Question 3

Seperating an object by finding the global boundry

sq.mat:

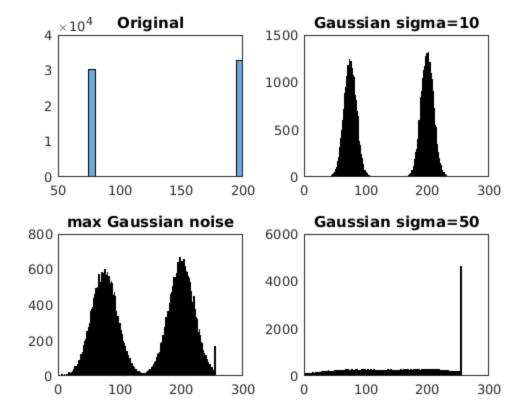
- a. The global boundry can be found without error
- b. The global error free boundry can be found with max sigma 20.667 gaussian noise
- c. The global boundry can not be found

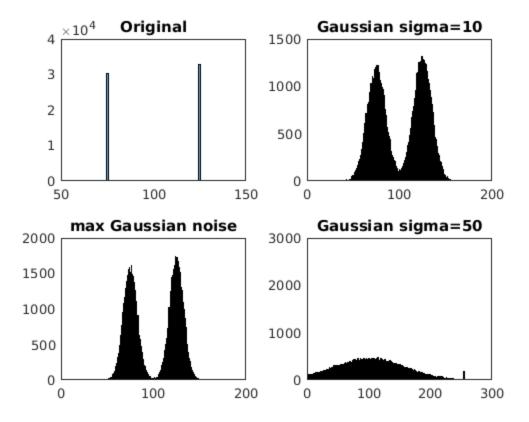
sq1.mat:

- a. The global boundry can be found without error
- b. The global error free boundry can be found with max sigma 7.66679 gaussian noise
- c. The global boundry can not be found

Α.

The maximum sigma can be calculated with the following formula: $\max \text{sigma} = (\text{mean2}(\text{sq}) - \text{mean}(\text{sq}(\text{sq} < \text{mean2}(\text{sq})))) \ / \ 3 \ - \ 1$ we know that beyond 3 sigma border, lies 0.1% of the pixels threfore we calculate the distance between lower "model" and the mean divide by 3





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