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CS 135

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Final Project

**Image Processor:**

Allow users to choose an option from the menu. Depending on the choice, it will show whatever image they want to see (unless they choose to end the program). If they edit the image, new choices will be displayed, allowing them to alter the image, after which it will display the new version of that image. The user then will have another choice on whether they want to save the new version to a file. After all that they will be taken back to the first menu.

**Functions:**

main()

Functionality: Display the final image and prompt the main menu. Will be in a loop and if a user chooses to exit, then the program will end.

menuChoice1()

Returned output: user choice.

Functionality: Gets return value and stores it as a variable to whichever choice was made. (to the respective function)

menuChoice2()

Returned output: user choice.

Gets return value and stores it as a variable to whichever choice was made. (to the respective function)

loadNewImage()

Input parameters: 2D array, columns and rows, file and file pointer

Functionality: Add the new values to the 2D array to another file.

displayImage()

Input parameters: 2D array, columns and rows, file and file pointer

Functionality: Display the values that are currently saved in the 2D array.

editImage()

Input parameters: 2D array, columns and rows,

Functionality: Add function call for function menuChoice2 to get what the user choice was and then use that to carry on with the choice.

crop()

Input parameters: 2D array, columns and rows

Returned output: The new size of the 2D array

Functionality: Prompt what row/columns they want to crop from the 2D array

dim()

Input parameters: 2D array, columns and rows, pointer for the dim level

Returned output: The new dimmed value.

Functionality: Characters in the 2D array will subtract one brightness value to dim.

brighten()

Input parameters: 2D array, columns and rows, pointer for the brightness

Returned output: The new brightened value.

Functionality: Characters in the 2D array will add one brightness value to brighten.