

```

10 GOTO 1600
20 '** Bildschirmrahmen **'
30 LOCATE a,b:PRINT CHR$(150)STRIN
G$(1na,154)CHR$(156);
40 FOR i=1 TO 1nb:LOCATE a,i+b:PR
INT CHR$(149);:LOCATE a+1na+1,i+b
:PRINT CHR$(149);:NEXT i
50 LOCATE a,b+1nb+1:PRINT CHR$(14
7)STRING$(1na,154)CHR$(153);
60 RETURN
70 '** Arbeitsblatt zeigen **'
80 GOSUB 120
90 CLS#1:FOR yr=1 TO 16:FOR xr=1
TO 24:IF blatt(xr,yr)THEN PRINT#1
,CHR$(233);ELSE PRINT#1,CHR$(144)
;
100 NEXT xr,yr
110 RETURN
120 '** Originalgroesse **'
130 ORIGIN 12,304,16,191,304,336
140 FOR yr=1 TO 16:FOR xr=1 TO 24
:IF blatt(xr,yr)THEN PLOT xr*4,32
-yr*2,f.pl:DRAWR 2,0:PLOT xr*2+13
0,32-yr*2,f.pl
150 NEXT xr,yr
160 RETURN
170 '** Plot Punkt xr,yr **'
180 IF blatt(xr,yr)THEN 240
190 '** Reset Punkt **'
200 ORIGIN 12,304,16,191,304,336
210 blatt(xr,yr)=0:LOCATE#1,xr,yr
:PRINT#1,CHR$(144);
220 PLOT xr*4,32-yr*2,0:DRAWR 2,0
:PLOT xr*2+130,32-yr*2,0
230 RETURN
240 '** Set Punkt **'
250 ORIGIN 12,304,16,191,304,336
260 blatt(xr,yr)=-1:LOCATE#1,xr,y
r:PRINT#1,CHR$(233);
270 PLOT xr*4,32-yr*2,f.pl:DRAWR
2,0:PLOT xr*2+130,32-yr*2,f.pl
280 RETURN
290 '** Invert Punkt **'
300 IF blatt(xr,yr)THEN 190 ELSE
240
310 '** Rahmen an xr,yr,x1,y1 **'
320 xo=(x1-xr)*16:IF xo<0 THEN ox
=14:xo=xo-14 ELSE ox=0:xo=xo+14
330 yo=(y1-yr)*16:IF yo<0 THEN oy
=14:yo=yo-14 ELSE oy=0:yo=yo+14
340 PLOT xr*16+ox,286-yr*16-oy,f.
ra:DRAWR xo,0:DRAWR 0,-yo:DRAWR-x
o,0:DRAWR 0,yo
350 RETURN
360 '** Rahmen aus **'
370 PLOT xr*16+ox,286-yr*16-oy,0:
DRAWR xo,0:DRAWR 0,-yo:DRAWR-xo,0
:DRAWR 0,yo
380 RETURN
390 '** Raster an xa,ya,rax,ray *
*'
400 xq=rax*16+14:yq=ray*16+14
410 PLOT xa*16,286-ya*16,f.ra:DRA

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WR xq,0:DRAWR 0,-yq:DRAWR-xq,0:DR
AWR 0,yq
420 RETURN
430 '** Raster aus **'
440 PLOT xa*16,286-ya*16,0:DRAWR
xq,0:DRAWR 0,-yq:DRAWR-xq,0:DRAWR
0,yq
450 RETURN
460 '** Cursor setzen x,y,bef$,ra
ahmen,raster **'
470 prog=0:PEN f.cu:ORIGIN 0,0,16
,398,16,270
480 LOCATE x,y:CALL cursor:xr=x-1
:yr=y-8:IF raster THEN IF starr T
HEN GOSUB 390 ELSE xa=xr:ya=yr:GO
SUB 390
490 IF rahmen THEN IF starr THEN
x1=xr+rax:y1=yr+rax:GOSUB 310 ELS
E GOSUB 310
500 a$=INKEY$:IF a$=""THEN 500 EL
SE CALL cursor:IF rahmen THEN GOS
UB 360
510 IF raster THEN GOSUB 430
520 IF ASC(a$)AND 128 THEN 540
530 FOR i=1 TO LEN(bef$):IF LOWER
$(a$)=MID$(bef$,i,1)THEN prog=i:G
OTO 600 ELSE NEXT i
540 IF a$=CHR$(240)AND y>9 THEN y
=y-1
550 IF a$=CHR$(241)AND y<24 THEN
y=y+1
560 IF a$=CHR$(242)AND x>2 THEN x
=x-1:IF x=27 THEN x=25
570 IF a$=CHR$(243)AND x<39 THEN
x=x+1:IF x=26 THEN x=28
580 xr=x-1:yr=y-8
590 IF a$<>CHR$(224)THEN 480
600 IF x<26 THEN blatt=-1 ELSE bl
