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10 ' D.I.Y. TYPEWRITER by IVOR SPITAL
20 ' **** (c) AMSTRAD PLC. 1984 ****
30 '
40 DEFINT F,I,P,S,X:KEY DEF 18,1:KEY 139,"CLG:GOTO 1170"+CHR$(13)
50 ON ERROR GOTO 130:KEY 140,"":KEY DEF 68,1,140
60 MODE 2:BORDER 26:INK 0,26:INK 1,13:PAPER 0:PEN 1:GOSUB 1340
70 OPENOUT "FILEBUF":MEMORY HIMEM-1:CLOSEOUT
80 SOUND 1,20:PRINT #4,"DO YOU WANT TO LOAD AN EXTERNAL FILE (Y/N)?"
90 FS=INKEY$:IF FS="" THEN 90
100 IF UPPER$(FS)="Y" THEN 140
110 IF UPPER$(FS)="N" THEN 190
120 GOTO 90
130 SOUND 1,200:PRINT #4,"INVALID ENTRY!":FOR T=1 TO 2000:NEXT:RESUME
140 SOUND 1,20:INPUT #4,"ENTER NAME OF FILE ";GS
150 SOUND 1,20:PRINT #4,"INSERT DISC OR CASSETTE FILE THEN PRESS ANY KEY"
160 IF INKEY$="" THEN 160
170 WINDOW SWAP 0,4:OPENIN GS:INPUT #9,L,PW:MXL=INT(70000/PW):DIM TEXT$(MXL)
180 FOR X=1 TO L:INPUT #9,TEXT$(X):NEXT:CLOSEIN:WINDOW SWAP 0,4:GOTO 1170
190 SOUND 1,20:INPUT #4,"ENTER PRINTER WIDTH (10-70)";PW
200 IF PW<10 OR PW>70 THEN 190
210 MXL=INT(70000/PW):DIM TEXT$(MXL):F=0:B=24:K=0:GOSUB 1340
220 GOSUB 270:FOR X=1 TO MXL:GOSUB 1490:IF F=1 THEN 1170
230 IF K=1 THEN 250
240 NEXT
250 SOUND 1,200:PRINT #4,"CANNOT CONTINUE - NUMBER OF LINES EXHAUSTED"
260 FOR T=1 TO 3000:NEXT:GOTO 1170
270 PRINT #4,"E=END TEXT"
280 PRINT #2,STRING$(23,60);:RETURN
290 '
300 'PRINT-OUT
310 '
