CVEN 305 Honors - Homework #13 Supplemental Problems

1) The supports of beam AB consist of a fixed support at end A and a roller support located at point D. Write a computer program that can be used to calculate the slope and deflection at the free end of the beam for values of a from 0 to L using given increments Δa. Apply this program to calculate the slope and deflection at point B for each of the following cases:

	L	ΔL	W	E	Shape
(a)	12 ft	0.5 ft	1.6 k/ft	29e6 psi	W16 X 57
(b)	3 m	0.2 m	18 kN/m	200 GPa	W460 X 113

You may also use your program to solve the problems given by McGraw-Hill Connect.