

Valable pour
☒ CPC 464
☒ CPC 664
☒ CPC 6128

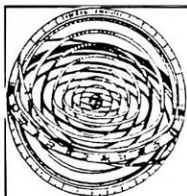
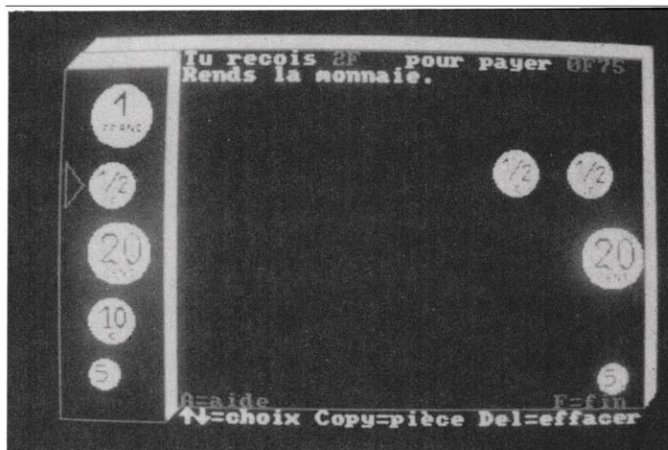
MONNAIE

Georges LAVERGNE

"... Et cinquante qui nous font cent".
 Combien de fois avons-nous entendu
 cette phrase qui nous semble parler
 d'elle-même. Pourtant, les enfants ont
 parfois du mal à saisir la "valeur de l'ar-
 gent" (disait ma grand-mère).

Monnaie se propose donc d'enseigner,
 au travers d'exercices simples, des
 notions telles que : rendre la monnaie et
 faire une somme.

Les possesseurs de 464 devront rempla-
 cer les instructions "FILL" par la RSX de
 remplissage de leur choix.



SOUS QUELLE
 ETOILE
 SUIS-JE NE ?

290 F.

La disquette double-face

MIROIR ASTRAL

Avec une date, une heure et un lieu de naissance,
 votre CPC établira un **portrait psychologique**
approfondi d'environ 15 pages sur imprimante !
 un logiciel qui vous étonnera par sa profondeur !

(version familiale d'un logiciel utilisé par les professionnels)

**Astropsychanalysez votre famille, vos amis,
 comme les plus grands hommes célèbres...**

Commandez votre disquette pour CPC 6128 ou CPC 664
 (PORT GRATUIT) à :

Bernard VILLEMEN

317, Av. de Verdun - 83110 SANARY - Tél. 94 74 32 00

ALLO !
 CPC.

LES VRAIS LIONS
 PROGRAMMENT
 A V E C
 CPC

Une ligne téléphonique est à
 votre disposition, vous mettant
 en contact direct avec la rédaction.
 Ceci est un service sans
 égal ! Respectez simplement les
 horaires et les jours que nous
 vous indiquons :

MERCREDI de 9 h à 12 h et de
 14 h à 17 h.

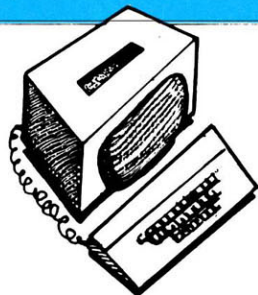
VENDREDI de 9 h à 12 h seule-
 ment.

Tout appel en dehors de ces cré-
 neaux sera refoulé : ne dépensez
 pas inutilement votre argent !

Le numéro :

99.52.98.11





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10 '#####
20 ' Monnaie/Lavergne g./01-87
30 '#####
40 's$=somme en f et c
50 'sc=somme en centimes
60 'n1,n2,n3,n4,n5=nombre de 1eres
   pieces,de 2emes pieces,etc...
70 'essai=nbre de pieces affichees
80 'aide=nombre d'aides non comptabilisees
90 'ai=nombre d'aides
100 'er=nombre d'erreurs
110 'bien=points bonne reponse
120 'sc=score par exercice
130 'ex=nombre d'exercices:ex1=exercice 1 etc...
140 'total=score general
150 'eff1,eff2,eff3 etc,,,=pour ne plus effacer
160 'so1,so2,so3 etc...=valeur de chaque piece
170 'p1$,p2$,p3$ etc...=pieces de chaque niveau
180 'eff=pour pouvoir effacer
190 'somme=somme affichee
200 ' la monnaie
210 MODE 1:ON BREAK CONT:SYMBOL AFT
ER 122:CLS
220 DIM s$(25),sc(25),n1(25),n2(25),n3(25),n4(25),n5(25),MAXi$(25),pri$(25),mon(25),m1(25),m2(25),m3(25),m4(25),m5(25)
230 WINDOW #1,9,39,2,24:WINDOW #2,9,39,4,24
240 GOSUB 1480:'accents
250 GOSUB 1910:BORDER 0:GOSUB 1540:'generique
260 GOSUB 1910:PAPER 0:PEN 1:BORDER 0
270 GOSUB 1610:GOSUB 1900:CLS
280 GOSUB 2130:'niveaux
290 GOSUB 1900:CLS
300 GOSUB 1820:GOSUB 1900:CLS:choix exercices
310 GOSUB 2650:'creation caracteres
320 GOSUB 4240:'lecture pieces

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330 GOSUB 4110:'cadre
340 aide=0:essai=0
350 IF niveau=2 THEN GOSUB 2570:RESTORE 4670:LOCATE 3,4:PEN 1:PRINT f1$:LOCATE 3,9:PRINT c50$:LOCATE 3,13:PEN 2:PRINT c20$:LOCATE 3,18:PRINT c10$:LOCATE 3,22:PRINT c5$:GOTO 380
360 IF niveau=3 THEN GOSUB 2560:RESTORE 4720:LOCATE 3,4:PEN 2:PRINT f10$:PEN 1:LOCATE 3,8:PRINT f5$:LOCATE 3,13:PEN 1:PRINT f2$:LOCATE 3,18:PRINT c50$:LOCATE 3,22:PEN 2:PRINT c5$
370 IF niveau=1 THEN GOSUB 2550:RESTORE 4620:LOCATE 3,4:PEN 1:PRINT c50$:LOCATE 3,8:PEN 2:PRINT c20$:LOCATE 3,13:PEN 2:PRINT c10$:LOCATE 3,18:PRINT c5$:LOCATE 3,22:PEN 1:PRINT c1$
380 FOR t=1 TO 25:READ s$(t),sc(t),n1(t),n2(t),n3(t),n4(t),n5(t),MAXi$(t),pri$(t),mon(t),m1(t),m2(t),m3(t),m4(t),m5(t):NEXT
390 IF ex1=1 THEN 510:'faire une somme
400 IF ex2=1 THEN 820:'trouver une somme
410 IF ex3=1 THEN 1210:'rendre la monnaie
420 '
430 '
440 '
450 '
460 ' FAIRE UNE SOMME
470 '
480 '
490 '
500 '
510 PLOT 7,336+av,3:DRAW 7,288+av,3:DRAW 25,312+av,3:DRAW 7,336+av,3
520 ex=ex+1
530 PEN 1:LOCATE 9,2:PRINT "Somme a trouver:":LOCATE 9,24:PEN 3:PRINT "A=aide":LOCATE 34,24:PRINT "F=fin":PEN 2:LOCATE 9,25:PRINT CHR$(240)+CHR$(241)+"=choix":PEN 1:LOCATE 18,25:PRINT "Copy=pi$ce":LOCATE 29,25:PEN 2:PRINT "Del=effacer"
540 PLOT 624,16,3:DRAW 128,16,3
550 essai=0:x=INT(RND*5)+1:PEN 2:LOCATE 26,2:PRINT s$(x)
560 GOSUB 1910:PAPER 0:PEN 1:BORDER 0
570 IF INKEY(0)=0 THEN GOSUB 3970:'vers le haut
580 IF INKEY(2)=0 THEN GOSUB 3820:'vers le bas

