Solutions:

K_1165_1647 soln: -1.39341e+08
K_1664_1339 soln: -4.84341e+07
Q_5244 soln: 0
Q_5259 soln: 19.6078
warning: matrix singular to machine precision, rcond = 2.74219e-18
warning: called from
   K_global at line 126 column 7

d_3616(nodal displacement) soln: -1.33336e-07
d_5476(nodal displacement) soln: -2.59778e-07
max_stress =

  5.3478e+07   0

>>

From the Homework Handout we should expect stress to be 6.25 10^7 / × N/m^2. We can see that the current solution is **off by about 14%**, this is a much larger difference than the expected error of less than 0.6%. There must be an error in the setup that is creating this error.