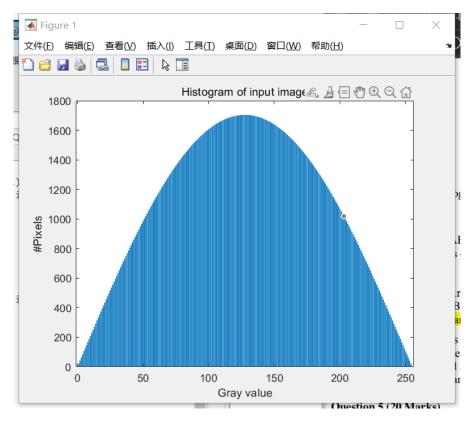
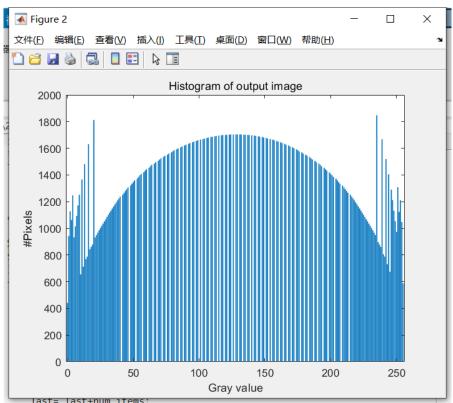
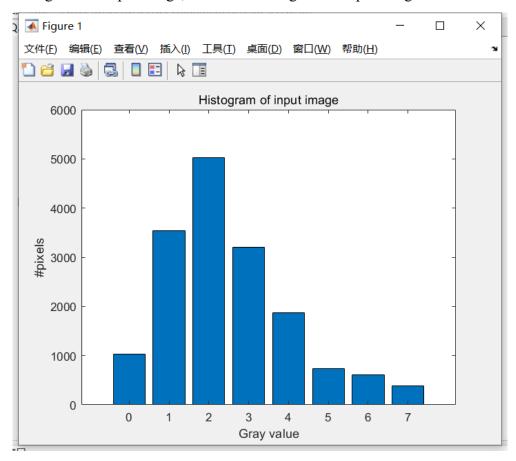
Note: All my work, I implemented by MATLAB, and I pushed them to my private repository on <u>Github</u>, and <u>A1</u> under this repository to do version control. If there is any issue of assignment, I can give marker access to check my versions.

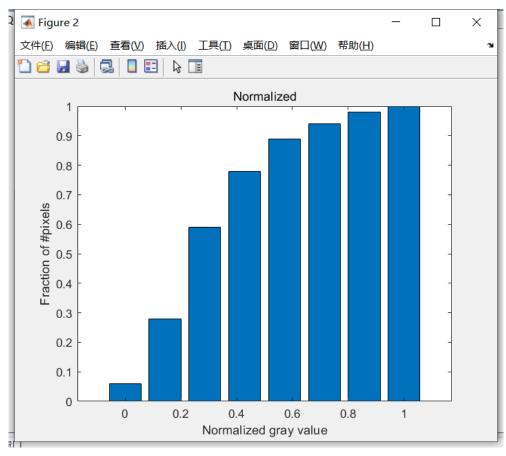
Q1.





Q2. Histograms of input image, normalized image and output image are shown below.





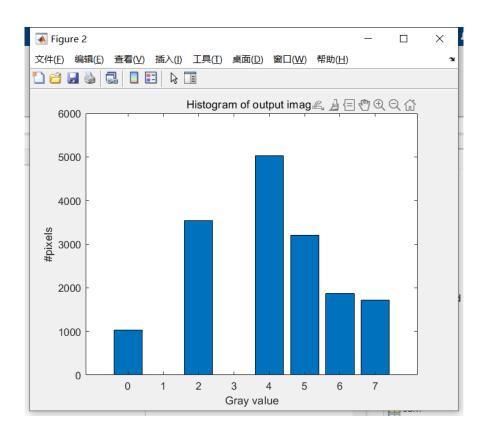
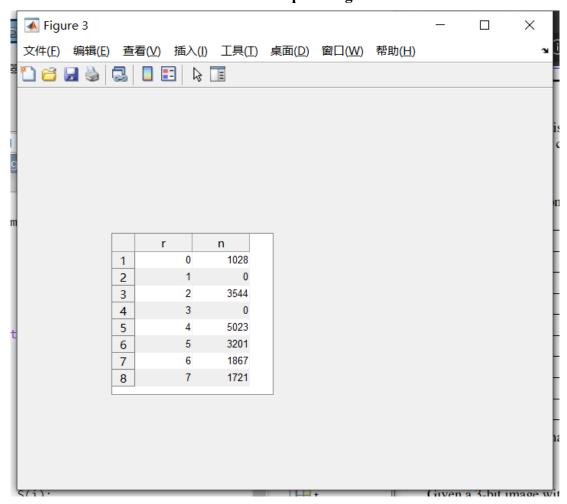
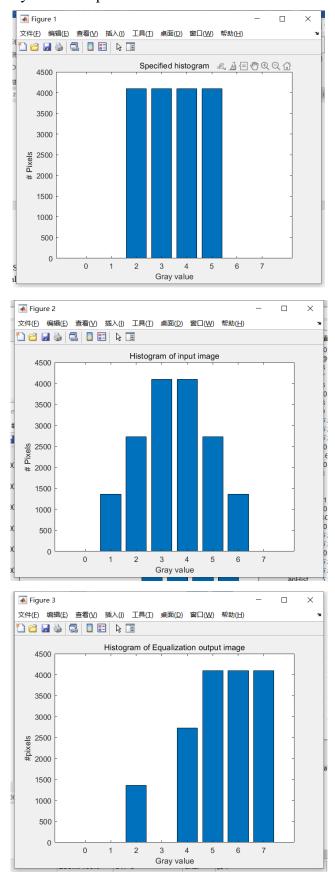


