

DAInamic V.Z.W.

Heide 4

3171 WESTMEERBEEK

016/698623

SFGT

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THE PROGRAMS ON TAPE

0 SFGT MANUAL LOADER
1 SFGT MANUAL 300-B73
0 SFGT MANUAL
0 SFGT DEMO LOADER
1 SFGT DEMO 300-B73
0 SFGT DEMO
0 SFGT CREATOR LOADER
1 SFGT CREATOR 300-B73
0 SFGT CREATOR CENTER SETTING
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0 SFGT TRANSLATOR
0 " II
1 SFGT pictures + SHADOWS 300-183F

GENERAL INFORMATION

SFGT is a machine-language program, offering the use of text, symbols and graphic characters in all graphic modes at a very high speed. SFGT is located in RAM from HEX 300 to END of tables. END of tables is depending on the number of tables that are being used. After creation of new tables, addresses for saving are given. If the option of different tables is not necessary, e.g. if only one table is being used, SFGT is located from 300-B73.

USE

Afer definition of the different parameters, SFGT-calls are executed with :

```
CALLM 800, XXX$
```

XXX\$ can be a name of a string, or an element of string-array.

PARAMETERS

Parameters are located from 768 (decimal) up to 791 (decimal).

Horiz position 768

```
for M        -4 :
POKE 768 , POS
POKE 769 , 0
for MODE 5-6 :
POKE 768 , POS MOD 256
POKE 769 , POS / 256
```

```
POKE 768 + 769 GEVEN
HORIZONTALA POSITIE
U/O STRING AAN
MAX:  MODE 1 + 2 = 72
      MODE 3 + 4 = 160
      MODE 5 + 6 = 336
IN MODE 1-4 D.M.U.
POKE 768, POS.
POKE 769, 0
IN MODE 5-6 D.M.U.
POKE 768, POS. MOD 256
POKE 769, POS. / 256
DRUK OP EEN TOETS
```

```
POKE 768, 21
POKE 769 = 0 (MODE 4)
```

Vertical position 770

POKE 770 , POS

```
POKE 770 GEEFT DE
VERTIKALE POSITIE
MAX:  MODE 1 - 2 = 65
      MODE 1A - 2A = 52
      MODE 5 - 6 = 255
      MODE 5A - 6A = 211
TE VERMINDEREN MET
DE MATRIXHOOGTE
DRUK OP EEN TOETS
```

Horizontal step / character 771

STEP = 0 - 255
Normal STEP = 8
POKE 771,STEP



Vertical step / character 772

STEP = 0 - 255
0 = horizontal
9 = vertical



POKE772,0

POKE772,2

POKE772,7

Horizontal step on "OFF SCREEN" 773 (TABSTP)

STEP = 0 - 255
normal STEP = 8
gives horizontal "linefeed"



normal conditions : POKE 781 , 0
 POKE 782 , 9

Defines how many DATA you want to display from the table, and
 where to begin...

```

DIT IS EEN DEMO
VOOR HORIZONTALE
BEGREINZING . . . . .
POKE 775 = 10 . . . .
POKE 776 = 0 . . . .
POKE 778 = 138 . . . .
POKE 779 = 0 . . . .
10 138

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```

```

                                129
    THO THO THO THO THO THO
    ROC ROC ROC ROC ROC
    EFX EFX EFX EFX EFX
    GZHZ GZHZ GZHZ GZHZ
    N N N N N N
    N N N N N N
    129 129 129 129 129
    12 12 12 12 12
DRUK UP-DOWN OF A-0
    
```

```

POKE 781 EN 782 IS
HET MATRIX BEGIN EN
HET MATRIX EINDE
NORMAAL : POKE 781 = 0
          POKE 782 = 9

DE BIJGEGEFEN DEMO

781=0.    782=4.

TGHU!NBUSJY!EFNP
SFGT MATRIX DEMO

781=0.    782=18

VAGH!LWVLLWVLLWVLLW
UHIV"OCVTKZ"FG00
TCHUINRIIS IYIFENP

781=12    782=18
    
```

String definition (MID\$) (STRING LENGHT) 783 - 784 (STRBEG - STRLEN)

No need to use the MID\$ function from BASIC, you can define which part of the STRING has to be displayed with these two POKES.

POKE 783 , BEGIN
POKE 784 , LENGHT (if = 0 then LENGHT = LEN(STRING))

```
POKE 783 EN 784 IS  
HET STRINGBEGIN EN  
DE STRINGLENGTE  
ALS 784 = 0 DAN HEEFT  
DE STRING ZIJN  
VOLLEDIGE LENGTE
```

COMBINED DISPLAY-functions (785) (VARPOK)

before POKE into 785, calculate the values of the difference parameters as given :

0 : display right - up
1 : display left - up
2 : display right - down
3 : display left - down
+4 : retain horizontal position
+8 : retain vertical position
+16 : upside - down
+64 : high speed
+128 : INKEY-flag : result of inkey is located in the string

```
POKE 785 BEVAT DE  
SCHRIJFFUNCTIES  
0 : RECHTS/OP  
1 : LINKS/OP  
2 : RECHTS/NEER  
3 : LINKS/NEER  
4 : BEHOUD HOR. POS  
8 : BEHOUD VER. POS  
16 : ONDERSTE BOVEN  
64 : HOGE SNELHEID
```

DRUK OP EEN TOETS

```
UB : U WILT LINKS/OP  
+ BEHOUD HOR. POS  
+ HOGE SNELHEID DUS  
POKE 785 = 1+4+64=69  
UB : U WILT RECHTS/OP  
+ BEHOUD HOR. POS  
+ BEHOUD VER. POS. DUS  
POKE 785 = 0+4+8=12
```

DRUK OP EEN TOETS

```
0-3 TEST ZINFLAG 0-  
G 0-3 TEST ZINFLAG  
LAG 0-3 TEST ZINFLA  
NFLAG 0-3 TEST ZINF  
ZINFLAG 0-3 TEST ZI  
T ZINFLAG 0-3 TEST  
EST ZINFLAG 0-3 TES  
TEST ZINFLAG 0-3 T  
TEST ZINFLAG 0-3 T  
3 TEST ZINFLAG 0-3
```

POKE 785 = 0.

DRUK OP EEN TOETS

