



File maintenance routine

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10 REM **** MAIN.BAS
20 REM *** PROGRAMMED BY HARZTRA GOONETILLEKE . BOBP,COLOMBO-SRI LANKA-JUNE 86
30 REM ** FILE MAINTENANCE ROUTINE
40 REM LAST UPDATE 04/08/86
50 REM *****
60 REM **This program is written using Microsoft version 2.23b with MBASIC
70 REM ** for APPLE lie micro computer with Spftcard CP/M
80 REM *****
90 GOSUB 130:REM INITIALISATION
100 ON B GOSUB 350,880,1380,1570,1800,1700,1940:REM CREATE, EDIT LIST, CATALOG,DELETE,INIT,REGROUP
110 GOSUB 1180:REM TERMINATION
120 REM *****
130 REM ** INITIALISATION ROUTINE
140 OPTION BASE 1
150 HOME :VTAB 4:HTAE 15:PRINT FILE MAINTENANCE MENU"
160 PRINT:PRINT TAB(15)" *****
170 PRINT:PRINT:PRINT
180 PRINT 1 CREATE A NEW DATA FILE
190 PRINT 2 EDIT AN EXISTING DATA FILE
200 PRINT 3 LIST/DISPLAY DATA FILE
210 PRINT 4 DISPLAY DISK CATALOG
220 PRINT 5 DELETE DATA FILES'
230 PRINT 6 INITIALISE NEW DATA DISK
240 PRINT 7 REGROUPING OF LENGTH FRE, DATA"
250 PRINT 8 RETURN TO MAIN MENU
260 PRINT:PRINT:PRINT
270 INPUT select option E
280 IF B<1 OR B>8 THEN 150
290 ON B GOTO 300,300,300,330,300,1700,300,1180
300 PRINT:PRINT:PRINT
310 INPUT "ENTER FILE NANE(maximum 8 characters :-
320 IF LEN(F$)=0 THEN 310
330 RETURN
340 REM *****
350 REM ** INPUT & WRITE DATA ROUTINE
360 PRINT:LINE INPUT 'ENTER DESCRIPTION OF THIS FILE
370 PRINT INPUT "NO.OF SAMPLES ",H
380 INPUT 'NUMBER OF CLASSES C
390 DIM X(HJC)F(HJC) C(H),L1(H) ,L2(H),M(H)
400 INPUT 'LOWER LIMIT OF SMALLEST SIZE CLASS ",L1
410 INPUT "UPPER LIMIT OF SMALLEST SIZE CLASS ",L2
420 D=L2-L1
430 IF D<0 THEN "REENTER" ; GOTO 400
440 FOR K: 1 TO H
450 HOME PRINT TAB(25) ;"DATA ENTRY"
460 PRINT:PRINT TAB(10);"SAMPLE ";K
470 INPUT MONTH", M(K)
480 PRINT
490 INPUT "FIRST MID LENGTH OF THIS SAMPLE
500 INPUT 'LAST MIDLENGTH OF THIS SAMPLE ";L2(K)
510 IF L2(K)<L1(K) THEN PRINT "REENTER ";GOTO 490
520 PRINT
530 INPUT 'ABOVE ENTRIES O.E,(Y/N) ",YYZ$
540 IF YYZ$="Y" THEN 550 ELSE IF YYZ$="N" THEN 400 ELSE 530
550 PRINT 'NO.;"TAB(10);"MID LENGTH' ;TAB(30);"FREQUENCY"
560 C(K)=(L2(K)-L1(K))/D+1:REM NO OF CLASSES IN K th SAMPLE
570 FOR I=1 TO C(K)

