

UTILITAIRE

MACHINE A ECRIRE



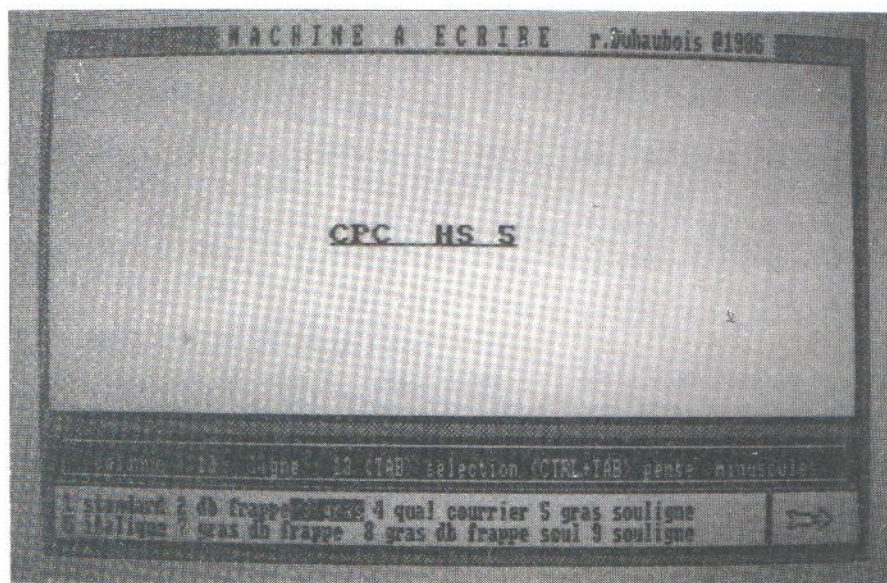
Robert DUHAUBOIS

Ce programme permet de piloter une imprimante et de transformer cette dernière en machine à écrire. Son maniement est très simple : au démarrage, chaque lettre frappée est reproduite à la fois sur l'écran et sur l'imprimante. Pour changer les paramètres d'impression (double-frappe, italique, souligné...), il faut appuyer sur <TAB> puis choisir un chiffre entre 1 et 9 afin d'accéder aux options indiquées en permanence au bas de l'écran (pas de validation, le retour à la page active est automatique).

Pour écrire en diagonale (montée ou descente), il faut appuyer sur <CTRL+TAB> simultanément puis taper "1" pour l'écriture descendante, "2" pour l'écriture montante ou <ESPACE> pour l'horizontale (toujours sans validation). La flèche en bas à droite indique le sens d'écriture.

Ce programme a été testé sur DMP-2000.

Le symbole "--" s'obtient en tapant CTRL (CONTROL) + "I".



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300 MOVER 15,20:DRAWR 375,0      >FD<
310 MOVER -15,20:DRAWR -345,0    >BE<
320 MOVER 15,20:DRAWR 315,0     >BF<
330 ORIGIN 170,225              >NG<
340 DRAWR 0,50:DRAWR 300,0:DRAWR 0, >GH<
-50:PLOTR 0,50:DRAWR -5,10:DRAWR -2
90,0:DRAWR -5,-10
350 REM *****                >YJ<
360 REM chariot                  >GK<
370 REM *****                >AL<
380 FOR h=1 TO 22:ORIGIN 210,280 >MM<
390 PLOTR -5*h+5,10,1:DRAWR -20,0:D >WN<
RAWR 0,30:DRAWR 390,0:DRAWR 30,50:D
RAWR 5,0:DRAWR -30,-50
400 DRAWR -5,0:DRAWR 0,-30:DRAWR -3 >WE<
90,0
410 PLOTR 50,30:DRAWR 210,0,0:PLOT >DF<
R -210,-30:DRAWR 0,75,4:DRAWR 200,0
:DRAWR 0,-75
420 DRAWR -200,0:PLOTR 200,0:DRAWR >DG<
10,0,1:DRAWR 0,80,4:DRAWR -200,0:DR
AWR 0,-10
430 x=INT(RND*9+6):y=INT(RND*3)+13 >EH<
440 PRINT CHR$(22):CHR$(1):      >XJ<
450 LOCATE x,y:PEN 6:PRINT CHR$(160 >EK<
)
460 SOUND 1,1500,7,7,0,0,1     >CL<
470 LOCATE 10,7:PEN 14:PRINT CHR$(2 >JM<
44)
480 ORIGIN 210,280:PLOTR-5*h,0,0 >VN<
490 IF h=22 THEN 580            >EP<
500 PLOTR 5,10,0:DRAWR -20,0:DRAWR >XF<
0,30:DRAWR 390,0:DRAWR 30,50:DRAWR
5,0:DRAWR -30,-50
510 DRAWR -5,0:DRAWR 0,-30:DRAWR -3 >YG<
90,0
520 PLOTR 50,30:DRAWR 210,0,0:PLOT >BH<
R -210,-30:DRAWR 0,75,0:DRAWR 200,0
:DRAWR 0,-75

```

Listing 1

```

120 ENV 1,15,-1,4                >ED<
130 ENV 2,1,0,10,15,-1,6        >NE<
140 ORIGIN 320,100              >AF<
150 DRAWR 200,0,1               >QB<
160 DRAWR 0,50                  >RH<
170 DRAWR -400,0                >TJ<
180 DRAWR 0,-50                  >TK<
190 DRAWR 200,0                  >UL<
200 MOVER 200,50                 >CC<
210 DRAWR -50,75                 >BD<
220 DRAWR -300,0                 >ME<
230 DRAWR -50,-75                >CF<
240 ORIGIN 120,150              >EG<
250 FOR i=1 TO 10                >XH<
260 ORIGIN 120,150              >GJ<
270 MOVER 40*i,0:DRAW 50+30*i,75 >YK<
280 NEXT                          >PL<
290 ORIGIN 120,150              >KM<