```
EEKEFGC IE IE21 0  
EFGC IE IE21 OWK  
GC IE IE21 OWKEEB  
IE IE21 OWKEEBEF  
E IE21 OWKEEBEFGC  
IE21 OWKEEBEFGC I  
21 OWKEEBEFGC IE  
OWKEEBEFGC IE IE  
WKEEBEFGC IE IE21
```

POKE 785 = 16

```

0 GALFNIZ TSET 3-0
GALFNIZ TSET 3-0 GA
LFNIZ TSET 3-0 GALF
NIZ TSET 3-0 GALFNI
Z TSET 3-0 GALFNIZ
TSET 3-0 GALFNIZ TS
ET 3-0 GALFNIZ TSET
3-0 GALFNIZ TSET 3
-0 GALFNIZ TSET 3-

```

POKE 785 = 1.

**VOOR DE INKEYSTRING
MOET POKE 785 >=128**

U ROEPT DEZELFDE ROU
TINE CALLM800, . \$ AAN
EN NU KUNT U EEN
WOORD INTYPEN . ALLE
MOGELIJKHEDEN ZOALS
LENSTRING -MIDSTRING
BLIJVEN BEHOUDEN.

**UB :A\$ = DAINAMIC
783=2 : 784= 5**

U KUNT NU 5 LETTERS
INTYPEN OP INAMI

DRUK OP EEN TOETS

Foreground and background colours (786) (COLORS)

in 16 color modes : foreground & background color
e.g. : HEX A5 = orange characters on green background.
in 4 color modes : number of COLORG
e.g. : HEX 23 = color 2 on color 3

**POKE 786 GEEFT DE
KLEUR VAN DE STRING
EERST DE FRONTKLEUR
EN DAN DE BACKGROUND**

**MAX: 4-COLOR #00/#33
16-COLOR #00/#FF**

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Delay (787) (DELAYT)

Gives delay / character.
e.g. POKE 787,20

ANIMATION TECHNIQUES (788 - 789) (DUBBEL - DUBSTP)

gives possibility of animation.

788 : number of characters / image
789 : horstap / character
771 : horstap / image

```
788 EN 789 GEVEN DE  
MOGELIJKHEID VAN  
ANIMATIE ZONDER FLIK  
KEREND BEELD  
788 GEEFT HET AANTAL  
KARAKTERS PER BEELD  
(0=GEEN ANIMATIE )  
789 GEEFT DE HORSTAP  
PER KARAKTER
```

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```
1E BEELD DAN DELAY  
2E BEELD OP ZELFDE  
POSITIE+3E BEELD OP  
NIEUWE POSITIE ENZ.
```

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Table choice (790) (TABKEU)

POKE 790, 0 - 9 (0 is standard)

```
POKE 790 GEEFT DE  
TABELKEUZE  
AANGEZIEN DE ANDERE  
TABELLEN NOG NIET  
GECREERD ZIJN IS ER  
GEEN DEMO VOORZIEN  
STANDAARDTABEL = 0  
MAX : 0 TOT 9
```

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HIGH-RES (791)

POKE 791 gives the number of characters to be combined to form one character.

first NIBBLE gives number of vertical characters
second NIBBLE gives number of horizontal characters.

```
POKE 791 GEEFT HET  
AANTAL MATRIXEN DIE  
SAMEN EEN KARAKTER  
VORMEN. HET EERSTE  
GETAL GEEFT AANTAL  
MATRIXEN VERTIKAAL  
HET TWEEDE GETAL  
IS HET TOTAAL AANTAL  
(MIN. #11 MAX. #AA)  
#11=1 HOOG 1/1 BREED  
#24=2 HOOG 4/2 BREED  
#15=1 HOOG 5/1 BREED
```

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SFGT TABLE - CREATOR

- 1/ Creation of new character
 - a: input symbol/character with :
 - alpha-key (from keyboard) or
 - ASCII-value (32 TO 122)
- 2/ Edit or copy character
 - a: input symbol (from keyboard or ASCII-value)
 - b: space
 - C: input value of copy-character
- 3/ List Matrix
 - a: LIST
 - b: car ret
- 4/ Change Table
 - a: car ret
 - b: give symbol +copy-table + car ret
- 5/ End
 - a: input symbol-character
 - b: car ret
- 6/ letter A-I : line-choice (also with cursor up/down)
number 1-8 : column
- 7/ special Edit-commands
 - S : image
 - K : inverse color
 - O : upside-down
 - W : clear screen
 - L : list matrix-contents
 - ? : list menu & commands
 - CR: dump matrix in memory
 - SHIFT + cursor up/down/left/right :
move character 1 dot

SFGT TABLE-CREATOR

Type LOAD : RUN (Table-Creator is saved with Bootstrap Loader)

After 2 pages of information:

- Geef symbol-Table en eventueel copy-Table (00 tot 99) -
- Give symbol-Table and possible copy-Table (00 - 99) -

In the standard Table-Creator program, Table 0 is write-protected, so we can not enter 0 .

Enter the number of the table you want to create e.g. 0

If you want to take information from another table enter a second number from 0 - 9 . e.g. : 10. (create table 1 , take info from 0).
type car ret.

- Geef symbol-karakter en eventueel copy-karakter ?

Enter symbol you want to create, followed by space + other character if you want to take info from other character.

e.g. : A - 0
or : 100 - 65

(one can enter characters from the keyboard or with ASCII-values)

If you enter A 0 (+ car ret) character A will be created in table 1, information from letter 0 from table 0 will be given to start with.

