

## 영상처리 HW #2

Due date: 18 April

1. Using the BMP image “Lena.bmp” of 8 bit gray-scale, carry out the following Histogram-based image processing:

(a) Plot the histogram.

(b) Perform Histogram Equalization and then plot the histogram.

(c) Perform Basic Contrast Stretching and then plot the histogram.

Discuss any difference when compared to the result of (b).

(d) Perform Ends-in Contrast Stretching with low-end value of 30 and high-end value of 200, and then plot the histogram. Discuss any difference when compared to the result of (c).

(e) From all the above results, discuss differences among Histogram Equalization, Basic Contrast Stretching, and Ends-in Contrast Stretching.