

- c \*\*\*\* 輸入四個端點自動分割四點元素(平面) \*\*\*\*
- c modified 2000/6/13 時針

```

parameter(nt=1000)
real x(nt),y(nt),z(nt)

OPEN(UNIT=1,FILE='surface.in')
OPEN(UNIT=4,FILE='surface_node.dat')

```

```

write(*,*) '輸入四個端點自動分割四點元素(平面)'
write(*,*) '輸入 A,B,C,D 四個端點的座標'
write(*,*)
write(*,*) '輸入 例'

```

```

write(*,*)
write(*,*)
write(*,*) '      NJ(x) 方向分割數 羅漢之旅'
write(*,*) ' --> '
write(*,*) '      1  2  3  4  5'
write(*,*) '      1 A-----B'
write(*,*) ' N  2 +-----+'
write(*,*) ' I  3 +-----+'
write(*,*) ' 方 4 +-----+'
write(*,*) ' 向 5 +-----+'
write(*,*) ' 分 6 D-----C'
write(*,*) ' 割'
write(*,*) ' 數'
write(*,*) ' ='
write(*,*) ' 6'

```

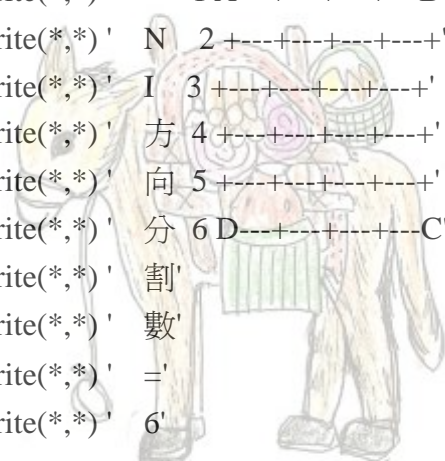
```

no=1
write(*,*)
write(*,*) '水面邊界面編號 no = 1'
write(*,*)
write(*,*) '輸入 NI(y) 方向的座標數'
read(*,*) ni

```



戴滿珠寶的駱駝



載滿貨品的驢子



阿拉丁神燈

```

write(*,*)
write(*,*)
write(*,*) '輸入 NJ (x) 方向的座標數'
read(*,*) nj

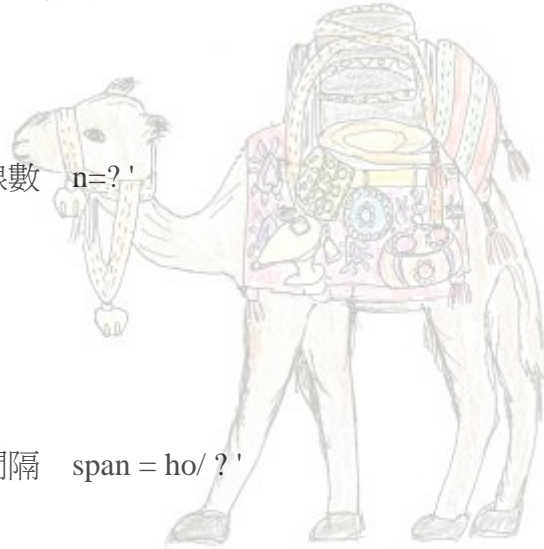
```

```

write(*,*) '輸入造波板前特別線數 n=?'
read(*,*) n
if(n.ne.0) then
write(*,*) '輸入水深 h=?'
read(*,*) ho

write(*,*) '輸入造波板前特別間隔 span = ho/?'
read(*,*) span
end if

```



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```

read(1,*) xa,ya
read(1,*) xb,yb
read(1,*) xc,yc
read(1,*) xd,yd

```

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```

ni1=ni-1
nj1=nj-1
kn=ni1*nj1

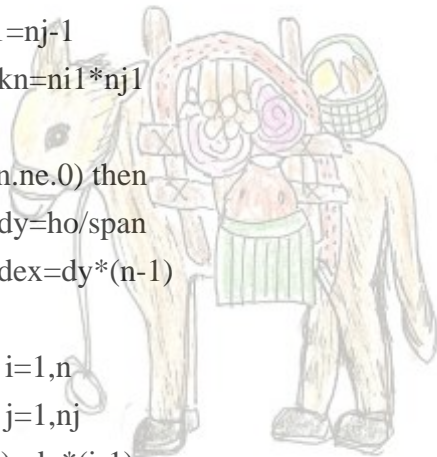
if(n.ne.0) then
dy=ho/span
dex=dy*(n-1)

```

```

do i=1,n
do j=1,nj
y(j)=dy*(i-1)
x(j)=(xb-xa)/nj1*(j-1)
z(j)=0
end do
write(4,4) ((x(j),y(j),z(j),no,i,j),j=1,nj)
end do
end if

```



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```

do i=n+1,ni
do j=1,nj
if(n.ne.0) y(j)=dex+(yc-yb-dex)/(ni-n)*(i-n)
if(n.eq.0) y(j)=(yc-yb)/ni1*(i-1)
x(j)=(xb-xa)/nj1*(j-1)
z(j)=0
end do
write(4,4) ((x(j),y(j),z(j),no,i,j),j=1,nj)
end do

```

4

```

FORMAT(3F10.4,3i5)

```

```

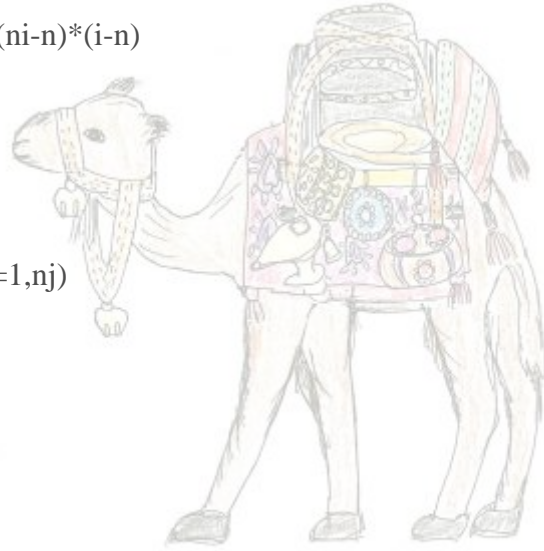
stop

```

```

end

```



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載滿貨品的驢子



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