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590 IF INKEY(79)=0 THEN eff=1:essai=
essai-1:GOSUB 3330:'efface
600 IF INKEY(9)=0 THEN essai=essai+
1:GOSUB 3330:'affichage piece
610 IF INKEY(18)=0 OR INKEY(6)=0 T
HEN 700
620 IF INKEY(53)=0 THEN GOSUB 3030:
GOTO 690:'Fin
630 IF INKEY(69)=0 THEN aide=aide+1
:GOSUB 2290:PEN 2:LOCATE 9,25:PRINT
CHR$(240)+CHR$(241)+"=choix":PEN 1
:LOCATE 18,25:PRINT "Copy=pi)ce":LO
CATE 29,25:PEN 2:PRINT "Del=effacer
":'aide
640 IF INKEY(18)=0 OR INKEY(6)=0 TH
EN 670
650 LOCATE 3,2:PRINT essai
660 GOTO 570
670 IF ex3=1 THEN 1290:'rendre mon-
naie
680 IF sc(x)=somme THEN GOSUB 2870
ELSE 3210:'vrai ou faux
690 IF INKEY(38)<>0 AND INKEY(47)<>
0 THEN 690
700 IF INKEY(38)=0 THEN 270:'menu
niveaux
710 IF ex3=1 THEN CLS #1:GOTO 1210:
'suite
720 IF ex1=1 THEN CLS #1:GOTO 510:
suite
730 '
740 '
750 '
760 '
770 ' TROUVER LA SOMME
780 '
790 '
800 '
810 '
820 ex=ex+1
830 PEN 1:LOCATE 9,2:PRINT "Ecris 1
a somme":PEN 1:LOCATE 25,2:PRINT "
F":LOCATE 28,2:PRINT " c":LOCATE
9,24:PEN 3:PRINT "A=aide":LOCATE 34
,24:PRINT "F=fin":LOCATE 9,25:PRINT
"Del=effacer":LOCATE 22,25:PEN 2:P
RINT "Enter pour valider
840 PLOT 624,16,3:DRAW 128,16,3
850 x=INT(RND*5)+1
860 GOSUB 1920:'affichage pieces
870 GOSUB 1910:PAPER 0:PEN 1:BORDER
0
880 h=25
890 IF INKEY$<>"" THEN 890
900 Q$=INKEY$
910 IF pas=2 THEN LOCATE 22,25:PEN
3:PRINT "Enter":FOR a=1 TO 20:NEXT:
PEN 2:LOCATE 22,25:PRINT "Enter":FO

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R a=1 TO 20:NEXT
920 LOCATE h+pas,3:PEN 3:PRINT "-":
FOR a=1 TO 50:NEXT:LOCATE h+pas,3:P
RINT " ":FOR a=1 TO 50:NEXT
930 IF INKEY(18)=0 OR INKEY(6)=0 TH
EN 1010
940 IF INKEY(79)=0 THEN GOSUB 2090:
'efface
950 IF INKEY(69)=0 THEN aide=aide+1
:GOSUB 2290:GOSUB 1730:PEN 3:LOCATE
9,25:PRINT "Del=effacer":LOCATE 22
,25:PEN 2:PRINT "Enter pour valider
":'aide
960 IF INKEY(53)=0 THEN GOSUB 3030:
GOTO 1090:'Fin
970 IF q$="" THEN 900
980 IF q$<CHR$(48) OR q$>CHR$(57) T
HEN 900
990 IF pas>1 THEN pas=1:qq$=LEFT$(q
q$,1)
1000 LOCATE h+pas,2:PEN 2:PRINT Q$:
qq$=qq$+q$:q$="":pas=pas+1:GOTO 900
1010 n=n+1:qq$(n)=qq$
1020 qq$=""
1030 IF n=2 THEN 1040 ELSE pas=0:h=
28:q$="":FOR a=1 TO 500:NEXT:GOTO 8
90
1040 IF qq$(2)="" THEN som$=qq$(1)+
"00":GOTO 1070
1050 IF LEN(qq$(2))<2 THEN som$=qq$(
1)+"0"+qq$(2):GOTO 1070
1060 som$=qq$(1)+qq$(2)
1070 n=0:qq$(1)=""':qq$(2)=""
1080 IF sc(x)=VAL(som$) THEN GOSUB
2870 ELSE GOSUB 3210:'vrai ou fa
ux
1090 IF INKEY(38)<>0 AND INKEY(47)<
>0 THEN 1090
1100 IF INKEY(38)=0 THEN 270:'menu
niveaux
1110 CLS #1:GOTO 820:'suite
1120 '
1130 '
1140 '
1150 '
1160 ' RENDRE LA MONNAIE
1170 '
1180 '
1190 '
1200 '
1210 PEN 1:LOCATE 9,2:PRINT "Tu rec
ois":LOCATE 24,2:PRINT "pour payer"
:LOCATE 9,3:PEN 2:PRINT "Rends la m
onnaie.":LOCATE 9,24:PEN 3:PRINT "A=
aide":LOCATE 34,24:PRINT "F=fin":PE
N 2:LOCATE 9,25:PRINT CHR$(240)+CHR
$(241)+"=choix":PEN 1
1220 PLOT 624,16,3:DRAW 128,16,3

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1230 LOCATE 18,25:PRINT "Copy=pi}ce
":LOCATE 29,25:PEN 2:PRINT "Del=eff
acer
1240 PLOT 7,336+av,3:DRAW 7,288+av,
3:DRAW 25,312+av,3:DRAW 7,336+av,3
1250 ex=ex+1:x=INT(RND*5)+1
1260 PEN 3:LOCATE 19,2:PRINT maxi$(
x):LOCATE 35,2:PRINT pri$(x)
1270 GOSUB 1910:PAPER 0:PEN 1:BORDE
R 0
1280 GOTO 570:'affichage pieces
1290 IF somme=mon(x) THEN GOSUB 287
0 ELSE 3210:'vrai ou faux
1300 IF INKEY(38)<>0 AND INKEY(47)<
>0 THEN 1300
1310 IF INKEY(38)=0 THEN 270:'menu
niveaux
1320 CLS #1:GOTO 1210:'suite
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9950 '
9960 '
9970 '
9980 '
9990 '

```