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```

10 REM *****                >HB<
20 REM programme "Ecrire"      >AC<
30 REM   page ecran de         >GD<
40 REM la machine a ecrire     >FE<
50 REM @ r.duhaubois           >BF<
60 REM *****                >NG<
70 CLG                          >VH<
80 CLS                          >JJ<
90 MODE 0                       >KK<
100 WINDOW #1,1,20,23,25        >KB<
110 BORDER 12:INK 0,12:INK 1,0:INK >HC<
14,12,4

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```

530 DRAWR -200,0:PLOTR 200,0:DRAWR >AJ<
10,0,0:DRAWR 0,80,0:DRAWR -200,0:DR
AWR 0,-10
540 LOCATE x,y:PEN 0:PRINT CHR$(160 >YK<
)
550 LOCATE 10,7:PEN 14:PRINT CHR$(2 >BL<
02)
560 READ a$:PRINT#1, a$; >VM<
570 NEXT >RN<
580 SOUND 2,20,-1,15,1 >RP<
590 DATA M,A,C,H,I,N,E,..,A,..,E,C,R, >PQ<
I,R,E,..,PAR, ROBERT,..DUHAUBOIS
600 REM ***** >YG<
610 REM lancement du 2eme programme >DH<

620 REM sauvegarde sous le nom: >EJ<
630 REM "MACHECR" >FK<
640 REM ***** >CL<
650 RUN "MACHECR" >PM<

100 REM ***** >TB<
110 REM * - machine a ecrire - * >DC<
* horizontale diagonale *
120 REM * * >ZD<
130 REM * r. DUHAUBOIS aout 1986 * >ZE<
140 REM ***** >XF<
150 MODE 2 >LG<
160 INK 1,0 >NH<
170 INK 0,0 >NJ<
180 BORDER 15,16 >XK<
190 ENV 2,1,0,10,15,-1,6 >VL<
200 ENV 1,12,-1,4 >AC<
210 PEN 1 >KD<
220 FOR I=1 TO 80:LOCATE I,1:PRINT >ME<
CHR$(127):NEXT
230 FOR I=1 TO 80:LOCATE I,19:PRINT >AF<
CHR$(127):NEXT
240 FOR I=1 TO 25:LOCATE 1,I:PRINT >CG<
CHR$(127):NEXT
250 FOR I=1 TO 80:LOCATE I,25:PRINT >NH<
CHR$(127):NEXT
260 FOR I=1 TO 25:LOCATE 80,I:PRINT >PJ<
CHR$(127):NEXT
270 CLEAR >GK<
280 PEN 1 >TL<
290 SYMBOL AFTER 128 >AM<
300 GOSUB 2550 >ZD<
310 imp=8:cap=0:mem=1:i$=CHR$(24) >BE<
320 INK 0,13:INK 1,0 >DF<
330 REM ***** >YG<
340 REM ECRAN >EH<
350 REM ***** >AJ<
360 WINDOW #1,2,79,20,21:PAPER #1,1 >TK<
:CLS#1:PEN#1,0

370 WINDOW#2,3,68,23,23: >XL<
380 WINDOW#3,3,65,24,24 >KM<
390 WINDOW #5,72,79,23,24 >BN<
400 LOCATE #1,5,2:PRINT#1,"colonne >PE<
: 1 ligne : 1 <TAB> selection <
CTRL+TAB> pente"
410 WINDOW #1,2,79,21,21 >ZF<
420 ORIGIN 580,33:DRAWR -4,6,1:DRAW >EG<
R 25,-4:DRAWR 0,6:DRAWR 10,-8:DRAWR
-10,-8:DRAWR 0,6:DRAWR -25,-4:DRAW
R 4,6
430 WINDOW 3,78,3,18 >RH<
440 pente =35.8:b=1 >YJ<
450 z=1 >JK<
460 WINDOW #4,1,80,1,1:LOCATE #4,18 >YL<
,1:PRINT #4, " M A C H I N E A
E C R I R E r.Duhaubois @1986 "
470 ORIGIN 0,0:PLOT 6,381,1:DRAWR 6 >ZM<
23,0:DRAWR 0,-273:DRAWR -623,0:DRAW
R 0,273
480 PLOTR 624,-3:DRAWR 0,-268:DRAWR >NN<
-622,0:DRAWR 6,-1:DRAWR 617,0:DRAW
R 0,266:PLOTR 1,-3:DRAWR 0,-264:DR
AWR -614,0:PLOTR 6,-1:DRAWR 608,0:DR
AWR 0,264:DRAWR 1,-3:DRAWR 0,-261

490 ORIGIN 0,0:PLOT 8,55:DRAWR 552, >RP<
0:DRAWR 0,-41:DRAWR -552,0,0:DRAWR
0,-1:DRAWR 552,0,0:DRAWR 0,-1,1:DR
AWR -552,0:DRAWR 0,-1:DRAWR 552,0:DR
AWR 0,-1,1:DRAWR -552,0,1:DRAWR 0,4
5
500 PLOTR 553,-3 :DRAWR 0,-43:DRAWR >LF<
-550,0:PLOTR 3,-1:DRAWR 548,0:DRAW
R 0,43
510 PLOTR -555,10:DRAWR 624,0 >ZG<
520 PLOTR 0,-2:DRAWR -624,0 :PLOTR >MH<
0,3:DRAWR 622,0:PLOTR -8,1:DRAWR -6
05,0,0
530 DRAWR 0,25:DRAWR 605,0:DRAWR 0, >KJ<
-25
540 PLOTR 13,-8:DRAWR 0,-45,1:DRAWR >UK<
-71,0:DRAWR 0,45:DRAWR 71,0
550 PLOTR 1,-4:DRAWR 0,-42:DRAWR -6 >XL<
7,0:PLOTR 68,0:DRAWR 0,41:DRAWR -1,
1:DRAWR 0,-41:PLOTR -1,1:DRAWR 0,41