320 IF L=0 THEN 1310
330 SOUND 1,20:PRINT #4,"PRINT-OUT FULL DOCUMENT (Y/N)?"
340 H=0:BS=INKEY$:IF BS="" THEN 340
350 IF UPPER$(BS)="Y" THEN START=1:FINISH=L:GOTO 390
360 IF UPPER$(BS)="N" THEN GOSUB 1630
370 IF H=1 THEN 390
380 GOTO 340
390 PRINT #4,"PRINTER IS NOT ON-LINE":SOUND 1,200:PRINT #8,CHR$(13);
400 SOUND 129,0:WIDTH PW:CLG:FOR X=START TO FINISH:PRINT #4,"LINE";X
410 PRINT #8,TEXT$(X):GOSUB 1390:NEXT
420 SOUND 1,20:PRINT #4,"REPEAT PRINT-OUT (Y/N)?"
430 CS=INKEY$:IF CS="" THEN 430
440 IF UPPER$(CS)="Y" THEN 390
450 IF UPPER$(CS)="N" THEN 1170
460 GOTO 430
470 '
480 ' DISPLAY
490 '
500 CLG:IF L=0 THEN 1310
510 SOUND 1,20:CLS#4:LOCATE #4,20,1:PRINT #4,1;SPC(3)"[ENTER]":LOCATE #4,1,1
520 INPUT #4,"DISPLAY FROM LINE ";START:IF START=0 THEN START=1
530 IF START>L OR START<0 THEN 510
540 PRINT #4,"HOLD DOWN SPACE BAR TO DISPLAY"SPC(35)"Q=QUIT DISPLAY";
550 SOUND 1,20:FOR X=START TO L
560 ES=INKEY$:IF ES="" THEN 560
570 IF ES=" " THEN 600
580 IF UPPER$(ES)="Q" THEN 1170
590 GOTO 560
600 GOSUB 1390:NEXT:GOTO 1170
610 '
620 ' RETYPE
630 '
640 IF L=0 THEN 1310
650 SOUND 1,20:INPUT #4,"ENTER LINE NUMBER TO RETYPE ";X
660 IF X<1 OR X>L THEN 650
670 PAPER #3,1:PEN #3,0:GOSUB 1390:LOCATE #3,1,24:LOCATE #0,1,24

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680 PRINT #3,"RETYPE:>";:GOSUB 280:PAPER #3,0:PEN #3,1
690 LINE INPUT #0,"",TEXT$(X):CLG:GOSUB 1390:GOTO 1170
700 '
710 ' ADD
720 '
730 IF L=0 THEN 1310
740 CLG:IF L>5 THEN S=(L-4) ELSE S=1
750 FOR X=S TO L:GOSUB 1390:NEXT:GOSUB 270
760 F=0:B=24:FOR X=(L+1) TO MXL:GOSUB 1490:IF F=1 THEN 1170
770 IF K=1 THEN 250
780 NEXT:GOTO 250
790 '
800 ' STORE
810 '
820 IF L=0 THEN 1310
830 SOUND 1,20:INPUT #4,"ENTER CHOSEN NAME FOR FILE ";GS
840 SOUND 1,20:PRINT #4,"INSERT DISC OR CASSETTE FILE THEN PRESS ANY KEY"
850 IF INKEY$="" THEN 850
860 WINDOW SWAP 0,4:OPENOUT GS:WRITE #9,L,PW:FOR X=1 TO L
870 WRITE #9,TEXT$(X):NEXT:CLOSEOUT:WINDOW SWAP 0,4:GOTO 1170
880 '
890 ' INSERT
900 '
910 IF L=0 THEN 1310
920 SOUND 1,20:INPUT #4,"INSERT AFTER WHICH LINE NUMBER ";START
930 IF START<0 OR START>L THEN 920
940 SOUND 1,20:INPUT #4,"INSERT HOW MANY LINES (50 MAX) ";I:IF I>50 THEN 940
950 FOR X=L TO START+1 STEP -1:TEXT$(X+I)=TEXT$(X):NEXT:L=L+I
960 FOR X=START+1 TO START+I:TEXT$(X)="" :NEXT:CLG
970 PRINT #4,"LINES INSERTED ="I:FOR T=1 TO 1000:NEXT:Y=L
980 SOUND 1,20:PRINT #4,"DO YOU WANT TO TYPE INTO THE INSERT? (Y/N)"
990 IS=INKEY$:IF IS="" THEN 990
1000 IF UPERS$(IS)="Y" THEN 1030
1010 IF UPERS$(IS)="N" THEN 1170
1020 GOTO 990
1030 IF START>5 THEN V=(START-4) ELSE V=1
