

Question one: Solve the following problems

1. Calculate the size of a still image 800x600 with color depth 16 bits.
2. Given the following 2-D array representing a 3-bit gray-level image:

3	1	3	6
3	4	7	5
2	1	4	3

- Apply the following operations separately:
 - A. Perform 3×3 – noise filtering using the mean filter.
 - B. Perform 3×3 – noise filtering using the median filter.
 - C. Compare the histograms of the original image and the image filtered with mean filter.
 - D. Compare the histograms of the original image and the image filtered with median filter.