Design Document
Parker Henry
Image Processing

Data:

Image size – 2 integers declared for length and width

File name – file to get image information from

Menu choice – int

Second menu choice – int

Crop parameters – ints

Save option - char

Functions:

Main()

Functionality:

Display the first menu and continue based off user choice

If user chooses to display current image read file that image is stored in (DisplayImage())

If user choses to load new image get user input for file name and display image (DisplayImage())

If user chooses to edit image display second menu and continue based off of user choice

If user choses to brighten increase by one and display (BrightenPic())

If user choses to dim decrease brightness value by one and display (DimPic())

In either case allow option to save and prompted for a file name (SavePic())

Iterate back to first menu until exit option is chosen

FirstMenu()

Input:none

Output:choice

Functionality: display options (load,display,edit, or exit) and allow user to make a selection

DisplayImage()

Input:file pointer

Output: none

Functionality: should print the image to the screen

SecondMenu()

Input:none

Output:choice

Functionality:should display options(crop, dim, brighten) and allow user to make choice

BrightenPic()

Input: file pointer for input and output

Output: new file with new pic info (use pointer so its void)

Functionality: should increase brightness value by 1 and display new image information as well as give option to save it to new file

DimPic()
Input: file pointer for input and output
Output: new file with new pic info (use pointer so its void)
Functionality: decrease brightness value by one and display save new image information as well as give option to save it to new file

SavePic()
Input: new image size, new image brightness level, file pointer
Output: void
Functionality: get user input for file name and save new data to file