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0 MASK=PEEK(16):IF MASK>=128 THEN MASK=MASK-128:POKE 16,MASK:POKE 53774,MASK
10 REM EDITOR CUSTOMIZING MANAGER
20 REM FILENAME "MEDITCM.BAS"
30 REM VERSION 0.0 (06/25/81)
40 REM COPYRIGHT 1981, ATARI
50 REM REQUIRES 32K SYSTEM
60 REM WRITTEN BY MIKE LORENZEN
100 DIM FILENAME$(15)
110 DIM FILECONTENTS(42)
120 DIM ANSWER$(40)
130 DIM KEYSTROKE$(1)
140 DIM EOL$(1)
150 DIM DELETE$(1)
160 DIM SPECIALCHARACTER$(1)
170 DIM LOGICALOR$(16)
180 DIM FINDTAB$(58)
190 DIM TABTABLE$(31)
200 FILESIZE=42
210 CURSORINHIBIT=752
220 CH=764
230 EOL$=CHR$(155)
240 DELETE$=CHR$(126)
250 LOGICALOR$="h(hT(hTT)U` "
JJJ(
  TQTphIH0iP^)TU`hT)U` "
310 POKE CURSORINHIBIT,1:PRINT "ü"
320 POSITION 7,3:PRINT "EDITOR CUSTOMIZING MANAGER"
330 POSITION 14,5:PRINT "VERSION 0.0"
340 POSITION 2,13:PRINT "WOULD YOU LIKE INSTRUCTIONS? (Y/N) ";
350 POSITION 10,23:PRINT "COPYRIGHT 1981, ATARI";
360 GOSUB 24000
370 IF KEYSTROKE$="Y" THEN GOTO 20000
380 IF KEYSTROKE$<>"N" THEN PRINT "/" ;:GOTO 360
400 REM WHAT EXTENSION GROUP PROMPT
410 PRINT "ü"
420 POSITION 9,10:PRINT "WHAT EXTENSION GROUP"
430 POSITION 9,11:PRINT "(0-3 chars or '?' ) ";
440 SPECIALCHARACTER$="?":ALPHAFLAG=1:GOSUB 28030
450 IF ANSWER$="?" THEN 20000
460 FILENAME$="D1:MEDIT":FILENAME$(LEN(FILENAME$)+1)=ANSWER$:FILENAME$(LEN(FILEN
AME$)+1)=".ECF"
500 TRAP 580
510 OPEN #1,4,0,FILENAME$
520 FOR A=1 TO FILESIZE
530 GET #1,B
540 FILECONTENTS(A)=B
550 NEXT A
560 CLOSE #1
570 GOTO 700
580 TRAP 40000
590 CLOSE #1
600 PRINT "ü";
610 POSITION 9,10:PRINT "/USING INTERNAL DEFAULTS"
620 POSITION 13,14:PRINT "--please wait--"
630 FOR A=1 TO FILESIZE
640 READ B
650 FILECONTENTS(A)=B
660 NEXT A
670 GOSUB 25000
680 DATA 114,128,0,2,2,2,2,2,2,2,2,2,2,2,2,2,0,0,0,0,0
690 DATA 0,0,0,0,0,0,0,0,0,0,0,64,3,40,128,128,148,10,100,128
700 REM MAIN MENU
710 SETCOLOR 2,INT(FILECONTENTS(39)/16),FILECONTENTS(39)-(INT(FILECONTENTS(39)/1
6)*16)
720 SETCOLOR 1,0,FILECONTENTS(40)-(INT(FILECONTENTS(40)/16)*16)
730 PRINT "ü":POSITION 5,3

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740 PRINT "WHAT WOULD YOU LIKE TO DO?"
