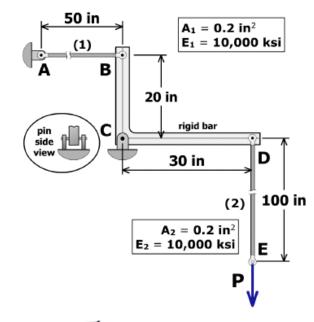
Rigid bar BCD is supported by a pin at C and by rod (1). There is no strain in the bars (1) and (2) before load P is applied. If the axial strain in rod (1) is  $1,000 \mu in/in$  after load P is applied, determine:

- a. the change in length of rod (1)
- b. the stress in rod (1)
- c. the force in rod (1)
- d. the magnitude of load P
- e. the stress in rod (2)
- f. the strain in rod (2)
- g. the change in length of rod (2)
- h. the distance point D moves downward
- i. the distance point E moves downward
- j. Kermit the Frog's middle name

(be sure to include units and box answers)



$$P = \frac{20}{30} N_1 = 1333 \text{ lb}$$

