

# **Design Document First Draft**

## **Ellison Domingo**

### **Erinstagram**

#### **Functions -**

`main()`

Functionality: Present user with menu (load image, display current image, edit current image, exit program), perform different actions based on user's menu choice

`loadImage()`

Functionality: Ask user for file name, connect a file pointer to file if possible, copy file's content into a 2D array

`displayImage()`

Functionality: Repeat the following for each row: Repeat the following for each column: Display on the screen the value of the array at the current position, then move to the next one

`editMenu()`

Functionality: Present user with menu (crop, dim, brighten), perform different actions based on user's menu choice, then ask user if they want to save the edited image to a file; if so, prompt for a file name, then return to main menu

`crop()`

Functionality: Prompt user for a smaller section of the original image (can't be smaller than the original image), create a new array of the provided dimensions, write into the new array using the provided section of the original image as a reference

`dim()`

Functionality: For each element in the array, read the element and set it to the equivalent of one brightness level lower (if not already at lowest)

`brighten()`

Functionality: For each element in the array, read the element and set it to the equivalent of one brightness level higher (if not already at highest)

`saveImage()`

Functionality: Write the array with the edited image into the user-designated file