750 PRINT :PRINT
760 PRINT "A. SAVE PARAMETERS & RETURN TO DOS"
770 PRINT "B. SAVE PARAMETERS & RE-RUN"
780 PRINT "C. FORGET PARAMETERS & RETURN TO DOS"
790 PRINT "D. FORGET PARAMETERS & RE-RUN"
800 PRINT
810 PRINT "E. SET TAB STOPS"
820 PRINT "F. SET MAXIMUM LINE LENGTH"
830 PRINT "G. SET GROWTH FACTOR"
840 PRINT "H. SET DEFAULT MARGINS"
850 PRINT "I. SET COLOR OF SCREEN"
860 PRINT "J. SET MISCELLANEOUS FLAGS"
870 PRINT :PRINT
880 PRINT "    Enter letter of choice (A-J)";
890 LIMIT=10:GOSUB 22000
900 PRINT "ü"
910 ON KEYSTROKE GOTO 1000,2000,3000,4000,5000,6000,7000,8000,9000,10000
1000 REM SAVE PARAMETERS & RETURN TO DOS
1010 GOSUB 23000
1020 DOS
2000 REM SAVE PARAMTERS & RE-RUN
2010 GOSUB 23000
2020 RUN
3000 REM FORGET PARAMTERS & RETURN TO DOS
3010 DOS
4000 REM FORGET PARAMTERS & RE-RUN
4010 RUN
5000 REM SET& CLEAR TABSTOPS
5010 PRINT "ü":POSITION 9,3:PRINT "SET & CLEAR TABSTOPS"
5020 POSITION 2,6
5030 PRINT "You can set or clear both space tabs"
5040 PRINT "and expanding tabs.  The Program-Text"
5050 PRINT "Editor does not allow you to change"
5060 PRINT "tab stops during an editing session."
5070 PRINT "You can set or clear tab stops past"
5080 PRINT "the current maximum line length."
5090 GOSUB 27000
5100 PRINT "ü":POSITION 2,6
5110 PRINT "The default tabstops are:"
5120 PRINT "9,17,25,33,41,49,57,65,73,81,89,97,"
5130 PRINT "105,113"
5140 POSITION 2,12
5150 PRINT "The current tabstops are:"
5160 FOR TABSTOP=1 TO 31
5170 TABTABLE$(TABSTOP,TABSTOP)=CHR$(FILECONTENTS(2+TABSTOP))
5180 NEXT TABSTOP
5190 TABSTOP=2
5200 TABSTOP=USR(ADR(FINDTAB$),ADR(TABTABLE$),TABSTOP)
5210 IF TABSTOP=0 THEN 5250
5220 PRINT TABSTOP;" ";
5230 TABSTOP=TABSTOP+1
5240 GOTO 5200
5250 POSITION 2,18
5260 PRINT "(Menu,Set,Clear)  Select item ";
5270 GOSUB 24000
5280 IF KEYSTROKE$="M" THEN 700
5290 IF KEYSTROKE$="S" THEN 5400
5300 IF KEYSTROKE$<>"C" THEN PRINT "/"";GOTO 5270
5310 PRINT "CLEAR"
5320 POSITION 2,20:PRINT "(2-199 or *) What column to clear ";
5330 SPECIALCHARACTER$="*":GOSUB 28020:IF ANSWER$="" THEN 5100
5340 IF ANSWER$="*" THEN FOR TABSTOP=1 TO 31:FILECONTENTS(2+TABSTOP)=0:NEXT TABS
TOP:GOTO 5100
5350 ANSWER=VAL(ANSWER$)
5360 IF ANSWER<2 OR ANSWER>199 THEN GOSUB 21000:GOTO 5330

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5370 TABSTOP=ANSWER:GOSUB 26000