560 PLOTR -2,0:DRAWR 0,-40:PLOTR -1 >AM<
,0,0:DRAWR 0,40 :PLOTR -1,0:DRAWR 0
,-40
570 DRAWR -66,0,1:PLOTR 0,1:DRAWR 6 >PN<
6,0:PLOTR 0,1,0:DRAWR -66,0:DRAWR 6
9,0:DRAWR 0,41,1:PLOTR -1,0:DRAWR 0
,43
580 ORIGIN 0,383:FOR I=0 TO 640 STE >UP<
P 3:PLOT I,0,1:NEXT
590 ORIGIN 0,56:FOR I=0 TO 640 STEP >PQ<
3:PLOT I,0,1:NEXT
600 REM ***** >VG<

610 REM boucle curseur >UH<
620 REM ***** >XJ<
630 EVERY 20,1 GOSUB 4630 >UK<
640 ORIGIN 1,1:DRAWR 0,398:DRAWR 13 >UL<
0,0:PLOTR 440,0:DRAWR 68,0:DRAWR 0,
-398:DRAWR -638,0
650 CLS#2:PRINT#2, "1 standard 2 db >WM<
frappe 3 gras 4 qual courrier 5 gr
as souligne "
660 GOSUB 4370 >LN<
670 PRINT#3, "6 italique 7 gras db >BP<
frappe 8 gras db frappe soul 9 sou
ligne"
680 IF start=0 THEN start=1:GOSUB >NQ<
4430:GOTO 880
690 IF gras=1 THEN x=mem:xx=0:xc=xc >GR<
+y:gras=0:t=mem:GOTO 710
700 IF soul=1 THEN LOCATE t+1,z:PRI >VH<
NT CHR$(22);CHR$(0);" ";;LOCATE t+1
,z
710 IF soul=2 THEN LOCATE t+1,z:PRI >XJ<
NT CHR$(22);CHR$(0);" ";;LOCATE t+
1,z
720 xx=0:xc=xc+y:gras=0 >VK<
730 REM ***** >CL<
740 REM MODULE DE CHOIX >GM<
DES CARACTERES
750 REM ***** >EN<
760 soul=0:sl=0: b$=INKEY$:IF b$="" >LP<
THEN 760
770 b=VAL(b$):IF b<1 OR b>9 THEN >QQ<
760
780 CLS#2:PRINT#2, "1 standard 2 db >AR<
frappe 3 gras 4 qual courrier 5 gr
as souligne "
790 PRINT#3, "6 italique 7 gras db >ET<
frappe 8 gras db frappe soul 9 sou
ligne"
800 ON b GOTO 880,840,920,960,1000 >EJ<
,1040,1080,1090,1130,1140
810 REM ***** >BK<
820 REM double frappe <esc "E"> >BL<
830 REM ***** >DM<
840 PRINT #imp,CHR$(27);"E";:LOCATE >FN<
#2,1,1:PRINT#2, "1 standard";i$;"
2 db frappe";i$;" 3 gras 4 qual cou
rrier 5 gras souligne " :GOTO 1140
850 REM ***** >FP<
860 REM mode standard <esc "P"> >PQ<
870 REM ***** >HR<
880 PRINT #imp,CHR$(27);"P";:PRINT# >LT<
2, " ;i$;"1 standard";i$;" 2 db fra
ppe 3 gras 4 qual courrier 5 gras s
ouligne " :GOTO 1140
890 REM ***** >KU<
900 REM mode gras <esc "W"+n >NK<
910 REM ***** >CL<
920 PRINT #imp,CHR$(27);"W";CHR$(1) >ZM<
;:PRINT#2, "1 standard 2 db frappe"

