

Listing: Hexlader für das Textverarbeitungsprogramm

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1000 DATA ED,53,62,01,DD,6E,02,DD,66,03,36,F9,23,22,60,01,= 1547
1010 DATA 2A,62,01,EB,2A,60,01,A7,ED,52,E5,C1,EB,3E,20,ED,= 1989
1020 DATA B1,28,0E,ED,4B,62,01,2A,60,01,A7,ED,42,22,60,01,= 1382
1030 DATA C9,2B,E5,01,01,00,03,23,BE,28,FB,D1,97,B8,20,05,= 1575
1040 DATA 3E,03,B9,30,CE,EB,36,F8,23,71,23,70,23,EB,D5,E5,= 2048
1050 DATA E5,C1,2A,60,01,A7,ED,42,E5,C1,E1,ED,B0,E1,ED,53,= 2636
1060 DATA 60,01,18,AF,DD,6E,02,DD,66,03,ED,53,62,01,A7,ED,= 1778
1070 DATA 52,22,64,01,2A,62,01,3E,F9,ED,4B,64,01,ED,B1,C0,= 1688
1080 DATA 2B,22,60,01,2A,62,01,3E,F8,ED,4B,64,01,ED,B1,C0,= 1644
1090 DATA 2B,E5,23,4E,23,46,0B,0B,0B,0B,ED,43,66,01,2A,60,= 1079
1100 DATA 01,E5,09,22,60,01,EB,E1,C1,E5,A7,ED,42,E5,C1,E1,= 2369
1110 DATA ED,B8,ED,4B,66,01,03,03,36,20,E5,D1,13,ED,B0,18,= 1822
1120 DATA C3,54,20,55,20,4E,20,47,22,20,20,20,00,2F,00,A0,= 946
1130 DATA FE,03,C0,D5,DD,7E,02,4F,DD,7E,04,5F,E1,43,7E,00,= 1954
1140 DATA 00,00,CD,5A,BB,23,10,F6,0D,C8,18,F1,FE,02,C0,D5,= 1918
1150 DATA DD,7E,02,47,CD,69,BB,3E,00,00,00,00,CD,50,BC,E1,= 1677
1160 DATA CD,75,BB,C9,FE,01,C0,2A,87,AE,ED,4B,83,AE,C5,A7,= 2489
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1170 DATA ED,42,E5,C1,E1,7B,FE,5A,38,02,D6,20,C6,80,ED,B1,= 2461
1180 DATA 20,19,7E,FE,02,20,EE,2B,2B,7E,23,23,FE,00,20,E5,= 1506
1190 DATA 23,7E,23,4E,23,46,C5,E1,0E,01,5F,22,60,01,ED,43,= 1346
1200 DATA 62,01,ED,53,64,01,C9,FE,03,C0,DD,6E,02,DD,66,03,= 1829
1210 DATA A7,ED,52,E5,C1,EB,DD,7E,04,77,E5,D1,13,ED,B0,EB,= 2718
1220 DATA 36,F9,C9,FE,04,C0,EB,DD,7E,02,E5,4F,06,00,A7,ED,= 2256
1230 DATA 42,E5,D1,DD,4E,04,DD,46,05,A7,ED,42,E5,C1,E1,EB,= 2455
1240 DATA 03,ED,B8,DD,5E,04,DD,56,05,DD,6E,06,DD,66,07,DD,= 1943
1250 DATA 4E,02,06,00,ED,B0,C9,FE,03,C0,D5,EB,DD,5E,02,DD,= 2135
1260 DATA 56,03,A7,ED,52,E5,C1,DD,6E,04,DD,66,05,EB,ED,B0,= 2308
