

```
10 ^ CPC DBase
15 ^ The Amstrad User
20 MEMORY 42500
30 DEFSTR a,z:field1=9
40 KEY DEF bb,1,32,32,32
50 DIM field$(9):DIM z(5)
60 CLOSE:OPEN 1:INK 1,8:INK 8,24:BORDER 24:MODE 1:LOAD
TE 17,1:INK 2,2:PRINT "CPCDBASE":WINDOW 1,48,5,25:WINDOW
#1,1,48,3,3:INK 3,6:WINDOW #2,1,48,25,25
70 ON BREAK GOSUB 2910
80 IF PEEK(43981)<>237 AND PEEK(43981)<>238 THEN GOSUB
2650
90 IF PEEK(43981)=238 THEN INK 2,8:INK 3,14
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100 PRINT#, "MENU MODE":PRINT"Select from":PRINT
110 RESTORE:FOR g=1 TO 8:READ a
120 PRINT:PRINT"("MID$(STR$(g),2,1)")":a=INKEY$()
130 DATA Field entry,Record entry,List or order present
file>Edit or delete a record,Save file/fields only,Loa
d file/fields only,Erase file,Exit program
140 WHILE INKEY$()="" :NEXT
150 a="":WHILE a<"1"OR a>"8":a=INKEY$:NEXT
160 ON VAL(a)GOTO 100,348,568,1378,1758,2228,2658,2718
170
180
190 CLS:PRINT#1,"FIELD ENTRY MODE"
200 LINE INPUT "Enter title of file":title$:IF LEN(title$)>28 THEN PRINT"TITLE TOO LONG.":GOTO 200
210 IF title$="" THEN title$="Unnamed file"
220 title$=UPPER$(title$):CLS:PRINT title$:WINDOW 1,48,
7,25:FOR g=1 TO field1
230 PRINT"Enter field no."MID$(STR$(g),2,1)":LINE IN
PUT field$(g)
240 IF LEN(field$(g))>28 THEN PRINT"FIELD TOO LONG.":GO
TO 230
250 IF RIGHTS$(field$(g),1)!=":"THEN field$(g)=LEFT$(fiel
d$(g),LEN(field$(g))-1)
260 IF field$(g)="" THEN PRINT"INVALID ENTRY.":GOTO 230
270 IF g=field1 GOTO 320
280 PRINT:PRINT"Another field? (Y/N)"
290 WHILE INKEY$()="" :NEXT
300 a="":WHILE a<"Y" AND a>"N":a=UPPER$(INKEY$()):NEXT
310 IF a="Y" THEN CLS:NEXT
320 field#g
330 WINDOW 1,48,5,25:CLS:GOTO 100
340
350
360
370 IF field#0 THEN PRINT#2,"NO FIELDS HAVE YET BEEN EN
TERED.":FOR pause=1 TO 1500:NEXT:CLS#2:GOTO 140
380 IF st#1 GOTO 410 ELSE st#1
390 num=INT(FRE("")/(field#38))
400 DIM rec#(num,field)
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418 PRINT#1,"DATA ENTRY MODE"
420 WINDOW 63,21,48,5,5:CLS:PRINT title#:WINDOW 1,48,7,
25
430 FOR g=g+1 TO num
440 CLS
450 PRINT#3,"Record#g:FOR h=1 TO field
455 PEN 2:PRINT field$(h):";:PEN 3:LINE INPUT rec$(g,h)
):PEN 1
470 IF LEN(rec$(g,h))>60 THEN PRINT"ENTRY TOO LONG.":GOTO
TO 460
480 NEXT:PRINT:PRINT"Enter another record? (Y/N) "
490 WHILE INKEY$()<>"":WEND
500 a="" WHILE a<>"Y" AND a<>"N":a=UPPER$(INKEY$):WEND
510 IF a="Y"THEN NEXT
520 rec=g:field=g:field
530 GOTO 460
540 PRINT"NO ROOM FOR ANY MORE RECORDS.":rec$(g,1)=""":F
