

```

60  ML=MINO(ML,MLT)
    MH=MAXO(MH,MHT)
    RETURN
    END

    SUBROUTINE SPLIT(LOW,LARGE,K,G,ML,MH)
C   GIVEN G(K(I)),I=LOW,LARGE
C   THEN REARRANGE K(I),I=LOW,LARGE AND FIND ML,MH SO THAT
C   (G(K(I)),I=LOW,(ML-1)) .LT. 0 AND
C   (G(K(I)),I=ML,MH)=0. AND
C   (G(K(I)),I=(MH+1),LARGE) .GT. 0.
    DIMENSION K(LARGE),G(41)
    ML=LOW
    MH=LARGE
10   ML=ML-1
20   ML=ML+1
    IF(G(K(ML)))20,30,30
30   MH=MH+1
40   MH=MH-1
    IF(G(K(MH)))50,50,40
50   KEEP=K(MH)
    K(MH)=K(ML)
    K(ML)=KEEP
    IF(G(K(ML)).NE.G(K(MH)))GO TO 10
    DO 60 I=ML,MH
    II=I
    IF(G(K(I)).NE.0.0) GO TO 70
60   CONTINUE
    RETURN
70   KEEP=K(MH)
    K(MH)=K(II)
    K(II)=KEEP
    GO TO 30
    END

```