Lab: I/O

Part A:

- Populate a 2-Dimensional array of size 20 x 10 with random integers in the range of 1 9999.
- 2. Write the integers to a text file delimited by a pipe character, |.

Part B:

1. Read the integers from text file you just created into an array. The new matrix must be the transpose of the original.

Ex.

For example:

$$A = \begin{bmatrix} 1 & 2 & -1 & 4 & 0 \\ 5 & 12 & 1 & -1 & -3 \\ 7 & 5 & 3 & 2 & 0 \end{bmatrix}$$

Then A transpose, A^T , equals the following 5×3 matrix:

$$A^{T} = \begin{bmatrix} 1 & 5 & 7 \\ 2 & 12 & 5 \\ -1 & 1 & 3 \\ 4 & -1 & 2 \\ 0 & -3 & 0 \end{bmatrix}$$