CS101: Homework #2
This assignment is due by 02/20 for 001/003/005.

2.1 Quiz.

2. Answer the following questions for the array shown below.

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

(a) What is the size of \( c \)?
(b) What is the value of \( c(2, 3) \)?
(c) List the subscripts of all elements containing the value of 0.6.

3. Determine the size of the following arrays. Check your answers by entering the arrays into MATLAB and using the `whos` command or the Workspace Browser. Note that the later arrays may depend on the definitions of arrays defined earlier in the exercise.

(a) \( u = [10 \ 20^i \ 10+20] \);
(b) \( v = [\ -1; \ 20; \ 3] \);
(c) \( w = [1 \ 0 \ -9; \ 2 \ -2 \ 0; \ 1 \ 2 \ 3] \);
(d) \( x = [u' \ v] \);
(e) \( y(3, 3) = -7; \)
(f) \( z = [\text{zeros}(4,1) \ \text{ones}(4,1) \ \text{zeros}(1,4)'] \);
(g) \( v(4) = x(2, 1) \);

4. What is the value of \( w(2, 1) \) above?
5. What is the value of \( x(2, 1) \) above?
6. What is the value of \( y(2, 1) \) above?
7. What is the value of \( v(3) \) after statement (g) is executed?