5380 FILECONTENTS(3+OFFSET)=TABCBYTE
5390 GOTO 5100
5400 PRINT "SET"
5410 POSITION 2,20:PRINT "(2-199) What column to set ";
5420 GOSUB 28000:IF ANSWER$="" THEN 5100
5430 ANSWER=VAL(ANSWER$)
5440 IF ANSWER<2 OR ANSWER>199 THEN GOSUB 21000:GOTO 5420
5450 TABSTOP=ANSWER:GOSUB 26000
5460 FILECONTENTS(3+OFFSET)=TABSBYTE
5470 GOTO 5100
6000 REM SET MAXIMUM LINE LENGTH
6010 PRINT "ü":POSITION 8,3:PRINT "SET MAXIMUM LINE LENGTH"
6020 POSITION 2,6
6030 PRINT "The operating system built-in screen"
6040 PRINT "editor (E:) limits maximum line"
6050 PRINT "length to three physical lines,"
6060 PRINT "usually 114 characters. The Editor"
6070 PRINT "allows a 200 character maximum line"
6080 PRINT "length. Take care not to exceed a"
6090 PRINT "114 character line length with a"
6100 PRINT "language system that uses the built"
6110 PRINT "-in screen editor."
6120 PRINT
6130 PRINT "The default value is 114."
6140 PRINT :PRINT
6150 PRINT "The current value is ";FILECONTENTS(1)
6160 PRINT :PRINT "(2-200) The new value is ";
6170 GOSUB 28000:IF ANSWER$="" THEN 700
6180 ANSWER=VAL(ANSWER$)
6190 IF ANSWER<2 OR ANSWER>200 THEN GOSUB 21000:GOTO 6170
6200 FILECONTENTS(1)=ANSWER
6210 GOTO 700
7000 REM SET FILE GROWTH
7010 PRINT "ü":POSITION 10,2:PRINT "SET FILE GROWTH FACTOR"
7020 POSITION 2,5
7030 PRINT "Before allowing you to edit a file,"
7040 PRINT "the Program-Text Editor checks to see"
7050 PRINT "that there is a reasonable amount of"
7060 PRINT "free space on the destination"
7070 PRINT "diskette. The Program-Text Editor"
7080 PRINT "considers a reasonable amount to be"
7090 PRINT "FILESIZE + GROWTH FACTOR. If there"
7100 PRINT "is not enough room on the diskette"
7110 PRINT "for the edit file and the growth"
7120 PRINT "factor, you may abort the edit or"
7130 PRINT "proceed despite the warning."
7140 PRINT
7150 PRINT "The default value is 100."
7160 PRINT :PRINT
7170 PRINT "The current value is ";FILECONTENTS(41)
7180 PRINT :PRINT "(0-255) The new value is ";
7190 GOSUB 28000:IF ANSWER$="" THEN 700
7200 ANSWER=VAL(ANSWER$)
7210 IF ANSWER>255 THEN GOSUB 21000:GOTO 7190
7220 FILECONTENTS(41)=ANSWER
7230 GOTO 700
8000 REM SET MARGINS
8010 PRINT "ü":POSITION 11,2:PRINT "SET DEFAULT MARGINS"
8020 POSITION 2,4
8030 PRINT "You can set left and right margins"
8040 PRINT "during an editing session. Use this"
8050 PRINT "feature if your TV should cut off"
8060 PRINT "columns on the left or right edge."
8070 PRINT "These settings may be overridden by"
8080 PRINT "commands in the Editor. The"
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8090 PRINT "following rule must be followed:"