1270 DATA E1,A7,ED,52,E5,C1,EB,36,20,E5,D1,13,ED,B0,C9,20,= 2557
1280 DATA FE,04,C0,ED,53,64,01,3A,68,01,FE,00,20,0E,3C,32,= 1444
1290 DATA 68,01,DD,6E,04,DD,66,05,2B,22,60,01,ED,4B,60,01,= 1351
1300 DATA 03,C5,DD,6E,06,DD,66,07,A7,ED,42,E5,C1,E1,ED,5B,= 2312
1310 DATA 64,01,1A,ED,B1,20,1C,E5,C5,DD,46,02,05,97,B8,28,= 1700
1320 DATA 0D,ED,5B,64,01,13,1A,BE,20,E2,13,23,10,F8,0E,01,= 1268
1330 DATA E1,E1,2B,22,60,01,ED,43,62,01,C9,FE,04,C0,DD,46,= 1969
1340 DATA 06,3E,20,12,13,10,FC,DD,46,04,DD,6E,02,DD,66,03,= 1359
1350 DATA 7E,FE,20,38,0A,FE,7F,30,06,12,13,23,10,F2,C9,3E,= 1506
1360 DATA 20,18,F6,FE,04,C0,DD,6E,04,DD,66,05,E5,19,D5,C1,= 2075
1370 DATA EB,DD,6E,06,DD,66,07,A7,ED,52,D1,D8,DD,6E,02,DD,= 2367
1380 DATA 66,03,ED,B0,C9,FE,03,C0,DD,6E,02,DD,66,03,E5,A7,= 2223
1390 DATA ED,52,E5,C1,04,E1,3E,20,BE,20,08,2B,0D,20,F9,05,= 1636
1400 DATA 20,F6,C9,3E,F7,BE,28,01,23,36,E1,EB,3E,20,BE,CC,= 2056
1410 DATA 33,A0,DD,46,04,3E,E1,BE,28,38,3E,F7,BE,3E,20,20,= 1704
1420 DATA 06,23,05,20,22,18,E5,BE,23,20,06,BE,C5,CC,33,A0,= 1430
1430 DATA C1,10,E2,2B,3E,20,BE,23,28,D2,48,DD,46,04,2B,0C,= 1469
1440 DATA BE,28,03,10,F9,C0,41,05,23,48,CD,ED,9F,FE,00,C8,= 1922
1450 DATA 18,BA,36,20,E5,C1,DD,6E,02,DD,66,03,A7,ED,42,C5,= 2044
1460 DATA E5,C1,E1,E5,D1,13,ED,B0,ED,43,60,01,C9,E5,D1,97,= 2708
1470 DATA B9,C8,06,00,C5,DD,6E,02,DD,66,03,E5,C5,E5,7E,FE,= 2282
1480 DATA 20,28,12,E1,E1,E1,C1,22,60,01,3E,E1,ED,B9,3E,00,= 1860
1490 DATA C0,23,36,20,C9,2B,0D,20,E5,E1,C1,A7,ED,42,E5,A7,= 2115
1500 DATA ED,52,E5,C1,03,E1,D1,ED,B8,C1,36,20,E5,D1,13,ED,= 2572
1510 DATA B0,EB,C9,E5,3E,20,23,BE,28,FC,E5,DD,6E,02,DD,66,= 2337
1520 DATA 03,D1,A7,ED,52,E5,C1,E1,EB,D5,ED,B0,E1,C9,00,00,= 2632
1530 '
1540 SPEED WRITE 1:MODE 1:MEMORY &9CFF:adr=&9D00
1550 GOSUB 1710
1560 LOCATE 5,9:PRINT"Die Werte werden gespeichert."
1570 LOCATE 5,15:PRINT"Bitte warten Sie."
1580 zeile=990
1590 '