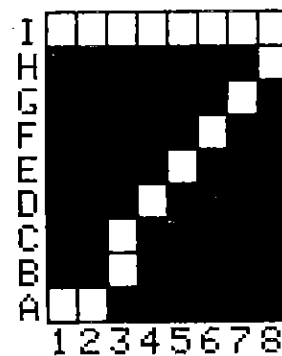
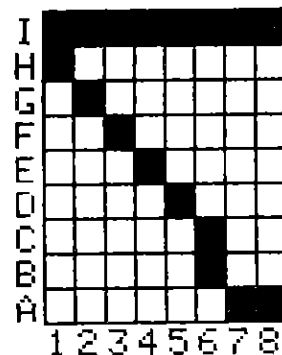
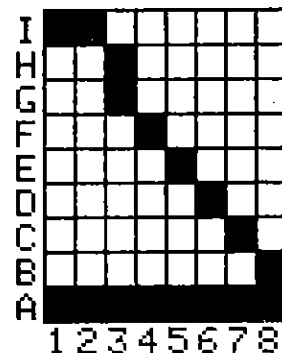
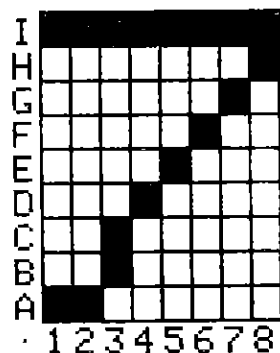
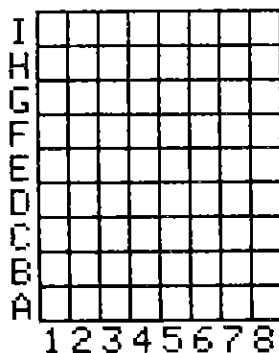
SPECIAL EDIT-commands :

S : inverse image
K : inverse color
O : upside-down
W : clear screen
L : list matrix contents of actual table
? : list menu + commands
CR: dump matrix of actual character in table
SHIFT + cursor up/down/left/right : move character 1 dot.
letter A - I : line to act upon (also cursor up/down)
number 1 - 8 : set reset dot on blinking line.
to change table : car ret
give symbol + copy-table + car ret

p.s. The tables can be write-protected with a value on adress 792
e.g. POKE 792, 2 means write-protect table 0 - 2.
Protection is done in the table-creator program on line 12.

SGFT TABLE-CREATOR

- 1: NIEUW KARAKTER VORMEN
 - a: INPUT SYMBOL-KARAKTER D.M.V.
ofwel EEN ALFA-TEKEN (KEY-BORD)
ofwel DE ASCII-WAARDE (VANAF 032 TOT 122)
 - b: CARIAGE-RETURN (CR)
- 2: WIJZIGEN en/of COPIEREN VAN EEN KARAKTER
 - a: INPUT SYBOL-KARAKTER D.M.V.
EEN ALFA-TEKEN of EEN ASCII-WAARDE
 - b: SPATIE
 - c: INPUT COPY-KARAKTER ZOALS NIEUW KARAKTER
- 3: LIST TEKENSET
 - a: LIST
 - b: CR
- 4: WISSELEN TABLE
 - a: CR
 - b: GEEF SYMBOL en COPY-TABLE + (
- 5: EINDE WERK
 - a: END ALS SYMBOL-KARAKTER INTYPEN
 - b: CR
- 6: LETTER A tot I : LIJN WAAROP DOTS MOETEN KOMEN
(OOK MET CURSOR OP/NEER TE KIEZEN)
CIJFER 1 tot 8 : SET of RESET DOTNR. OP PINK-LIJN
- 7: S : SPIEGELBEELD
K : KLEUR INVERSEREN
O : OMGEKEERD BFT'D
W : WIS SCHERM
L : LIST TEKENSET
M : MENU
? : LIST DE MENU DIE U NU ZIET
CR : DUMP MATRIX IN UTILITY PROGRAMMA
- 8: SHIFT EN CURSOR OP/NEER/LINKS/RECHTS
VERSCHUIFT HET BEELD 1 DOT
(ALLE DOTS BLIJVEN BEWAARD !)
CURSOR LINKS/RECHTS : VERSCHUIFT DE PINK LIJN 1 DOT



SFGT

FGT - SFGT translator

1/ LOAD FGT-table you want to convert.
(only machinelanguage part)

2/ LOAD & RUN SFGT translator FGT-part

all the characters will be displayed on screen.

3/ choose with cursor-keys which info to take from screen
and assign to new characters in SFGT.

for 16 x 16 matrixes, SFGT will take 2 x 2 characters.
2 width in following tables.