OR h=1 TO field:rec$(g,h)=""":NEXT:inum=g:GOTO 180
550 '
560 '
565 '
570 IF rec=0 THEN PRINT#2,"NO RECORDS HAVE YET BEEN ENT
ERED.":FOR pause=1 TO 1500:NEXT:CLS#2:GOTO 140
580 PEN 1:WINDOW 1,48,5,25:CLS:PRINT#1,"LIST/ORDER FILE
MODE"
590 PRINT"Select from:";PRINT
600 RESTORE 610:PRINT:FOR g=1 TO 5:READ a1:PRINT"("RIGHT
$(STR$(g),1))":a1:PRINT
610 NEXT
620 DATA List all records,List certain fields of all re
cords,Search through file,Order file,Return to main men
u
630 WHILE INKEY$()<>"":WEND
640 a="" WHILE a<>"1" OR a<>"5":a=INKEY$:WEND
650 IF a="5":GOTO 68
660 ON VAL(a)GOTO 688,770,968,1238,68
670 '
680 '
685 '
690 CLS:PRINT Title#:PRINT#2," PRESS SPACE BAR TO STOP,
ESC TO PAUSE":WINDOW 1,48,7,23
700 FOR g=1 TO rec:PRINT:PRINT"RECORD#g
710 FOR h=1 TO field
720 PEN 2:PRINT field$(h):";:PEN 3:PRINT LEFT$(rec$(g,
h),39-LEN(field$(h))):MID$(rec$(g,h),40-LEN(field$(h)),
48)
730 IF INKEY=" "GOTO 588
740 PEN 1:NEXT:NEXT
750 GOTO 2780
760 '
770 '
775 '
780 LINE INPUT"Type in the number(s) of the fields to
be listed: ",a
790 IF a=""THEN GOTO 830

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810 FOR g=1 TO LEN(a):IF MID$(a,g,1)>"8"AND MID$(a,g,1
)<="9"THEN NEXT:GOTO 820 ELSE 830
820 IF VAL(a)=0 THEN GOTO 830 ELSE 840
830 PRINT"INVALID ENTRY.":GOTO 790
840 IF LEN(a)=1 THEN IF VAL(a)<field THEN PRINT"THESE A
RE NOT THIS MANY FIELDS.":GOTO 790 ELSE 840
850 FOR g=1 TO LEN(a):IF VAL(MID$(a,g,1))<field THEN N
EXT:GOTO 840 ELSE PRINT"THESE ARE NOT THIS MANY FIELDS.
":GOTO 790
860 CLS:PRINT Title#:WINDOW 1,48,7,23
870 PRINT#2," PRESS SPACE BAR TO STOP, ESC TO PAUSE"
880 FOR g=1 TO rec
890 FOR h=1 TO LEN(a)
900 temp=VAL(MID$(a,h,1))
910 PEN 2:PRINT field$(temp1):";:PEN 3:PRINT LEFT$(rec
$(g,temp1),39-LEN(field$(h))):MID$(rec$(g,temp1),40-LEN
(field$(temp1)),48)
920 IF INKEY=" "THEN GOTO 588
930 NEXT:NEXT:PRINT:GOTO 2780
940 END
950 '
960 '
965 '
970 RESTORE 990
980 CLS
990 FOR g=1 TO 5:READ a1
1000 PRINT"Enter the "RIGHT$(STR$(g),1);a1" piece of da
ta to be found:":;LINE INPUT z(g)
1010 IF z(g)=""THEN PRINT"INVALID ENTRY.":GOTO 1000
1020 DATA st,nd,rd,th,th
1030 IF g=5 THEN 1070 ELSE PRINT"Do you want to search
for other data simultaneously? (Y/N) "
1040 WHILE INKEY$()<>"":WEND
1050 a="" WHILE a<>"Y" AND a<>"N":a=UPPER$(INKEY$):WEND
1060 IF a="Y":CLS:NEXT
1070 CLS:temp=g
1080 flagA=0
1090 FOR g=1 TO rec:flagB=0
1100 a1=""
1110 FOR h=1 TO field
1120 a1=a1+rec$(g,h)+" "
1130 NEXT
1140 FOR h=1 TO temp:IF INSTR(a1,z(h))>0 THEN flagB=fla
