**Problem 1**

Histogram Equalization:

* Read the image ‘cameraman.png’.
* Read another image which you require for histogram specification. (Any image you can select).
* Equalize the histogram of the input image.
* Equalize the specified histogram (histogram of the required image).
* Relate the two equalized histograms.
* Display original image histogram and required (or desired) image histogram using subplot.
* Display original image and Histogram Specified image using subplot.

**Problem 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2 | 1 | 2 | 7 | 6 |
| 1 | 0 | 1 | 4 | 1 |
| 2 | 1 | 3 | 1 | 2 |
| 1 | 1 | 1 | 0 | 1 |
| 2 | 2 | 3 | 1 | 0 |

* Replace all the pixels that contain pixel value = 1 with the average of median and maximum value of the eight neighbors.