CS101: Homework #3
This assignment is due by 10/08.

2.2 Quiz.

1. Assume that array c is defined as shown, and determine the contents of the following subarrays:

   \[ c = \begin{bmatrix} \begin{array}{cccc} 1.1 & -3.2 & 3.4 & 0.6 & 0.6 & 1.1 & -0.6 & 3.1 & 1.3 & 0.6 & 5.5 & 0.0 \end{array} \end{bmatrix} \]

   (a)   \( c(2,:) \)
   (b)   \( c(:,\text{end}) \)
   (c)   \( c(1:2,2:\text{end}) \)
   (d)   \( c(6) \)
   (e)   \( c(4:\text{end}) \)
   (f)   \( c(1:2,2:4) \)
   (g)   \( c([1\ 3],2) \)
   (h)   \( c([2\ 2],[3\ 3]) \)

2. Determine the contents of array a after the following statements are executed.

   (a)   \[ a = \begin{bmatrix} 1 & 2 & 3; 4 & 5 & 6; 7 & 8 & 9 \end{bmatrix}; \]
   \[ a([3\ 1],:) = a([1\ 3],:); \]

   (b)   \[ a = \begin{bmatrix} 1 & 2 & 3; 4 & 5 & 6; 7 & 8 & 9 \end{bmatrix}; \]
   \[ a([1\ 3],:) = a([2\ 2],:); \]

   (c)   \[ a = \begin{bmatrix} 1 & 2 & 3; 4 & 5 & 6; 7 & 8 & 9 \end{bmatrix}; \]
   \[ a = a([2\ 2],:); \]

3. Determine the contents of array a after the following statements are executed.

   (a)   \[ a = \text{eye}(3,3); \]
   \[ b = [1 \ 2 \ 3]; \]
   \[ a(2,:) = b; \]

   (b)   \[ a = \text{eye}(3,3); \]
   \[ b = [4 \ 5 \ 6]; \]
   \[ a(:,3) = b; \]

   (c)   \[ a = \text{eye}(3,3); \]
   \[ b = [7 \ 8 \ 9]; \]
   \[ a(3,:) = b([3\ 1\ 2]); \]