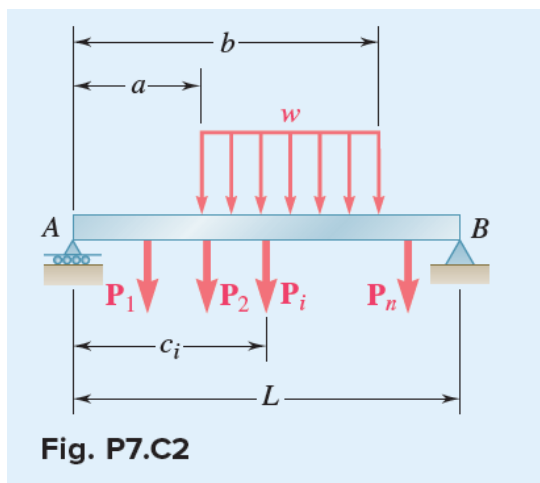**CVEN 221 Honors – Homework #21 and 22**

This program applies to the following problems:

- Homework 21: Problems 1 and 2
- Homework 22: Problems 1,2, and 7 through 10.

Several concentrated loads and a uniformly distributed load are to be applied to a simply supported beam AB. As a first step in the design of the beam, write a computer program that can be used to plot the shear and bending moment across the beam for the arbitrary loading shown using given increments Δx. Reduce the increments until the graphs are reasonably smooth. In addition, output the maximum and minimum values for the shear and moments across beam AB.

Fig. P7.C2

You may check your program by solving the problems given by McGraw-Hill Connect.