att=0
610 RETURN
620 '** Rahmen setzen (pos,klick,
pos,klick) **'
630 ende=0:rahmen=0:starr=0
640 GOSUB 460:IF prog OR NOT blat
t THEN ende=-1:RETURN
650 rahmen=-1:x1=xr:y1=yr:GOSUB 3
10
660 GOSUB 460:IF prog OR NOT blat
t THEN ende=-1:GOTO 680
670 x2=MAX(x1,xr):x1=MIN(x1,xr):y
2=MAX(y1,yr):y1=MIN(y1,yr)
680 GOSUB 360:rahmen=0
690 RETURN
700 '** Raster setzen (pos,klick,
pos,klick) rax,ray **'
710 ende=0:raster=0:starr=0
720 GOSUB 460:IF prog OR NOT blat
t THEN ende=-1:RETURN
730 raster=-1:xa=xr:ya=yr:GOSUB 3
90
740 GOSUB 460:IF prog OR NOT blat
t THEN ende=-1:GOTO 760
750 IF xa+rax>24 OR ya+ray>16 THE
N ende=-1
760 GOSUB 430:raster=0
770 RETURN
780 '** Rahmen,Raster init (pos,k
lick,pos,klick,pos,klick) **'
790 raster=0:GOSUB 620:IF ende TH
EN RETURN
800 rahmen=-1:raster=-1:starr=-1
810 x=x1+1:y=y1+8:xa=x1:ya=y1:rax
=x2-x1:ray=y2-y1
820 GOSUB 460:IF prog OR NOT blat
t THEN ende=-1:GOTO 840
830 x1=xr:y1=yr:x2=x1+rax:y2=y1+r
ay:IF x2>24 OR y2>16 THEN ende=-1
840 starr=0:rahmen=0:raster=0
850 RETURN
860 '** 16 Zeichen zeigen schalte
r,as **'
870 ascii=(asö16)*16:LOCATE#6,15,
6:PRINT#6,USING"###";ascii
880 LOCATE#6,19,6:PRINT#6,USING"#
##";ascii+15:LOCATE#4,1,1
890 POKE schalter,255:FOR i=ascii
TO ascii+15
900 PRINT#4,CHR$(1)CHR$(i);:NEXT
i:POKE schalter,0
910 RETURN
920 '** input laenge,n **'
930 s$=""
940 PRINT#n,CHR$(143)CHR$(8);
950 a$=UPPER$(INKEY$):IF a$=""THE
N 950
960 IF a$=CHR$(127)AND s$<>""THEN
s$=LEFT$(s$,LEN(s$)-1):PRINT#n,"
"STRING$(2,8);:GOTO 940
970 IF a$=CHR$(13)THEN PRINT#n,"
";:RETURN
980 IF LEN(s$)<laenge AND ASC(a$)
>31 AND ASC(a$)<127 THEN s$=s$+a$
:PRINT#n,a$;
990 GOTO 940
1000 '** Zeichennr. eingeben (ein
stellen,klick,einstellen,klick) *
*'
1010 prog=0:ende=0:LOCATE#2,1,15:
PRINT#2,CHR$(20)"Zeichen:";
1020 POKE schalter,255:LOCATE#2,1
1,15:PRINT#2,CHR$(1)CHR$(as):POKE
schalter,0
1030 GOSUB 860:PRINT#2,USING" ##
#";ascii;:PRINT#2,"-"USING"###";a
scii+15;
1040 a$=INKEY$:IF a$=""THEN 1040
ELSE IF ASC(a$)AND 128 THEN 1070
1050 IF a$>"/"AND a$<":"THEN 1220
1060 FOR i=1 TO LEN(bef$):IF LOWE
R$(a$)=MID$(bef$,i,1)THEN prog=i:
RETURN ELSE NEXT i
1070 IF a$=CHR$(240)OR a$=CHR$(24
1)THEN prog=1:RETURN
1080 IF a$=CHR$(242)AND as>PEEK(s
ymafter)+15 THEN as=as-16
1090 IF a$=CHR$(243)AND as<240 TH

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EN as=as+16
1100 IF a#<>CHR$(224)THEN 1020 EL
SE LOCATE#2,1,16:PRINT#2,CHR$(18)
1110 POKE schalter,255:LOCATE#2,1
1,15:PRINT#2,CHR$(1)CHR$(as):POKE
schalter,0
1120 LOCATE#2,1,16:PRINT#2,"Ascii
:"USING"###";as
1130 GOSUB 860
1140 a#=INKEY#:IF a#=""THEN 1140
ELSE IF ASC(a#)AND 128 THEN 1170