gB+1:IF flagB=temp THEN flagA=flagA+1:GOTO 1170 ELSE NE
XT
1150 flag3=1:GOTO 1210
1160 IF flagA=0 GOTO 1190 ELSE IF g>rec THEN PRINT:PRIN
T:GOTO 2780
1170 IF flagA=1 THEN PRINT title#:WINDOW 1,48,7,23
1180 PRINT:PRINT"RECORD#g:FOR h=1 TO field:OPEN 2:PRINT
field$(h):";:PEN 3:PRINT LEFT$(rec$(g,h),39-LEN(field#
(h))):MID$(rec$(g,h),40-LEN(field$(h)),48):PEN 1:NEXT:G
OTO 1210
1190 PRINT"No record was found containing ";FOR h=1 TO
temp:PRINT z(h);:IF temp=1 THEN PRINT":":GOTO 2780 ELS

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E IF h=temp-1 THEN PRINT" and "z(h+1)":;GOTO 2788
1288 PRINT", ";:NEXT:GOTO 2788
1289 NEXT g:IF flag5=0 THEN PRINT:PRINT:GOTO 2788 ELSE
flag5=0:GOTO 1168
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*** (4B) DELETE A RECORD ***
*
ove fol
save a blank record
*
1618 WHILE INKEY$()**:WEND
1628 a="" :WHILE a<>"M"AND a<>"L":a=UPPER$(INKEY$):WEND
1638 IF a="L"THEN flag#1 ELSE flag#0
1648 CLS
1658 LINE INPUT"Enter number of record to be deleted:",a
IF a=""THEN 1728
1668 FOR g=1 TO LEN(a):IF MID$(a,g,1)<"0"AND MID$(a,g,1)>"9"THEN 1728 ELSE NEXT
1678 IF VAL(a)=0 THEN 1728
1688 IF VAL(a)>rec THEN PRINT"THESE ARE NOT THIS MANY R
ECORDS.":GOTO 1658
1698 FOR g=1 TO field:rec#=rec$(g+1,h)=rec$(g+1,h)+rec
$g,h:rec#g,h=rec$(g+1,h):NEXT:g=NEXT:h=rec-1:GOTO 17
18
1708 FOR g=1 TO field:rec#(VAL(a),g)="" :NEXT
1718 PRINT:PRINT:PRINT"Record "a" has been deleted.":FD
R g=1 TO 1580:NEXT:GOTO 68
1728 PRINT"INVALID ENTRY.":GOTO 1658
1738 '
1748 '
*** (5) SAVE FILE/FIELDS ON
LY ***
1758 IF field=0 THEN PRINT#2,"NO FIELDS HAVE YET BEEN E
NTERED.":FOR pause=1 TO 1580:NEXT:PRINT#2:GOTO 148
1768 CLS:PRINT#1,"SAVE FILE/FIELDS MODE":PRINT"Select f
rom:":PRINT:PRINT:PRINT"(1) Save whole file":PRINT:PRIN
T"(2) Save the fields alone"
1778 WHILE INKEY$()**:WEND
1788 a="" :WHILE a<>"1"AND a<>"2":a=INKEY$:WEND
1798 IF rec#0 AND a="1"THEN PRINT#2,"NO RECORDS HAVE YE
T BEEN ENTERED.":FOR pause=1 TO 1580:NEXT:GOTO 68
1808 PRINT:PRINT"Saving speed Fast or Normal? (F/
N)"
1818 WHILE INKEY$()**:WEND
1828 a="" :WHILE a<>"F"AND a<>"N":a=UPPER$(INKEY$):W
END
1838 IF a="N"THEN SPEED WRITE 0 ELSE SPEED WRITE 1
1848 IF a="2":GOTO 2858
1858 '
1868 '
*** (5A) SAVE WHOLE FILE **
*
1878 CLS:PRINT"Press play and record on the tape, **and
**then press the ENTER key."
1888 WHILE INKEY$()**:WEND
1898 WHILE INKEY$()CHR$(13):WEND:PRINT:PRINT"SAVING "ti
tle".
1908 ON BREAK GOSUB 2918