8100 PRINT
8110 PRINT "          1 <= LM < RM <= 40 "
8120 PRINT
8130 PRINT "The defaults are LM=3 and RM=40."
8140 PRINT :PRINT
8150 PRINT "The current left margin value is ";FILECONTENTS(35)
8160 PRINT "The current right margin value is ";FILECONTENTS(36)
8170 PRINT
8180 PRINT "(1-RM) The new left margin is ";
8190 GOSUB 28000:IF ANSWER$="" THEN 8230
8200 ANSWER=VAL(ANSWER$)
8210 IF ANSWER>=FILECONTENTS(36) OR ANSWER=0 THEN GOSUB 21000:GOTO 8190
8220 FILECONTENTS(35)=ANSWER
8230 PRINT "(LM-40) The new right margin is ";
8240 GOSUB 28000:IF ANSWER$="" THEN 700
8250 ANSWER=VAL(ANSWER$)
8260 IF ANSWER>40 OR ANSWER<=FILECONTENTS(35) THEN GOSUB 21000:GOTO 8240
8270 FILECONTENTS(36)=ANSWER
8280 GOTO 700
9000 REM SET COLOR OF SCREEN
9010 BCOLOR=INT(FILECONTENTS(39)/16)
9020 BLUM=FILECONTENTS(39)-(INT(FILECONTENTS(39)/16)*16)
9030 CLUM=FILECONTENTS(40)-(INT(FILECONTENTS(40)/16)*16)
9040 A=0
9050 PRINT "ü":POSITION 10,3:PRINT "SET COLOR OF SCREEN."
9060 POSITION 2,6
9070 PRINT "You can choose a specific background"
9080 PRINT "color for your editing session. Use"
9090 PRINT "this feature to identify the set of"
9100 PRINT "custom parameters in effect or for"
9110 PRINT "aesthetic value. Three factors"
9120 PRINT "determine the screen color. They"
9130 PRINT "are:"
9140 PRINT
9150 PRINT "1) color of background (color),"
9160 PRINT "2) luminance of background (B LUM), "
9170 PRINT "3) luminance of characters (C LUM)."
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:PRINT "Remember that luminance values must  
be even integers."  
GOSUB 27000  
PRINT "ü":POSITION 2,2:PRINT "Certain rules must be followed when"  
PRINT "when choosing screen color and"  
PRINT "luminance values; for more infor-"  
PRINT "mation, consult the Program-Text"  
PRINT "Editor manual."  
PRINT  
PRINT "The default color is 9."  
PRINT "The default B LUM is 4."  
PRINT "The default C LUM is 10."  
PRINT :PRINT  
PRINT "The current value for color is ";:PRINT BCOLOR  
PRINT "The current value for B LUM is ";:PRINT BLUM  
PRINT "The current value for C LUM is ";:PRINT CLUM  
PRINT :PRINT  
IF A>0 THEN 9410  
PRINT "(0-15) The new color is ";  
GOSUB 28000:IF ANSWER\$="" THEN 9410  
ANSWER=VAL(ANSWER\$)  
IF ANSWER>15 THEN GOSUB 21000:GOTO 9370  
BCOLOR=ANSWER  
IF A>1 THEN 9490  
PRINT "(0-14e) The new B lum is ";  
GOSUB 28000:IF ANSWER\$="" THEN 9490  
ANSWER=VAL(ANSWER\$)  
A=1

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9460 IF ANSWER>14 THEN GOSUB 21000:GOTO 9430
9470 IF INT(ANSWER/2)*2<>ANSWER THEN GOSUB 21000:GOTO 9430
9480 BLUM=ANSWER
9490 PRINT "(0-14e) The new C lum is ";
9500 GOSUB 28000:IF ANSWER$="" THEN 9560
9510 ANSWER=VAL(ANSWER$)
9520 A=2
9530 IF ANSWER>14 THEN GOSUB 21000:GOTO 9490
9540 IF INT(ANSWER/2)*2<>ANSWER THEN GOSUB 21000:GOTO 9490
9550 CLUM=ANSWER
9560 ANSWER$=""
9570 IF BLUM=CLUM THEN ANSWER$="      B lum can not equal C lum"
9580 IF (BLUM-8)=CLUM THEN ANSWER$="  B lum - 8 can not equal C lum"
9590 IF (CLUM-8)=BLUM THEN ANSWER$="  C lum - 8 can not equal B lum"
9600 FILECONTENTS(39)=(BCOLOR*16)+(FILECONTENTS(39)-(INT(FILECONTENTS(39)/16)*16
))