1150 IF a#>"/"AND a#<":"THEN 1220
1160 FOR i=1 TO LEN(bef#):IF LOWE
R$(a#)=MID$(bef#,i,1)THEN prog=i:
RETURN ELSE NEXT i
1170 IF a#=CHR$(240)OR a#=CHR$(24
1)THEN prog=1:RETURN
1180 IF a#=CHR$(242)AND as>PEEK(s
ymafter)THEN as=as-1
1190 IF a#=CHR$(243)AND as<255 TH
EN as=as+1
1200 IF a#<>CHR$(224)THEN 1110
1210 RETURN
1220 a=VAL(a#):LOCATE#2,1,16:PRIN
T#2,CHR$(18)"Ascii: "a#;
1230 FOR i=1 TO 2
1240 a#=INKEY#:IF a#=""THEN 1240
ELSE IF a#<"0"OR a#>"9"THEN 1270
1250 a=a*10+VAL(a#):PRINT#2,a#;:N
EXT i:IF a<PEEK(symafter)OR a>255
THEN prog=1:RETURN
1260 as=a:GOSUB 860:RETURN
1270 ascii=(as/16)*16:LOCATE#2,1,
16:PRINT#2,USING" ###";ascii;:PR
INT#2,"-"USING"###";ascii+15;:GOT
O 1060
1280 '** Balken zeichnen **'
1290 PEN f.ba:FOR j=0 TO ln-1
1300 FOR i=28 TO 39
1310 LOCATE i,po+j:CALL cursor
1320 NEXT i,j
1330 RETURN
1340 '** 2 Zeilen loeschen **'
1350 LOCATE#2,1,15:PRINT#2,CHR$(2
0)
1360 bef#=LEFT$(bef#,12)
1370 ende=-1:GOTO 2150
1380 '** Header loeschen **'
1390 CLS#5:PRINT#5,header#;
1400 ende=-1:GOTO 3550
1410 '** Ok-Abfrage a,b **'
1420 l=LEN(bef#):bef#=bef#+"njo":
ende=0
1430 PEN 1:lna=4:lnb=1:GOSUB 20:a
=a+6:GOSUB 20:a=a-6
1440 LOCATE a+2,b+1:PRINT"Ja"STRI
NG$(3,9)"Nein"
1450 GOSUB 460:IF prog=0 THEN 147
0
1460 IF prog=1+1 THEN prog=1:GOTO
1490 ELSE IF prog<1 THEN 1490 EL
SE 1500
1470 IF y=b+1 THEN IF x>a AND x<a
+5 THEN 1500 ELSE IF x>a+6 AND x<
a+11 THEN 1490
1480 GOTO 1450
1490 ende=-1
1500 bef#=LEFT$(bef#,1):RETURN
1510 '** Langer Balken **'
1520 PEN f.ba:FOR i=2 TO 16
1530 LOCATE i,po:CALL cursor:NEXT
i
1540 RETURN
1600 '** Initialisierung **'
1610 f0=13:f1=3:f2=15:f3=0
1620 f.bo=1:f.cu=1:f.ra=2:f.ba=2:
f.pl=3
1630 BORDER f.bo:INK 0,f0:INK 1,f
1:INK 2,f2:INK 3,f3
1640 spwrite=0:SPEED WRITE spwrit
e
1650 symafter=&B294
1660 schalter=&B295
1670 symbasis=&B296
1680 cursor=&BB8A
1690 POKE schalter,0
1700 FOR i=0 TO 3:KEY DEF 72+i,1,
240+i:NEXT i:KEY DEF 76,1,224
1710 FOR i=0 TO 9:KEY i,CHR$(i+48
):NEXT i:KEY 11,CHR$(13)
1720 DIM blatt(24,16),kopie(24,16
)
1730 x=28:y=10:as=240
1740 ZONE 12
1750 FOR i=1 TO 5:PAPER#i,0:PEN#i
,1:NEXT i
1800 '** Bildaufbau **'
1810 MODE 1:PAPER 0:PEN 1
1820 a=1:b=1:lna=38:lnb=1:GOSUB 2
0:b=4:lna=6:lnb=2:GOSUB 20
1830 a=9:lna=3:GOSUB 20:a=14:lna=
16:GOSUB 20
1840 a=1:b=8:lna=24:lnb=16:GOSUB
20:a=27:lna=12:GOSUB 20
1850 LOCATE 22,4:PRINT CHR$(158):
LOCATE 16,5:PRINT"Ascii "CHR$(149
)
1860 LOCATE 15,6:PRINT"240-255"CH
R$(149):LOCATE 22,7:PRINT CHR$(15
5)
1870 LOCATE 34,5:PRINT"ZEDIT":LOC
ATE 33,6:PRINT"St.Aust"
1880 WINDOW#1,2,25,9,24:WINDOW#2,
28,39,9,24
1890 WINDOW#4,23,30,5,6:WINDOW#5,
2,39,2,2
1900 header#="Zeicheneditor von S
