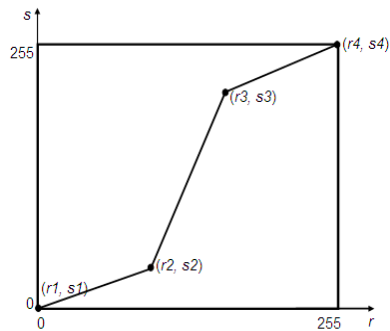


LAB ASSIGNMENT - 4

1.



- I. Do the contrast stretching such that, $(r_2, s_2) = (r_{\min}, 0)$ and $(r_3, s_3) = (r_{\max}, 0)$ Where r_{\max} and r_{\min} denotes maximum and minimum grey levels in the image. Use cameramen.tif.
- II. Take r_2, s_2 and r_3, s_3 from user and do the contrast stretching using any image of your interest.

2. Given cameraman.tif, use gray level slicing to,

- I. Separate camera man from background.
- II. Brighten the camera man while preserving the background.
- III. Plot the graph between input and output intensities for both the cases.

3. Extract the 8 bit planes of cameraman.tif and recreate the image from the extracted bit planes.

4. Plot the histogram for pout.tif and do the histogram equalization without using histeq command.

- I. Find the mean and variance of the image.
- II. Do the local histogram equalization using a 4×4 neighborhood with and without overlapping.