```

ropose ...":FOR A=1 TO 1000:NEXT
1580 CLS:PLOT 100,300,3:DRAW 540,30
0,3:DRAW 540,100,3:DRAW 100,100,3:D
RAW 100,300,3:PEN 3:LOCATE 17,12:PR
INT "MONNAIE"
1590 GOSUB 1910:FOR a=1 TO 2000:NEX
T:RETURN
1600 'IF aide=1 THEN RETURN
1610 CLS:GOSUB 1900:PLOT 10,300,2:D
RAW 630,300,2:DRAW 630,100,2:DRAW 1
0,100,2:DRAW 10,300,2:PEN 1:LOCATE
6,10:PRINT "ETES-VOUS UN NOUVEAU JO
UEUR?":LOCATE 19,14:PRINT "(O/N)"
1620 GOSUB 1910
1630 IF INKEY(46)<>0 AND INKEY(34)<
>0 THEN 1630
1640 IF INKEY(46)=0 THEN RETURN ELS
E tot=0:ex=0:RETURN
1650 CLS:PEN 1:LOCATE 1,1:PRINT "Ce
programme propose 3 niveaux":LOCA
TE 6,3:PEN 2:PRINT "- Pi}ces jusqu'
a 1/2F.":LOCATE 11,4:PRINT "- Pi}ce
s jusqu'a 1F.":LOCATE 16,5:PRINT "-
Pi}ces jusqu'a 10F.
1660 PEN 1:LOCATE 1,7:PRINT "Chaque
niveau permet de":PEN 3:LOCATE 6,
9:PRINT "- Fabriquer une somme.":LO
CATE 11,10:PRINT "- Trouver une som
me.":LOCATE 14,11:PRINT "- Rendre 1
a monnaie.
1670 PEN 1:LOCATE 1,13:PRINT "A tou
t moment, il est possible de":PEN
2:LOCATE 6,15:PRINT "- Sortir d'un
exercice. (F)":LOCATE 9,16:PRINT "-
Demander de l'aide. (A)":LOCATE 12,1
7:PRINT "- Effacer une pi}ce. (DEL)"
1680 PEN 1:LOCATE 1,19:PRINT "Il es
t prudent de retenir que":PEN 3:LO
CATE 6,21:PRINT "-Les aides ne sont
pas illimit}es.":LOCATE 7,22:PRINT
"-Les erreurs viennent en d}ductio
n"
1690 GOSUB 1910
1700 PEN 2:LOCATE 17,25:PRINT "ESPA
CE":FOR a=1 TO 100:NEXT:LOCATE 17,2
5:PRINT "":FOR a=1 TO 100:NEX
T
1710 IF INKEY(47)<>0 THEN 1700 ELSE
CLS:GOTO 280:'niveaux
1720 IF essai=m1(x)+m2(x)+m3(x)+m4(
x)+m5(x) THEN 3000 :GOTO 1300 ELSE
2940
1730
1740 som$="" :pas=0:n=0:h=25:qq$(1)=
"" :qq$(2)="" :qq$(3)=""
1750 LOCATE 25,2:PRINT "":LOCATE
28,2:PRINT "":ff$=LEFT$(STR$(somm
e),LEN(STR$(somme))-2)

```



```

1760 IF ff$="" THEN LOCATE 28,2:PRI
NT somme:GOTO 1770 ELSE LOCATE 24,2
:PRINT ff$:LOCATE 28,2:PRINT RIGHT$
(STR$(somme),2)
1770 FOR aa=1 TO 10:LOCATE 24,2:PRI
NT LEFT$(STR$(somme),LEN(STR$(somme
))-2):LOCATE 28,2:PRINT RIGHT$(STR$
(somme),2):FOR a=1 TO 100:NEXT:LOCA
TE 24,2:PRINT " ":LOCATE 28,2:PRI
NT " ":FOR a=1 TO 100:NEXT:NEXT
1780 RETURN
1790 LOCATE 25,2:PRINT " ":LOCATE
28,2:PRINT " ":ff$=LEFT$(STR$(somm
e),LEN(STR$(somme))-2)
1800 IF ff$="" THEN LOCATE 28,2:PRI
NT somme:GOTO 1770 ELSE LOCATE 24,2
:PRINT ff$:LOCATE 28,2:PRINT RIGHT$
(STR$(somme),2)
1810 'choix exercices
1820 PLOT 1,1,2:DRAW 1,130,2:DRAW 3
20,130,2:DRAW 320,1,2:DRAW 1,1,2:PL
OT 160,132,3:DRAW 160,240,3:DRAW 48
0,240,3:DRAW 480,110,3:DRAW 322,110
,3:PLOT 320,241,1:DRAW 320,360,1:DR
AW 630,360,1:DRAW 630,220,1:DRAW 48
2,220,1
1830 PEN 1:LOCATE 30,5:PRINT "1":LO
CATE 23,8:PRINT "FAIRE UNE SOMME":P
EN 3:LOCATE 20,12:PRINT "2":LOCATE
13,15:PEN 3:PRINT "TROUVER UNE SOMM
E ":PEN 2:LOCATE 10,19:PRINT "3":LO
CATE 2,22:PRINT "RENDRE LA MONNAIE
1840 GOSUB 1910
1850 IF INKEY(64)<>0 AND INKEY(65)<
>0 AND INKEY(57)<>0 THEN .1850
1860 IF INKEY(64)=0 THEN ex1=1:ex2=
0:ex3=0:RETURN
1870 IF INKEY(65)=0 THEN ex2=1:ex1=
0:ex3=0:RETURN
1880 IF INKEY(57)=0 THEN ex3=1:ex1=
0:ex2=0:RETURN
1890 RETURN
1900 INK 0,0:INK 1,0:INK 2,0:INK 3,
0:RETURN
1910 INK 0,0:INK 1,13:INK 2,24:INK
3,6:RETURN
1920 IF n1(x)=0 THEN 1950
1930 IF p1$=f1$ OR p1$=c50$ THEN PE
N 1 ELSE PEN 2
1940 FOR qq=1 TO n1(x):LOCATE 36-av
1,4:av1=av1+5:PRINT p1$:NEXT qq:
1950 IF n2(x)=0 THEN 1980
1960 IF p2$=c50$ OR p2$=f5$ THEN PE
N 1 :H=35:V=8:ELSE PEN 2:H=36:V=8
1970 FOR qq=1 TO n2(x):LOCATE h-av2
,v:av2=av2+5:PRINT p2$:NEXT qq
1980 IF n3(x)=0 THEN 2010
1990 IF p3$=c20$ OR p3$=c10$ THEN P