1040 FOR X=V TO START:GOSUB 1390:NEXT:GOSUB 270
1050 F=0:B=24:FOR X=START+1 TO START+I:GOSUB 1490:L=Y
1060 IF F=1 THEN TEXT$(X)="" :GOTO 1170
1070 IF K=1 THEN 250
1080 NEXT:SOUND 1,20:PRINT #4,"INSERT FILLED":FOR T=1 TO 2000:NEXT:GOTO 1170
1090 '
1100 ' CUT
1110 '
1120 IF L=0 THEN 1310
1130 GOSUB 1650:PRINT #4,SPC(45)"CUTTING IN PROGRESS - PLEASE WAIT"
1140 FOR N=1 TO (FINISH-START)+1:FOR X=START TO L:TEXT$(X)=TEXT$(X+1):NEXT
1150 L=L-1:LOCATE #4,1,1:PRINT #4,"RE-LOCATING LINE";X SPC(3):NEXT:CLG
1160 '
1170 ' MENU
1180 '
1190 GOSUB 1340:SOUND 1,20:PRINT #4,"SELECT:>";
1200 PRINT #4,TAB(12)"D=DISPLAY P=PRINT-OUT R=RETYPE ";
1210 PRINT #4,"A=ADD C=CUT S=STORE I=INSERT"
1220 AS=INKEY$:IF AS="" THEN 1220
1230 IF UPERS$(AS)="D" THEN 480
1240 IF UPERS$(AS)="P" THEN 300
1250 IF UPERS$(AS)="R" THEN 620
1260 IF UPERS$(AS)="A" THEN 710
1270 IF UPERS$(AS)="C" THEN 1100
1280 IF UPERS$(AS)="S" THEN 800
1290 IF UPERS$(AS)="I" THEN 890
1300 GOTO 1220
1310 SOUND 1,200:PRINT #4,"NOTHING ENTERED IN MEMORY"
1320 FOR T=1 TO 2000:NEXT:GOTO 740
1330 '

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1340 ' DEFINE WINDOWS
1350 '
1360 WINDOW #0,9,(PW+8),3,25:WINDOW #2,(PW+9),(PW+9),3,25:WINDOW #3,1,8,3,25
1370 WINDOW #4,1,79,1,1:PAPER #4,1:PEN #4,0:CLS#4:RETURN
1380 '
1390 ' DISPLAY SUBROUTINE
1400 '
1410 LOCATE #0,1,24:LOCATE #3,1,24
1420 PRINT #3,X;:PRINT #3,TAB(8)">";:LT=LEN(TEXT$(X))
1430 IF INT(LT/PW)=LT/PW AND LT>0 THEN PRINT #0,TEXT$(X);
1440 IF INT(LT/PW)<>LT/PW OR LT=0 THEN PRINT #0,TEXT$(X)
1450 IF INT(LT/PW)<>LT/PW AND LT>PW THEN FOR N=1 TO INT(LT/PW):PRINT #3:NEXT
1460 IF INT(LT/PW)=LT/PW AND LT>PW THEN FOR N=1 TO (INT(LT/PW)-1):PRINT #3:NEXT
1470 RETURN
1480 '
1490 ' LINE INPUT SUBROUTINE
1500 '
1510 COUNT=INT((FRE(0)-1000)/PW)
1520 IF COUNT<1 THEN CLS#2:CLS#3:K=1:RETURN
1530 LOCATE #4,44,1:PRINT #4,"NUMBER OF LINES REMAINING ="COUNT;SPC(3)
1540 LOCATE #3,1,24:LOCATE #0,1,B
1550 PRINT #3,X;:PRINT #3,TAB(8)">";:LINE INPUT #0,"",TEXT$(X)
1560 L=X:IF UPPER$(TEXT$(X))="E" THEN L=X-1:F=1:RETURN
1570 LT=LEN(TEXT$(X)):B=24
1580 IF INT(LT/PW)=LT/PW AND LT>0 THEN B=23
1590 IF INT(LT/PW)=LT/PW AND LT>PW THEN FOR N=1 TO (INT(LT/PW)-1):PRINT #3:NEXT
1600 IF INT(LT/PW)<>LT/PW AND LT>PW THEN FOR N=1 TO INT(LT/PW):PRINT #3:NEXT
1610 RETURN
1620 '
1630 ' START/FINISH SUBROUTINE
1640 '
1650 SOUND 1,20:INPUT #4,"COMMENCING LINE NUMBER ";START
1660 IF START<1 OR START>L THEN 1650
1670 SOUND 1,20:INPUT #4,"FINAL LINE NUMBER ";FINISH
1680 IF FINISH<START OR FINISH>L THEN 1670
1690 H=1:RETURN

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