SFGT will accept characters from ASCII 32 to ASCII 122

```
10 REM UITLEG POKES SFGT LAMBRECHT ANDRE LEBBEKE 18/04/83
20 CLEAR 1000:DIM A$(10):DIM AX(10):FOR AX=768 TO 791:POKE AX,0:NEXT
30 REM TITEL
40 POKE 791,#11:A$=" S F G T ":B$=" MANUAL ":C$=" KLAAR ? "
50 MODE 2:COLORG 15 10 3 1:POKE 785,12:POKE 770,50:POKE 771,8:POKE 782,9
60 POKE 778,XMAX:POKE 780,YMAX:POKE 786,#31:CALLM 800,A$:POKE 786,#20
70 POKE 770,30:CALLM 800,B$:POKE 768,0:POKE 770,10:POKE 786,#13:CALLM 800,C$
80 GX=BETC:IF GX=0 THEN B0
100 REM HORIZONTALE POSITIE = POKE 768 EN 769
110 A$(0)="POKE 768 + 769 GEVENHORIZONTALE POSITIE V/D STRING AAN. "
AX(0)=#31
120 A$(1)="MAX: MODE 1 + 2 = 72 MODE 3 + 4 =160 MODE 5 + 6 =336":
AX(1)=#30
130 A$(2)="IN MODE 1-4 D.M.V.: POKE768,POS. POKE769,0 "
AX(2)=#12
140 A$(3)="IN MODE 5-6 D.M.V.: POKE768,POS. MOD 256POKE769,POS./256 "
AX(3)=#13
150 TX=1:TELX=3:GOSUB 2000:C$="POKE 768," :D$="POKE769=0 (MODE 4) "
160 POKE 785,12:POKE 786,#13:POKE 768,0:POKE 770,70:CALLM 800,D$
170 POKE 786,#30:POKE 770,100:FOR AX=10 TO 40:POKE 768,AX
180 B$=C$+MID$(STR$(AX),1,2):CALLM 800,B$:WAIT TIME 10:NEXT:GOTO 2100
200 REM VERTIKALE POSITIE = POKE 770
210 A$(0)=" POKE 770 GEEFT DE VERTIKALE POSITIE ":AX(0)=#31
220 A$(1)="MAX: MODE 1 -2 = 65 MODE 1A-2A= 52 ":AX(1)=#13
230 A$(2)=" MODE 3 -4 =130 MODE 3A-4A=105 ":AX(2)=#23
240 A$(3)=" MODE 5 -6 =255 MODE 5A-6A=211 ":AX(3)=#3
250 A$(4)=" TE VERMINDEREN MET DE MATRIXHOOGTE ":AX(4)=#30
260 TX=2:TELX=4:GOSUB 2000:A$="POKE 770," :POKE 786,#30:POKE 768,20:POKE 785,64+12
270 FOR AX=40 TO 80 STEP -1:C$=A$+MID$(STR$(AX),1,2):POKE 770,AX:CALLM 800,C$
280 WAIT TIME 10:NEXT:GOTO 2100
300 REM HORIZONTALE STAP = POKE 771
310 A$(0)=" POKE 771 GEEFT DE HORIZONTALE AFSTAND TUSSEN 2 KARAKTERS ":
AX(0)=#31
320 A$(1)=SPC(40):AX(1)=0:A$(2)=" MAX: 0 TOT 255 B=NORMALE STAP ":AX(2)=#27
330 POKE 768,0:POKE 770,120:POKE 785,64+2:B$=SPC(11)
340 TX=3:TELX=2:GOSUB 2000:A$="POKE 771," :POKE 768,0:POKE 770,50:POKE 785,12:POKE 786,#30
350 FOR AX=6 TO 15:C$=A$+MID$(STR$(AX),1,2):CALLM 800,B$
360 POKE 771,AX:CALLM 800,C$:WAIT TIME 20:NEXT:GOTO 2100
400 REM VERTIKALE STAP = POKE 772
410 A$(0)=" POKE 772 GEEFT DE VERTIKALE AFSTAND TUSSEN 2 KARAKTERS ":
AX(0)=#31
420 A$(1)=SPC(40):AX(1)=0:A$(2)=" MAX: 0 TOT 255 ":AX(2)=#23
430 A$(3)=" 0=HORIZONTAAL 9=VERTIKAAL ":AX(3)=#13
440 B$=SPC(11):POKE 768,0:POKE 770,120:POKE 785,64+2
450 TX=4:TELX=3:GOSUB 2000:A$="POKE772," :POKE 768,20:POKE 770,30:POKE 785,12:POKE 786,#30
460 FOR AX=16 TO 9:C$=A$+MID$(STR$(AX),1,1):CALLM 800,B$
470 POKE 772,AX:CALLM 800,C$:WAIT TIME 20:NEXT:GOTO 2100
500 REM TABULATIE STAP = POKE 773
510 A$(0)=" POKE 773 GEEFT DE HORIZONTALE STAP BIJ VERTIKALE CR ":
AX(0)=#31
520 A$(1)=SPC(40):AX(1)=0:A$(2)=" MAX: 0 TOT 255 ":AX(2)=#23
530 A$(3)=" B = NORMAAL ":AX(3)=#13
540 TX=5:TELX=3:GOSUB 2000:A$="POKE 773 " :B$="SFGTDEMO ":FOR AX=4 TO 10
550 MODE 4:MODE 4:POKE 768,10:POKE 770,20:POKE 771,8:POKE 772,0:POKE 777,0:POKE 780,120
560 POKE 785,2:POKE 786,#13:POKE 773,AX:C$=A$+MID$(STR$(AX),1,2):CALLM 800,C$
570 POKE 768,10:POKE 770,110:POKE 771,0:POKE 772,8:POKE 777,31:FOR BX=0 TO
```