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EN 2 ELSE PEN 1
2000 FOR qq=1 TO n3(x):LOCATE 36-av
3,13:av3=av3+5:PRINT p3$:NEXT qq
2010 IF n4(x)=0 THEN 2040
2020 IF p4$=c10$ OR p4$=c5$ THEN PE
N 2 ELSE PEN 1
2030 FOR qq=1 TO n4(x):LOCATE 36-av
4,18:av4=av4+5:PRINT p4$:NEXT qq
2040 IF n5(x)=0 THEN 2070
2050 IF p5$=c5$ THEN PEN 2 ELSE PEN
1
2060 FOR qq=1 TO n5(x):LOCATE 36-av
5,22:av5=av5+5:PRINT p5$:NEXT qq
2070 RETURN
2080 'efface
2090 IF qq$="" THEN RETURN
2100 LOCATE h+pas-1,2:PRINT " ":pas
=pas-1:qq$=LEFT$(qq$,LEN(qq$)-1)
2110 RETURN
2120 'choix niveaux
2130 PLOT 320,1,1:DRAW 320,400,1:PL
OT 1,200,1:DRAW 640,200,1:PLOT 1,39
9,1:DRAW 639,399,1:DRAW 639,1,1:DRA
W 1,1,1:DRAW 1,399,1
2140 PEN 2:PAPER 0:LOCATE 6,6:PRINT
"NIVEAU 1":LOCATE 26,6:PRINT "NIVE
AU 2":LOCATE 6,18:PRINT "NIVEAU 3":
PEN 3:LOCATE 23,18:PRINT "4 INFORMA
TIONS
2150 GOSUB 1910:PAPER 0:PEN 1:BORDE
R 0
2160 IF INKEY(64)<>0 AND INKEY(65)<
>0 AND INKEY(57)<>0 AND INKEY(56)<
>0 THEN 2160
2170 IF INKEY(64)=0 THEN NIVEAU=1:R
ETURN
2180 IF INKEY(65)=0 THEN niveau=2:R
ETURN
2190 IF INKEY(57)=0 THEN NIVEAU=3:R
ETURN
2200 IF INKEY(56)=0 THEN GOSUB 1900
:GOSUB 1650:RETURN:'informations
2210 '
2220 '
2230 '
2240 ' aide somme
2250 '
2260 '
2270 '
2280 '
2290 ai=ai+1:ESSAI=0:av1=0:av2=0:av
3=0:av4=0:av5=0:somme=0:CLS #2
2300 IF ex3=1 THEN n1(x)=m1(x):n2(x)
=m2(x):n3(x)=m3(x):n4(x)=m4(x):n5(x)
=m5(x)
2310 IF ex2=1 THEN 2330
2320 CLS #2:LOCATE 9,24:PEN 3:PRINT
"A=aide":LOCATE 34,24:PRINT "F=fin"

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:PLOT 624,16,3:DRAW 128,16,3:LOCATE
9,24
2330 IF n1(x)=0 THEN aide=aide+1:GO
TO 2360
2340 eff1=1:PEN 3:FOR qq=1 TO n1(x)
:LOCATE 36-av1,4:av1=av1+5:PRINT p1
$:NEXT qq:av1=30:somme =somme+n1(x)
*so1:essai=essai+n1(x)
2350 IF aide=1 THEN FOR a=1 TO 500:
NEXT:GOTO 2480
2360 IF n2(x)=0 THEN aide=aide+1:GO
TO 2400
2370 IF p2%=c50$ OR p2%=f5$ THEN PE
N 3 :H=35:V=8:ELSE PEN 3:H=36:V=8
2380 eff2=1:PEN 3:FOR qq=1 TO n2(x)
:LOCATE h-av2,v:av2=av2+5:PRINT p2$
:NEXT qq:av2=30:somme =somme+n2(x)*
so2:essai=essai+n2(x)
2390 IF aide=2 THEN FOR a=1 TO 500:
NEXT:GOTO 2480
2400 IF n3(x)=0 THEN aide=aide+1:GO
TO 2430
2410 eff3=1:PEN 3:FOR qq=1 TO n3(x)
:LOCATE 36-av3,13:av3=av3+5:PRINT p
3$:NEXT qq:av3=30:somme =somme+n3(x)
*so3:essai=essai+n3(x)
2420 IF aide=3 THEN FOR a=1 TO 500:
NEXT:GOTO 2480
2430 IF n4(x)=0 THEN aide=aide+1:GO
TO 2460
2440 eff4=1:PEN 3:FOR qq=1 TO n4(x)
:LOCATE 36-av4,18:av4=av4+5:PRINT p
4$:NEXT qq:av4=30:somme =somme+n4(x)
*so4:essai=essai+n4(x)
2450 IF aide=4 THEN FOR a=1 TO 500:
NEXT:GOTO 2480
2460 IF n5(x)=0 THEN aide=aide+1:GO
TO 2480
2470 eff5=1:PEN 3:FOR qq=1 TO n5(x)
:LOCATE 36-av5,22:av5=av5+5:PRINT p
5$:NEXT qq:av5=30:somme =somme+n5(x)
*so5:essai=essai+n5(x)
2480 IF essai <>n1(x)+n2(x)+n3(x)+n
4(x)+n5(x) THEN RETURN ELSE eff1=0:
eff2=0:eff3=0:eff4=0:eff5=0
2490 IF ex2=1 THEN LOCATE 24,2:PRIN
T LEFT$(STR$(somme),LEN(STR$(somme)
)-2):LOCATE 28,2:PRINT RIGHT$(STR$(
somme),2):
2500 FOR aa=1 TO 10:PEN 2:LOCATE 9,
25:PRINT "*** Ceci est la solution
***":FOR a=1 TO 100:NEXT:LOCATE 9
,25:PRINT effa$:FOR a=1 TO 100:NEXT
NEXT
2510 FOR a=1 TO 1000:NEXT:CLS #1:PL
OT 624,16,3:DRAW 128,16,3:PEN #1,2:
LOCATE #1,14,5:PRINT #1,"DESOLE !"
:PEN #1,3:LOCATE #1,7,12:PRINT #1,"

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Tu n'as pas trouv ":LOCATE #1,7,15:
PRINT #1,"malgr  ces aides...":FOR
a=1 TO 3000:NEXT:GOSUB 3030:'bilan
2520 IF ex1=1 THEN 690:'menu/suite
2530 IF ex2=1 THEN 1090:'menu/suite
2540 IF ex3=1 THEN 1300:'menu/suite
2550 p1%=c50$:p2%=c20$:p3%=c10$:p4$
=c50$:p5%=c10$:so1=50:so2=20:so3=10:s
o4=5:so5=1:ef1%=efc50$:ef2%=efc20$:
ef3%=efc10$:ef4%=efc50$:ef5%=efc10$:R
ETURN
2560 p1%=f10$:p2%=f50$:p3%=f20$:p4%=c
50$:p5%=c50$:so1=1000:so2=500:so3=20
0:so4=50:so5=5:ef1%=eff10$:ef2%=eff
50$:ef3%=eff20$:ef4%=efc50$:ef5%=efc5
$:RETURN
2570 p1%=f10$:p2%=c50$:p3%=c20$:p4$
=c10$:p5%=c50$:so1=100:so2=50:so3=20:
so4=10:so5=5:ef1%=eff10$:ef2%=efc50$
:ef3%=efc20$:ef4%=efc10$:ef5%=efc50$
:RETURN
2580
2590
2600
2610 creation caracteres
2620
2630
2640
2650 SYMBOL 255,&3,&F,&3F,&20,&6F,&
6F,&E0,&FF:SYMBOL 253,&C0,&F0,&FC,&
7E,&FE,&FF,&7F,&3F:SYMBOL 252,&FF,&
FF,&7E,&60,&7F,&3F,&F,&3:SYMBOL 251
,&B7,&2F,&6E,&F6,&FC,&FC,&F0,&C0
2660 SYMBOL 254,&3,&F,&3C,&38,&72,&
66,&FE,&FE:SYMBOL 250,&C0,&F0,&7C,&
7E,&7E,&7F,&7F,&7F:SYMBOL 249,&FE,&
FE,&7E,&7C,&7F,&3F,&F,&3:SYMBOL 248
,&67,&6F,&6E,&26,&FE,&FC,&F0,&C0
2670 SYMBOL 244,&0,&3,&7,&F,&1F,&3E
,&3C,&79:SYMBOL 239,&7F,&FF,&FF,&FF
,&FF,&FF,&FF,&7E:SYMBOL 235,&7F,&3F
,&3F,&1F,&F,&7,&1,&0:SYMBOL 245,&7E
,&FF,&FF,&FF,&1E,&1C,&9C,&99:SYMBOL
234,&99,&99,&99,&99,&99,&9C,&9C,&6
2680 SYMBOL 236,&FF,&FF,&E3,&CF,&CF
,&E2,&FF,&7E:SYMBOL 247,&0,&C0,&E0,
&F0,&38,&1C,&9C,&CE:SYMBOL 238,&CE,
&CF,&CF,&CF,&CF,&9F,&1F,&3E:SYMBOL
237,&FE,&FC,&FC,&F8,&F0,&E0,&C0,&0
2690 SYMBOL 233,0,0,1,7,15,31,30,60
:SYMBOL 232,124,124,126,255,255,255
,255,255:SYMBOL 231,255,255,254,252
,252,123,127,47:SYMBOL 230,63,31,15
,15,7,1:SYMBOL 229,31,255,255,255,2
55,3,1,121:SYMBOL 228,252,252,124,2
49,241,243,231,207
2700 SYMBOL 227,159,63,127,199,3,11
2,255,255:SYMBOL 226,153,119,113,11