tefan M.Aust "+CHR$(164)+"1985"
1910 PRINT#5,header#;:GOSUB 70
1920 GOSUB 860
2000 '** Hauptmenue **'
2010 CLS#2:bef#=""123e"
2020 PRINT#2,,"Sie koennen:",")
Das",,"Arbeits-",,"blatt",,"
editieren",")Ein- und",,"Aus
gaben",,"taetigen",,"3) System-

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", "  menu", "  aufrufen"
2030 GOSUB 460:IF prog>0 THEN 208
0
2040 IF blatt THEN GOSUB 290:GOTO
2030
2050 IF x<28 THEN 2030 ELSE IF y>
11 AND y<16 THEN prog=1:GOTO 2080
2060 IF y>16 AND y<20 THEN prog=2
:GOTO 2080
2070 IF y>20 AND y<24 THEN prog=3
ELSE 2030
2080 ON prog GOSUB 2100,3500,4500
,5000
2090 GOTO 2000
2100 '*** Modul Edit ***'
2110 CLS#2:bef$="plfbvidskhae"
2120 PRINT#2,"P)unkt","L)inie","F
)uellen","B)ereich","  loeschen",
"V)erschiebenI)nvertierenD)rehen"
,"S)piegeln","K)opieren","H)olen"
,"A)bspeichernE)nde"
2130 po=9:ln=1:GOSUB 1280
2140 ende=0:GOSUB 460
2150 IF prog>0 THEN 2190
2160 IF blatt THEN IF ende THEN p
rog=1:GOTO 2190 ELSE GOSUB 290:GO
TO 2140
2170 IF y>21 THEN ende=0:prog=1:G
OTO 2190
2180 prog=y-8:IF prog>4 THEN prog
=prog-1
2190 GOSUB 1280:po=prog+8-(prog>4
):IF prog=4 THEN ln=2 ELSE ln=1
2200 GOSUB 1280
2210 ON prog GOTO 2220,2240,2360,
2410,2460,2540,2590,2830,3100,318
0,3250,3320
2220 '** Punkt **'
2230 GOTO 2140
2240 '** Linie **'
2250 rax=0:ray=0
2260 GOSUB 460:IF prog OR NOT bla
tt THEN 2150
2270 xa=xr:ya=yr:GOSUB 390
2280 GOSUB 460:GOSUB 430:IF prog
OR NOT blatt THEN 2150
2290 x1=xa:x2=xr:y1=ya:y2=yr
2300 IF x2-x1=0 THEN st=0:GOTO 23
40
2310 st=(y2-y1)/(x2-x1):IF ABS(st
)>1 THEN st=1/st:GOTO 2340
2320 FOR xr=x1 TO x2 STEP SGN(x2-
x1):yr=ROUND((xr-x1)*st+y1):GOSUB
240:NEXT xr
2330 GOTO 2240
2340 FOR yr=y1 TO y2 STEP SGN(y2-
y1):xr=ROUND((yr-y1)*st+x1):GOSUB
240:NEXT yr
2350 GOTO 2240
2360 '** Fuellen **'
2370 GOSUB 620:IF ende THEN 2150
2380 FOR yr=y1 TO y2:FOR xr=x1 TO
x2
2390 GOSUB 240:NEXT xr,yr
2400 GOTO 2360
2410 '** Bereich loeschen **'
2420 GOSUB 620:IF ende THEN 2150
2430 FOR yr=y1 TO y2:FOR xr=x1 TO
x2
2440 GOSUB 190:NEXT xr,yr
2450 GOTO 2410
2460 '** Verschieben **'
2470 GOSUB 780:IF ende THEN 2150
2480 FOR yr=ya TO ya+ray:FOR xr=x
a TO xa+rax
2490 kopie(xr,yr)=blatt(xr,yr):GO
SUB 190:NEXT xr,yr
2500 FOR yr=y1 TO y2:FOR xr=x1 TO
x2
2510 IF kopie(xr-x1+xa,yr-y1+ya)T
HEN GOSUB 240 ELSE GOSUB 190
2520 NEXT xr,yr
2530 GOTO 2460
2540 '** Invertieren **'
2550 GOSUB 620:IF ende THEN 2150
2560 FOR yr=y1 TO y2:FOR xr=x1 TO
x2
2570 GOSUB 290:NEXT xr,yr
2580 GOTO 2540
2590 '** Drehen **'
2600 bef$=bef$+"ru":LOCATE#2,1,15
:PRINT#2,"Rechts/LinksU)mkehren"
2610 art=0:GOSUB 460:IF prog<>0 A
ND prog<>2 AND prog<13 THEN 1340
