Report

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(a) a binary image (threshold at 128)

Use two for-loop to deal with all the pixels.
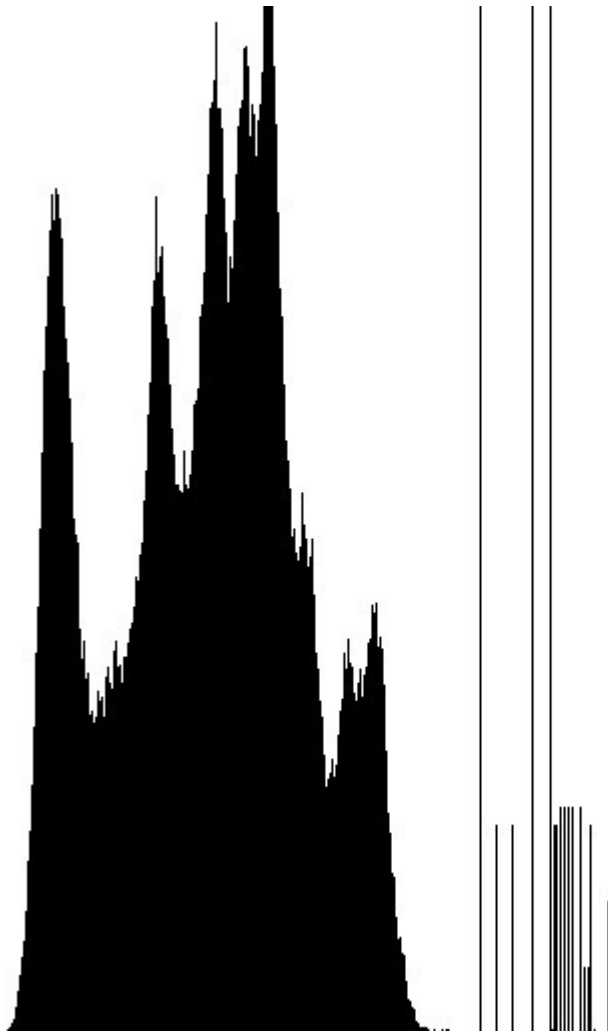If pixel >= 128, set the pixel to 255.
Else if pixel < 128, set the pixel to 0.

(b) a histogram

Use two for-loop to count the number of 0-255 , then draw them to histogram.

(c) connected components

Use Two-pass algorithm to count the region.