1600 zeile=zeile+10:IF zeile<>1530 THEN 1660
1610 MODE 1:GOSUB 1710:LOCATE 5,9:PRINT"M-Code ist geladen."
1620 LOCATE 5,15:PRINT"Startadresse: &9D00"
1630 LOCATE 11,17:PRINT"Laenge: &0350"
1640 LOCATE 1,22:SAVE"TEXT_&",B,&9D00,&350:END
1650 '
1660 pruef=0:FOR n=adr TO adr+15
1670 READ a$:a=VAL("&"+a$):POKE n,a:pruef=pruef+PEEK(n)
1680 NEXT
1690 READ a$:a=VAL(MID$(a$,3)):adr=n:IF a=pruef THEN 1600
1700 MODE 2:LOCATE 1,9:PRINT"FEHLER IN ZEILE";zeile:END
1710 PRINT"HEX-Lader CPC TEXT vers CS ";CHR$(&A4);" bf 04.85";
1720 PRINT STRING$(40,CHR$(&9A)):RETURN
1730 SAVE"hex-lader text"

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Listing: Basisteil „Textverarbeitung mit CPC 464“

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1000 INK 0,2:INK 1,20:BORDER 2:SPEED WRITE 1
1010 KEY 139,"goto 1180"+CHR$(13)
1020 '
1030 '*** Definition deutscher Umlaute ***
1040 SYMBOL AFTER 90
1050 SYMBOL 91,&5A,&3C,&66,&66,&7E,&66,&66,&0
1060 SYMBOL 92,&BA,&6C,&C6,&C6,&C6,&6C,&38,&0
1070 SYMBOL 93,&66,&0,&66,&66,&66,&66,&3C,&0
1080 SYMBOL 123,&48,&0,&78,&C,&7C,&CC,&76,&0
1090 SYMBOL 124,&24,&0,&3C,&66,&66,&66,&3C,&0
1100 SYMBOL 125,&44,&0,&66,&66,&66,&66,&3E,&0
1110 SYMBOL 126,&38,&6C,&6C,&6C,&66,&76,&6C,&60
1120 MEMORY 14989
1130 MODE 1:LOCATE 1,9:PRINT"C P C   T E X T V E R A R B E I T U N G"
1140 PRINT,,"vers  cs":LOCATE 10,23:PRINT"Bitte warten Sie."
1150 LOAD "!"+"text_",&9D00
1160 POKE &3A95,&1:POKE &3A96,67:POKE &3A97,10:'seite,xr,xl
1170 CALL &9E47,&20,&9C40,&3A98
1180 CLEAR:DEFINT b-g:DEFINT i-y
1190 spa=HIMEM+11:spe=&9C40:'Speicheranfang,ende
1200 '
1210 '*** M-Code Adressen ***
1220 kompr=&9D00
1230 expan=&9D64
1240 druck=&9DD0
1250 scroll=&9DEC
1260 string=&9E04
1270 sclear=&9E47
1280 einf=&9E63
1290 loesch=&9E97
1300 suche=&9EC0
1310 zeile=&9F1B
1320 block=&9F43
1330 form=&9F65
1340 '
1350 adrys=spa-4
1360 adrse=spa-3
1370 adrxr=spa-2
1380 adrxl=spa-1
1390 '
1400 DEF FNasp(x)=((x+ys*xr)+(seite*4800)+(10199-xr))
1410 '
1420 '*** Window und Rahmen ***
1430 INK 1,2:MODE 2:WINDOW#1,3,78,3,3:WINDOW#3,1,80,4,4
1440 WINDOW#5,71,79,3,3:WINDOW#6,1,80,25,25:WINDOW#7,1,80,5,24
1450 PRINT CHR$(&96);STRING$(78,CHR$(&9A));CHR$(&9C);CHR$(&95):LOCATE 80,2
1460 PRINT CHR$(&95);CHR$(&95):LOCATE 80,3:PRINT CHR$(&95);CHR$(&93);
1470 PRINT STRING$(78,CHR$(&9A));CHR$(&99)
1480 LOCATE 8,1:PRINT CHR$(&18);
1490 PRINT" C P C   T E X T V E R A R B E I T U N G   vers cs   ";
1500 PRINT CHR$(&A4);" bf  04.85 ";CHR$(&18)
1510 PRINT#6,STRING$(&50,CHR$(&9A));
1520 FOR n=1 TO 15:LOCATE #3,n*5,1:PRINT#3,CHR$(&C6)
1530 LOCATE #6,n*5,1:PRINT#6,CHR$(&C4):NEXT
1540 '
1550 INK 1,10:GOSUB 1590:GOSUB 1680:GOTO 1710
1560 '
1570 '*** Subprogramme ***
1580 '
1590 '*** Window #0
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1600 xr=PEEK(adrxr):xl=PEEK(adrxl):a=xl+xr-1:WINDOW#0,xl,a,5,24
1610 IF xl>1 THEN MOVE xl*8-12,18:DRAWR 0,314
1620 IF a<80 THEN MOVE a*8+4,18:DRAWR 0,314
1630 RETURN
1640 '*** INKEY$
1650 e$=INKEY$:IF e$="" THEN 1650 ELSE e=ASC(e$):RETURN
1660 '*** Peek &l60
1670 hl=PEEK(&l60)+256*PEEK(&l61):RETURN
1680 '*** Ausgabe 20 Zeilen
1690 INK 1,10:CLS:POKE adrys,&l:ys=1:seite=PEEK(adrse):x=1:y=1
1700 CALL druck,PEEK(adrxr),20,FNasp(1):RETURN
1710 '
1720 '*** Eingabe ***
1730 INK 1,20
1740 PRINT#1,"`CTRL`+ b): Menue e): Einf. l): L|schen s): Seite"
1750 seite=PEEK(adrse):ys=PEEK(adrys)
1760 LOCATE#1,57,1:PRINT#1,CHR$(&l8);"Seite/Zeile:";CHR$(&l8);
1770 GOSUB 2560:GOSUB 1590
1780 '
1790 LOCATE x,y:PRINT CHR$(&l6);CHR$(1);"_":LOCATE x,y:GOSUB 1650
1800 PRINT CHR$(&l6);CHR$(0);:IF e<&20 OR e>&7E THEN 1830
1810 PRINT e$;:POKE FNasp(x),e
1820 e=243:GOSUB 2290:GOTO 1790
1830 IF e>&EF AND e<&F8 THEN GOSUB 2270:GOTO 1790
1840 '