```

580 _LM 800,B$:NEXT:WAIT TIME 50:NEXT:GOTO 2100
600 REM LIJN STAP = POKE 774
610 A$(0)=" POKE 774 GEEFT DE VERTIKALE STAP BIJ HORIZONTALE CR ":
AX(0)=#32
620 A$(1)=SPC(40):AX(1)=0:A$(2)=" MAX: 0 TOT 255 ":AX(2)=#23
630 A$(3)=" 9 = NORMAAL ":AX(3)=#13
640 TX=6:TELX=3:GOSUB 2000:A$="POKE774 = ":B$="SFGTDEMO ":FOR AX=4 TO 12:
MODE 4:MODE 4
650 POKE 768,10:POKE 770,20:POKE 771,8:POKE 772,0:POKE 775,8:POKE 778,112
:POKE 785,2
660 POKE 786,#13:POKE 774,AX:C$=A$+MID$(STR$(AX),1,2):CALLM 800,C$:POKE 7
68,10:POKE 770,120
670 FOR BX=0 TO 10:CALLM 800,B$:NEXT:WAIT TIME 50:NEXT:GOTO 2100
700 REM HOR+VER MIN/MAX = POKE 775 TOT 780
710 A$(0)="POKE 775 TOT 780 IS DE SCHERMBEGREZING ":AX(0)=#31
720 A$(1)=" HOR.MIN = 775/776 HOR.MAX = 778/779 ":AX(1)=#23
730 A$(2)=" VER.MIN = 777 VER.MAX = 780 ":AX(2)=#23
740 A$(3)="MAX:IDEM ALS 768+770":AX(3)=#2
750 A$(4)="N.B. MIN EN MAX WORDT AUTOMATISCH VERWISSELD MET ZIN (
ZIE LATER...) ":AX(4)=#13
755 TX=7:TELX=4:GOSUB 2000
760 A$="DIT IS EEN DEMO VOOR HORIZONTALEBEGREZING.....POKE 775 = 10... P
OKE 776 = 0...POKE 778 =138...POKE 779 = 0..."
770 POKE 768,10:POKE 770,100:POKE 774,9:POKE 775,10:POKE 778,138
780 POKE 785,2:POKE 786,#23:CALLM 800,A$:A$="10":B$="138":POKE 770,34:POK
E 778,XMAX
790 POKE 786,#2:CALLM 800,A$:POKE 768,138:CALLM 800,B$:GOSUB 2040
800 REM VERTIKAAL MIN + MAX = POKE 777 EN 780
810 A$="DIT IS EEN DEMO VOOR VERTIKALE BEGREZING POKE 777 =12 POKE 78
0=129"
820 POKE 768,10:POKE 770,111:POKE 771,0:POKE 772,9:POKE 773,9:POKE 777,12
:POKE 780,129
830 POKE 785,2:POKE 786,#32:CALLM 800,A$:A$="12":B$="129":POKE 768,80:POK
E 770,12
840 POKE 771,8:POKE 772,0:POKE 785,4:POKE 786,#23:CALLM 800,A$
850 POKE 780,YMAX:POKE 770,119:CALLM 800,B$:GOTO 2100
900 REM MATRIX BEGIN+EINDE = POKE 781 EN 782
910 A$(0)="POKE 781 EN 782 IS HET MATRIX BEGIN EN HET MATRIX EINDE ":
AX(0)=#32
920 A$(1)="NORMAAL:POKE 781 = 0 POKE 782 = 9":AX(1)=#20
930 TX=8:TELX=1:GOSUB 2000:A$="SFGT MATRIX DEMO":B$="781":C$=" 782="
940 FOR BX=0 TO 2:POKE 768,10:POKE 785,4:FOR AX=0 TO 10
950 IF BX=0 THEN CX=0:DX=AX
955 IF BX=1 THEN CX=AX:DX=18
960 IF BX=2 THEN CX=AX:DX=10-AX:WAIT TIME 5
970 POKE 781,CX:POKE 782,DX:POKE 770,60:POKE 786,#20:CALLM 800,A$
980 POKE 781,0:POKE 782,9:DX=B$+MID$(STR$(CX),1,2)+C$+MID$(STR$(DX),1,2)
990 POKE 770,30:POKE 786,#13:CALLM 800,DX:NEXT:GOSUB 2040:NEXT:GOTO 2100
1000 REM STRING BEGIN+EINDE = POKE 783 EN 784
1010 A$(0)="POKE 783 EN 784 IS HET STRINGBEGIN EN DE STRINGLENGTE ":
AX(0)=#31
1020 A$(1)="ALS 784 =0 DAN HEEFTDE STRING ZIJN VOLLEDIGE LENGTE ":
AX(1)=#13
1030 TX=9:TELX=1:GOSUB 2000:A$="MIDSTRINGTEST":B$="783":C$=" 784="
1040 FOR BX=0 TO 2:POKE 768,10:POKE 785,4:FOR AX=0 TO 10
1050 IF BX=0 THEN CX=0:DX=0:EX=0
1055 IF BX=1 THEN CX=AX:DX=0:EX=40
1060 IF BX=2 THEN CX=AX:DX=3:EX=60
1070 POKE 783,CX:POKE 784,DX:POKE 770,60:POKE 786,#20:ES=A$+":CALLM 800,
ES
1080 POKE 783,0:POKE 784,0:DX=B$+MID$(STR$(CX),1,2)+C$+MID$(STR$(DX),1,2)
1090 POKE 770,30:POKE 786,#13:CALLM 800,DX:WAIT TIME EX:NEXT:GOSUB 2040:NEX
T:GOTO 2100
1100 REM ZINFLAG = POKE 785
1105 AX(0)=#31:A$(0)=" POKE 785 BEVAT DE SCHRIJFFUNCTIES "