2620 IF prog=13 THEN art=1 ELSE I
F prog=14 THEN art=3 ELSE IF prog
=2 THEN art=2
2630 IF art>0 THEN 2660
2640 IF blatt OR y<23 THEN 1340
2650 IF y=23 THEN IF x<34 THEN ar
t=1 ELSE art=2 ELSE art=3
2660 s=28:e=39:l=23:IF art=1 THEN
e=33 ELSE IF art=2 THEN s=35 ELS
E l=24
2670 PEN f.ba:FOR i=s TO e:LOCATE
i,l:CALL cursor:NEXT i
2680 GOSUB 620:IF prog<>0 AND pro
g<>2 AND prog<13 THEN 1340
2690 IF prog>0 OR(NOT blatt)THEN
PEN f.ba:FOR i=s TO e:LOCATE i,l:
CALL cursor:NEXT i:art=0:GOTO 262
0
2700 dx=(x2-x1)/2:dy=(y2-y1)/2
2710 zx1=INT(x1+dx-dy):zx2=INT(x2
-dx+dy):zy1=INT(y1+dy-dx):zy2=INT
(y2-dy+dx)
2720 IF art<3 THEN IF zx1<1 OR zx
2>24 OR zy1<1 OR zy2>16 THEN 1340
2730 FOR yr=y1 TO y2:FOR xr=x1 TO
x2
2740 kopie(xr,yr)=blatt(xr,yr):GO
SUB 190:NEXT xr,yr
2750 FOR yq=0 TO y2-y1:FOR xq=0 T
O x2-x1
2760 ON art GOTO 2770,2780,2790
2770 xr=zx2-yq:yr=zy1+xq:GOTO 280

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0
2780 xr=zx1+yq:yr=zy2-xq:GOTO 280
0
2790 xr=x2-xq:yr=y1+yq
2800 IF kopie(xq+x1,yq+y1)THEN GO
SUB 240 ELSE GOSUB 190
2810 NEXT xq,yq
2820 PEN f.ba:FOR i=s TO e:LOCATE
i,1:CALL cursor:NEXT i:GOTO 2610
2830 '** Spiegeln **'
2840 bef#=bef#+ "ruo":LOCATE#2,1,1
5:PRINT#2,"Oben /RechtsUnten/Link
s"
2850 art=0:GOSUB 460:IF prog<>0 A
ND prog<>2 AND prog<13 THEN 1340
2860 IF prog=2 THEN art=1 ELSE IF
prog>12 THEN art=prog-11
2870 IF art>0 THEN 2900
2880 IF blatt OR y<23 THEN 1340
2890 IF y=23 THEN IF x<33 THEN ar
t=4 ELSE art=2 ELSE IF x<33 THEN
art=3 ELSE art=1
2900 s=28:e=39:l=23:IF art&2<>art
/2 THEN l=24
2910 IF art>2 THEN e=32 ELSE s=34
2920 PEN f.ba:FOR i=s TO e:LOCATE
i,1:CALL cursor:NEXT i
2930 GOSUB 620:IF prog<>0 AND pro
g<>2 AND prog<13 THEN 1340
2940 IF prog>0 OR(NOT blatt)THEN
PEN f.ba:FOR i=s TO e:LOCATE i,1:
CALL cursor:NEXT i:art=0:GOTO 286
0
2950 xo=x2-x1:yo=y2-y1
2960 ON art GOTO 2970,2980,2990,3
000
2970 IF x1-xo-1<1 THEN 1340 ELSE
3010
2980 IF x2+xo+1>24 THEN 1340 ELSE
3010
2990 IF y2+yo+1>16 THEN 1340 ELSE
3010
3000 IF y1-yo-1<1 THEN 1340
3010 FOR yq=0 TO yo:FOR xq=0 TO x
o
3020 ON art GOTO 3030,3040,3050,3
060
3030 xr=x1-xq-1:yr=y1+yq:GOTO 307
0
3040 xr=x2+xo+1-xq:yr=y1+yq:GOTO
3070
3050 xr=x1+xq:yr=y2+yo+1-yq:GOTO
3070
3060 xr=x1+xq:yr=y1-yq-1
3070 IF blatt(xq+x1,yq+y1)THEN GO
SUB 240 ELSE GOSUB 190
3080 NEXT xq,yq
3090 PEN f.ba:FOR i=s TO e:LOCATE
i,1:CALL cursor:NEXT i:GOTO 2850
3100 '** Kopieren **'
3110 GOSUB 780:IF ende THEN 2150
3120 FOR yr=ya TO ya+ray:FOR xr=x
a TO xa+rax

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3130 kopie(xr,yr)=blatt(xr,yr):NE
XT xr,yr
3140 FOR yr=y1 TO y2:FOR xr=x1 TO
x2
