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C
REAL RANKS(NTOT)
BYTE INFILE(80), OUTFILE(80), FMT(80), IFPRT
LOGICAL LAST

C
DATA LAST / .FALSE. /

C
SETTING I/O UNITS
IN   = 5      ! INPUT FROM TERMINAL
IOUT = 6      ! OUTPUT TO TERMINAL
IFIN = 1      ! INPUT FROM FILE
IFOUT = 3     ! OUTPUT TO FILE

C
OUTPUT TO FILE TREND.OUT
OPEN(UNIT=IFOUT,NAME='TREND.OUT',TYPE='NEW')

C
INPUT INFORMATION

C
WRITE(IOUT,110)
110 FORMAT(' ENTER MAX NUMBER OF YEARS, SEASONS, AND STATIONS.',
1 ' NUMBER SEASON = 0 --> CALCULATE MANN KENDALL STATISTIC')
READ(IN,*) NYEAR, NSEASON, NSITE

C
WRITE(IOUT,*) ' ENTER ALPHA (ACCEPTANCE) LEVEL '
READ(IN,*) ALPHA

C
WRITE(IOUT,*) ' DO YOU WANT DATA PRINTED ON OUTPUT? Y or N '
READ(IN,120) IFPRT
120 FORMAT(A1)

C
HEADER FOR OUTPUT FILE
IF (NSEASON.EQ.0) THEN
130   WRITE(IFOUT,130) NYEAR, NSITE, ALPHA
      FORMAT(' NUMBER OF ITMES   =',I4/
1         ' NUMBER OF STATIONS =',I4/
2         ' ALPHA LEVEL       =',F6.3)
ELSE
140   WRITE(IFOUT,140) NYEAR, NSEASON, NSITE, ALPHA
      FORMAT(' NUMBER OF YEARS   =',I4/
1         ' NUMBER OF SEASONS  =',I4/
2         ' NUMBER OF STATIONS =',I4/
3         ' ALPHA LEVEL       =',F6.3)
ENDIF

C
MAIN LOOP FOR DIFFERENT SITES (STATIONS)
C
DO 300 J=1,NSITE

C
INPUT DATA FILE SPECS
WRITE(IOUT,*) ' ENTER NAME OF INPUT DATA FILE '
READ(IN,150) KCI, (INFILE(I),I=1,KCI)
150   FORMAT(Q,80A1)
      INFILE(KCI+1)=0.0
      OPEN(UNIT=IFIN,NAME=INFILE,TYPE='OLD',READONLY)

C
WRITE(IOUT,*) ' ENTER INPUT FILE FORMAT; YEAR, SEASON,',
1 ' DATA. Ex. (3F10.0)'
READ(IN,150) KC, (FMT(I),I=1,KC)
FMT(KC+1)=0.0

C
INITIALIZE DATA TO 0.0
DO 160 I=1,NTOT
YEAR(I) = 0.0
SEASON(I) = 0.0
DATA(I) = 0.0
160 CONTINUE

C
READ DATA, FIND MINIMUM YEAR, AND SET UP FOR MANN TEST
ND = 0
YM = 2000.0

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