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Listing 2


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;i$;" 3 gras";i$;" 4 qual courrier
5 gras souligne ":mem=x:x\2:xx=1:
gras=1:GOTO 1140
930 REM ***** >EN<
940 REM qualite courrier <esc "> >JP<
950 REM ***** >GQ<
960 PRINT #imp,CHR$(27);"(";:PRINT# >RR<
2, "1 standard 2 db frappe3 gras";i
$;" 4 qual courrier";i$;" 5 gras so
uligne ":GOTO 1140
970 REM ***** >JT<
980 REM mode gras <esc "W"+n >CU<
et souligne <esc "-1">
990 REM ***** >LV<
1000 PRINT #imp,CHR$(27);"W";CHR$(1 >MB<
);CHR$(27);"-1";:PRINT#2, "1 standa
rd 2 db frappe 3 gras 4 qual. courr
ier";i$;" 5 gras souligne";i$;:mem=
x:x\2:xx=1:gras=1:soul=2:GOTO 114
0
1010 REM ***** >AC<
1020 REM mode alterne = italique >YD<
<esc "4">
1030 REM ***** >CE<
1040 PRINT #imp,CHR$(27);"4";:PRINT >AF<
#3, " ";i$;"6 italique ";i$;" 7 gr
as db frappe 8 gras db frappe soul 9
souligne":GOTO 1140
1050 REM ***** >EG<
1060 REM mode gras double frappe >RH<
souligne <esc "!"
+chr$(48)+esc "-1">
1070 REM ***** >GJ<
1080 PRINT #imp,CHR$(27);"!";CHR$(4 >JK<
8);:PRINT#3, "6 italique";i$;" 7 gr
as db frappe ";i$;" 8 gras db frapp
e soul 9 souligne":mem=x:x\2:xx=1
:gras=1:GOTO 1140
1090 PRINT #imp,CHR$(27);"!";CHR$(4 >GL<
8);CHR$(27);"-1";:PRINT#3, "6 itali
que 7 gras db frappe ";i$;" 8 gras
db frappe soul ";i$;"9 souligne":me
m=x:x\2:soul=2:gras=1:GOTO 1140
1100 REM ***** >AC<
1110 REM standard souligne >UD<
<esc "-1">
1120 REM ***** >CE<
1130 PRINT #imp,CHR$(27);"-1";:PRIN >YF<
T#3, "6 italique 7 gras db frappe
8 gras db frappe soul ";i$;"9 souli
gne";i$;:soul=1
1140 BORDER 13:y=0 >MG<
1150 IF INKEY(70)=0 THEN GOSUB 434 >AH<
0
1160 REM ***** >GJ<
1170 REM SAISIE DE LA FRAPPE >NK<
1180 REM ***** >JL<
1190 EI:a$=INKEY$ >WM<
1200 IF INKEY(68)=128 THEN GOTO 450 >QD<
0
1210 IF scroll=2 THEN zz=z-1 ELSE I >GE<
F scroll=1 THEN zz=z+1 ELSE zz=z
1220 IF zz=0 THEN zz=1 >DF<
1230 IF soul=1 AND sl=0 THEN PRINT >PG<
CHR$(22);CHR$(1);:LOCATE t+1,zz:PRI
NT "_";:sl=1:LOCATE t+1,z:GOTO 1250
1240 IF soul=2 AND sl=0 THEN PRINT >VH<
CHR$(22);CHR$(1);:LOCATE t+1,zz:PRI
NT "_";:sl=1:LOCATE t+1,z:GOTO 125
0
1250 IF a$="" THEN 1150 >UJ<
1260 DI >XK<
1270 IF soul=1 AND sl=1 THEN PRINT >UL<
CHR$(22);CHR$(1);:LOCATE t+1,zz:PRI
NT "_";:LOCATE t+1,z
1280 IF soul=2 AND sl=1 THEN PRINT >ZM<
CHR$(22);CHR$(1);:LOCATE t+1,zz:PRI
NT "_";:LOCATE t+1,z
1290 IF a$=CHR$(13) THEN 1560 >FN<
1300 IF a$="→" THEN 1650 >EE<
1310 REM y=y+xx >KF<
1320 x=x+1 >YG<