3150 IF kopie(xr-x1+xa,yr-y1+ya)T
HEN GOSUB 240 ELSE GOSUB 190
3160 NEXT xr,yr
3170 GOTO 3100
3180 '** Holen **'
3190 GOSUB 1000:IF prog THEN 1340
3200 p=PEEK(symbasis)+PEEK(symbas
is+1)*256+(as-PEEK(symafter))*8
3210 rax=7:ray=7:GOSUB 700:IF end
e THEN 1340
3220 FOR yr=ya TO ya+ray:byte=PEE
K(p):FOR xr=xa TO xa+rax
3230 bit=2^(7-xr+xa):blatt(xr,yr)
=((byte AND bit)=bit):GOSUB 170
3240 NEXT xr:p=p+1:NEXT yr:GOTO 3
180
3250 '** Abspeichern **'
3260 GOSUB 1000:IF prog THEN 1340
3270 p=PEEK(symbasis)+PEEK(symbas
is+1)*256+(as-PEEK(symafter))*8
3280 rax=7:ray=7:GOSUB 700:IF end
e THEN 1340
3290 FOR yr=ya TO ya+ray:byte=0:F
OR xr=xa TO xa+rax
3300 bit=2^(7-xr+xa):byte=byte-bl
att(xr,yr)*bit:NEXT xr
3310 POKE p,byte:p=p+1:NEXT yr:GO
TO 3250
3320 '** Ende **'
3330 RETURN
3500 '*** Modul I/O ***'
3510 CLS#2:bef#="peatblz"
3520 PRINT#2,"P)unkt"," setzten",
"E)ingabe"," von Daten","A)usgab
e von Daten","T)extfile"," spei
chern","B)inaerdatei speichern",
"L)iste aller Zeichen","Z)urueck
"
3530 po=9:ln=2:GOSUB 1280
3540 ende=0:GOSUB 460
3550 IF prog>0 THEN 3590
3560 IF blatt THEN IF ende THEN p
rog=1:GOTO 3590 ELSE GOSUB 290:GO
TO 3540
3570 IF y<22 THEN prog=(y-7)&2 EL
SE prog=1
3580 prog=(y-7)&2
3590 GOSUB 1280:po=prog*2+7:GOSUB
1280
3600 ON prog GOTO 3610,3630,3720,
3830,4040,4180,4290
3610 '** Punkt **'
3620 GOTO 3540
3630 '** Eingabe von Daten **'
3640 rax=7:ray=7:GOSUB 700:IF end
e THEN 1380
3650 CLS#5:n=5:laenge=3:PRINT#5,"
A";:FOR yr=ya TO ya+ray
3660 GOSUB 920:IF s#=""THEN 1380

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3670 byte=VAL(s#):IF byte<0 OR byte>255 THEN 1380
3680 FOR xr=xa TO xa+rax:bit=2^(7-xr+xa)
3690 blatt(xr,yr)=((byte AND bit)=bit):GOSUB 170
3700 NEXT xr:LOCATE#5,(yr-ya)*4+6,1:NEXT yr
3710 GOTO 3630
3720 '** Ausgabe von Daten **'
3730 rax=7:ray=7:GOSUB 700:IF ende THEN 1380
3740 CLS#5:FOR yr=0 TO ray
3750 byte(yr)=0:FOR xr=0 TO rax:bit=2^(7-xr)
3760 byte(yr)=byte(yr)-blatt(xr+xa,yr+ya)*bit
3770 NEXT xr,yr
3780 PRINT#5,"A";:FOR i=0 TO 7:PRINT#5,USING"### ";byte(i):NEXT i
3790 WHILE INKEY#="" :WEND:CLS#5
3800 PRINT#5,"A";:FOR i=0 TO 7:PRINT#5,"%"HEX$(byte(i),2) ";:NEXT i
3810 WHILE INKEY#="" :WEND
3820 GOTO 3720
3830 '** Textfile speichern **'
3840 CLS#1:PRINT#1," Speichern der Zeichen":PRINT#1," als SYMBOL-Befehle"
3850 a=6:b=12:GOSUB 1410:IF ende THEN 4030
3860 LOCATE#1,1,8:n=1
3870 PRINT#1,"Filename:":laenge=12:GOSUB 920:IF s#="" THEN PRINT#1,CHR$(13)CHR$(18):GOTO 3870 ELSE name#=#s#+".TXT"
3880 PRINT#1
3890 PRINT#1,"Von ASCII...":laenge=3:GOSUB 920:IF s#="" OR VAL(s#)<PEEK(symafter) OR VAL(s#)>255 OR INT(VAL(s#))<>VAL(s#) THEN PRINT#1,CHR$(13)CHR$(18):GOTO 3890 ELSE start=VAL(s#)