```

```

1115 AX(2)=#13:A$(2)=" 2 : RECHTS/NEER 3 : LINKS/NEER
1120 AX(3)=#32:A$(3)=" 4 : BEHOUD HOR.POS 8 : BEHOUD VER.POS"
1125 AX(4)=#20:A$(4)=" 16 : ONDERSTE BOVEN 64 : HOGE SNELHEID "
1130 AX(5)=#21:A$(5)="128 : INKEY ":TX=10:TELX=5:GOSUB 2000
1135 AX(0)=#31:A$(0)="VB.:U WILT LINKS/OP + BEHOUD HOR.POS. + HOGE SNELH
EID DUS POKE 785 =1+4+64=69 "
1140 AX(1)=#23:A$(1)="VB.:U WILT RECHTS/OP+ BEHOUD HOR.POS. + BEHOUD VER
.POS.DUSPOKE 785 =0+4+8=12 "
1145 AX(2)=#12:A$(2)="U KUNT DUS DOOR COM-BINEREN VAN DE BITS ALLE MOGELIJ
KHEDED BEREIKEN. "
1150 TELX=2:GOSUB 2000
1155 A$=" POKE 785 = ":B$=" TEST ZINFLAG 0-3 ":BEGX=0:EINDX=3:STAPX=1:GOSU
B 1270
1160 B$=" TEST POSITIEFLAG 4-8 ":BEGX=4:EINDX=12:STAPX=4:GOSUB 1270
1165 B$=" TEST OMKEERFLAG 16 ":BEGX=16:EINDX=19:STAPX=1:GOSUB 1270
1170 B$=" TEST HOGE SNELHEID 64 TEST HOGE SNELHEID 64 "
1175 BEGX=0:EINDX=64:STAPX=64:GOSUB 1270
1180 AX(0)=#31:A$(0)="VOOR DE INKEYSTRING MOET POKE 785 >=128 "
1185 AX(1)=#13:A$(1)="U ROEPT DEZELFDE ROUTINE CALLM800,.$ AAN"
1190 AX(2)=#13:A$(2)="EN NU KUNT U EEN WOORD INTYPEN .ALLE"
1195 AX(3)=#13:A$(3)="MOGELIJKHEDEN ZOALS LENSTRING -MIDSTRINGBLIJVEN BEHO
UDEN. "
1200 AX(4)=#2:A$(4)="VB.:A$ = DAINAMIC 783=2 : 784= 5 "
1205 AX(5)=#2:A$(5)="U KUNT NU 5 LETTERS INTYPEN OP INAMI ":TELX=5:GOSU
B 2000
1210 A$="DAINAMIC":FOR INKEYX=0 TO 3:B$=" A$="+A$+" TYP NU 5 LETTER
S IN "
1220 POKE 768,0:POKE 770,100:POKE 786,#31:POKE 785,6:CALLM 800,B$:POKE 770
,60
1230 POKE 786,#23:POKE 783,2:POKE 784,5:POKE 785,6+128:CALLM 800,A$
1240 B$="DE NIEUWE STRING IS:"+A$:POKE 770,30:POKE 783,0:POKE 784,0:POKE 7
85,6
1250 POKE 786,#13:CALLM 800,B$:GOSUB 2040:NEXT:GOTO 2100
1270 FOR AX=BEGX TO EINDX STEP STAPX:POKE 768,30:POKE 770,20:POKE 786,#31:
POKE 785,0
1280 POKE 777,30:C$=A$+MID$(STR$(AX),1,2):CALLM 800,C$:POKE 768,0:POKE 770
,60
1290 POKE 785,AX:POKE 786,#23:FOR BX=0 TO 30:CALLM 800,B$:NEXT:GOSUB 2040:
NEXT:RETURN
1300 REM COLOR = POKE 786
1310 AX(0)=#31:A$(0)="POKE 786 DE KLEUR VAN DE STRING "
1320 AX(1)=#32:A$(1)="EERST DE FRONTKLEUR EN DAN DE BACKGROUND"
1330 AX(2)=#23:A$(2)="MAX:4-COLOR #00/#33 16-COLOR #00/#FF"
1340 TX=11:TELX=2:GOSUB 2000:A$="COLORTEST MODE 3":B$="POKE 786=#"
1350 POKE 768,10:POKE 785,4:MODE 3:FOR AX=0 TO 10:BX=RD(255)
1360 C$=B$+HEX$(BX):POKE 770,60:POKE 786,BX:CALLM 800,A$
1370 POKE 770,30:POKE 786,#1F:CALLM 800,C$:WAIT TIME 80:NEXT
1380 GOSUB 2040:POKE 768,10:POKE 785,4:MODE 4:A$="COLORTEST MODE 4"
1385 FOR AX=0 TO 3:FOR BX=0 TO 3:B$="POKE 786,#":IF AX=0 THEN B$="POKE 786
,#0"
1390 CX=AX*16+BX:C$=B$+HEX$(CX):POKE 770,60:POKE 786,CX:CALLM 800,A$
1395 POKE 770,30:POKE 786,#31:CALLM 800,C$:WAIT TIME 60:NEXT:NEXT:GOTO 210
0
1400 REM DELAY = POKE 787
1410 AX(0)=#31:A$(0)="POKE 787 GEEFT EEN VERTRAGING BIJ HET PRINTEN V.D.
STRING "
1420 AX(1)=#23:A$(1)="MAX : 255 ":TX=12:TELX=1:GOSUB 2000
1430 A$="POKE 787 =":POKE 768,10:POKE 770,60:POKE 785,4:POKE 786,#31
1440 FOR AX=0 TO 80 STEP 20:MODE 4:POKE 787,AX:B$=A$+MID$(STR$(AX),1,2)
1450 CALLM 800,B$:WAIT TIME 40:NEXT:GOTO 2100
1500 REM ANIMATIE = POKE 788 EN 789
1510 AX(0)=#31:A$(0)="788 EN 789 GEVEN DE MOGELIJKHEID VAN ANIMATIE ZON
DER FLIKKEREND BEELD ... "
1520 AX(1)=#13:A$(1)="788 GEEFT HET AANTALKARAKTERS PER BEELD (0=GEEN ANIM
ATIE ) "

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1525 HX(2)=#2:A$(2)="789 GEEFT DE HORSTAPPER KARAKTER
1530 AX(3)=#31:A$(3)="771 GEEFT DE HORSTAPPER BEELD AAN      ":TX=13:TELX
=:3:GOSUB 2000
1535 AX(0)=#12:A$(0)="VOLGORDE ANIMATIE: ":AX(1)=#31:A$(1)="1E BEELD , DA
N DELAY"
1540 AX(2)=#31:A$(2)="2E BEELD OP ZELFDE POSITIE+3E BEELD OP "
1545 AX(3)=#31:A$(3)="NIEUWE POSITIE ENZ. ":TELX=3:GOSUB 2000
1550 A$=" 771=8:787=255:789=8 788=":B$="1234567890":D$="VB.:B$="+B$
1560 FOR AX=0 TO 5:POKE 768,0:POKE 770,100:POKE 771,8:POKE 785,2:POKE 786,
#32
1570 CALLM 800,D$:POKE 768,0:POKE 770,30:POKE 786,#13:POKE 788,0:C$=A$+HEX
$(AX)
1580 CALLM 800,C$:POKE 786,#30:POKE 787,255:POKE 768,0:POKE 770,60:POKE 78
8,AX
1590 POKE 789,8:CALLM 800,B$:GOSUB 2040:MODE 4:NEXT:GOTO 2100
1600 REM TABEL = POKE 790
1610 AX(0)=#13:A$(0)="POKE 790 GEEFT DE TABELKEUZE
1620 AX(1)=#20:A$(1)="AANBEZIEN DE ANDERE TABELLEN NOG NIET  GECREERD ZIJ
