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$DEBUG
SUBROUTINE INPT(P,DROD,PITCH,TL,TIN,TSAT,HIN,MASS,DEC,MINM,
1LBOT,LTOP,LEBOT,LETOP,IFLAG,JFLAG,KFLAG,NQ,Q,NSET)
CHARACTER*23 HEAD(21)
DIMENSION X(20),IX(10),Q(30)
REAL MASS,MDOT,MINM,LEBOT,LTOP,LEBOT,LETOP
DATA HEAD/'PEDROP INPUT ','# INPUT SETS -I',
1      'PRESSURE(MPA)          -R','ROD DIAMETER(M) -R',
2      'C-TO-C DIST. (M)-R','CH.AXIAL LEN (M)-R',
3      'INLET TEMP. (K)-R','SAT. TEMP. (K)-R',
4      'INLET ENTHAL.(KJ/KG)-R','HIGH MFR(KG/SEC) -R',
5      'MFR DECREM. (KG/SEC)-R','LOW MFR (KG/SEC)-R',
6      'BOT.UNHTD LEN(M)-R','TOP UNHTD LEN(M)-R',
A      'BOT.LEN. LOSS(M)-R','TOP LEN. LOSS(M)-R',
7      '# HEAT FLUXES-I','IFLAG -I',
8      'JFLAG -I','KFLAG -I',
9      'HEAT FLUXES (MW/M2)-R'/
WRITE(*,324)HEAD(1),HEAD(1),HEAD(1)
324  FORMAT(1X,A15,A15,A15)
II=2
325  FORMAT(I4,5X,A23,'---->'\)
WRITE(*,325) II,HEAD(2)
READ(*,300) NSET
DO 100 I=1,14
II=I+2
WRITE(*,325) II,HEAD(II)
READ(*,200)X(I)
100  CONTINUE
200  FORMAT(F10.0)
DO 110 I=1,4
II=I+16
WRITE(*,325) II,HEAD(II)
READ(*,300) IX(I)
110  CONTINUE
300  FORMAT(BN,I10)
NQ=IX(1)
II=21
WRITE(*,325) II,HEAD(II)
C      DO 120 I=1,NQ
READ(*,*)(Q(I),I=1,NQ)
C 120  CONTINUE
10    WRITE(*,400)
400  FORMAT(' YOUR INPUT LOOKS LIKE THIS')
DO 500 I=1,14
II=I+2
WRITE(*,325) II,HEAD(II)
WRITE(*,*)X(I)
500  CONTINUE
DO 510 I=1,4
II=I+16
WRITE(*,325) II,HEAD(II)
WRITE(*,*)IX(I)
510  CONTINUE
II=21
WRITE(*,325)II,HEAD(21)
WRITE(*,*)(Q(I),I=1,NQ)
55  WRITE(*,450)
450  FORMAT(' ENTER A SINGLE INTEGER'/' TO CHANGE AN ENTRY--1'/
1' TO STOP EXECUTION --2'/' TO CONTINUE --3')
READ(*,300)ICK
GO TO (700,800,600) ,ICK
GO TO 55
800  STOP
600  P=X(1)
DROD=X(2)
PITCH=X(3)
TL=X(4)
TIN=X(5)
TSAT=X(6)
HIN=X(7)
MASS=X(8)
DEC=X(9)
MINM=X(10)
LEBOT=X(11)
LTOP=X(12)
LEBOT=X(13)
LETOP=X(14)
IFLAG=IX(2)
JFLAG=IX(3)

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      KFLAG=IX(4)
      GO TO 50
700  WRITE(*,530)
530  FORMAT(' ENTER THE INDEX NUMBER OF ITEM TO BE CHANGED '\)
      READ(*,300) II
      WRITE(*,325) II,HEAD(II)
      IF(II.LT.17) THEN
        READ(*,200)X(II-2)
        ELSEIF(II.EQ.21) THEN
          READ(*,*)(Q(I),I=1,NQ)
        ELSE
          READ(*,300)IX(II-16)
          NQ=IX(1)
          ENDIF
      GO TO 10
50  CONTINUE
C   RETURN
END

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