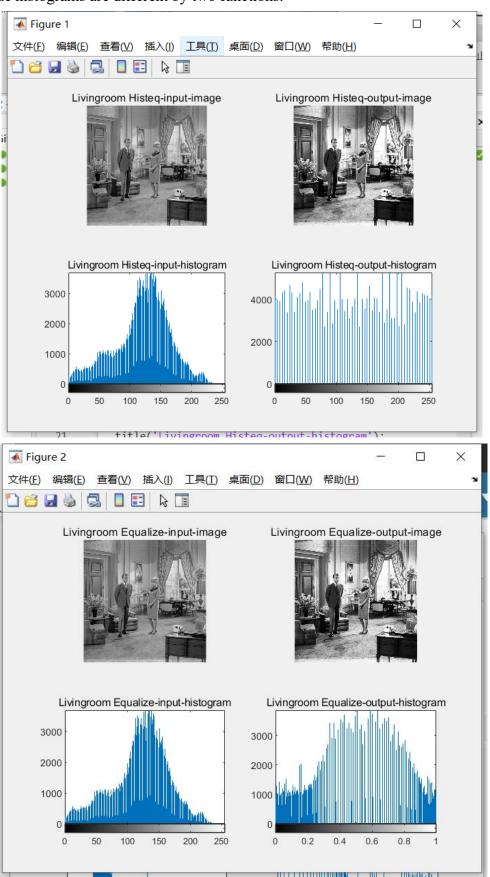
Table of output image

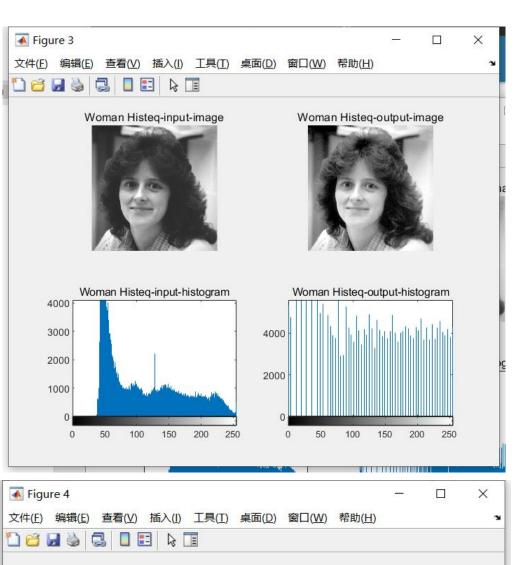


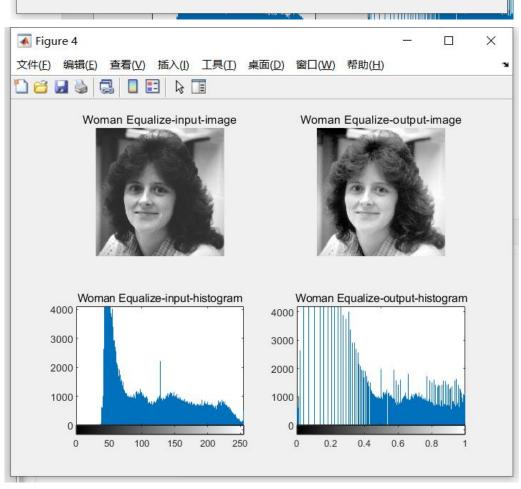
Q3. Specified histogram, Histogram of input image and Histogram of output image by equalization as shown below. However, I didn't figure out how to do specification by MATLAB. I tried my best to implement.



Q4. Livingroom and woman_darkhair images and histograms are shown below. I have no clue histograms are different by two functions.







Q5. Comparison of 15 images in one figure, then I extracted and compared them in 3 groups by different densities.

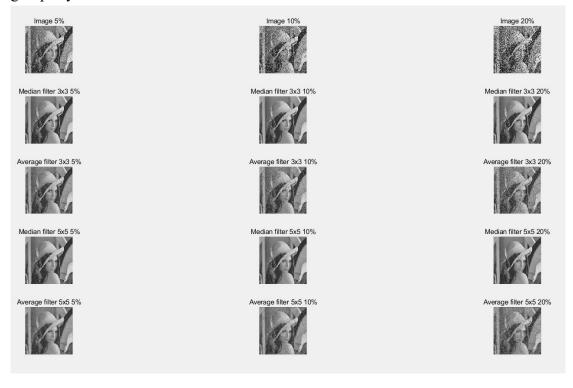


Image 5%



Median filter 3x3 5%



Average filter 3x3 5%



Average filter 3x3 5%



Average filter 5x5 5%



Image 10%



Median filter 3x3 10%



Average filter 3x3 10%



Median filter 5x5 10%



Average filter 5x5 10%



Image 20%



Median filter 3x3 20%



Average filter 3x3 20%



Average filter 3x3 20%



Average filter 5x5 20%