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9,153,255,127,31:SYMBOL 225,248,255
,255,255,255,248,247,239:SYMBOL 224
,239,207,207,207,207,207,207,207:SY
MBOL 223,207,239,239,227,113,248,25
5,255
2710 SYMBOL 222,40,45,77,77,109,255
,254,248:SYMBOL 221,0,0,128,224,240
,120,56,156:SYMBOL 220,158,222,206,
207,207,207,207,207:SYMBOL 219,207,
207,159,159,63,126,254,252:SYMBOL 2
18,252,248,240,176,224,128
2720 SYMBOL 217,0,3,7,15,28,56,50,1
26:SYMBOL 216,126,254,254,254,254,2
55,255,127:SYMBOL 215,126,255,255,2
55,254,252,249,251:SYMBOL 214,242,2
30,239,207,159,191,62,126:SYMBOL 21
1,255,255,227,239,231,239,235,126
2730 SYMBOL 213,0,192,224,240,248,2
52,252,14:SYMBOL 212,110,239,207,15
9,191,63,127,14
2740 SYMBOL 210,0,0,1,3,7,15,31,63:
SYMBOL 209,63,127,127,127,255,255,2
55,255:SYMBOL 208,255,255,255,255,1
24,125,124,61:SYMBOL 207,31,127,255
,255,254,252,248,241:SYMBOL 206,227
,231,255,255,255,255,255,255:SYMBOL
205,255,255,255,255,70,214,206,214
2750 SYMBOL 204,255,255,255,255,255
,255,63,15:SYMBOL 203,248,254,255,6
3,63,63,63,63:SYMBOL 202,63,63,63,6
3,63,63,63,63:SYMBOL 201,255,255,25
5,255,37,165,41,169:SYMBOL 200,255,
255,255,255,255,255,254,240:SYMBOL
199,0,0,0,128,224,240,248,248
2760 SYMBOL 198,252,254,254,254,255
,255,255,255:SYMBOL 197,255,255,255
,255,30,126,126,28:SYMBOL 196,248,2
48,240,224,192
2770 SYMBOL 195,31,127,255,255,249,
241,225,193:SYMBOL 194,248,254,255,
255,195,129,153,24:SYMBOL 193,137,1
53,249,249,249,249,249,249:SYMBOL 1
92,60,60,60,60,24,153,129,195:SYMBOL
L 190,255,255,255,255,127,127,127,6
3
2780 SYMBOL 189,255,255,255,255,254
,254,254,252:SYMBOL 191,255,255,15,
127,127,31,127,127
2790 SYMBOL 185,1,15,63,255,255,255
,255,255:SYMBOL 184,0,0,0,0,1,3,7,1
5:SYMBOL 179,128,240,252,255,255,25
5,255,255:SYMBOL 178,0,0,0,0,128,19
2,224,240:SYMBOL 183,15,31,63,63,12
7,127,127,255:SYMBOL 188,28,1,35,63
,63,33,0,12
2800 SYMBOL 177,240,248,252,252,254
,254,254,255:SYMBOL 187,124,252,252
,252,124,25,129,231:SYMBOL 182,255,
127,127,127,60,29,28,13:SYMBOL 186,
255,255,255,255,16,115,124,16:SYMBOL
L 176,255,254,254,254,252,248,248,2
40
2810 SYMBOL 181,15,7,3,1:SYMBOL 180
,255,255,255,255,127,63,15,1:SYMBOL
174,255,255,255,255,254,252,240,12
8:SYMBOL 175,240,224,192,128
2820 SYMBOL 172,31,127,248,240,243,
243,255,255:SYMBOL 171,248,254,31,1
5,207,207,207,159:SYMBOL 170,255,25
5,254,252,248,241,240,240:SYMBOL 16
9,159,31,63,127,255,255,15,15:SYMBOL
L 173,255,255,255,255,38,110,118,36
2830 RETURN
2840 '
2850 '
2860 '
2870 FOR aa=1 TO 10:PEN 2:LOCATE 9,
25:PRINT b$:FOR a=1 TO 100:NEXT:LOC
ATE 9,25:PRINT effa$:FOR a=1 TO 100
:NEXT:NEXT
2880 '
2890 '
2900 IF ex3=1 THEN 1720:'bon/mau-
vais
2910 'FOR aa=1 TO 10:PEN 2:LOCATE 9
,25:PRINT b$:FOR a=1 TO 100:NEXT:LO
CATE 9,25:PRINT effa$:FOR a=1 TO 10
0:NEXT:NEXT
2920 IF ex2=1 THEN 3010
2930 IF essai=n1(x)+n2(x)+n3(x)+n4(
x)+n5(x) THEN 3000
2940 CLS #2:PLOT 624,16,3:DRAW 128,
16,3:PAPER #2,0:LOCATE #2,4,4:PEN #
2,3:PRINT #2,"Cependant, tu n'as pas
":LOCATE #2,3,7:PRINT #2,"trouve l
a solution la plus":LOCATE #2,13,10
:PRINT #2,"courte."
2950 PEN #2,2:LOCATE #2,3,15:PRINT
#2,"DESIREZ-TU ESSAYER? (O/N)"
2960 IF INKEY(34)<>0 AND INKEY(46)<
>0 THEN 2950
2970 IF INKEY(46)=0 THEN 3020 ELSE
CLS #2:PLOT 7,336-av,0:DRAW 7,288-a
v,0:DRAW 25,312-av,0:DRAW 7,336-av,
0:av=0:PLOT 7,336-av,3:DRAW 7,288-a
v,3:DRAW 25,312-av,3:DRAW 7,336-av,
3:ESSAI=0:av1=0:av2=0:av3=0:av4=0:a
v5=0:somme=0:aide=0
2980 LOCATE 9,24:PEN 3:PRINT"A=aide
":LOCATE 34,24:PRINT"F=fin":PEN 2
:LOCATE 9,25:PRINT CHR$(240)+CHR$(2
41)+"="choix":PEN 1:LOCATE 18,25:PRI
NT "Copy=pi)ce":LOCATE 29,25:PEN 2:
PRINT "Del=efface":PLOT 624,16,3:DR
AW 128,16,3:GOTO 570:'nouvel essai
2990 'IF ex3=1 THEN 530:'retour es-

