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.

    o Declare variables.

    o Declare vector.

    o Call MyInfo function.

    o Ask for user input file.

        ▪ Check file for opening failure.

    o Else loop to read file and stores data for use.

    o 2D vector.

    o Pass values into Check function.

- Create void function that displays the matrix image.

    o Declare variables.

    o For loop for less than return size.

- Create vector matrix function.

    o Declare vector matrix.

    o Declare variables.

    o Store file into a matrix.

        ▪ Increment count (knt).

    o Return matrix.

- Create void function to Print results into output file.

    o Declare variables

    o User given output output filename.

        ▪ Check for opening failure.

    o For loop to print matrix into the file.

    o 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.