```

1910 OPENOUT("!Extras")
1920 PRINT#9,title\$;PRINT#9,field\$;PRINT#9,rec\$;CLOSEOUT
1930 OPENOUT("!Fields")
1940 FOR q=1 TO field\$;PRINT#9,field\$(q);NEXT;CLOSEOUT
1950 OPENOUT("!Records");FOR q=1 TO rec\$:FOR h=1 TO field\$;PRINT#9,rec\$(q,h);NEXT;NEXT;CLOSEOUT
1960 OPENOUT ("!PRESS ESC NOW.");PRINT#9,"";CLOSEOUT
1970 PRINT;PRINT "File has now been saved. ""Would you
""like to verify? (Y/N)"
1980 WHILE INKEY\$(>"");WEND
1990 a="" ;WHILE a<>"Y"AND a<>"N":a=UPPER\$(INKEY\$);WEND
2000 IF a="N"THEN GOTO 60
2010 PRINT;PRINT"Rewind tape and press play. If a read
error occurs, then either rewind tape,orpress ESC tel.

ce and re-record. Press ESC twice on seeing "CHR\$(34)" "PRESS ESC NOW" CHR\$(34)".

2020 KEY DEF 66,1,252,252,252:ON BREAK 60SUB 2040:CAT:0
N BREAK 60SUB 2910:KEY DEF 66,1,32,32,32

2030 GOTO 60

2040 RETURN

2050 "

2060 *** (5B) SAVE FIELDS ALONE

2070 ***

2070 CLS:PRINT "Press play and record on the tape, "" and
"then press the ENTER key."

2080 WHILE INKEY\$("")":NEXT:WHILE INKEY\$()CHR\$(13)":NEXT:
PRINT:PRINT "SAVING FIELDS."

2090 OPENOUT("!Extras")

2100 PRINT#9,titles:PRINT#9,field:PRINT#9,recs:CLOSEOUT

2110 OPENOUT("!Fields")

2120 FOR g=1 TO field:PRINT#9,field\$(g):NEXT:CLOSEOUT

2130 OPENOUT("!PRESS ESC NOW."):PRINT#9,"":CLOSEOUT

2140 PRINT:PRINT "Fields have now been saved. ""Would you
like to verify? (Y/N)"

2150 WHILE INKEY\$("")":NEXT

2160 a"": WHILE a<>"Y" AND a<>"N":a=UPPER\$(INKEY\$):NEXT

2170 IF a="N"THEN 60

2180 PRINT:PRINT "Rewind tape and press play. If a read
error occurs, then either rewind tape, or press ESC two
times and re-record. Press ESC twice on seeing "CHR\$(34)" "PR
ESS ESC NOW" CHR\$(34)".

2190 KEY DEF 66,1,252,252,252:ON BREAK 60SUB 2040:CAT:0
N BREAK 60SUB 2910:KEY DEF 66,1,32,32,32

2200 GOTO 60

2210 "