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580 X(E,I)=L1(E)+(I-1)*D
590 PRINT "I";I;TAB(10);I(E,I);TAB(30);
600 INPUT F(E,I)
610 IF F(E,I)=0 THEN PRINT "enter 0.01 for zero frequency :GOTO 590
620 NEXT I
630 GOSUB 780:REH EDIT IF NECESSARY
640 NEXT E
650 OPEN "0",1,F$
660 PRINT #,D$
610 PRINT #1,H,C,L1,L2:REM SAMPLES,CLASSES,LIMITS
680 FOR E=1 TO H
690 C(E)=(L2(E)-L1(E))/(D+1
700 PRINT #1,M(K),C(K):REM MTH,NO.OF CASES IN Kth SAMPLE
710 FOR I=1 TO C(K)
120 PRINT #1,X(E,I),F(E,I):REM WRITE RECORDS
730 NEXT I
740 NEXT E
750 CLOSE #1
760 RETURN
770 REM
780 REM * EDIT DATA DURING CREATE FILE STAGE
790 PRINT:INPUT"DO YOU WISH TO EDIT DATA FOR THIS SAMPLE (Y/N) ";Y$
800 IF Y$="Y" THEN 810 ELSE IF Y$="N"THEN 810 ELSE 790
810 INPUT "NO.OF CLASS TO EDIT ";E
820 IF E>C(E) THEN PRINT "no such length class:"GOTO 810
830 IF E=0 THEN 870
840 PRINT " ";E;TAB(10);X(E,E);TAB(30);
850 INPUT F(K,E)
860 GOTO 790
870 RETURN
880 REM *****
890 REM * EDIT EXISTING DATA FILE
900 OPEN "I",1,F$
910 G$:"CCCCCC"
920 MID$(G$,1,2)=MID$(F$,1,2)
930 OPEN "0",2,G$
940 LINE INPUT #1,D$
950 INPUT #1,H,C,L1,L2
960 HOME :PRINT "DESCRIPTION ";D$
970 INPUT "O.E.(Y/N) ";O$:IF O$="N" THEN 980 ELSE DD$:D$:GOTO 990
980 LINE INPUT "NEW DESCRIPTION ?",DD$
990 PRINT "NO.OF SAMPLES : ";H:PRINT "NO.OF CLASSES : ";C:PRINT "SMALLEST SIZE CLASS : ";L1; " - ";L2
1000 PRINT #2,DD$
1010 PRINT #2,H,C,L1,L2
1020 DIM X(H,C),F(H,C)C(H),M(H)
1030 FOR E= 1 TO H
1040 HOME:PRINT TAB(25);"EDITING PROCESS"
1050 PRINT
1060 INPUT #1,M(K),C(K):PRINT "SAMPLE =";K:PRINT "MONTH =";M(K)
1070 INPUT "NEW MONTH;MM:IF MM:0 THEN 1080 ELSE M(K)=MM
1080 PRINT $2,M(E),C(E)
1090 PRINT "NO,";TAB(10);"MID LENGTH";TAB(30);"FREQUENCY"
1100 FOR J= 1TO C(E):INPUT #1,X(E,J),F(E,J):PRINT;" ";J;TAB(10); X(E,J);TAB(30);F(E,J):NEXT J
1110 GOSUB 180:REM EDIT
1120 FOR J=1 TO C(E):PRINT #2,X(E,J),F(E,J):NEXT J
1130 NEXT E
1140 CLOSE
1150 EILL F$

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1160 NAME G$ AS F$
1170 RETURN
1180 REM *****
1190 REM * TBRHINATION
1200 HOME
1210 CLOSE:RUN"MENU.BAS"
1220 RETURN
1230 REM *****
1240 REM LOAD DATA FROM FILE
1250 OPEN "I",L,F$
1260 LINE INPUT #1,D$
1270 INPUT #1,H,C,LI,L2
1280 D=L2-L1
1290 DIM X(H,C),F(H,C),C(H),M(H)
1300 FOR E=1 TO H
1310 INPUT#1,M(E),C(K)
1320 FOR J=1 TO C(K)
1330 INPUT#1,X(E,J),F(E,J)
1340 NEXT J
1350 NBXT E
1360 CLOSE #1
1370 RETURN
1380 REM ** LIST DATA
1390 GOSUB 1240
1400 HOME :PEINT:LPRINT:LPRINT" FILENAME , "F$
1410PRINTD$:LPRINT D$
1420 FOR E=1 TO H
1430PRINT:LPRINT:LPRINT
1440 PRINT TAB(10);"SAHPLE ";E
1450 PRINT ' HONTH";H(E)
1460 LPRINT "SAHPLE ";E
1470 LPRINT "HONTH ";H(E):LPRINT
1480PRINT"HIDLENGTH";TAB(20);"FREQ."
1490LPEINT"HIDLENGTH";SPC(10)"FREQUENCY"
1500 FOR I= 1 TO C(K)
1510PRINTX(E,I);TAB(20);P(E,I)
1520 LPEINT USING "###.# "X(E,I),:LPRINT USING"#####.## "F(E,I)
1530 NEXT I
1540LPRINT:LPRINT
1550 NEXT E
1560 RETURN
1570REH*****
1580 REM ** DISPLAY DISK CATALOG
1590 HOME:PRINT:PRINT
1600 INPUT "ENTER DISK DRIVE NUMBER(A/B) ",DD$
1610 ON ERROR GOTO 1650
1620 IF DD$="A" THEN PRINT:PRINT:FILES "A:*3*":GOTO 1670
1630 IF DD$="B" THEN PRINT:PRINT:FILES "B:*":GOTO 1670
1640 GOTO 1590
1650 PRINT:PRINT" INSERT DISK IN DRIVE ";DD$;" AND PRESS RETURN TO CONTINUE";:O$=INPUT$(1)
1660 HOME:GOTO 1610
1670PRINT:PRINT:PRINT:PRINT:INPUT "PRESS RETURN TO EXIT TO NAIN MENU ",OOO$
1880 RBTURN
1890REM *****
1700 REM * INITIALISE ROUTINE
1710 HOME :VTAB 4:HTAB 10:PRINT "If you need to prepare a new blank disk for use as data disk with BHATTACHARYA
prorar you aust initialise the disk first."
1720 PRINT:PRINT "This process is done at CP/M conmand level (A>) by typing the command"
1730 PRINT ' COPY B:/D"

