The purpose of this homework is to introduce you to the basic image formats, simple image manipulation techniques, and the sample code. For this class, you are expected to have sufficient coding skills for assignment 0.

The sample code includes the following functions:

- Increase/decrease the intensity of a gray-level image.
- Basic image thresholding (black if intensity below of the threshold T, white if above or equal threshold T).
- Image scaling function (reduction/expansion of 2) using pixel averaging technique for reduction and pixel replication technique for expansion.

With the sample code from TA page, your should modify the thresholding (binarization) function to double thresholding.

- Giving two threshold T1 and T2, the pixels with intensity between T1 and T2 will be white, otherwise will be black.

Write a report for this assignment

- Your report should include results of the running the sample code and the new function.
- It should include input and output images.
- Discuss the performance of the functions and your experience with this assignment.

How to submit: (**note that this assignment will be not collected or graded**)

Some related material: See TA page for the sample programs (Linux and Windows) and other information.