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sai
3000 PAPER 0:CLS #1:PLOT 624,16,3:D
RAW 128,16,3:PEN #1,2:LOCATE #1,15,
6:PRINT #1,"BRAVO !":PEN #1,1:LOCAT
E #1,4,10:PRINT #1,"Tu as trouv  la
meilleure":LOCATE #1,14,12:PRINT #
1,"solution.":FOR a=1 TO 2000:NEXT
3010 bien=bien+5:GOTO 3030
3020 bien=bien+3
3030 CLS #1:LOCATE #1,15,2:PEN #1,2
:PRINT #1,"BILAN"
3040 PLOT 624,16,3:DRAW 128,16,3:LO
DATE 9,25:PRINT effa$
3050 PEN #1,1:LOCATE #1,3,5:PRINT #
1,"Exercice num ro":LOCATE #1,3,7:P
RINT #1,"Nombre d'erreurs":LOCATE
#1,3,9:PRINT #1,"Nombre d'aides":L
OCATE #1,3,11:PRINT #1,"SCORE, pour
cet exercice":PEN #1,2:LOCATE #1,
15,15:PRINT #1,"TOTAL:"
3060 sc=bien-(er+ai):IF sc<0 THEN s
c=0
3070 sc$=STR$(sc):tot=tot+sc:PEN #1
,3:LOCATE #1,20,5:PRINT #1,ex:LOCAT
E #1,21,7:PRINT #1,er:LOCATE #1,19,
9:PRINT #1,ai:LOCATE #1,29,11:PRINT
#1,sc$:LOCATE #1,22,15:PRINT #1,to
t
3080 PEN #1,1:LOCATE #1,8,19:PRINT
#1,"ESPACE ==> Suite":LOCATE #1,8,2
1:PRINT #1,"M ==> Menu"
3090 PLOT 7,336-av,0:DRAW 7,288-av,
0:DRAW 25,312-av,0:DRAW 7,336-av,0:
av=0:aide=0
3100 er=0:ai=0:bien=0:sc=0:ESSAI=0:
av1=0:av2=0:av3=0:av4=0:av5=0:somme
=0:eff1=0:eff2=0:eff3=0:eff4=0:eff5
=0
3110 som$="":pas=0:
3120 RETURN
3130 '
3140 '
3150 '
3160 '
3170 '      mauvaise reponse
3180 '
3190 '
3200 '
3210 FOR aa=1 TO 10:PEN 2:LOCATE 9,
25:PRINT "*** ERREUR, essaie encore
. ***":FOR a=1 TO 100:NEXT:LOCATE 9
,25:PRINT effa$:FOR a=1 TO 100:NEXT
:NEXT
3220 IF ex1=1 OR ex3=1 THEN PEN 2:L
OCATE 9,25:PRINT CHR$(240)+CHR$(241
)+$="choix":PEN 1:LOCATE 18,25:PRINT
"Copy=pi)ce":LOCATE 29,25:PEN 2:PR
INT "Del=effacer
3230 IF ex2=1 THEN som$="":pas=0:er
=er+1:LOCATE 25,2:PRINT " ":LOCATE
28,2:h=25:PRINT " ":LOCATE 9,25:P
EN 3:PRINT "Del=effacer":LOCATE 22,
25:PEN 2:PRINT "Enter pour valider"
:GOTO 890:nouvel essai
3240 IF ex1=1 OR ex3=1 THEN er=er+1
:GOTO 570:nouvel essai
3250 '
3260 '
3270 '
3280 '
3290 '      affichage pieces
3300 '
3310 '
3320 '
3330 IF av=0 THEN 3380
3340 IF av=64 THEN 3450
3350 IF av=128 THEN 3520
3360 IF av=192 THEN 3590
3370 IF av=256 THEN 3660
3380 IF p1$=f1$ OR p1$=c50$ THEN PE
N 1 ELSE PEN 2
3390 IF eff=1 THEN 3420
3400 IF av1=30 THEN ESSAI=ESSAI-1:R
ETURN
3410 LOCATE 36-av1,4:PRINT p1$:somm
e=somme+so1:av1=av1+5:FOR a=1 TO 20
0:NEXT: RETURN
3420 IF av1=0 THEN eff=0:ESSAI=ESSA
I+1:RETURN
3430 IF eff1<>0 THEN eff=0:essai=es
sai+1:RETURN
3440 av1=av1-5:LOCATE 36-av1,4:PAPE
R 0:PRINT ef1$:somme=somme-so1:eff=
0:FOR a=1 TO 200:NEXT: RETURN
3450 IF p2$=c50$ OR p2$=f5$ THEN PE
N 1 :H=35:V=8:ELSE PEN 2:H=36:V=8
3460 IF eff=1 THEN 3490
3470 IF av2=30 THEN ESSAI=ESSAI-1:R
ETURN
3480 LOCATE H-av2,V:PRINT p2$:somme
=somme+so2:av2=av2+5:FOR a=1 TO 200
:NEXT: RETURN
3490 IF av2=0 THEN eff=0:ESSAI=ESSA
I+1:RETURN
3500 IF eff2<>0 THEN eff=0:essai=es
sai+1:RETURN
3510 av2=av2-5:LOCATE H-av2,V:PAPER
0:PRINT ef2$:somme=somme-so2:eff=0
:FOR a=1 TO 200:NEXT: RETURN
3520 IF p3$=c20$ OR p3$=c10$ THEN P
EN 2 ELSE PEN 1
3530 IF eff=1 THEN 3560
3540 IF av3=30 THEN ESSAI=ESSAI-1:R
ETURN
3550 LOCATE 36-av3,13:PRINT p3$:som
me=somme+so3:av3=av3+5:FOR a=1 TO 2