1850 '*** CTRL+ Befehle ***
1860 DATA &D,&7F,&E0,&9,&l0,&f9,&2,&05,&0c,&l3
1870 POKE adrse,seite:POKE adrys,ys
1880 RESTORE 1860:FOR z=1 TO 10:READ a:IF e=a THEN 1890 ELSE NEXT:GOTO 1790
1890 ON z GOSUB 1910,1930,1950,1970,2010,2030,2580,2050,2130,2220
1900 IF z>6 THEN GOTO 1710 ELSE GOTO 1790
1910 '*** ENTER
1920 e=241:GOSUB 2270:x=1:RETURN
1930 '*** DEL
1940 e=242:GOSUB 2270:LOCATE x,y:PRINT " ";:POKE FNasp(x),&20:RETURN
1950 '*** COPY k}nstl Space
1960 POKE FNasp(x),&90:e=243:GOSUB 2270:RETURN
1970 '*** TAB
1980 PRINT CHR$(PEEK(FNasp(x)));
1990 xx=x+(6+(5*(INT(x/5)-x/5))):IF xx<xr THEN x=xx
2000 RETURN
2010 '*** CLR Zeilenende
2020 POKE FNasp(x),&F7:e=241:GOSUB 2270:x=1:RETURN
2030 '*** Block Zeichen
2040 POKE FNasp(x),&E0:e=243:GOSUB 2270:RETURN
2050 '*** Einfuegen
2060 CLS#1:WINDOW#1,xl,(xl+xr-1),3,3
2070 LINE INPUT#1,"",b$:m=LEN(b$):CLS#1
2080 LOCATE #4,1,3:PRINT#4,CHR$(&95):LOCATE #4,80,3:PRINT#4,CHR$(&95)
2090 WINDOW#1,3,78,3,3:IF m=0 THEN RETURN
2100 CALL string,ASC("b"):GOSUB 1670
2110 CALL einf,hl,FNasp(x),m,seite*4800+spa-1
2120 LOCATE 1,y:CALL druck,xr,21-y,FNasp(1):RETURN
2130 '*** Loeschen
2140 IF lo=1 THEN 2190
2150 PRINT#1,"L\SCHEN Soll der gesamte Speicher gel|scht werden? (j/n)"
2160 GOSUB 1640:IF e$="j" THEN GOTO 1170
2170 PRINT#1,"L\SCHEN Bitte am Ende wieder `CTRL`+ l eingeben."
2180 lo=1:alsp=FNasp(x):z=1:RETURN
2190 lo=0:a=FNasp(x):IF alsp-a<=0 THEN RETURN
2200 CALL loesch,a,alsp,seite*4800+spa-1
2210 LOCATE 1,y:CALL druck,xr,21-y,FNasp(1):RETURN

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2220 '*** Seitenwahl
2230 CLS#1:INPUT#1,"SEITE Bitte geben Sie die Seitennummer an: ",seite
2240 IF seite>5 OR seite<1 THEN 2230
2250 POKE adrse,seite:GOSUB 1690:RETURN
2260 '
2270 '*** Cursorsteuerung ***
2280 PRINT CHR$(PEEK(FNasp(x)));
2290 ON (e-239) GOTO 2310,2360,2400,2410,2440,2470,2510,2530
2300 '
2310 IF ys>1 THEN ys=ys-1 ELSE RETURN
2320 GOSUB 2560:IF ys<20 THEN y=y-1:RETURN
2330 yss=ys:ys=ys-19:CALL scroll,0,&101:CALL druck,xr,1,FNasp(1):ys=yss