N IS ER GEEN DEMO VOORZIEN "
1630 AX(2)=#31:A$(2)="STANDAARTABEL = 0  MAX : 0 TOT 9      ":TX=14:TELX
=:2:GOSUB 2000:GOTO 2100
1700 REM TOTAAL MATRIX=POKE 791
1710 AX(0)=#13:A$(0)="POKE 791 GEEFT HET AANTAL MATRIXEN DIE "
1720 AX(1)=#13:A$(1)="SAMEN EEN KARAKTER VORMEN. HET EERSTE "
1730 AX(2)=#13:A$(2)="GETAL GEEFT AANTAL MATRIXEN VERTIKAAL. "
1740 AX(3)=#13:A$(3)="HET TWEEDE GETAL IS HET TOTAAL AANTAL"
1750 AX(4)=#31:A$(4)="(MIN. #11  MAX. #AA)"
1760 AX(5)=#23:A$(5)="*#11=1 HOOG 1/1 BREED"
1770 AX(6)=#23:A$(6)="*#24=2 HOOG 4/2 BREED"
1780 AX(7)=#23:A$(7)="*#15=1 HOOG 5/1 BREED"
1790 TX=15:TELX=7:GOSUB 2000:GOTO 2100
1800 REM DEMO
1900 END
2000 MODE 4:MODE 4:POKE 768,0:POKE 770,120:POKE 771,8:POKE 772,0:POKE 774,
9:POKE 775,0
2010 POKE 777,0:POKE 778,150:POKE 779,XMAX/256:POKE 780,YMAX:POKE 781,0:PO
KE 782,9
2020 POKE 783,0:POKE 784,0:POKE 785,64+2:POKE 787,0:POKE 788,0:COLORG 1 3
10 15
2030 FOR AX=0 TO TELX:POKE 786,AX(AX):CALLM 800,A$(AX):NEXT
2040 POKE 768,0:POKE 770,1:POKE 771,8:POKE 772,0:POKE 775,0:POKE 777,0:POK
E 778,160
2050 POKE 780,YMAX:POKE 781,0:POKE 782,9:POKE 783,0:POKE 784,0:POKE 785,0:
POKE 786,#31
2060 POKE 787,0:POKE 788,0
2070 GET$=" DRUK OP EEN TOETS ":CALLM 800,GET$
2080 G$=GETC:IF G$=0 THEN 2080:MODE 4:MODE 4:RETURN
2100 POKE 768,0:POKE 770,1:POKE 771,8:POKE 772,0:POKE 775,0:POKE 777,0:POK
E 778,160
2110 POKE 780,YMAX:POKE 781,0:POKE 782,9:POKE 783,0:POKE 784,0:POKE 785,0:
POKE 786,#31
2120 POKE 787,0:POKE 788,0
2130 GET$=" DRUK UP-DOWN OF A-0":CALLM 800,GET$
2140 G$=GETC:IF G$=0 THEN 2140
2150 IF G$=17 AND TX>1 THEN TX=TX-1:GOTO 2180
2160 IF G$=16 THEN TX=TX+1:GOTO 2180
2170 IF G$>64 AND G$<80 THEN TX=G$-64:GOTO 2180
2175 GOTO 2140
2180 MODE 4:MODE 4:ON TX GOTO 100,200,300,400,500,600,700,900,1000
2190 ON TX-9 GOTO 1100,1300,1400,1500,1600,1700,1900
*LOAD:RUN

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1  REM SFGT DEMO LAMBRECHT ANDRE LEBBEKE 11/3/83
2  REM POKES: 768=HORBEG1;769=HORBEG2;770=VERBEG;771=HORSTEP;772=VERSTEP
;773=TABSTEP
3  REM 774=LINSTEP;775=HORMIN1;776=HORMIN2;777=VERMIN;778=HORMAX1;779=HO
RMAX2
4  REM 780=VERMAX;781=MATRIXBEG;782=MATRIXLEN;783=STRINGBEG;784=STRINGLE
N;785=RICHTING
5  REM 786=COLOR (FRONT/BACK HEX);787=DELAYTIME;788=ANIMATIE;789=ANIMATI
ESTEP;790=TABLE-NR
6  REM 785:0=RIGHT UP;1=LEFT UP;2=RIGHT DOWN;3=LEFT DOWN;4=HORBEG FIX;8=
VERBEG FIX
7  REM 64=DUBBEL SPEED;128=INKEY NAAR AANGEROEPEN STRING
8  REM 791=MATRIX CONSTRUCTIE
10 CLEAR 1000:DIM A$(23):DIM A(10):ENVELOPE 0 15:ENVELOPE 1 15
20 POKE 791,#11:COLORG 1 3 11 15:MODE 3:MODE 4
30 A$=" SFGT TEST DEMO ":POKE 770,20:POKE 771,8:POKE 772,0:POKE 773,0
:POKE 774,0
40 POKE 775,0:POKE 777,0:POKE 778,XMAX:POKE 780,YMAX:POKE 781,0:POKE 782
,8
50 POKE 783,0:POKE 785,0:POKE 786,#30:POKE 787,0:POKE 788,0:POKE 790,0
60 FOR A=152 TO 8 STEP -2:POKE 768,A:POKE 784,20-A/8:CALLM 800,A$:SOUND
1 0 15 2 FREQ(A*10):NEXT
70 POKE 768,8:POKE 785,64+4:FOR A=20 TO 100:POKE 770,A:CALLM 800,A$:SOUN
D 1 0 15 2 FREQ(A*10)
75 SOUND 1 0 15 2 FREQ(A*40):NEXT:SOUND OFF
80 POKE 785,12:POKE 774,0:POKE 775,16:FOR B=0 TO 5
90 FOR A=16 TO XMAX STEP B:POKE 768,A:CALLM 800,A$:WAIT TIME 3:NEXT:NEXT
100 POKE 768,16:POKE 783,0:POKE 784,0:C$="TONGELSBOS 1983":B$=SPC(16):C=
2:D=1:FOR B=1 TO 10
110 POKE 770,C:POKE 785,64+28-16*D:POKE 786,#13:FOR A=1 TO 9:POKE 782,A:C
ALLM 800,C$:NEXT
120 POKE 786,#30:FOR A=1 TO 9:POKE 782,A:CALLM 800,B$:NEXT
130 C=C+B:D=D-1:POKE 786,#13:POKE 770,C:POKE 785,64+12:FOR A=1 TO 9:
POKE 782,A:CALLM 800,C$:NEXT
200 B=0:E$="COMPUTER":D$=" acegi DDQRNM"+CHR$(64)+"K ":F$="WAT DENK JE ER
VAN?":POKE 786,#31
210 A$(0)=" MATRIX TESTEN.. ":A$(1)=" MET CALLM800,A$ ":A$(2)=" WACHT N
OG EVEN..":A$(3)=" DAT IS HET ' '
220 POKE 781,0:POKE 782,18:POKE 768,16:POKE 770,50:POKE 785,64+12:FOR A=0
TO 234:IF A<19 THEN POKE 782,A
230 IF A<>30 AND A<>100 AND A<>170 AND A<>234 THEN 260
240 POKE 768,8:POKE 770,35:POKE 782,9:POKE 781,0:POKE 786,#3:CALLM 800,A$
(B)
250 B=B+1:POKE 768,16:POKE 770,50:POKE 782,18:POKE 786,#31
260 POKE 781,234-A:CALLM 800,D$:NEXT:POKE 768,72:POKE 782,9:CALLM 800,E$
