Problem 1: Due Friday 020420011

Construct your own 10 by 10 matrix and use LUdcmp program from Chapter 2 of Numerical recipes or an equivalent program to reduce the matrix to LU form.

Solve for the inverse and check your solution by claculating A A^(-1) =1.

Extra: Make one line in the matrix equal to (1 + \epsilon} times another row.

See how small \epsilon can be before problems arise.

Have fun!!