2340 RETURN
2350 '
2360 IF ys*xr<4800-xr THEN ys=ys+1 ELSE RETURN
2370 GOSUB 2560:IF y<20 THEN y=y+1:RETURN
2380 CALL scroll,1,&114:CALL druck,xr,1,FNasp(1):RETURN
2390 '
2400 IF x>1 THEN x=x-1:RETURN ELSE e=240:x=xr:GOTO 2290
2410 IF x<xr THEN x=x+1:RETURN ELSE e=241:x=1:GOTO 2290
2420 '
2430 '*** SHIFT + Cursor
2440 IF ys<31 THEN ys=1 ELSE ys=ys-30
2450 GOSUB 2570:ys=ys+19:GOSUB 2560:y=20:RETURN
2460 '
2470 IF ys=1 THEN ys=20
2480 IF (ys+20)*xr>4800 THEN ys=(INT(4800/xr))-19
2490 GOSUB 2570:x=1:y=20:ys=ys+19:GOSUB 2560:RETURN
2500 '
2510 IF x>10 THEN x=x-10 ELSE x=1
2520 RETURN
2530 IF x<xr-10 THEN x=x+10 ELSE x=xr
2540 RETURN
2550 '
2560 PRINT#5,seite;"/";USING"###";ys:RETURN
2570 LOCATE 1,1:CALL druck,xr,20,FNasp(1):RETURN
2580 '
2590 '*** Befehlsmenue/programme ***
2600 PRINT#1," 1)Rand 2)Block 3)Such 4)Forts";
2610 PRINT#1," 5)Druck 6)LOAD 7)SAVE 8)CAT 9)DEF"
2620 GOSUB 1650:IF e$<"1" OR e$>"9" THEN GOTO 2620 ELSE e=VAL(e$)
2630 ON e GOSUB 2650,2790,2860,2640,3060,3370,3280,2980,3020
2640 RETURN
2650 '*** R[NDER
2660 INPUT#1,"RAND linker Randwert (oder <ENTER>): ",a
2670 IF a<>0 AND a<61 THEN xl=a
2680 INPUT#1,"RAND rechter Randwert (oder <ENTER>): ",a
2690 IF a<>0 THEN xr=a ELSE xr=xr+xl-1
2700 IF xr-xl<19 THEN 2660
2710 CLS#7:x=1:xr=xr-xl+1:POKE adrxr,xr:POKE adrxl,xl:GOSUB 1590
2720 ys=1:FOR n=seite TO 5:PRINT#1,"FORMATIEREN Seite";n
2730 seite=n+1:a=FNasp(1)-1:seite=n
2740 CALL form,xr,a,FNasp(1)
2750 GOSUB 1660:IF hl=0 THEN 2780 ELSE POKE adrse,seite
2760 PRINT#1,"FORMATIEREN abgebrochen! (Speicherplatzmangel)"
2770 GOSUB 1680:INK 1,20:GOSUB 1640:RETURN
2780 NEXT:GOSUB 1680:RETURN
2790 '*** Block
2800 hl=spa-1:GOSUB 2850:a=hl:IF PEEK(&162)=0 THEN GOTO 2840
2810 GOSUB 2850:IF PEEK(&162)=0 THEN GOTO 2840
2820 POKE a,&20:POKE hl,&20:CALL block,spe,FNasp(x),a+1,hl-a
2830 GOSUB 1680:RETURN

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2840 PRINT#1,"BLOCK      nicht definiert!":GOSUB 1640:RETURN