3900 PRINT#1,"Bis ASCII...":laenge=3:GOSUB 920:IF s#="" OR VAL(s#)<start OR VAL(s#)>255 OR INT(VAL(s#))<>VAL(s#) THEN PRINT#1,CHR$(13)CHR$(18):GOTO 3900 ELSE schlus=VAL(s#)
3910 PRINT#1,"Ab Zeilennummer:":laenge=5:GOSUB 920:IF s#="" OR VAL(s#)<1 OR VAL(s#)>65535 OR INT(VAL(s#))<>VAL(s#) THEN PRINT#1,CHR$(13)CHR$(18):GOTO 3910 ELSE nr=VAL(s#)
3920 PRINT#1,"Schrittweite...":laenge=5:GOSUB 920:IF s#="" OR VAL(s#)<1 OR VAL(s#)>65535 OR nr+(schluss-start)*VAL(s#)>65535 OR INT(VAL(s#))<>VAL(s#) THEN PRINT#1,CHR$(13)CHR$(11)CHR$(20):GOTO 3910 ELSE st=VAL(s#)
3930 a=6:b=22:GOSUB 1410:IF ende THEN 4030
3940 WINDOW SWAP 0,1:CLS:LOCATE 1,4:PRINT"Insert Cassette":PRINT"and ";
3950 p=PEEK(symbasis)+PEEK(symbasis+1)*256+(start-PEEK(symafter))*8
3960 DEF FNz$(z)=MID$(STR$(z),2)
3970 OPENOUT name#
3980 FOR i=0 TO schlus-start
3990 zeile#=FNz$(nr)+" SYMBOL "+FNz$(start+i)
4000 FOR j=0 TO 7:zeile#=zeile#+","+FNz$(PEEK(p)):p=p+1:NEXT j
4010 PRINT#9,zeile#:nr=nr+st:NEXT i
4020 CLOSEOUT:WINDOW SWAP 0,1:prog=1
4030 GOSUB 90:GOTO 3550
4040 '** Binaerdatei speichern **'
4050 CLS#1:PRINT#1," Speichern der Zeichen":PRINT#1," als Binaerdatei"
4060 a=6:b=12:GOSUB 1410:IF ende THEN 4030
4070 LOCATE#1,1,8:n=1
4080 PRINT#1,"Filename:":laenge=12:GOSUB 920:IF s#="" THEN PRINT#1,CHR$(13)CHR$(18):GOTO 4080 ELSE name#=#s#+".BIN"
4090 PRINT#1
4100 PRINT#1,"Von ASCII...":laenge=3:GOSUB 920:IF s#="" OR VAL(s#)<PEEK(symafter) OR VAL(s#)>255 OR INT(VAL(s#))<>VAL(s#) THEN PRINT#1,CHR$(13)CHR$(18):GOTO 4100 ELSE start=VAL(s#)
4110 PRINT#1,"Bis ASCII...":laenge=3:GOSUB 920:IF s#="" OR VAL(s#)<start OR VAL(s#)>255 OR INT(VAL(s#))<>VAL(s#) THEN PRINT#1,CHR$(13)CHR$(18):GOTO 4110 ELSE schlus=VAL(s#)
4120 a=6:b=22:GOSUB 1410:IF ende THEN 4030
4130 WINDOW SWAP 0,1:CLS:LOCATE 1,4:PRINT"Insert Cassette":PRINT"and ";
4140 p=PEEK(symbasis)+PEEK(symbasis+1)*256+(start-PEEK(symafter))*8:l=(schluss-start)*8+8
4150 SAVE name#,B,p,l
4160 WINDOW SWAP 0,1:prog=1
4170 GOTO 4030
4180 '** Alle Zeichen listen **'
4190 CLS#1:PRINT#1,"Tabelle der Asciizeichen ab SYMBOL AFTER"PEEK(symafter):PRINT#1
4200 GOSUB 1000:IF prog>0 THEN 4280
4210 z=0:FOR zeichen=as TO 255

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4220 PRINT#1,USING"###";zeichen;
:PRINT#1,"&"HEX$(zeichen,2)" ";:
POKE schalter,255:PRINT#1,CHR$(1)
CHR$(zeichen);:POKE schalter,0
4230 z=z+1:IF(z MOD 2)=1 THEN PRI
NT#1," ";ELSE PRINT#1:PRINT#1
4240 IF z=12 THEN GOSUB 460:IF pr
og>0 OR NOT blatt THEN 4280 ELSE
z=0:LOCATE#1,1,4:PRINT#1,CHR$(20)
;
4250 NEXT zeichen
4260 WHILE INKEY#="" :WEND
4270 prog=1
