1. Histogram Equalization (test images: fig1.jpg, fig2.jpg)

(a) Write a computer program for computing the histogram of an image.

(b) Implement the histogram equalization technique.

(c) Your program must be general to allow any gray-level image as its input.

As a minimum, your report should include the original image, a plot of its histogram, a plot of the transformation function, the enhanced image, and a plot of its histogram.