9610 IF ANSWER$<>"" THEN 9650
9620 FILECONTENTS(39)=INT(FILECONTENTS(39)/16)*16+BLUM
9630 FILECONTENTS(40)=CLUM
9640 GOTO 700
9650 PRINT "ü":POSITION 5,3:PRINT "/ILLEGAL LUMINANCE COMBINATION!"
9660 POSITION 3,7:PRINT ANSWER$
9670 POSITION 10,9:PRINT "(see Editor manual)"
9680 GOSUB 25000
9690 A=1
9700 GOTO 9260
10000 REM SET MISCELLANEOUS FLAGS
10010 PRINT "ü":POSITION 8,3
10020 PRINT "SET MISCELLANEOUS FLAGS"
10030 POSITION 2,6
10040 PRINT "A. RETURN TO MAIN MENU"
10050 PRINT
10060 PRINT "B. SET SPACE TAB/EXPANDING TAB OPTION"
10070 PRINT "C. SET TAB DISPLAY METHOD"
10080 PRINT "D. SET CARRIAGE RETURN DISPLAY"
10090 PRINT "E. SET AUTO-INDENTION FEATURE"
10100 PRINT "F. SET UPPERCASE/LOWERCASE OPTION"
10110 PRINT :PRINT
10120 PRINT "  Enter letter of choice (A-F) "
10130 LIMIT=6:GOSUB 22000
10140 ON KEYSTROKE GOTO 11000,12000,13000,14000,15000,16000
11000 REM RETURN TO MAIN MENU
11010 GOTO 700
12000 REM SET SPACE TAB/EXPANDING TAB OPTION
12010 PRINT "ü":POSITION 5,0:PRINT "SET SPACE/EXPANDING TAB OPTION"
12020 PRINT
12030 PRINT "Two types of tabs exist in the"
12040 PRINT "Program-Text Editor: space tabs and"
12050 PRINT "expanding tabs. Space tabs are"
12060 PRINT "exactly as in the screen editor (E:)"
12070 PRINT "in that they insert blanks in all the"
12080 PRINT "unused area between tabstops."
12090 PRINT "Expanding tabs insert an actual tab"
12100 PRINT "character that serves to occupy all"
12110 PRINT "the unused area between tabstops. If"
12120 PRINT "text is added or deleted in front of"
12130 PRINT "an expanding tab character, the"
12140 PRINT "unused occupied area will shrink or"
12150 PRINT "expand. Warning: Not all ATARI"
12160 PRINT "software recognizes the expanding tab"
12170 PRINT "feature."
12180 PRINT
12190 PRINT "The default is for space tabs ('S')."
12200 PRINT :PRINT
12210 PRINT "The current value is";
12220 ANSWER$="'EXPANDING TABS'"

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12230 IF FILECONTENTS(2)>127 THEN ANSWER$="SPACE TABS"
