

- Image
- 2-D arrays
- Int columns
- Int rows
- File pointers

CS Tools:
Variables
Program Basic
Pointers
2-D arrays
File IO
Formatted IO

Selection
Iteration

Program Overview:

At the beginning of the program, a menu will be shown to the user. The user can load a new image, display image, edit or exit the program. If edit program is chosen, image can be cropped, dim, brighten, and rotate 90 degrees. Then save image to new file

Functions:

main()

Data:
Functionality: Print menu options for user to choose.
Use printf and scanf for each choice use if statement, and then join functions

loadnewimage()

Data: image
Functionality:
- take image - read image

displaycurrentimage()

Data: image
Functionality:
- take image
- display image

cropimage()

Data: Image, 2-D arrays, int rows, int columns,
Functionality:
- take image
- ask user how much and where they want to crop
- crop image
- return image

dimimage()

Data: Image, 2-D arrays, int rows, columns
Functionality:
- take image
- dim each pixel in image
- return image

brightenimage()

Data: Image, 2-D arrays, int rows, int columns
Functionality:
- take image
- brighten each pixel in image
- return image

rotate90degrees()

Data: Image, 2-D arrays, int rows, int columns
Functionality:
- take image
- move all pixels from original spot to
- return image

saveimage()

Data: File pointer, file IO
- take image
- save as new image / file