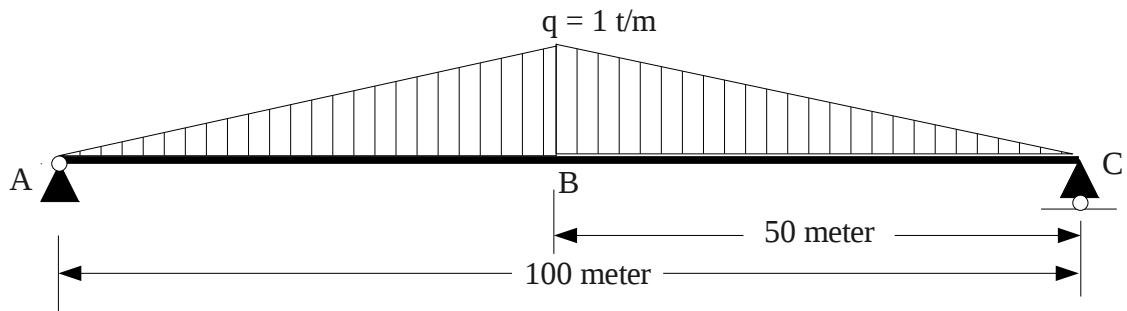


SOAL LATIHAN UJIAN KUIS



Diminta:

1. Buat Program Fortran untuk menghitung Bidang Momen dan Lintang dari konstruksi tersebut di atas
2. Buat Flow Chart dari program tersebut.

Jawab:

```
open(unit=1,file='latihan1.out',status='unknown')
q = 1
Va = 25
n = 100
do i=1,n+1
x = real(i-1)
if(x.LE.50)then
qx = q*x/50
qb = 0.5*qx*x
BM = Va*x - qb*(x/3)
BQ = Va - qb
write(1,20)x,BM,BQ
write(*,20)x,BM,BQ
20 format(3(F20.15,2x))
end if
if(x.GE.50)then
qa = 0.5*q*50
qx = q*(100 - x)/50
xb = x - 50
BM = Va*x-qa*(x-(50*2/3))-0.5*(q-qx)*xb*xb*(2/3)-(qx*xb*xb/2)
BQ = Va - qa - 0.5*(q-qx)*xb - qx*xb
write(1,20)x,BM,BQ
write(*,20)x,BM,BQ
end if
end do
stop
end
```

# DIAGRAM ALIR PROGRAM