12240 PRINT ANSWER$
12250 PRINT :PRINT "(S or E) The new setting is ?";
12260 GOSUB 24000
12270 IF KEYSTROKE$=EOL$ THEN 10000
12280 IF KEYSTROKE$="S" THEN 12310
12290 IF KEYSTROKE$<>"E" THEN PRINT "/";:GOTO 12260
12300 FILECONTENTS(2)=0:GOTO 10000
12310 FILECONTENTS(2)=128:GOTO 10000
13000 REM SET MENU - TAB DISPLAY METHOD
13010 PRINT "ü":POSITION 11,2:PRINT "TAB DISPLAY METHOD"
13020 POSITION 2,5
13030 PRINT "The Editor displays expanding tabs as"
13040 PRINT "either spaces of right-triangles"
13050 PRINT "followed by periods. For conven-"
13060 PRINT "ience use spaces for viewing text and"
13070 PRINT "the visual display character as an"
13080 PRINT "aid in editing. This setting can be"
13090 PRINT "overridden by an immediate keystroke"
13100 PRINT "in the Editor."
13110 PRINT
13120 PRINT "The default is for right-triangles"
13130 PRINT "('R')."
13140 PRINT :PRINT
13150 PRINT "The current value is ";
13160 ANSWER$="'RIGHT TRIANGLES'"
13170 IF FILECONTENTS(37)<128 THEN ANSWER$="'SPACES'"
13180 PRINT ANSWER$
13190 PRINT :PRINT "(S or R) The new value is ?";
13200 GOSUB 24000
13210 IF KEYSTROKE$=EOL$ THEN 10000
13220 IF KEYSTROKE$="S" THEN 13250
13230 IF KEYSTROKE$<>"R" THEN PRINT "/";:GOTO 13200
13240 FILECONTENTS(37)=128:GOTO 10000
13250 FILECONTENTS(37)=0:GOTO 10000
14000 REM SET MENU - HOW TO DISPLAY CARRAIGE RETURNS
14010 PRINT "ü":POSITION 6,3:PRINT "CARRIAGE RETURN DISPLAY METHOD"
14020 POSITION 2,6
14030 PRINT "The Editor displays carriage returns"
14040 PRINT "as either spaces or a down-arrow."
14050 PRINT "For convenience, use spaces for"
14060 PRINT "viewing text and the visual display"
14070 PRINT "character as an aid in editing. This"
14080 PRINT "setting can be overridden by an"
14090 PRINT "immediate keystroke in the Editor."
14100 PRINT
14110 PRINT "The default is for down-arrows ('D')."
14120 PRINT :PRINT
14130 PRINT "The current value is ";
14140 ANSWER$="'DOWN-ARROWS'"
14150 IF FILECONTENTS(38)<128 THEN ANSWER$="'SPACES'"
14160 PRINT ANSWER$
14170 PRINT :PRINT "(S or D) The new value is ?";
14180 GOSUB 24000
14190 IF KEYSTROKE$=EOL$ THEN 10000
14200 IF KEYSTROKE$="S" THEN 14230
14210 IF KEYSTROKE$<>"D" THEN PRINT "/";:GOTO 14180
14220 FILECONTENTS(38)=128:GOTO 10000
14230 FILECONTENTS(38)=0:GOTO 10000
15000 REM SET MENU - AUTO-INDENTATION FEATURE
15010 PRINT "ü":POSITION 10,3:PRINT "AUTO-INDENTION FEATURE"
15020 POSITION 2,6
15030 PRINT "The ATARI EDITOR can be set to enable"
15040 PRINT "or disable the auto-indentation feature.";
15050 PRINT "Auto-indentation is used for languages"
15060 PRINT "such as PASCAL."

