

(Due Mar 3rd, 2:00 PM)

Problem no. 1

Determine the resultant load on the most stressed bolt in the eccentrically loaded connections shown, using the elastic method.

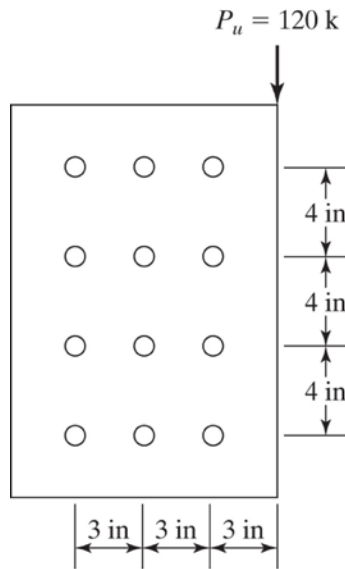


Figure 1. Program 1 sketch

Problem No. 2

Using the instantaneous center method, determine the ASD allowable strength of the bearing type connection below using 7/8-in A325-N and manual chapter 7 tables. Undergraduate students only need to use the manual table method. Graduate students need to program it and find the capacity using the analytical method.

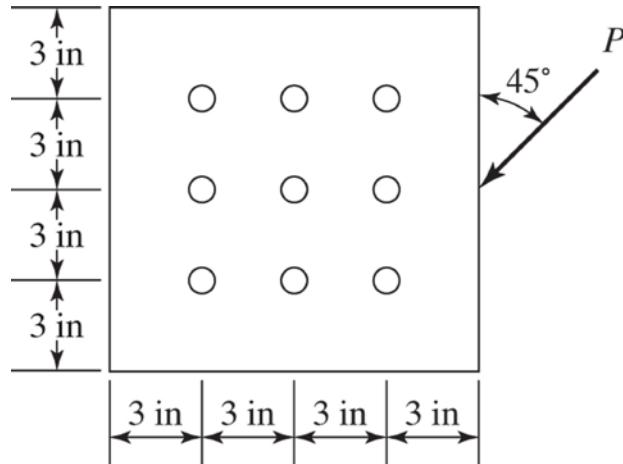


Figure 2. Program 2 sketch