1330 xc=xc+1 >VH<
1340 IF x>68 OR t>68 THEN 1600 >EJ<
1350 IF x>77 OR t>75 THEN 1520 >EK<
1360 IF scroll=1 THEN z=z+1 ELSE IF >KL<
scroll=2 THEN z=z-1
1370 IF z=0 THEN z=1:LOCATE 1,1:PRI >DM<
NT CHR$(11)
1380 IF z>15 THEN LOCATE 1,17:PRINT >GN<
CHR$(13);:z=15:SOUND 2,20,-1,15,1
1390 IF a$=CHR$(32) THEN SOUND 2,35 >NP<
,-1,15,1
1400 REM ***** >DF<
1410 REM envoi des codes impression >NG<
1420 REM ***** >FH<
1430 PRINT #imp,CHR$(27);"1";CHR$(x >DJ<
);
1440 PRINT #imp,CHR$(27);"j";CHR$(p >VK<
ente);
1450 PRINT #imp,a$ >XL<
1460 DI >ZM<
1470 IF gras=1 THEN GOSUB 1680:LOCA >LN<
TE mem+1,z:PRINT a$;:mem=mem+2:GOTO
1490
1480 LOCATE t+1,z:PRINT a$; >GP<
1490 IF gras =1 THEN t=mem ELSE t=x >GQ<
1500 LOCATE #1,14,1:PRINT#1,t+1:LOC >WG<
ATE #1,27,1:PRINT #1,z
1510 EI: GOTO 1190 >VH<
1520 x=1:xc=1:y=0:z=z+1:MEM=0:t=0:P >BJ<
RINT #8, CHR$(13)
1530 SOUND 2,20,-1,15,1 >PK<
1540 PRINT >BL<
1550 GOTO 1360 >FM<
1560 x=0:xc=1:y=0:z=z+1:T=0:MEM=0:P >EN<
RINT #8, CHR$(13)
1570 SOUND 2,20,-1,15,1 >UP<
1580 PRINT >FQ<
1590 LOCATE #1,14,1:PRINT#1,t+1:LOC >ER<
ATE #1,27,1:PRINT #1,z: GOTO 1190
1600 SOUND 1,150-x >CH<
1610 GOTO 1350 >BJ<
1620 REM ***** >HK<
1630 REM initialisation imprimante >DL<
avant changement de frappe
1640 REM ***** >KM<
1650 PRINT #imp,CHR$(27);"e"; >TN<
1660 BORDER 13,1 >TP<
1670 GOTO 650 >HQ<
1680 IF ASC(A$)=32 THEN A$=" ":RET >CR<
URN
1690 IF ASC(A$)=13 THEN X=0:T=0:ME >BT<
M=0:RETURN
1700 REM ***** >GJ<
1710 REM SAISIE DES CARACTERES >BK<
ELARGIS
1720 REM ***** >JL<
1730 IF ASC(a$)>64 AND ASC(a$)<91 G >YM<
OTO 1780
1740 IF ASC(a$)>47 AND ASC(a$)<58 T >JN<
HEN GOTO 1790
1750 IF ASC(a$)>96 AND ASC(a$)<123 >AP<
THEN GOTO 1800
1760 a$=a$+ "." :RETURN >GQ<
1770 RETURN >XR<
1780 ON ASC(a$)-64 GOTO 1840,1850,1 >JT<
860,1870,1880,1890,1900,1910,1920,1
930,1940,1950,1960,1970,1980,1990,2
000,2010,2020,2030,2040,2050,2060,2
070,2080,2090
1790 ON ASC(a$)-47 GOTO 2130,2140,2 >MU<
150,2160,2170,2180,2190,2200,2210,2
220
1800 ON ASC(a$)-96 GOTO 2260,2270,2 >LK<
280,2290,2300,2310,2320,2330,2340,2
350,2360,2370,2380,2390,2400,2410,2
420,2430,2440,2450,2460,2470,2480,2
490,2500,2510
1810 REM ***** >JL<
1820 REM MAJUSCULES >ZM<
1830 REM ***** >LN<
1840 a$=a1$:RETURN >XP<
1850 a$=b1$:RETURN >ZQ<
1860 a$=c1$:RETURN >BR<
1870 a$=d1$:RETURN >DT<
1880 a$=e1$:RETURN >FU<
1890 a$=f1$:RETURN >HV<
1900 a$=g1$:RETURN >AL<
1910 a$=h1$:RETURN >CM<
1920 a$=i1$:RETURN >EN<
1930 a$=j1$:RETURN >GP<
1940 a$=k1$:RETURN >JQ<
1950 a$=l1$:RETURN >LR<