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00:NEXT: RETURN
3560 IF av3=0 THEN eff=0:ESSAI=ESSA
I+1:RETURN
3570 IF eff3<>0 THEN eff=0:essai=es
sai+1:RETURN
3580 av3=av3-5:LOCATE 36-av3,13:PAP
ER 0:PRINT ef3$:somme=somme-so3:ef
f=0:FOR a=1 TO 200:NEXT: RETURN
3590 IF p4#=c10$ OR p4#=c5$ THEN PE
N 2 ELSE PEN 1
3600 IF eff=1 THEN 3630
3610 IF av4=30 THEN ESSAI=ESSAI-1:R
ETURN
3620 LOCATE 37-av4,18:PRINT p4$:som
me=somme+so4:av4=av4+5:FOR a=1 TO 2
00:NEXT: RETURN
3630 IF av4=0 THEN eff=0:ESSAI=ESSA
I+1:RETURN
3640 IF eff4<>0 THEN eff=0:essai=es
sai+1:RETURN
3650 av4=av4-5:LOCATE 37-av4,18:PAP
ER 0:PRINT ef4$:somme=somme-so4:eff
=0:FOR a=1 TO 300:NEXT: RETURN
3660 IF p5#=c5$ THEN PEN 2 ELSE PEN
1
3670 IF eff=1 THEN 3700
3680 IF av5=30 THEN ESSAI=ESSAI-1:R
ETURN
3690 LOCATE 37-av5,22:PRINT p5$:som
me=somme+so5:av5=av5+5:FOR a=1 TO 2
00:NEXT: RETURN
3700 IF av5=0 THEN eff=0:ESSAI=ESSA
I+1:RETURN
3710 IF eff5<>0 THEN eff=0:essai=es
sai+1:RETURN
3720 av5=av5-5:LOCATE 37-av5,22:PAP
ER 0:PRINT ef5$:somme=somme-so5:eff
=0:FOR a=1 TO 300:NEXT: RETURN
3730 '
3740 '
3750 '
3760 '
3770 '      choix pieces bas
3780 '
3790 '
3800 '
3810 '
3820 PLOT 7,336-av,0:DRAW 7,288-av,
0:DRAW 25,312-av,0:DRAW 7,336-av,0
3830 av=av+64
3840 IF av=320 THEN av=0
3850 PLOT 7,336-av,3:DRAW 7,288-av,
3:DRAW 25,312-av,3:DRAW 7,336-av,3
3860 FOR a=1 TO 200:NEXT
3870 RETURN
3880 '
3890 '
3900 '
3910 '
3920 '      choix pieces haut
3930 '
3940 '
3950 '
3960 '
3970 PLOT 7,336-av,0:DRAW 7,288-av,
0:DRAW 25,312-av,0:DRAW 7,336-av,0
3980 av=av-64
3990 IF av<0 THEN av=256
4000 PLOT 7,336-av,3:DRAW 7,288-av,
3:DRAW 25,312-av,3:DRAW 7,336-av,3
4010 FOR a=1 TO 200:NEXT:RETURN
4020 '
4030 '
4040 '
4050 '
4060 '      le cadre
4070 '
4080 '
4090 '
4100 '
4110 PLOT 1,368,3:DRAW 1,1,3:DRAW 1
12,1,3:DRAW 112,368,3:DRAW 1,368,3:
DRAW 32,399,3:DRAW 639,399,3:DRAW 6
24,384,3:DRAW 16,384,3:PLOT 639,399
,3:DRAW 639,32,3:DRAW 627,16,3:DRAW
627,384,3
4120 PLOT 624,16,3:DRAW 128,16,3:DR
AW 112,1,3:PLOT 125,16,3:DRAW 125,3
84,3:DRAW 112,368,3
4130 MOVE 5,370:FILL 2:MOVE 115,200
:FILL 2:MOVE 35,390:FILL 1:MOVE 635
,200:FILL 1
4140 RETURN
4150 '
4160 '
4170 '
4180 '
4190 '      creation pieces
4200 '
4210 '
4220 '
4230 '
4240 c5$=CHR$(255)+CHR$(253)+CHR$(
10)+CHR$(8)+CHR$(8)+CHR$(252)+CHR$(
251)
4250 efc5$=CHR$(32)+CHR$(32)+CHR$(
10)+CHR$(8)+CHR$(8)+CHR$(32)+CHR$(3
2)
4260 c1$=CHR$(254)+CHR$(250)+CHR$(
10)+CHR$(8)+CHR$(8)+CHR$(249)+CHR$(
248)
4270 efc1$=CHR$(32)+CHR$(32)+CHR$(
10)+CHR$(8)+CHR$(8)+CHR$(32)+CHR$(3
2)
4280 c10$=CHR$(244)+CHR$(245)+CHR$(
247)+CHR$(10)+CHR$(8)+CHR$(8)+CHR$(

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8)+CHR\$(239)+CHR\$(234)+CHR\$(238)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(235)+CHR\$(236)+CHR\$(237)
 4290 efc10\$=CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)
 4300 c18\$=CHR\$(233)+CHR\$(229)+CHR\$(225)+CHR\$(221)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(232)+CHR\$(228)+CHR\$(224)+CHR\$(220)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(231)+CHR\$(227)+CHR\$(223)+CHR\$(219)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)
 4310 efc18\$=CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)
 4320 c19\$=CHR\$(230)+CHR\$(226)+CHR\$(222)+CHR\$(218)
 4330 efc19\$=CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)
 4340 c20\$=c18\$+c19\$
 4350 efc20\$=efc18\$+efc19\$
 4360 c50\$=CHR\$(217)+CHR\$(215)+CHR\$(213)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(216)+CHR\$(214)+CHR\$(212)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(235)+CHR\$(211)+CHR\$(237)
 4370 efc50\$=CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)
 4380 c98\$=CHR\$(210)+CHR\$(207)+CHR\$(203)+CHR\$(199)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(209)+CHR\$(206)+CHR\$(202)+CHR\$(198)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(208)+CHR\$(205)+CHR\$(201)+CHR\$(197)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)
 4390 c99\$=CHR\$(230)+CHR\$(204)+CHR\$(200)+CHR\$(196)
 4400 efc98\$=CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)
 4410 efc99\$=CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)

4420 F1\$=c98\$+c99\$
 4430 efcF1\$=efc98\$+efc99\$
 4440 F8\$=CHR\$(210)+CHR\$(195)+CHR\$(194)+CHR\$(199)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(209)+CHR\$(193)+CHR\$(192)+CHR\$(198)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(190)+CHR\$(143)+CHR\$(191)+CHR\$(189)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)
 4450 F9\$=CHR\$(230)+CHR\$(204)+CHR\$(200)+CHR\$(196)
 4460 efcF8\$=CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)
 4470 efcF9\$=CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)
 4480 F10\$=F8\$+F9\$
 4490 efcF10\$=efcF8\$+efcF9\$
 4500 F3\$=CHR\$(184)+CHR\$(185)+CHR\$(143)+CHR\$(179)+CHR\$(178)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(183)+CHR\$(143)+CHR\$(188)+CHR\$(143)+CHR\$(177)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(143)+CHR\$(143)+CHR\$(187)+CHR\$(143)
 4510 efcF3\$=CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)
 4520 F4\$=CHR\$(143)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(182)+CHR\$(205)+CHR\$(201)+CHR\$(186)+CHR\$(176)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(181)+CHR\$(180)+CHR\$(143)+CHR\$(174)+CHR\$(175)
 4530 efcF4\$=CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(32)+CHR\$(32)+CHR\$(32)+CHR\$(32)
 4540 F5\$=F3\$+F4\$
 4550 efcF5\$=efcF3\$+efcF4\$
 4560 f150\$=CHR\$(210)+CHR\$(172)+CHR\$(171)+CHR\$(199)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(209)+CHR\$(170)+CHR\$(169)+CHR\$(198)+CHR\$(10)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)+CHR\$(8)


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R$(208)+CHR$(205)+CHR$(201)+CHR$(17
3)+CHR$(10)+CHR$(8)+CHR$(8)+CHR$(8)
+CHR$(8)
4570 eF150$=CHR$(32)+CHR$(32)+CHR$(
32)+CHR$(32)+CHR$(10)+CHR$(8)+CHR$(
8)+CHR$(8)+CHR$(8)+CHR$(32)+CHR$(3
2)+CHR$(32)+CHR$(32)+CHR$(10)+CHR$(
8)+CHR$(8)+CHR$(8)+CHR$(8)+CHR$(32)
+CHR$(32)+CHR$(32)+CHR$(32)+CHR$(10
)+CHR$(8)+CHR$(8)+CHR$(8)+CHR$(8)
4580 F2$=F150$+c99$
4590 eF2$=eF150$+efc99$
4600 effa$="
```