4280 LOCATE#2,1,15:PRINT#2,CHR$(2
0);:GOTO 4030
4290 '** Zurueck **
4300 RETURN
4500 '*** Modul Systemmenue ***'
4510 CLS#1:bef#="ohv23cbrpawe"
4520 PRINT#1:PRINT#1,"0) Border"
FACE$(6)":":PRINT#1,"H) Hintergru
nd":":PRINT#1,"V) Vordergrund":":
PRINT#1,"2) Ink 2"SPACE$(7)":":PR
INT#1,"3) Ink 3"SPACE$(7)":":
4530 PRINT#1,"C) Cursorfarbe":":P
RINT#1,"B) Balkenfarbe":":PRINT#1
,"R) Rahmenfarbe":":PRINT#1,"P) P
unktfarbe":":
4540 PRINT#1,"A) Symbol after":":P
RINT#1,"W) Speed write":":
4550 PRINT#1:PRINT#1,"E) ENDE":po
=10
4560 FOR p=11 TO 1 STEP-1:ON p GO
SUB 4800,4810,4820,4830,4840,4850
,4860,4870,4880,4890,4900:LOCATE#
1,17,p+1:PRINT#1,USING"###";zahl:
NEXT p
4570 GOSUB 1510
4580 a$=INKEY$:IF a$=""THEN 4580
ELSE IF ASC(a$)AND 128 THEN 4600
4590 FOR i=1 TO LEN(bef$):IF LOWE
R$(a$)=MID$(bef$,i,1)THEN p=i:GOT
O 4780 ELSE NEXT i
4600 op=0:IF a$=CHR$(240)THEN IF
po>10 THEN op=-1
4610 IF a$=CHR$(241)THEN IF po<20
THEN op=1 ELSE 90
4620 IF a$=CHR$(242)AND zahl>zmin
THEN zahl=zahl-1
4630 IF a$=CHR$(243)AND zahl<zmax
THEN zahl=zahl+1
4640 p=po-9:IF op THEN ON p+op GO
SUB 4800,4810,4820,4830,4840,4850
,4860,4870,4880,4890,4900:GOSUB 1
510:po=po+op:GOTO 4570
4650 IF p=1 THEN f.bo=zahl:BORDER
zahl:GOTO 4760
4660 IF p=2 THEN f0=zahl:INK 0,za
hl:GOTO 4760
4670 IF p=3 THEN f1=zahl:INK 1,za
hl:GOTO 4760
4680 IF p=4 THEN f2=zahl:INK 2,za
hl:GOTO 4760
4690 IF p=5 THEN f3=zahl:INK 3,za
hl:GOTO 4760
4700 IF p=6 THEN f.cu=zahl:GOTO 4
760
4710 IF p=7 THEN GOSUB 1510:f.ba=
zahl:GOSUB 1510:GOTO 4760
4720 IF p=8 THEN f.ra=zahl:GOTO 4
760
4730 IF p=9 THEN f.pl=zahl:GOSUB
120:GOTO 4760
4740 IF p=10 THEN POKE schalter,2
55:SYMBOL AFTER zahl:POKE schalte
r,0:GOTO 4760
4750 IF p=11 THEN spwrite=zahl:SP
EED WRITE zahl
4760 LOCATE#1,17,po-8:PRINT#1,USI
NG"###";zahl
4770 GOTO 4580
4780 IF p=12 THEN 90
4790 ON p GOSUB 4800,4810,4820,48
30,4840,4850,4860,4870,4880,4890,
4900:GOSUB 1510:po=p+9:GOTO 4570
4800 zmin=0:zmax=26:zahl=f.bo:RET
URN
4810 zmin=0:zmax=26:zahl=f0:RETUR
N
4820 zmin=0:zmax=26:zahl=f1:RETUR
N
4830 zmin=0:zmax=26:zahl=f2:RETUR
N
4840 zmin=0:zmax=26:zahl=f3:RETUR
N
4850 zmin=1:zmax=3:zahl=f.cu:RETU
RN
4860 zmin=1:zmax=3:zahl=f.ba:RETU
RN
4870 zmin=1:zmax=3:zahl=f.ra:RETU
RN
4880 zmin=1:zmax=3:zahl=f.pl:RETU
RN
4890 zmin=0:zmax=255:zahl=PEEK(sy
mafter):RETURN
4900 zmin=0:zmax=1:zahl=spwrite:R
ETURN
5000 '*** Modul Ende ***'
5010 CLS#2
5020 LOCATE#2,1,3:PRINT#2,"PROGRA
MMENDE"
5030 LOCATE#2,1,8:PRINT#2,"Restar
t","durch 'CONT'"
5040 POKE schalter,255
5050 WINDOW SWAP 0,1:CLS
5060 END
5070 WINDOW SWAP 0,1
5080 GOSUB 90:RETURN

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