```fortran
      IF(TEAM(1).EQ.TEAM(2)) CALL ERR(3,0)
      DO 60 ISEL=1,2
      DO 60 I=1,12
60    IF(TEAM(ISEL).EQ.ALLTEAM(I)) TEAMNO(ISEL)=I
      WRITE(3,21)
21    FORMAT(1X,40('-'))
C
C     LOOK FOR I=0 GAME
      CALL FIXI0(IOSCORE,NIN0,IWAG0)
C     LOOK FOR I=1 GAME
      CALL FIXI1(I1TNO,I1SUB,NIN1,IWAG1)
C     LOOK FOR I=2 GAME
      CALL FIXI2(I2TNO,I2SUB,NIN2,IWAG2)
C     ACCRUE SUMMARY DATA
      CALL PARTSUM(IOSCORE,NIN0,IWAG0,I1SUB,NIN1,IWAG1,
     1   I2SUB,NIN2,IWAG2,IP)
C
C     ACCRUE SUMMARY DATA WITH TIME FACTORS
      CALL PARTSU2(IOSCORE,NIN0,IWAG0,I1SUB,NIN1,IWAG1,
     1   I2SUB,NIN2,IWAG2,TP)
C
C     ACCRUE SUMMARY DATA WITH TIME SQUARED FACTORS
      CALL PARTSU3(IOSCORE,NIN0,IWAG0,I1SUB,NIN1,IWAG1,
     1   I2SUB,NIN2,IWAG2,TP)
C
C     OUTPUT RESULTS
      IF(CDTL.EQ.'Y') THEN
       CALL OUTRES0(IOSCORE,NIN0,IWAG0,ITM)
       CALL OUTRES1(I1TNO,I1SUB,NIN1,IWAG1)
       CALL OUTRES2(I2TNO,I2SUB,NIN2,IWAG2)
      END IF
50    CONTINUE
C     SUMMARISE RESULTS
70    CALL SUMMARY(IP,LGNO,MGNO,IND)
      RETURN
      END
C
      SUBROUTINE FEDLOOP(LGNO,MGNO)
      DIMENSION I1TNO(10),I1SUB(10,3),IWAG1(10,2),IWAG2(100,3)
      DIMENSION I2TNO(100,2),I2SUB(100,4),IPSUM(66,3)
      INTEGER TEAMNO(2),GAMETAB(12,12),ROUND(12,12)
      INTEGER DD,MM,YY,RND
      CHARACTER*1 CDTL,CLAD
      CHARACTER*2 TEAM(2),ALLTEAM(12),T1SUM(66,2)
C
      COMMON GAMETAB
      COMMON /TNUMBER/ TEAMNO
      COMMON /TNAMES/ TEAM,ALLTEAM
      COMMON /TIMES/ DD,MM,YY,RND,ROUND
      COMMON /SUMSCOR/ WT0,WT1,WT2,WTH1,WTH2,WTH3,IPSUM
      COMMON /SUMTEAM/ T1SUM
C
      WRITE(3,11)
11    FORMAT(1X,'ENTER THE NUMBER OF STEPS REQUIRED (I2)')
      READ(2,'(I2)') LOOPS
      CALL OUTMAT(LGNO,MGNO,0,0)
      DO 10 LNO=1,LOOPS
C
      IP=0
      DO 50 ITL1=1,12
      DO 50 ITL2=1,12
      IF(ITL2.LE.ITL1) GO TO 50
      IP=IP+1
      TEAMNO(1)=ITL1
      TEAMNO(2)=ITL2
      TEAM(1)=ALLTEAM(ITL1)
      TEAM(2)=ALLTEAM(ITL2)
C     LOOK FOR I=0 GAME
      CALL FIXI0(IOSCORE,NIN0,IWAG0)
C     LOOK FOR I=1 GAME
      CALL FIXI1(I1TNO,I1SUB,NIN1,IWAG1)
C     LOOK FOR I=7 GAME
      CALL FIXI2(I2TNO,I2SUB,NIN2,IWAG2)
C     ACCRUE SUMMARY DATA
      CALL PARTSUM(IOSCORE,NIN0,IWAG0,I1SUB,NIN1,IWAG1,
     1   I2SUB,NIN2,IWAG2,IP)
C
C     ACCRUE SUMMARY DATA WITH TIME FACTORS
      CALL PARTSU2(IOSCORE,NIN0,IWAG0,I1SUB,NIN1,IWAG1,
     1   I2SUB,NIN2,IWAG2,IP)
C
C     ACCRUE SUMMARY DATA WITH TIME SQUARED FACTORS
      CALL PARTSU3(IOSCORE,NIN0,IWAG0,I1SUB,NIN1,IWAG1,
     1   I2SUB,NIN2,IWAG2,IP)
50    CONTINUE
C
C     SUMMARISE RESULTS & WRITE NEW MATRIX
10    CALL LOOPSUM(IP,LGNO,MGNO,LNO,LOOPS)
      RETURN
      END
C
      SUBROUTINE INTAB(LGNO,MGNO,IND)
      COMMON GAMETAB,DIFFMAT
      COMMON /TNAMES/ TEAM,ALLTEAM
      COMMON /TIMES/ DD,MM,YY,RND,ROUND
      COMMON /SUMSCOR/ WT0,WT1,WT2,WTH1,WTH2,WTH3
      INTEGER GAMETAB(12,12),ROUND(12,12),DD,MM,YY,RND
      INTEGER DIFFMAT(12,12)
      INTEGER GN,ST1,ST2,SWN,SWN2,RI,PWS
      CHARACTER*2 T1,T2,WT,ALLTEAM(12),TEAM(2),TIS,PW
C
C     INITIALISE DATA
      II=1
      DO 10 I=1,12
      DO 10 J=1,12
      GAMETAB(I,J)=9999
      ROUND(I,J)=0
10    DIFFMAT(I,J)=9999
C
      OPEN(UNIT=5,FILE='VFLTAB',STATUS='OLD')
      REWIND 5
      READ(5,9)DD,MM,YY,WT0,WT1,WT2,WTH1,WTH2,WTH3,IND
9     FORMAT(30X,I2,1X,I2,1X,I2,//6X,F7.4,2X,F7.4,2X,F7.4,//
     1      6X,F7.4,2X,F7.4,2X,F7.4,3X,I1,3(/))
      IF((WT0+WT1+WT2).LT.0.000001) CALL ERR(7,0)
      IF((WTH1+WTH2+WTH3).LT.0.000001) CALL ERR(8,0)
      IF(WTH1.EQ.0.OR.WTH2.EQ.0) CALL ERR(9,0)
      IF(IND.NE.1.AND.IND.NE.2) CALL ERR(10,0)
C
      DO 20 II=1,MGNO
      READ(5,19,END=40) GN,T1,T2,ST1,ST2,WT,SWN,RI,PW,PWS
19    FORMAT(1X,I3,1X,(A),3X,(A),1X,I3,1X,I3,1X,(A),1X,I3,1X,I2,
     1      9X,(A),1X,I3)
      SWN2=SWN
      IF(PWS.EQ.0) CALL ERR(13,-GN)
      IF(GN.NE.II) CALL ERR(3,GN)
      IDIFF=ST1-ST2
```