Design (Algorithm) for Homework 4

* Comment with my information and description at top of code.
* Declare functions.
* Create void function that prints out my information.
* Create main function.
  + Declare variables.
  + Declare vector.
  + Call MyInfo function.
  + Ask for user input file.
    - Check file for opening failure.
  + Else loop to read file and stores data for use.
  + 2D vector.
  + Pass values into Check function.
* Create void function that displays the matrix image.
  + Declare variables.
  + For loop for less than return size.
* Create vector matrix function.
  + Declare vector matrix.
  + Declare variables.
  + Store file into a matrix.
    - Increment count (knt).
  + Return matrix.
* Create void function to Print results into output file.
  + Declare variables
  + User given output output filename.
    - Check for opening failure.
  + For loop to print matrix into the file.
  + Print results of program into file.
* Create void function to perform the passes.
  + Declare variables.
    - Compare vectors.
    - Replace vectors.
  + First pass.
    - If Case 1.
      * If Case 2.
        + If Case 3.
  + Second pass.
    - Could not get this to work for some reason….
  + Clear vector contents.
  + Add element at the end of vector.
  + Bonus.
    - Count the number of pixels in the image.
    - Increment by 1.
  + Pass values into Print function.
* END PROGRAM.