```
" :b$="***** TRES BIEN **
*****"
```

```
4610 RETURN
4620 DATA 0f80,80,1,1,1,0,0,1F,60c,
40,0,2,0,0,0,35c,35,0,1,1,1,0,2F,1F
05,95,1,2,0,1,0,0f90,90,1,2,0,0,1
F,50c,50,1,0,0,0,0,68c,68,1,0,1,1,3
,2F,1F12,88,1,1,1,1,3,42c,42,0,2,0,
0,2,1F,25c,75,1,1,0,1,0
4630 DATA 25c,25,0,1,0,1,0,1F,40c,6
0,1,0,1,0,0,1F15,115,2,0,1,1,0,1F,7
5c,25,0,1,0,1,0,95c,95,1,2,0,1,0,1F
,80c,20,0,1,0,0,0,0F70,70,1,1,0,0,0
,1F,0F55,45,0,2,0,1,0,1F25,125,2,1,
0,1,0,1F,0F10,90,1,2,0,0,0
4640 DATA 0F45,45,0,2,0,1,0,1F,0F2B
,72,1,1,0,0,2,93c,93,1,2,0,0,3,2F,0
F95,105,2,0,0,1,0,2F49,249,4,2,0,1,
4,1F,70c,30,0,1,1,0,0,3F18,318,6,0,
1,1,3,2F,85c,115,2,0,1,1,0,44c,44,0
,2,0,0,4,1F,20c,80,1,1,1,0,0
4650 DATA 1F25,125,2,1,0,1,0,1F,5c,
95,1,2,0,1,0,0F15,15,0,0,1,1,0,1F,0
F15,85,1,1,1,1,0,0F65,65,1,0,1,1,0,
2F,0F65,135,2,1,1,1,0,2F,200,4,0,0,
0,0,2F,0F75,125,2,1,0,1,0,1F50,150,
3,0,0,0,0,2F,0F80,120,2,1,0,0,0
4660 DATA 39c,39,0,1,1,1,4,1F,0F92,
8,0,0,0,1,3,0F28,28,0,1,0,1,3,1F,0F
37,63,1,0,1,0,3,2F80,280,5,1,1,0,0,
2F,0F30,170,3,1,0,0,0,1F60,160,3,0,
1,0,0,1F,0F71,29,0,1,0,1,4,2F36,236
,4,1,1,1,1,2F,1F10,90,1,2,0,0,0
4670 DATA 2F50,250,2,1,0,0,0,2F,0F7
5,125,1,0,1,0,1,4F30,430,4,0,1,1,0,
5F,3F15,185,1,1,1,1,1,0F85,85,0,1,1,
1,1,1,10F,4F50,550,5,1,0,0,0,6F65,66
5,6,1,0,1,1,5F,3F80,120,1,0,1,0,0,1
F95,195,1,1,2,0,1,10F,2F10,790,6,3,
2,0,0
```

```
4680 DATA 2F55,255,2,1,0,0,1,5F,1F5
0,350,3,1,0,0,0,4F80,480,4,1,1,1,0,
10F,7F05,295,2,1,2,0,1,5F75,575,5,1
,1,0,1,10F,6F10,390,3,1,2,0,0,3F10,
310,3,0,0,1,0,5F,2F35,265,2,1,0,1,1
```

```
,7F05,705,6,2,0,0,1,10F,8F20,180,1,
1,1,1,0
4690 DATA 6F,600,6,0,0,0,0,10F,5F40
,460,4,1,0,1,0,1F15,115,1,0,0,1,1,5
F,1F25,375,3,1,1,0,1,5F85,585,5,1,1
,1,1,10F,8F45,155,1,1,0,0,1,4F20,42
0,4,0,1,0,0,10F,7F50,250,2,1,0,0,0,
8F,800,6,4,0,0,0,10F,2F90,710,6,2,0
,1,0
4700 DATA 3F45,345,3,0,2,0,1,5F,1F3
5,365,3,1,0,1,1,8F60,860,6,5,0,1,0,
10F,4F10,590,5,1,2,0,0,7F70,770,6,3
,1,0,0,10F,3F85,615,6,0,0,1,1,6F35,
635,6,0,1,1,1,10F,2F40,760,6,3,0,1,
0,5F10,510,5,0,0,1,0,5F,0F80,420,4,
0,1,0,0
4710 DATA 4F30,430,4,0,1,1,0,10F,6F
75,325,3,0,1,0,1,9F15,915,6,6,0,1,1
,5F,90c,410,4,0,0,1,0,3F25,325,3,0,
1,0,1,5F,1F10,390,3,1,2,0,0,1F75,17
5,1,1,1,0,1,10F,8F10,190,1,1,2,0,0,
6F95,695,6,1,2,0,1,10F,7F75,225,2,0
,1,0,1
4720 DATA 27F60,2760,2,1,1,1,2,50F,
13F45,3655,3,1,0,3,1,13F70,1370,1,0
,1,3,4,100F,30F,7000,6,2,0,0,0,55F5
5,5555,5,1,0,1,1,50F,14F80,3520,3,1
,0,0,4,36F50,3650,3,1,0,3,0,100F,67
F25,3275,3,0,1,1,5,19F25,1925,1,1,2
,0,5,50F,11F40,3860,3,1,1,3,2
4730 DATA 39F,3900,3,1,2,0,0,100F,6
0F,4000,4,0,0,0,0,70F50,7050,6,2,0,
1,0,50F,10F30,3970,3,1,2,1,4,28F60,
2860,2,1,1,3,2,50F,41F20,880,0,1,1,
3,6,14F15,1415,1,0,2,0,3,100F,75F,2
500,2,1,0,0,0,32F05,3205,3,0,1,0,1,
100F,72F,2800,2,1,1,2,0
4740 DATA 27F65,2765,2,1,1,1,3,50F,
18F,3200,3,0,1,0,0,31F25,3125,3,0,0
,2,5,100F,93F,700,0,1,1,0,0,54F,540
0,5,0,2,0,0,50F,20F80,2920,2,1,2,0,
4,63F50,6350,6,0,1,3,0,100F,39F90,6
010,6,0,0,0,2,15F60,1560,1,1,0,1,2,
50F,36F20,1380,1,0,1,3,6
4750 DATA 43F,4300,4,0,1,2,0,100F,3
5F,6500,6,1,0,0,0,82F,8200,6,4,1,0,
0,100F,28F95,7105,6,2,0,2,1,38F50,3
850,3,1,1,3,0,50F,10F85,3915,3,1,2,
0,3,41F60,4160,4,0,0,3,2,100F,83F20
,1680,1,1,0,3,6,64F55,6455,6,0,2,1,
1,50F,11F,3900,3,1,2,0,0
4760 DATA 77F80,7780,6,3,1,1,6,100F
,88F35,1165,1,0,0,3,3,48F25,4825,4,
1,1,2,5,50F,48F70,130,0,0,0,2,6,96F
,9600,6,6,3,0,0,100F,4F,9600,6,6,3,
0,0,51F80,5180,5,0,0,3,6,50F,17F90,
3210,3,0,1,0,2,100F,10000,6,6,5,0,0
,100F,33F,6700,6,1,1,0,0
```