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1960 a\$m1\$:RETURN	>NT<	2540 REM ***** >KM<	0,60,0
1970 a\$=n1\$:RETURN	>QU<	2550 SYMBOL 129,3,15,60,60,63,60,60 >LN<	2850 k1\$=CHR\$(147)+CHR\$(148):REM K >PR<
1980 a\$=o1\$:RETURN	>TV<	,0	maj
1990 a\$=p1\$:RETURN	>VW<	2560 SYMBOL 130,192,240,60,60,252,6 >XP<	2860 SYMBOL 149,0,0,0,0,12,60,252,0 >MT<
2000 a\$=q1\$:RETURN	>CC<	0,60,0	
2010 a\$=r1\$:RETURN	>ED<	2570 a1\$=CHR\$(129)+CHR\$(130):REM Am >PQ<	2870 11\$=CHR\$(135)+CHR\$(149):REM L >RU<
2020 a\$=s1\$:RETURN	>GE<	ajus	maj
2030 a\$=t1\$:RETURN	>JF<	2580 SYMBOL 131,255,60,60,63,60,60, >ER<	2880 SYMBOL 150,240,252,255,255,243 >YV<
2040 a\$=u1\$:RETURN	>LG<	255,0	,240,240,0
2050 a\$=v1\$:RETURN	>NH<	2590 SYMBOL 132,240,60,60,240,60,60 >TT<	2890 SYMBOL 151,60,252,252,252,60,6 >GW<
2060 a\$=w1\$:RETURN	>QJ<	,240,0	0,60,0
2070 a\$=x1\$:RETURN	>TK<	2600 b1\$=CHR\$(131)+CHR\$(132):REM B >XJ<	2900 m1\$=CHR\$(150)+CHR\$(151):REM M >BM<
2080 a\$=y1\$:RETURN	>VL<	maj	maj
2090 a\$=z1\$:RETURN	>XM<	2610 SYMBOL 133,15,60,240,240,240,6 >LK<	2910 SYMBOL 152,240,252,255,243,240 >MN<
2100 REM *****	>CD<	0,15,0	,240,240,0
2110 REM CHIFFRES	>YE<	2620 SYMBOL 134,240,60,0,0,0,60,240 >KL<	2920 SYMBOL 153,60,60,60,252,252,60 >XP<
2120 REM *****	>EF<	,0	,60,0
2130 a\$=zero\$:RETURN	>NG<	2630 c1\$=CHR\$(133)+CHR\$(134):REM C >GM<	2930 n1\$=CHR\$(152)+CHR\$(153):REM N >LQ<
2140 a\$=un\$:RETURN	>UH<	maj	maj
2150 a\$=deux\$:RETURN	>EJ<	2640 SYMBOL 135,255,60,60,60,60,60, >CN<	2940 o1\$=CHR\$(133)+CHR\$(136):REM O >PR<
2160 a\$=trois\$:RETURN	>EK<	255,0	maj
2170 a\$=quat\$:RETURN	>ML<	2650 SYMBOL 136,192,240,60,60,60,24 >JF<	2950 SYMBOL 154,240,60,60,192,0,0,0 >AT<
2180 a\$=cinq\$:RETURN	>WM<	0,192,0	,0
2190 a\$=six\$:RETURN	>MN<	2660 d1\$=CHR\$(135)+CHR\$(136):REM D >RQ<	2960 p1\$=CHR\$(131)+CHR\$(154):REM P >RU<
2200 a\$=sept\$:RETURN	>GE<	maj	maj
2210 a\$=huit\$:RETURN	>FF<	2670 SYMBOL 137,252,12,192,192,192, >WR<	2970 SYMBOL 156,15,60,240,240,243,2 >KV<
2220 a\$=neuf\$:RETURN	>UG<	12,252,0	40,63,0
2230 REM *****	>CH<	2680 e1\$=CHR\$(131)+CHR\$(137):REM E >TT<	2980 SYMBOL 157,192,240,60,60,204,2 >MW<
2240 REM MINUSCULES	>JJ<	maj	40,60,0
2250 REM *****	>EK<	2690 SYMBOL 138,252,12,192,192,192, >EU<	2990 q1\$=CHR\$(156)+CHR\$(157):REM Q >HX<
2260 a\$=a2\$:RETURN	>VL<	0,0,0	maj
2270 a\$=b2\$:RETURN	>XM<	2700 f1\$=CHR\$(131)+CHR\$(138):REM F >NK<	3000 SYMBOL 158,240,60,60,240,240,6 >JD<
2280 a\$=c2\$:RETURN	>ZN<	maj	0,12,0
2290 a\$=d2\$:RETURN	>BP<	2710 SYMBOL 139,15,60,240,240,240,2 >ZL<	3010 r1\$=CHR\$(131)+CHR\$(158):REM R >LE<
2300 a\$=e2\$:RETURN	>UF<	40,63,0	maj
2310 a\$=f2\$:RETURN	>WG<	2720 SYMBOL 140,240,60,0,0,252,60,2 >AM<	3020 SYMBOL 159,15,60,60,15,0,60,15 >AF<
2320 a\$=g2\$:RETURN	>YH<	52,0	,0
2330 a\$=h2\$:RETURN	>AJ<	2730 g1\$=CHR\$(139)+CHR\$(140):REM G >VN<	3030 SYMBOL 160,240,60,0,240,60,60, >ZB<
2340 a\$=i2\$:RETURN	>CK<	maj	240,0
2350 a\$=j2\$:RETURN	>EL<	2740 SYMBOL 141,60,60,60,63,60,60,6 >LP<	3040 s1\$=CHR\$(159)+CHR\$(160):REM S >VH<
2360 a\$=k2\$:RETURN	>GM<	0,0	maj
2370 a\$=l2\$:RETURN	>JN<	2750 SYMBOL 142,60,60,60,252,60,60, >QQ<	3050 SYMBOL 161,63,51,3,3,3,15,0 >LJ<
2380 a\$=m2\$:RETURN	>LP<	60,0	3060 SYMBOL 162,252,204,192,192,192 >BK<
2390 a\$=n2\$:RETURN	>NQ<	2760 h1\$=CHR\$(141)+CHR\$(142):REM H >VR<	,192,240,0
2400 a\$=o2\$:RETURN	>FB<	maj	3070 t1\$=CHR\$(161)+CHR\$(162):REM T >VL<
2410 a\$=p2\$:RETURN	>HH<	2770 SYMBOL 143,63,3,3,3,3,63,0 >TT<	maj
2420 a\$=q2\$:RETURN	>KJ<	2780 SYMBOL 144,252,192,192,192,192 >VU<	3080 SYMBOL 163,60,60,60,60,60,60,1 >KM<
2430 a\$=r2\$:RETURN	>MK<	,192,252,0	5,0
2440 a\$=s2\$:RETURN	>FL<	2790 i1\$=CHR\$(143)+CHR\$(144):REM I >EV<	3090 SYMBOL 164,60,60,60,60,60,60,2 >PN<
2450 a\$=t2\$:RETURN	>RM<	maj	40,0
2460 a\$=u2\$:RETURN	>UN<	2800 SYMBOL 145,0,0,0,0,240,240,63, >GL<	3100 u1\$=CHR\$(163)+CHR\$(164):REM U >VE<
2470 a\$=v2\$:RETURN	>WP<	0	maj
2480 a\$=w2\$:RETURN	>YQ<	2810 SYMBOL 146,252,240,240,240,240 >LM<	3110 SYMBOL 165,60,60,60,60,60,15,0 >XF<
2490 a\$=x2\$:RETURN	>AR<	,240,192,0	,0
2500 a\$=y2\$:RETURN	>TH<	2820 j1\$=CHR\$(145)+CHR\$(146):REM J >EN<	3120 SYMBOL 166,60,60,60,60,60,240, >UG<
2510 a\$=z2\$:RETURN	>VJ<	maj	192,0
2520 REM *****	>HK<	2830 SYMBOL 147,252,60,60,63,60,60, >DP<	3130 v1\$=CHR\$(165)+CHR\$(166):REM V >EH<
2530 REM REDEFINITION DES CARACTERES ELARGIS	>RL<	252,0	maj
		2840 SYMBOL 148,60,60,240,192,240,6 >EQ<	3140 SYMBOL 167,240,240,240,243,255 >PJ<

