Lab Objectives:
To get up and running, familiarize ourselves with the UNLV computing system (or comparable system of our choice). Also, to be sure we can reconcile challenges of inputting and outputting matrices.

Description of Lab:
You will be writing a program that will allocate space for a real-valued matrix, be able to identify any one element in that matrix, and output that matrix.

Requirements: The program should...
1. Ask for the matrix dimensions, rows and columns, and allocate space
2. Ask for the matrix elements (or values $a_{ij}$)
   NOTE: The program can assume some intelligence on the part of the user… for example, it is assumed the user will enter the appropriate number of elements in the matrix, will enter numbers, etc. You may incorporate a maximum allowable matrix dimension.
3. Your storage of the matrix should be such that you are able to identify any element of that matrix according to its indices.
4. Output the matrix in a readable format, which means the numbers should be aligned as they are in the matrix itself, and rounded to two decimal places.
5. The program should ask the user for a cell reference to be outputted.

What to Turn In:
1. A printout of your original code
2. A printout of the results for the following sample data inputs:
   \[ A = \begin{bmatrix} 1 & 2/7 & 3 \\ 3 & 1 & 7 \\ 4 & 3 & 6 \end{bmatrix} \text{ output } a_{23} \]
   \[ B = \begin{bmatrix} -1 & 7 & 2/3 & 0 \\ 1 & 2 & 8 & 1 \end{bmatrix} \text{ output } b_{33} \]
   \[ C = \begin{bmatrix} 1 \end{bmatrix} \text{ output } c_{11} \]
3. Please be sure to label your pages at the top (i.e. “Original Code page 1 of 2” and “Run ‘a’ page 1 of 1”, etc).
4. Include a cover sheet, with “Programming Assignment 1”, your name, and date.