CLOSEOUT
2900 GOTO 2360
2910
2920 CLS#3:PRINT#3,CHR$(150)STRING$(24,1
54)" CHARGE "STRING$(24,154)CHR$(156)
2930 LOCATE#3,15,3:PRINT#3,"ENTREZ NOM D
U MORCEAU ";
2940 INPUT#3,MUSIC$
2950 LOCATE#3,15,4:PRINT#3,"PUIS TAPEZ U
NE TOUCHE...."
2960 WHILE INKEY$<>"" :WEND:WHILE INKEY$=
"" :WEND
2970 syn=0:ERASE ca,no$:DIM no$(3,300):e
sp=FRE(""):OPENIN MUSIC$
2980 FOR sa=1 TO 3:INPUT#9,pag(sa),no(s
a),xn(sa),xp(sa),x(sa),y(sa):NEXT
2990 FOR sa=1 TO 3:FOR ve=0 TO no(sa):IN
PUT#9,no$(sa,ve):LOCATE#3,15,5:PRINT#3,U
SING####";ve:PRINT#3," NOTES SUR ";:PRIN
T#3,USING####";no(sa):PRINT#3," POUR L
E CANAL ";:PRINT#3,USING####";sa:;NEXT ve,
sa
3000 CLOSEIN
3010 DIM ca(3,300)
3020 GOSUB 410:TAG:GOSUB 360
3030 GOTO 2360
3040
3050 CLS#3:PRINT#3,CHR$(150)STRING$(24,1
54)"STRADAMUSE"STRING$(24,154)CHR$(156)
3060 LOCATE#3,15,3:PRINT#3,"-1- FIN"
3070 LOCATE#3,15,4:PRINT#3,"-2- RETOUR"
3080 LOCATE#3,15,5:PRINT#3,"-3- LISTE DE
S NOTES"
3090 IF INKEY(64)*INKEY(13)=0 THEN 3310
3100 IF INKEY(65)*INKEY(14)=0 THEN 2360
3110 IF INKEY(57)*INKEY(5)=0 THEN fin=1:
GOTO 3130
3120 GOTO 3090
3130 CLS#3:CLS
3140 LOCATE 1,1:PRINT CHR$(150)STRING$(3
,154)CHR$(158)STRING$(6,154)CHR$(158)STR
ING$(7,154)CHR$(158)STRING$(4,154)CHR$(1
58)STRING$(6,154);
3150 PRINT CHR$(158)STRING$(7,154)CHR$(1
58)STRING$(5,154)CHR$(158)STRING$(6,154)
CHR$(158)STRING$(7,154)CHR$(156)
3160 LOCATE 1,2:PRINT CHR$(149)" I "CHR$
(149)" NOTE "CHR$(149)" DUREE "CHR$(149)
" II "CHR$(149)" NOTE "CHR$(149)" DUREE
"CHR$(149)" III "CHR$(149)" NOTE "CHR$(1
49)" DUREE "CHR$(149)
3170 LOCATE 1,3:PRINT CHR$(151)STRING$(3
,154)CHR$(159)STRING$(6,154)CHR$(159)STR
ING$(7,154)CHR$(159)STRING$(4,154)CHR$(1
59)STRING$(6,154);
3180 PRINT CHR$(159)STRING$(7,154)CHR$(1
59)STRING$(5,154)CHR$(159)STRING$(6,154)

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CHR$(159)STRING$(7,154)CHR$(157)
3190 WINDOW 9,80,9,21:CLS
3200 GOSUB 3360:CLS
3210 FOR pp=1 TO MAX(no(1),no(2),no(3))
3220 PRINT CHR$(149);USING"####";ca(1,pp)
;:PRINT CHR$(149);USING"##### ";VAL(MID$(
no$(1,pp),14,4));:PRINT CHR$(149);USING
"##### ";VAL(MID$(no$(1,pp),18,2))*10;
3230 PRINT CHR$(149);USING"### ";ca(2,pp)
;:PRINT CHR$(149);USING"##### ";VAL(MID$(
no$(2,pp),14,4));:PRINT CHR$(149);USING
"##### ";VAL(MID$(no$(2,pp),18,2))*10;

3240 PRINT CHR$(149);USING"### ";ca(3,pp)
;:PRINT CHR$(149);USING"##### ";VAL(MID$(
no$(3,pp),14,4));:PRINT CHR$(149);USING
"##### ";VAL(MID$(no$(3,pp),18,2))*10
;:PRINT CHR$(149)
3250 IF pp MOD 13=0 THEN WHILE INKEY<>""
:WEND:WHILE INKEY$="" :WEND:CLS
3260 NEXT
3270 PRINT CHR$(147)STRING$(3,154)CHR$(1
55)STRING$(6,154)CHR$(155)STRING$(7,154)
CHR$(155)STRING$(4,154)CHR$(155)STRING$(
6,154);
3280 PRINT CHR$(155)STRING$(7,154)CHR$(1
55)STRING$(5,154)CHR$(155)STRING$(6,154)
CHR$(155)STRING$(7,154)CHR$(153)
3290 WHILE INKEY<>"" :WEND:WHILE INKEY$=""
:WEND
3300 CLS:WINDOW 9,80,6,15:CLS:fin=0:GOSU
B 390:GOSUB 1790:TAG:GOSUB 360:GOTO 2360

