```
286  003A96I        KBC(III)=K
287  003AAAI        IITY(III)=6
288  003AB8I        I1=I+1
289  003AC8I        I2=I-1
290  003AD6I        J1=J+1
291  003AE4I        J2=J-1
292  003AF2I        IF(I .EQ. L1) I2=I
293  003B10I        IF(I .EQ. L2) I1=I
294  003B2EI        IF(J .EQ. M1) J2=J
295  003B4CI        IF(J .EQ. M2) J1=J
296  003B6AI        K1=K+1
297  003B78I        K2=K+2
298  003B86I        P1=(Y(I1,J1,K)-Y(I1,J2,K))*(Z(I1,J2,K)-Z(I2,J,K))-
299             1      (Z(I1,J1,K)-Z(I1,J2,K))*(Y(I1,J2,K)-Y(I2,J,K))
300  003CC2I        P2=(Z(I1,J1,K)-Z(I1,J2,K))*(X(I1,J2,K)-X(I2,J,K))-
301             1      (X(I1,J1,K)-X(I1,J2,K))*(Z(I1,J2,K)-Z(I2,J,K))
302  003D0FEI       P3=(X(I1,J1,K)-X(I1,J2,K))*(Y(I1,J2,K)-Y(I2,J,K))-
303             1      (Y(I1,J1,K)-Y(I1,J2,K))*(X(I1,J2,K)-X(I2,J,K))
304  003F3AI        PQ=SQRT(P1*P1+P2*P2+P3*P3)
305  003F86I        P1=P1/PQ
306  003F98I        P2=P2/PQ
307  003FAAI        P3=P3/PQ
308  003FBCI        R1=1.-P1**2
309  003FD8I        R2=1.-P2**2
310  003FF4I        R3=1.-P3**2
311  004010I        SINX(III)=SQRT(R1)
312  004036I        SINY(III)=SQRT(R2)
313  00405AI        SINZ(III)=SQRT(R3)
314  00407EI        Q1=X(I,J,K)-X(I,J,K1)
315  0040D0I        Q2=Y(I,J,K)-Y(I,J,K1)
316  004122I        Q3=Z(I,J,K)-Z(I,J,K1)
317  004174I        AA=SQRT((Q1-P1)**2+(Q2-P2)**2+(Q3-P3)**2)
318  0041F2I        CC=1.0
319  0041FEI        BB=SQRT(Q1*Q1+Q2*Q2+Q3*Q3)
320  00424AI        COTH=(BB*BB+CC*CC-AA*AA)/(2*BB*CC)
321  00428CI        YN(III)=BB*ABS(COTH)
322  0042B8I        Q1=X(I,J,K)-X(I,J,K2)
323  00430AI        Q2=Y(I,J,K)-Y(I,J,K2)
324  00435CI        Q3=Z(I,J,K)-Z(I,J,K2)
325  0043AEI        BB=SQRT(Q1*Q1+Q2*Q2+Q3*Q3)
326  0043FAI        AA=SQRT((Q1-P1)**2+(Q2-P2)**2+(Q3-P3)**2)
327  004476I        COTH=(BB*BB+CC*CC-AA*AA)/(2*BB*CC)
328  004498I        YN1(III)=(BB*ABS(COTH)+YN(III))*0.5
329  0044F8I        IJLC(I,J,K)=III
330  004524I        III=III+1
331  004532I     30 CONTINUE
332  004580I        IITO=III-1
333  00458EI        WRITE(6,100) LO,MO,NO,IITO
334  0045B8I    100 FORMAT(4I5)
335  0045C4I        RETURN
336  0045CCI        END
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