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15070 PRINT
15080 PRINT "The default is to enable ('E')."
15090 PRINT :PRINT
15100 PRINT "The old setting was ";
15110 ANSWER$="'DISABLE'"
15120 IF FILECONTENTS(42)>127 THEN ANSWER$="'ENABLE'"
15130 PRINT ANSWER$
15140 PRINT :PRINT "(D or E) The new setting is ?";
15150 GOSUB 24000
15160 IF KEYSTROKE$=EOL$ THEN 10000
15170 IF KEYSTROKE$="D" THEN 15200
15180 IF KEYSTROKE$<>"E" THEN PRINT "/";:GOTO 15150
15190 FILECONTENTS(42)=128:GOTO 10000
15200 FILECONTENTS(42)=0:GOTO 10000
16000 REM SET STARTING CASELOCK
16010 PRINT "ü":POSITION 11,3:PRINT "STARTING CASELOCK"
16020 POSITION 2,6
16030 PRINT "The ATARI EDITOR can be set to start"
16040 PRINT "the editing session in a shift-lock"
16050 PRINT "(for uppercase) or no-lock (for"
16060 PRINT "upper- and lowercase) condition."
16070 PRINT "This starting selection can be"
16080 PRINT "overridden while editing by using the"
16090 PRINT "CAPS-LOWER key."
16100 PRINT
16110 PRINT "The default is for SHIFT-LOCK ('S')."
16120 PRINT :PRINT
16130 PRINT "The old setting was ";
16140 ANSWER$="SHIFT-LOCK"
16150 IF FILECONTENTS(34)=0 THEN ANSWER$="NO-LOCK"
16160 PRINT ANSWER$
16170 PRINT :PRINT "(S or N) The new setting is ";
16180 GOSUB 24000
16190 IF KEYSTROKE$=EOL$ THEN 10000
16200 IF KEYSTROKE$="S" THEN 16230
16210 IF KEYSTROKE$<>"N" THEN PRINT "/";:GOTO 16180
16220 FILECONTENTS(34)=0:GOTO 10000
16230 FILECONTENTS(34)=64:GOTO 10000
20000 REM PRINT INSTRUCTIONS
20010 PRINT "ü":POSITION 14,3
20020 PRINT "INSTRUCTIONS"
20030 POSITION 2,6
20040 PRINT "The EDITOR CUSTOMIZING MANAGER allows"
20050 PRINT "you to tailor the Program-Text Editor"
20060 PRINT "to your personal preferences. The"
20070 PRINT "Editor reads special files in the"
20080 PRINT "form 'MEDITxxx.ECF', where xxx is the"
20090 PRINT "file extension designation. Reply to"
20100 PRINT "the 'WHAT EXTENSION GROUP' prompt by"
20110 PRINT "entering the zero to three character"
20120 PRINT "extension 'xxx.'"
20130 GOSUB 27000
20140 PRINT "ü"
20150 POSITION 2,4
20160 PRINT "You can change the following items:"
20170 PRINT
20180 PRINT "TABSTOPS - setting or clearing"
20190 PRINT "LINE LENGTH LIMIT (2-200)"
20200 PRINT "FILE GROWTH FACTOR"
20210 PRINT "DEFAULT SCREEN MARGINS"
20220 PRINT "COLOR OF SCREEN"
20230 PRINT "MISCELLANEOUS FLAGS"
20240 PRINT "    space tabs/expanding tabs"
20250 PRINT "    expanding tabs display"
20260 PRINT "    carriage return display"
20270 PRINT "    auto-indentation"

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20280 PRINT "      uppercase/lowercase"
20290 GOSUB 27000
20300 PRINT "ü"
20310 POSITION 5,9
20320 PRINT "Now that you have read the"
20330 PRINT "instructions, would you still like"
20340 PRINT "to continue this program ? (Y or N)"
20350 GOSUB 24000
20360 IF KEYSTROKE$="N" THEN DOS