2850 POKE &168,0:POKE &70,&E0:CALL suche,spe,hl+1,1,&70:GOSUB 1670:RETURN
2860 '*** Suchen/Ersetzen ***
2870 PRINT#1,"SUCHEN      Suchwort: ";:LINE INPUT#1,s$
2880 PRINT#1,"ERSETZEN    Suchwort wird ersetzt durch: ";:LINE INPUT#1,c$
2890 IF e$="" OR c$="" THEN RETURN
2900 POKE &168,0:INK 1,10:PRINT#1,"SUCHEN / ERSETZEN"
2910 CALL string,ASC("s"):GOSUB 1660:sadr=hl
2920 CALL string,ASC("c"):GOSUB 1660:cadr=hl
2930 CALL suche,spe,spa,LEN(s$),sadr
2940 IF PEEK(&162)=0 THEN seite=1:GOTO 2720
2950 GOSUB 1660:CALL loesch,hl,hl+LEN(s$),spe
2960 CALL einf,cadr,hl,LEN(c$),spe
2970 GOTO 2930
2980 '*** CAT
2990 PRINT#1,"CAT      Bitte 2x 'ESC', um im Programm fortzufahren."
3000 CLS:ON BREAK GOSUB 3010:CAT:CLS:GOSUB 1680:RETURN
3010 ON BREAK STOP:RETURN
3020 '*** DEF
3030 PRINT#1,"DEFiniere Taste '.': ";:LINE INPUT#1,a$
3040 KEY 138,a$:RETURN
3050 '
3060 '*** Druck
3070 WIDTH 80:PRINT#8,CHR$(&F);
3080 POKE adrys,ys:POKE adrse,seite
3090 PRINT#1,"DRUCKEN"TAB(13)"1) Drucken  2) Fortsetzung"
3100 GOSUB 1650:IF e$<"1" OR e$>"2" THEN 3100 ELSE e=VAL(e$)
3110 ON e GOSUB 3130,3120
3120 RETURN
3130 a$="Seite"+STR$(seite)
3140 PRINT#1,"  1) ";a$;"  2) ";a$;" bis CURSOR  3) ";a$;" ab CURSOR"
3150 GOSUB 1650:IF e$<"1" OR e$>"3" THEN 3150 ELSE e=VAL(e$)
3160 PRINT#1,"DRUCKEN"TAB(13);
3170 ON e GOSUB 3250,3260,3270
3180 k$=STRING$(80," "):CALL string,ASC("k"):GOSUB 1660
3190 FOR ys=ys TO yd
3200 CALL zeile,xl,xr,FNasp(1),hl
3210 PRINT#8,k$
3220 NEXT ys
3230 RETURN
3240 '
3250 PRINT#1,a$:ys=1:yd=4800/xr:RETURN
3260 PRINT#1,a$;" bis CURSOR Zeile":yd=ys:ys=1:RETURN
3270 PRINT#1,a$;" ab CURSOR Zeile":yd=(4800/xr):RETURN
3280 '
3290 '*** SAVE ***
3300 CLS:INK 1,10:PRINT#1,"KOMPAKTOR      arbeitet."
3310 CALL kompr,spe+1,spa-10:GOSUB 1670:n=FRE(""):INK 1,20
3320 INPUT#1,"SAVE      Bitte geben Sie den Dateinamen an: ",dat$
3330 PRINT#1,"SAVE      Anzahl der Bytes: ";hl;"      Blocks: ";INT(hl/2048)+1
3340 PRINT:SAVE dat$,B,spa-10,hl
3350 INK 1,10:PRINT#1,"EXPANDER      arbeitet."
3360 CLS:CALL expan,spe,spa-10:GOTO 1180
3370 '
3380 '*** LOAD ***
3390 PRINT#1,"LOAD      M)enue      oder      L)oad"
3400 GOSUB 1650:IF e$<>"1" AND e$<>"L" THEN RETURN
3410 CLS:INPUT#1,"LOAD      Dateiname: ",dat$:dat$=dat$+STRING$(16," ")
3420 CALL sclear,&20,spe,spa:WINDOW SWAP 0,1:LOAD dat$,spa-10
3430 WINDOW SWAP 0,1:GOTO 3350
3440 '
3450 SAVE"TEXT_CS":SAVE"!TEXT_&",B,&9D00,&350

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