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C*****
C** Program to tabulate values for the Shear and Moment
C** for a simply supported beam
C*****
PROGRAM SHEAR_MOMENT
INTEGER I
REAL V, M, L,x
PRINT*, ' Enter the concentrated Load P?'
READ *, P
PRINT*, ' Enter the length of the beam L?'
READ *, L
PRINT*, '
          X           V           M'
PRINT*, '
          _____ '
x=0.0
DO 100 I=1,11
IF (x.LE.l/4.0)THEN
V=3*P/4.0
M=3*P*x/4.0
PRINT 5, x, V, M
x=x+L/10.0
ELSE
V=-P/4.0
M=3*P*x/4.0-P*(x-L/4.0)
PRINT 5,x, V, M
x=x+L/10.0
END IF
CONTINUE
100 FORMAT(1x, 3F12.2)
5 END

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