Homework-1

Question 1

You are given the following image:

1	2	2	3	3
3	4	4	4	4
5	5	5	5	5

1.

What is the image histogram?

Answer:

2.

What would be the result of applying linear scaling for stretching the gray levels of the original image to the 0-255 range?

Answer:

3.

What would be the result (image) of the histogram equalization technique applied to the original image?

Answer:

Question 2

You are given the following 4×5 gray level image:

1	2	3	3	3
1	1	1	1	2
0	3	3	2	1
0	3	3	2	1

a. Compute its histogram.

Answer:

b. What is the 4×5 image obtained by linearly scaling the pixel values to the $0 - 255$ range.

Answer:

c. What is the 4×5 image obtained by histogram equalization to the $0 - 255$ range.

Answer:
