

Lab5
Understand the advanced “PhotoLab” program

Name _____

Please read assignment3 and answer one of the following questions.

1. This is a group of questions for module decomposing:
 - (a) What is the input and output of the “PhotoLab” Program?
 - (b) How many modules will you need to design for this assignment?
 - (c) How to compile multiple modules into one program?
 - (d) What are the advantages to decompose one program into multiple modules?
 - (e) Why would we need header files?
 - (f) What will you put in the header files?
 - (g) How could a function $fa()$ in file $A.c$ call another function $fb()$ which is defined in file $B.c$. (Please refer to the slides for Lecture 6&7)

2. This is a group of questions for the bonus DIP function:
 - (a) What is the algorithm for blurring a picture?
 - (b) In order to get the correct value for the blurred pixels, what shall we take care of, e.g. do we need any temporary variables? How to deal with the pixels on the borders?
 - (c) What is the algorithm for edge detection?
 - (d) How to compare the color difference between two pixels without using the square root function?