CS 100
Fall 2015
Lab #3

1. What is the result of the following code. First solve it with pen and paper and then check your answer using Octave/Matlab.

x = [[1:3]'*[1:3] , 0*[[1:3];[1:3];[1:3]]]

2.Create a 4x3 matrix M where each entry M(i,j) is i*j.
   a. Compute the transpose of M and assign it to a matrix called N. What are the dimensions of N?
   b. Compute M(3,:)
   c. Compute N(:,3)
   d. Compute M([1 4], [2 3])
   e. Multiply M by the vector [4 1 5]' and assign the result to y. What is the size of y?

3. Let M be an m x n matrix. Write a piece of code that replaces the lower right 2x2 portion of M by x where x = [10 20; 100 200]. For instance,