

SUBROUTINE F_Z(F,Z,N1,KH,H)

REAL KH,F(N1,N1),Z(N1),Y(51)

COMPLEX IM

M1=N1-1

T1=H/M1

DO I=1,N1

Y(I)=-H+T1*(I-1)

END DO

S=H/M1

DO I= 1,N1

YI= Y(I)

DO J= 1,N1

J1= J-1

I1= J+1

IF(J.EQ.1) SJ= 0 2011 埃及尼羅河之旅

IF(J.NE.1) SJ= S

IF(J.EQ.N1)SJJ= 0

IF(J.NE.N1)SJJ= S

YJ=Y(J)

IF(J.EQ.1) YJ1= -1.0

IF(J.NE.1) YJ1= Y(J1)

YJJ= Y(I1)

Q=0.57735

ONO=0.5*(1.+2.*KH/SINH(2.*KH))

Y1=(YJ+YJ1)/2

Y2=(YJ+YJJ)/2.

ZE1=Y1+SJ/2*(-Q)

ZE2=Y1+SJ/2*Q

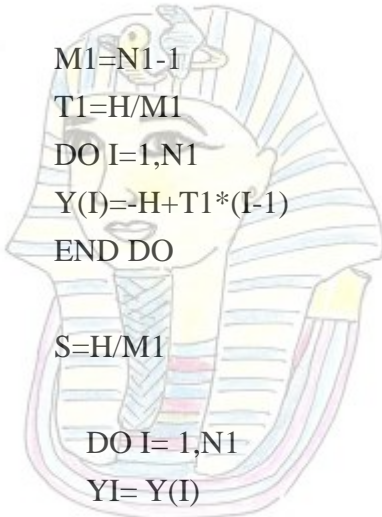
Z11=Y2+SJJ/2*(-Q)

Z22=Y2+SJJ/2*Q

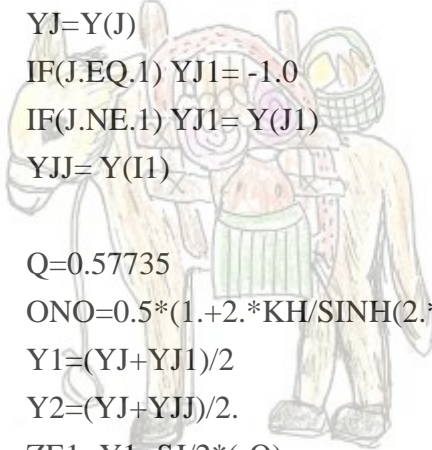
U1=SJJ/4*((1+Q)*COSH(KH*(Z11+H))+(1-Q)*COSH(KH*(Z22+H)))

U2=SJ/4*((1-Q)*COSH(KH*(ZE1+H))+(1+Q)*COSH(KH*(ZE2+H)))

HH=-(U1+U2)*COSH(KH*(YI+H))/ONO/SINH(KH)/COSH(KH)*KH**2



載滿珠寶的駱駝

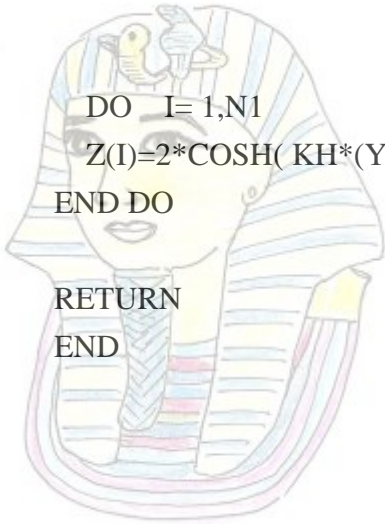


阿拉丁神燈

```

IF( J.EQ.1 .OR. J.EQ.N1 ) HH=HH*2
F(I,J)= HH
END DO
END DO

```



```

DO I= 1,N1
Z(I)=2*COSH( KH*(Y(I) + H) )/COSH(KH)*IM*KH
END DO
RETURN
END

```



載滿珠寶的駱駝

2011 埃及尼羅河之旅



載滿貨品的驢子



阿拉丁神燈