300 POKE 785,12:POKE 786,#20:POKE 770,2:POKE 774,9:POKE 787,0:F$="WRITTEN
BY LAMBRECHT":I$=" k":H$=" m"
310 FOR A=0 TO 19:POKE 781,0:POKE 782,9:G$=" k 1"+MID$(F$,19-A,1):IF G$=
" k 1 " THEN 360
320 FOR B=0 TO 136-A*7 STEP 7:POKE 768,8:POKE 775,B:POKE 778,B+24:CALLM 8
00,G$
330 SOUND 1 0 15 0 FREQ(40):SOUND OFF :WAIT TIME 2:CALLM 800,H$
340 SOUND 1 0 15 0 FREQ(50):SOUND OFF:WAIT TIME 2:NEXT
350 FOR B=18 TO 0 STEP -1:POKE 782,B:POKE 781,18-B:CALLM 800,I$:NEXT
360 NEXT
400 POKE 778,XMAX:POKE 768,16:POKE 771,7:POKE 774,0:C=0:D=3:E=0:H=0:FOR B
=1 TO 20
410 FOR G=0 TO 1:POKE 785,12+16*H:F=1+(-2*E):FOR A=C TO D STEP F:POKE 781
,5+A
420 POKE 782,4-A:POKE 770,16-(5-A)*H:CALLM 800,F$:POKE 770,11+A+(5-A)*H:P
OKE 781,0:CALLM 800,F$:NEXT
430 C=3-C:D=3-D:E=1-E:H=1-H:NEXT:H=1-H:NEXT
440 WAIT TIME 100:FOR A=1 TO 10:COLORG A A+3 11-A 16-A:WAIT TIME 100:NEXT
450 COLORG 1 3 11 15
500 A$(0)="DEZE TEKST WORDT METSFGT GESCHREVEN. ":A(0)=#7F

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510 A$(1)="DE SNELHEID IS ONGE-VEER 300 KARAKT/SEC." : A(1)=#2E
520 A$(2)="SCHERMBEGRENZING INKEY COLORS " : A(2)=#4B
530 A$(3)="ANIMATIE TEKENEN MID$ LEN$ " : A(3)=#D3
540 A$(4)="MATRIXBEGIN + HOOGTEDELAYTIME ENZ. ENZ." : A(4)=#F0
550 A$(5)=" SOFTWARE LAMBRECHT HENRI EN ANDRE " : A(5)=#D1
560 FOR D=1 TO 5:POKE 768,0:POKE 769,0:POKE 770,120:POKE 785,64+6:POKE 78
1,0:POKE 782,9:POKE 771,8:POKE 772,0
570 POKE 773,1:POKE 774,12:POKE 783,0:POKE 784,0:POKE 775,0:POKE 776,0:PO
KE 778,160:POKE 779,0:POKE 788,0
580 MODE 3:FOR A=0 TO 4:POKE 786,A(A):CALLM 800,A$(A):NEXT
600 WAIT TIME 300:POKE 768,0:POKE 769,0:POKE 785,64+2:POKE 775,0:POKE 778
,80:POKE 779,1:POKE 780,255:POKE 770,245
610 MODE 5:FOR B=0 TO 1:POKE 784,20:FOR A=0 TO 4:POKE 786,A(A):POKE 783,0
620 CALLM 800,A$(A):POKE 768,176:POKE 769,0:CALLM 800,A$(A):POKE 783,20
630 CALLM 800,A$(A):POKE 768,176:POKE 769,0:CALLM 800,A$(A):NEXT:POKE 783
,0:POKE 784,0:POKE 786,A(A)
640 IF B=0 THEN CALLM 800,A$(A)
650 NEXT:WAIT TIME 300:NEXT
700 WAIT TIME 100:MODE 4:G$="op qr":POKE 782,9:POKE 771,8:POKE 772,4
710 POKE 784,0:POKE 786,#F0:POKE 787,20:POKE 768,24:POKE 769,0
720 POKE 770,20:POKE 788,2:POKE 789,8:POKE 773,8:POKE 774,1:POKE 777,10
730 FOR A=1 TO 15:POKE 785,64+RND(3):FOR B=1 TO 15:CALLM 800,B$:SOUND 1 0
15 0 FREQ(1000.0+RND(4000.0))
740 WAIT TIME 1:SOUND OFF :NEXT:NEXT
800 MODE 2:POKE 786,#31:POKE 768,24:POKE 769,0:POKE 770,30:POKE 771,8
810 POKE 772,0:POKE 773,0:A$="":POKE 774,0:POKE 785,64+12:POKE 787,0
820 POKE 788,0:POKE 781,0:POKE 782,9:POKE 783,0:POKE 784,0:CALLM 800,A$
830 POKE 784,0:FOR SEC1=48 TO 53:FOR SEC2=48 TO 57:POKE 768,8:POKE 768,8
840 POKE 783,0:B$=CHR$(SEC1)+CHR$(SEC2):CALLM 800,B$:SOUND OFF :POKE 768,
32
850 FOR TIEN=0 TO 51:READ C$:CALLM 800,C$:NEXT:RESTORE
860 SOUND 1 0 15 0 FREQ(1000):NEXT:NEXT
870 WAIT TIME 100:SOUND OFF :GOTO 900
880 DATA 00,02,04,06,08,10,12,14,16,18,20,22,24,26,28,30
890 DATA 32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,63
895 DATA 64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,99
900 DIM A$(23):MODE 3:COLORS 15 3 1 10:MODE 4
902 A$(0)="768 = HOR.POSITIE " : A$(1)="769 = HOR.POS. 0-1 " : A$(2)="770
= VERT.POSITIE "
905 A$(3)="771 = HORIZ. STAP " : A$(4)="772 = VERTIK. STAP " : A$(5)="773
= TABULATIESTAP "
910 A$(6)="774 = LIJN STAP " : A$(7)="775 = HORIZ. MIN " : A$(8)="776
= HORIZ.MIN 0-1 "
915 A$(9)="777 = VERTIK. MIN " : A$(10)="778 = HORIZ. MAX " : A$(11)="77
9 = HORIZ. MAX 0-1"
916 A$(12)="780 = VERTIK. MAX " : A$(13)="781 = MATRIX BEGIN " : A$(14)="7
82 = MATRIX LENGTE "
920 A$(15)="783 = STRINGBEGIN " : A$(16)="784 = STRINGLENGTE " : A$(17)="7
85 = ZINFLAG "
922 A$(18)="786 = COLOR FR/BACK " : A$(19)="787 = DELAYTIME "
925 A$(20)="788 = ANIMATIEFLAG " : A$(21)="789 = ANIMATIESTAP " : A$(22)="7
90 = TABELNR. 0-9 "
926 A$(23)=" + CALLM800,..$ "
930 FOR TEL1=0 TO 3:A=1:B=0:POKE 778,XMAX:POKE 780,YMAX:POKE 785,64+4:POK
E 768,0
940 POKE 784,0:FOR TEL=0 TO 1:POKE 786,16+TEL*16:FOR Y=127 TO 9 STEP -2:P
OKE 770,Y
950 POKE 782,A:POKE 781,9-A:CALLM 800,A$(B):A=A+2:IF A>9 THEN B=B+1:A=1
960 NEXT:WAIT TIME 200:NEXT:WAIT TIME 200:NEXT
1000 GOTO 20

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