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1740 PRINT "Press return, then insert blank disk in drive B & press return again."
1750 PRINT:PRINT "Make sure that the disk you insert to drive B is blank otherwise the contents of this disk
will be erased,"
1760 PRINT
1770 PRINT "Note down this command & press return to quit to CP/M command level"
1780 INPUT " ",QQQ$
1790 SYSTEM
1800 REM
1810 REM * DELETE FILES
1820 PRINT "With this process this file will be permanently destroyed"
1830 PRINT
1840 INPUT "do you wish to delete this file (Y/N)";VV$
1850 IF VV$="Y" THEN 1860 ELSE IF VV$="N" THEN 1920 ELSE 1840
1860 IF RIGHT$(F$,4):".BAS" OR RIGHT$(F$,4):".COM" THEN 1870 ELSE 1983
1870 PRINT " SORRY - PROGRAM FILES CANNOT BE DESTROYED ! ":GOTO 1900
1880 KILL F$
1890 PRINT F$;" is now deleted,"
1900 FOR III = 1 TO 1000:RBM ** DELAY
1910 NEXT III
1920 RETURN
1930 REM *****
1940 REM ** REGROUP LENGTH FREQUENCY DATA WITH DIFFERENT CLASS INTERVALS
1950 REM ** AND CREATE A NEW DATA FILE
1960 GOSUB 1240
1970 HOME
1980 INPUT "ENTER THE MULTIPLICATION FACTOR FOR REGROUPING YOUR LENGTH FREQUENCIES ";MF
1990 PRINT "EARLIER CLASS INTERVAL = ";D
2000 PRINT "NEW CLASS INTERVAL = ";MF*D
2010 PRINT:INPUT "O.K.(Y/N) ";QQW$
2020 IF QQW$="Y" THEN 2030 ELSE IF QQW$="N" THEN 1980 ELSE 2010
2030 PRINT:LPRINT "REGROUPED FREQUENCIES OF FILE ";F$
2040 ND=MF*D:NL2=L1+ND:REM NEWCLASSLHITS
2050 FOR E= 1 TO H
2060 PRINT "SAMPLE ";K
2010 LPRINT "SAMPLE ";E
2080 PRINT "MONTH ";M(E)
2090 LPRINT "MONTH ";M(E)
2100 PRINT:PRINT"MD PT. ";TAB(20);"FREQ"
2110 LPRINT"HI LENGTH";SPC(10)"FREQUENCY"
2120 J=1:CT=0
2130 FOR I = 1 TO C(E)
2140 IF X(E,I)(NL2 +(J-1)*ND THBN 2180 ELSE 2150
2150 PRININL2+(J-1)*ND-ND/2;TAB(20);CT
2160 LPRINT USING "###.# ";NL2+(J-1)*ND-ND/2,:LPRINT USING "#####.##" T
2170 CT=0:J=J+1:GOTO 2140
2180 CT=CT+F(E,I)
2190 NEXT I
2200 PRINT NL2+(J-1)*ND-ND/2;TAB(20);C T
2210 LPRINT USING "###.# ";NL2+(J-1)*ND-ND/2,:LPRINT USING"#####.##" ";CT
2220 PRINT
2230 NEXT E
2240 RETURN
2250 *****

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