,252,240,0	3460 g2\$=CHR\$(187)+CHR\$(188)	>QF<	3840 SYMBOL 213,0,0,60,60,60,60,15,	>TR<
3150 SYMBOL 168,60,60,60,60,252,252	3470 SYMBOL 189,252,60,60,63,60,60,	>LQ<	0	
,60,0	252,0		3850 SYMBOL 214,0,0,60,60,60,60,252	>AT<
3160 w1\$=CHR\$(167)+CHR\$(168): REM W	3480 SYMBOL 190,0,0,240,60,60,60,60	>ZR<	,0	
maj	,0		3860 u2\$=CHR\$(213)+CHR\$(214)	>NU<
3170 SYMBOL 169,240,60,15,15,60,240	3490 h2\$=CHR\$(189)+CHR\$(190)	>FT<	3870 SYMBOL 215,0,0,60,60,60,15,3,0	>TV<
,192,0	3500 SYMBOL 191,3,0,15,3,3,15,0	>CJ<		
3180 SYMBOL 170,60,240,192,192,240,	3510 SYMBOL 192,192,0,192,192,192,1	>XK<	3880 SYMBOL 216,0,0,60,60,60,240,19	>LW<
60,60,0	92,240,0		2,0	
3190 x1\$=CHR\$(169)+CHR\$(170): REM X	3520 i2\$=CHR\$(191)+CHR\$(192)	>DL<	3890 v2\$=CHR\$(215)+CHR\$(216)	>XX<
maj	3530 SYMBOL 193,0,0,0,0,60,60,15	>DM<	3900 SYMBOL 217,0,0,240,243,243,255	>QN<
3200 SYMBOL 171,60,60,60,15,3,3,15,	3540 SYMBOL 194,12,0,252,60,60,60,6	>VN<	,60,0	
0	0,240		3910 SYMBOL 218,0,0,60,60,60,252,24	>DP<
3210 SYMBOL 172,60,60,60,240,192,19	3550 j2\$=CHR\$(193)+CHR\$(194)	>MP<	0,0	
2,240,0	3560 SYMBOL 195,252,60,60,60,63,60,	>HQ<	3920 w2\$=CHR\$(217)+CHR\$(218)	>WQ<
3220 y1\$=CHR\$(171)+CHR\$(172): REM Y	252,0		3930 SYMBOL 219,0,0,240,60,15,60,24	>DR<
maj	3570 SYMBOL 196,0,0,60,240,192,240,	>RR<	0,0	
3230 SYMBOL 173,255,240,192,3,15,60	60,0		3940 SYMBOL 220,0,0,60,240,192,240,	>ET<
,255,0	3580 k2\$=CHR\$(195)+CHR\$(196)	>WT<	60,0	
3240 SYMBOL 174,252,60,240,192,12,6	3590 SYMBOL 197,15,3,3,3,3,15,0	>XU<	3950 x2\$=CHR\$(219)+CHR\$(220)	>VU<
0,252,0	3600 SYMBOL 198,192,192,192,192,192	>MK<	3960 SYMBOL 221,0,0,60,60,60,15,0,6	>YV<
3250 z1\$=CHR\$(173)+CHR\$(174): REM Z	,192,240,0		3	
maj	3610 l2\$=CHR\$(197)+CHR\$(198)	>VL<	3970 SYMBOL 222,0,0,60,60,60,60,60,	>HW<
3260 SYMBOL 175,0,0,63,0,63,243,60,	3620 SYMBOL 199,0,0,60,255,243,243,	>ZM<	240	
0	240,0		3980 y2\$=CHR\$(221)+CHR\$(222)	>UX<
3270 SYMBOL 176,0,0,192,240,240,240	3630 SYMBOL 200,0,0,240,252,60,60,6	>TN<	3990 SYMBOL 223,0,0,63,48,3,15,63,0	>HY<
,60,0	0,0		4000 SYMBOL 224,0,0,252,240,192,0,2	>WE<
3280 a2\$=CHR\$(175)+CHR\$(176)	3640 m2\$=CHR\$(199)+CHR\$(200)	>JP<	52,0	
3290 SYMBOL 177,252,252,63,60,60,60	3650 SYMBOL 201,0,0,243,60,60,60,60	>UQ<	4010 z2\$=CHR\$(223)+CHR\$(224)	>HF<
,207,0	,0		4020 SYMBOL 225,3,15,3,3,3,63,0	>EG<
3300 SYMBOL 178,0,0,240,60,60,60,24	3660 SYMBOL 202,0,0,192,60,60,60,60	>ZR<	4030 SYMBOL 226,192,192,192,192,192	>NH<
0,0	,0		,192,252,0	
3310 b2\$=CHR\$(177)+CHR\$(178)	3670 n2\$=CHR\$(201)+CHR\$(202)	>YT<	4040 un\$=CHR\$(225)+CHR\$(226)	>QJ<
3320 SYMBOL 179,0,0,15,60,60,60,15,	3680 o2\$=CHR\$(179)+CHR\$(178)	>DU<	4050 SYMBOL 227,15,60,0,15,60,60,63	>DK<
0	3690 SYMBOL 203,0,0,243,60,60,63,60	>WV<	,0	
3330 SYMBOL 180,0,0,240,60,0,60,240	,255		4060 SYMBOL 228,240,60,60,240,0,60,	>ML<
,0	3700 SYMBOL 204,0,0,240,60,60,60,24	>RL<	252,0	
3340 c2\$=CHR\$(179)+CHR\$(180): REM c	0,0		4070 deux\$=CHR\$(227)+CHR\$(228)	>HM<
min	3710 p2\$=CHR\$(203)+CHR\$(204)	>ZM<	4080 SYMBOL 229,15,48,0,3,0,48,15,0	>EN<
3350 SYMBOL 181,3,0,15,60,60,60,15,	3720 SYMBOL 205,0,0,63,240,240,63,0	>EN<		
0	,63		4090 SYMBOL 230,240,60,60,240,60,60	>NP<
3360 SYMBOL 182,240,240,240,240,240	3730 SYMBOL 206,0,0,60,240,240,240,	>QP<	,240,0	
,240,60,0	240,252		4100 trois\$=CHR\$(229)+CHR\$(230)	>VF<
3370 d2\$=CHR\$(181)+CHR\$(182)	3740 q2\$=CHR\$(205)+CHR\$(206)	>HQ<	4110 SYMBOL 231,3,15,51,195,255,3,1	>KG<
3380 SYMBOL 183,0,0,15,60,63,60,15,	3750 SYMBOL 207,0,0,243,60,60,60,25	>KR<	5,0	
0	5,0		4120 SYMBOL 232,192,192,192,192,240	>AH<
3390 SYMBOL 184,0,0,240,60,252,0,24	3760 SYMBOL 208,0,0,192,240,0,0,0,0	>HT<	,192,240,0	
0,0			4130 quat\$=CHR\$(231)+CHR\$(232)	>ZJ<
3400 e2\$=CHR\$(183)+CHR\$(184): REM e	3770 r2\$=CHR\$(207)+CHR\$(208)	>RU<	4140 SYMBOL 233,63,60,60,15,0,60,15	>AK<
min	3780 SYMBOL 209,0,0,15,60,15,0,63,0	>WV<	,0	
3410 SYMBOL 185,3,15,15,63,15,15,63			4150 SYMBOL 234,252,12,0,240,60,60,	>FL<
,0	3790 SYMBOL 210,0,0,240,0,240,60,24	>RW<	240,0	
3420 SYMBOL 186,240,60,0,192,0,0,19	0,0		4160 cinq\$=CHR\$(233)+CHR\$(234)	>PM<
2,0	3800 s2\$=CHR\$(209)+CHR\$(210)	>FM<	4170 SYMBOL 235,15,60,60,63,60,60,1	>PN<
3430 f2\$=CHR\$(185)+CHR\$(186)	3810 SYMBOL 211,15,15,63,15,15,15,3	>CN<	5,0	
3440 SYMBOL 187,0,0,15,60,60,15,0,6	,0		4180 SYMBOL 236,240,60,0,240,60,60,	>LP<
>CM<	3820 SYMBOL 212,0,0,240,0,0,60,240,	>BP<	240,0	
3	0		4190 six\$=CHR\$(235)+CHR\$(236)	>MQ<
3450 SYMBOL 188,0,0,252,60,60,252,6	3830 t2\$=CHR\$(211)+CHR\$(212)	>EQ<		
0,240				

