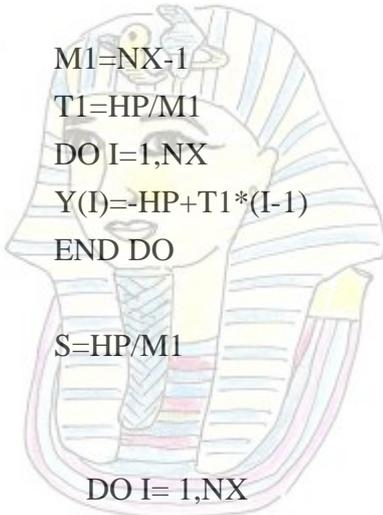


SUBROUTINE FP(FP,NX,KHP,HP)

REAL KHP,FP(NX,NX),Z(NX),Y(51)

COMPLEX IM

M1=NX-1
T1=HP/M1
DO I=1,NX
Y(I)=-HP+T1*(I-1)
END DO



S=HP/M1
DO I= 1,NX
YI= Y(I)

DO J= 1,NX

J1= J-1

I1= J+1

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IF(J.EQ.1) SJ= 0

IF(J.NE.1) SJ= S

IF(J.EQ.NX)SJJ= 0

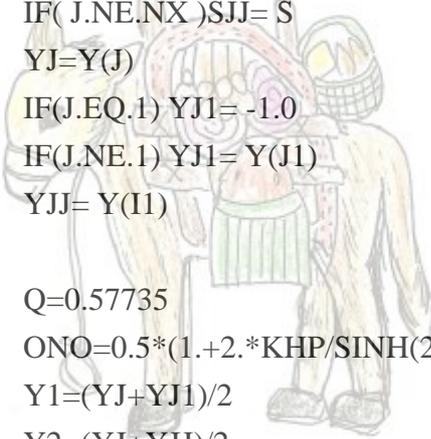
IF(J.NE.NX)SJJ= S

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.*KHP/SINH(2.*KHP))

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(KHP*(Z11+HP))+(1-Q)*COSH(KHP*(Z22+HP)))

U2=SJ/4*((1-Q)*COSH(KHP*(ZE1+HP))+(1+Q)*COSH(KHP*(ZE2+HP)))



載滿珠寶的駱駝



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HH=-(U1+U2)*COSH(KHP*(YI+HP))/ONO/SINH(KHP)/COSH(KHP)*KHP**2

IF (J.EQ.1 .OR. J.EQ.NX) HH=HH*2

FP(I,J)= HH

END DO

END DO

RETURN

END



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