20370 IF KEYSTROKE$<>"Y" THEN PRINT "/";:GOTO 20350
20380 GOTO 400
21000 REM RETRY INPUT SETUP ROUTINE
21010 PRINT "//";
21020 POSITION COLUMN,ROW
21030 RETURN
22000 REM GET MENU KEYSTROKE ROUTINE
22010 GOSUB 24000
22020 IF KEYSTROKE$<"A" OR KEYSTROKE$>"Z" THEN PRINT "/";:GOTO 22000
22030 KEYSTROKE=ASC(KEYSTROKE$)-64
22040 IF KEYSTROKE>LIMIT THEN PRINT "/";:GOTO 22010
22050 RETURN
23000 REM SAVE PARAMETERS
23010 TRAP 23090
23020 OPEN #1,8,0,FILENAME$
23030 FOR A=1 TO FILESIZE
23040 B=FILECONTENTS(A)
23050 PUT #1,B
23060 NEXT A
23070 CLOSE #1
23080 RETURN
23090 TRAP 40000
23100 PRINT "ü":POSITION 8,10
23110 PRINT "/ERROR IN SAVING - SORRY"
23120 POSITION 12,14:PRINT "--please wait--"
23130 GOSUB 25000
23140 RETURN
24000 REM GET KEYBOARD CHARACTER
24010 POKE CH,255
24020 TRAP 24120
24030 OPEN #1,4,0,"K:"
24040 GET #1,KEYSTROKE
24050 CLOSE #1
24060 TRAP 40000
24070 KEYSTROKE$=CHR$(KEYSTROKE)
24080 IF KEYSTROKE$=EOL$ OR KEYSTROKE$=DELETE$ THEN RETURN
24090 IF ASC(KEYSTROKE$)>=128 THEN KEYSTROKE$=CHR$(ASC(KEYSTROKE$)-128)
24100 IF KEYSTROKE$>="a" AND KEYSTROKE$<="z" THEN KEYSTROKE$=CHR$(ASC(KEYSTROKE$
)-32)
24110 RETURN
24120 CLOSE #1
24130 GOTO 24000
25000 REM DELAY SUBROUTINE
25010 FOR DELAY=1 TO 200
25020 NEXT DELAY
25030 RETURN
26000 REM TAB MAP ROUTINE
26010 OFFSET=INT(TABSTOP/8)
26020 BYTE=FILECONTENTS(3+OFFSET)
26030 BIT=TABSTOP-INT(OFFSET*8)
26040 MASK=INT((2^BIT)+0.5)
26050 TABSBYTE=USR(ADR(LOGICALOR$),BYTE,MASK)
26060 TABCBYTE=BYTE:IF BYTE=TABSBYTE THEN TABCBYTE=TABCBYTE-MASK
26070 FOUNDTAB=0:IF BYTE=TABSBYTE THEN FOUNDTAB=1
26080 RETURN
27000 REM TOUCH SPACE-BAR TO CONTINUE ROUTINE
27010 POSITION 4,22

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27020 PRINT "---Touch SPACE-BAR to continue---"
27030 GOSUB 24000
27040 IF KEYSTROKE$<>" " THEN PRINT "/" ;:GOTO 27030
27050 RETURN
28000 REM 3 CHAR INPUT ROUTINE
28010 SPECIALCHARACTER$=""
28020 ALPHAFLAG=0
28030 ROW=PEEK(84)
28040 COLUMN=PEEK(85)
28050 ANSWER$=" "
28060 LENGTH=0
28070 POKE CH,255
28080 POSITION COLUMN,ROW
28090 PRINT ANSWER$;
28100 GOSUB 24020
28110 IF KEYSTROKE$>="0" AND KEYSTROKE$<="9" THEN 28270
28120 IF ALPHAFLAG=1 THEN IF KEYSTROKE$>="A" AND KEYSTROKE$<="Z" THEN 28270
28130 IF KEYSTROKE$=DELETE$ THEN 28180
28140 IF KEYSTROKE$=EOL$ THEN 28240
28150 IF KEYSTROKE$=SPECIALCHARACTER$ THEN 28220
28160 PRINT "/" ;
28170 GOTO 28100
28180 IF LENGTH=0 THEN 28160
28190 ANSWER$(LENGTH,LENGTH+1)=" "
28200 LENGTH=LENGTH-1
28210 GOTO 28080
28220 IF LENGTH=0 THEN ANSWER$=SPECIALCHARACTER$:RETURN
28230 GOTO 28160
28240 POSITION COLUMN,ROW:ANSWER$(LENGTH+1)=" " :PRINT ANSWER$:IF LENGTH=0 THE
N ANSWER$="" :RETURN
28250 ANSWER$=ANSWER$(1,LENGTH)
28260 RETURN
28270 IF LENGTH=3 THEN 28160
28280 LENGTH=LENGTH+1
28290 ANSWER$(LENGTH,LENGTH)=KEYSTROKE$
28300 ANSWER$(LENGTH+1,LENGTH+1)=" "
28310 GOTO 28080

```