3310 WHILE INKEY<>"" :WEND
3320 LOCATE 1,1:PAPER 0:PEN 1:END
3330
3340 CLS#3:PRINT#3,CHR$(150)STRING$(24,1
54)" ECOUTE "STRING$(24,154)CHR$(156)
3350 IF syn=0 THEN LOCATE#3,13,4:PRINT#3
,"CALCUL DE LA SYNCHRONISATION ..."
3360 d(1)=0:d(2)=0:d(3)=0:dt(1)=0:dt(2)=
0:dt(3)=0
3370 no$(1,0)="X":no$(2,0)="X":no$(3,0)=
"X"
3380 FOR ii=1 TO 3
3390 d(ii)=VAL(MID$(no$(ii,1),18,2))
3400 NEXT ii
3410 ca(1,1)=49:ca(2,1)=42:ca(3,1)=28
3420 IF fin=1 AND syn=1 THEN RETURN
3430 IF syn=1 THEN 3610
3440 i=1:j=1:k=1
3450 FOR jj=1 TO 3
3460 FOR ii=1 TO no(jj)+1
3470 d=VAL(MID$(no$(jj,ii),18,2))
3480 dt(jj)=dt(jj)+d
3490 NEXT ii,jj
3500 tpm=MAX(dt(1),dt(2),dt(3))
3510 FOR tp=1 TO tpm-1
3520 IF d(1)=tp AND d(2)=tp AND d(3)=tp
THEN i=i+1:j=j+1:k=k+1:ca(1,i)=49:ca(2,j
)=42:ca(3,k)=28:GOSUB 3770:GOSUB 3800:GO
SUB 3830:GOTO 3590
3530 IF d(1)=tp AND d(2)=tp THEN i=i+1:j
=j+1:ca(1,i)=17:ca(2,j)=10:GOSUB 3770:GO
SUB 3800:GOTO 3590
3540 IF d(1)=tp AND d(3)=tp THEN i=i+1:k
=k+1:ca(1,i)=33:ca(3,k)=12:GOSUB 3770:GO
SUB 3830:GOTO 3590
3550 IF d(2)=tp AND d(3)=tp THEN j=j+1:k
=k+1:ca(2,j)=34:ca(3,k)=20:GOSUB 3800:GO
SUB 3830:GOTO 3590
3560 IF d(1)=tp THEN i=i+1:ca(1,i)=1:GOS
UB 3770:GOTO 3590
3570 IF d(2)=tp THEN j=j+1:ca(2,j)=2:GOS
UB 3800:GOTO 3590
3580 IF d(3)=tp THEN k=k+1:ca(3,k)=4:GOS
UB 3830:GOTO 3590
3590 LOCATE#3,45,4:PRINT#3,USING"#####";t
pm-1-tp:NEXT tp:syn=1
3600 IF fin=1 THEN RETURN
3610 ii=1:jj=1:kk=1
3620 LOCATE#3,13,4:PRINT#3,STRING$(36,"
")
3630 IF SQ(1)=128 OR no$(1,ii-1)="" THEN
3670
3640 dur=VAL(MID$(no$(1,ii),18,2)):IF du
r=0 THEN dur=1:so=0:GOTO 3660
3650 so=VAL(MID$(no$(1,ii),14,4))
3660 SOUND ca(1,ii),so,dur*12,0,-1*(so<>
0),-1*(so<>0):ii=ii+1
3670 IF SQ(2)=128 OR no$(2,jj-1)="" THEN
3710
3680 dur=VAL(MID$(no$(2,jj),18,2)):IF du
r=0 THEN dur=1:so=0:GOTO 3700
3690 so=VAL(MID$(no$(2,jj),14,4))
3700 SOUND ca(2,jj),so,dur*12,0,-2*(so<>
0),-2*(so<>0):jj=jj+1
3710 IF SQ(4)=128 OR no$(3,kk-1)="" THEN
3750
3720 dur=VAL(MID$(no$(3,kk),18,2)):IF du
r=0 THEN dur=1:so=0:GOTO 3740
3730 so=VAL(MID$(no$(3,kk),14,4))
3740 SOUND ca(3,kk),so*2,dur*12,0,-3*(so
<>0),-3*(so<>0):kk=kk+1
3750 IF ii>no(1) AND jj>no(2) AND kk>no(
3) THEN 2370
3760 GOTO 3630
3770 d=VAL(MID$(no$(1,i),18,2))
3780 d(1)=d(1)+d-(d/2)*(p=1)
3790 RETURN
3800 d=VAL(MID$(no$(2,j),18,2))
3810 d(2)=d(2)+d-(d/2)*(p=1)
3820 RETURN
3830 d=VAL(MID$(no$(3,k),18,2))
3840 d(3)=d(3)+d-(d/2)*(p=1)
3850 RETURN

```