Homework 2 (Due: 3/20)

1. Develop a histogram equalization (HE) program;
2. Apply the HE to i) gray, ii) color images;
3. For each input image, print out the input/output images and their histograms.
4. Discuss your experiments.

For a color image C,

(i) Convert it into a gray image G;

(ii) Apply HE to G to get G';

(iii) For each pixel of C, modify its color (r,g,b) by $(r',g',b') = (r,g,b) \times G' / G$.