2220 *** (6) LOAD FILE/FIELDS ON
LY ***

2230 CLS:PRINT#1,"LOAD FILE/FIELDS ONLY MODE"

2240 PRINT "Select from:":PRINT:PRINT:PRINT "(1) Load who
le file (2) Load fields only"

2250 WHILE INKEY\$("")":NEXT

2260 a"": WHILE a<>"1" AND a<>"2":a=UPPER\$(INKEY\$):NEXT

2270 PRINT:PRINT:PRINT

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2288 IF a<>"2" THEN 2488
2290
2300 * *** (6A) LOAD WHOLE FILE ***
2310 CLEAR:DEFSTR a,z:field1=9:Dim z(5)
2320 LINE INPUT "Enter name of file to be loaded, or  
press ENTER alone to load the first filefound: ",al
2330 IF LEN(al)>20 THEN PRINT "NAME TOO LONG.":GOTO 2320
ELSE al=UPPER$(al)
2340 CLS:PRINT "Press play on tape, then press ENTER.":W  
HILE INKEY$()":WEND:WHILE INKEY$()CHR$(13):WEND
2350 PRINT:PRINT:PRINT "SEARCHING FOR ";IF al<>"THEN P  
RINT al." ELSE PRINT "UNKNOWN FILE."
2360 LOCATE 1,18:PRINT "If a read error occurs, rewind t  
ape and press play, or press ESC, and then type GOTO 68  
<ENTER>.";LOCATE 1,7
2370 ON BREAK GOSUB 2460
2380 OPENIN("Extras"):GOSUB 2470:LINE INPUT#9,title$:P  
RINT"FOUND "title$:IF title$<>al AND al<>"THEN PRINT:  
CLOSEIN:GOTO 2380 ELSE PRINT"-LOADING."
2390 INPUT#9,field:INPUT#9,rec:$DIM field$(field):st1=i:  
num=INT(FRE(8)/(field*30)):Dim rec$(num,field):st1=1
2400 CLOSEIN:OPENIN("fields"):GOSUB 2470
2410 FOR g=1 TO field:LINE INPUT#9,field$(g):NEXT:CLOSE  
IN
2420 OPENIN("Records"):GOSUB 2470
2430 FOR g=1 TO rec:FOR h=1 TO field:LINE INPUT#9,rec#(  
g,h):NEXT:NEXT:CLOSEIN
2440 field1=field
2450 ON BREAK STOP:CLS:GOTO 188
2460 flag=1:RETURN
2470 IF flag=1 GOTO 2450 ELSE RETURN
2480 * *** (6B) LOAD FIELDS ONLY *
2490 LINE INPUT "Enter name of fields to be loaded, or  
press ENTER alone to load the first filefound: ",al
2500 IF LEN(al)>20 THEN PRINT "NAME TOO LONG.":GOTO 2490
ELSE al=UPPER$(al)
2510 CLS:PRINT "Press play on tape, then press ENTER.":W  
HILE INKEY$()":WEND:WHILE INKEY$()CHR$(13):WEND
2520 PRINT:PRINT:PRINT "SEARCHING FOR ";IF al<>"THEN P  
RINT al." ELSE PRINT "UNKNOWN FIELDS."
2530 LOCATE 1,18:PRINT "If a read error occurs, rewind t  
ape and press play, or press ESC, and then type GOTO 68  
<ENTER>.";LOCATE 1,7
2540 ON BREAK GOSUB 2460
2550 OPENIN("Extras"):GOSUB 2470:LINE INPUT#9,title$:P  
RINT"FOUND "title$:IF title$<>al AND al<>"THEN PRINT:  
CLOSEIN:GOTO 2550 ELSE PRINT"-LOADING FIELDS."
2560 INPUT#9,field:INPUT#9,dummy:num=INT(FRE(8)/(field*  
30))
2570 CLOSEIN:OPENIN("fields"):GOSUB 2470
2580 IF field1=field THEN FIELD2=FIELD ELSE FIELD2=FIELD
01
2590 FOR g=1 TO FIELD2

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2600 IF field1<field THEN field=field1
2610 LINE INPUT#9,field\$(g):NEXT:CLOSEIN
2620 num=INT(FRE(8)/(field*30))
2630 IF rec=8 THEN DIM rec\$(num,field):st1=1
2640 ON BREAK STOP:CLS:GOTO 188
2650 * *** (7) ERASE FILE ***
2660 CLS:PRINT "Are you sure? (Y/N)"
2670 WHILE INKEY\$()":WEND
2680 a="" WHILE a<>"Y" AND a<>"N":a=UPPER\$(INKEY\$):WEND
2690 IF a<>"N" THEN CLS:GOTO 188
2700 FOR g=1 TO 1500:NEXT:PRINT:PRINT:PRINT "File has be
en erased.":FOR g=1 TO 1500:NEXT:RUN
2710 * *** (8) EXIT PROGRAM ***
2720 CLS:PRINT "Are you sure? (Y/N)"
2730 WHILE INKEY\$()":WEND
2740 a="" WHILE a<>"Y" AND a<>"N":a=UPPER\$(INKEY\$):WEND
2750 IF a<>"N" THEN CLS:GOTO 188
2760 CALL 8
2770 END
2780 *
2790 * *** WAIT FOR ENTER KEY ***
2800 PRINT#2," PRESS ENTER TO RETURN TO MENU"
2810 WHILE INKEY\$()":WEND
2820 a="" WHILE a<>CHR\$(13):a=INKEY\$():WEND
2830 GOTO 580
2840 *
2850 * *** GREEN SCREEN ROUTINE ***
2860 PRINT:PRINT:PRINT:PRINT "Are you using Green scree
n or Colour?"
2870 WHILE INKEY\$()":WEND
2880 a="" WHILE a<>"B" AND a<>"C":a=UPPER\$(INKEY\$):WEND
2890 IF a<>"B" THEN POKE 43981,238 ELSE POKE 43981,237
2900 CLS:RETURN
2910 RETURN *

It doesn't work?

When listings don't work, it is frustrating. Here are some tips that might help.

The best thing to do is split up long lines; one line for one command. The listing may double in length, but you'll get a much better picture of what's going on.

Confusing the letters o or O with the numeral 0, or the small letter l or capital I with the number 1. We do ask authors to avoid using these letters as variables.

Confusing a colon (:) with a semicolon (;). DATA statements are particular traps for the unwary, because a blunder in one of these will cause an error message when the computer attempts to execute some other line.

Don't spend hours on a listing that won't work. Perhaps later, or even the next day, chances are the mistake will stick out like a sore thumb.