4200 SYMBOL 237,63,48,0,1,0,0,0,0 >ZG<	4390 RETURN >YT<	TO 4600 ELSE IF pente>35.8 THEN :BO
4210 SYMBOL 238,252,60,60,240,252,2 >BH<	4400 REM ***** >GJ<	RDER 3:GOTO 4580 ELSE BORDER 5:GOTO
40,240,0	4410 REM TEST IMPRIMANTE BRANCHEE? >ZK<	4590
4220 sept\$=CHR\$(237)+CHR\$(238) >NJ<	4420 REM ***** >JL<	4580 ORIGIN 580,33:scroll=2:DRAW - >UJ<
4230 SYMBOL 239,15,60,60,15,60,60,1 >MK<	4430 LOCATE 25,3:PRINT I1\$:M1\$:P1\$: >YM<	6,6,1:DRAW 20,2:DRAW -3,7:DRAW 1
5,0	R1\$:I1\$:M1\$:A1\$:N1\$:T1\$:E1\$;	2,0:DRAW -2,-12:DRAW -6,2:DRAW -
4240 SYMBOL 240,240,60,60,240,60,60 >LL<	4440 LOCATE 25,6:PRINT N2\$:O2\$:N2\$: >ZN<	15,-15:DRAW 1,10:GOTO 780
,240,0	" ":B1\$:R1\$:A1\$:N1\$:C1\$:H1\$:E1\$:E1	4590 ORIGIN 580,33:scroll=1:DRAW - >QV<
4250 huit\$=CHR\$(239)+CHR\$(240) >JM<	\$;	6,-6,1:DRAW 20,-2:DRAW -3,-7:DRAW
4260 SYMBOL 241,15,60,60,15,0,60,15 >ZN<	4450 PRINT #0:CLS:RETURN >XP<	R 12,0:DRAW -2,12:DRAW -6,-2:DRAW
,0	4460 REM ***** >NQ<	R -15,15:DRAW 1,-10:GOTO 780
4270 SYMBOL 242,240,60,60,252,60,60 >VP<	4470 REM ***** >PR<	4600 ORIGIN 580,33:DRAW -4,6:DRAW >KL<
,240,0	4480 REM ANGLE D'ECRITURE >VT<	25,-4:DRAW 0,6:DRAW 10,-8:DRAW
4280 neuf\$=CHR\$(241)+CHR\$(242) >UQ<	4490 REM ***** >RU<	-10,-8:DRAW 0,6:DRAW -25,-4:DRAW
4290 SYMBOL 243,63,240,240,243,252, >MR<	4500 CLS#2:CLS#3:CLS#5:scroll=0 >YK<	4,6
240,63,0	4510 BORDER 3,24 >UL<	4610 scroll=0 >TM<
4300 SYMBOL 244,240,60,252,60,60,60 >QH<	4520 IF GRAS=1 THEN X=MEM >GM<	4620 GOTO 780 >KN<
,240,0	4530 PRINT #2:PRINT #2,"écriture en >DN<	4630 DI >BP<
4310 zero\$=CHR\$(243)+CHR\$(244) >LJ<	montee ou descente ":	4640 PRINT CHR\$(22);CHR\$(1); >FQ<
4320 RETURN >QK<	4540 PRINT #3,"horizontal =>ESPACE< >NP<	4650 IF z>16 THEN z1=16:GOTO 4670 >XR<
4330 REM ***** >JL<	= ,1 descente, 2 montee"	4660 IF z<1 THEN z1=1 ELSE z1=z >LT<
4340 REM test capitales >LM<	4550 LOCATE #2,40,1: PRINT #2,"vot >AQ<	4670 LOCATE t+1,z1:PRINT CHR\$(246); >RU<
4350 REM ***** >LN<	re choix ":A\$=INKEY\$:IF A\$="" THEN	
4360 IF cap=0 THEN cap=1 ELSE cap=0 >DP<	4550	4680 FOR t1=1 TO 50:NEXT >QV<
	4560 IF a\$="" THEN pente=35.8 ELSE >FR<	4690 LOCATE t+1,z1:PEN 0:PRINT CHR\$ >UW<
4370 IF cap=1 THEN LOCATE #1,65,1:P >OQ<	IF a\$="1" THEN pente=0 ELSE IF A\$=	(246);:PEN 1
RINT #1,"MAJUSCULES" ELSE LOCATE #1	"2" THEN pente=71.6 ELSE GOTO 4550	4700 EI >AM<
,65,1:PRINT#1, "minuscules"		4710 PRINT CHR\$(22);CHR\$(0); >DN<
4380 FOR temp=1 TO 500:NEXT >VR<	4570 IF pente=35.8 THEN BORDER 0:GO >RT<	4720 RETURN >VP<