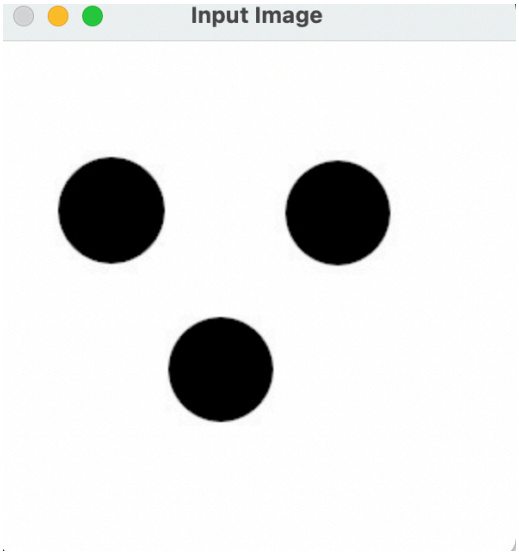
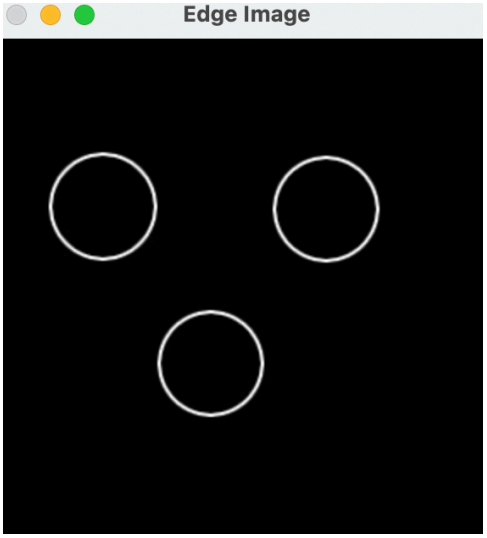
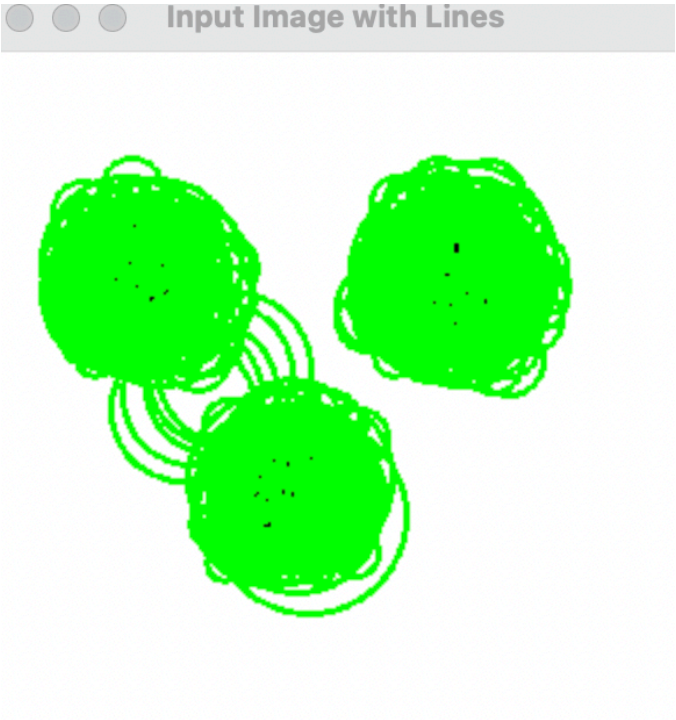
Observations circles.jpg (num_radius_bins = max-min radius):





1) Min radius: 1, Max radius: 50

bin_threshold = 0.4

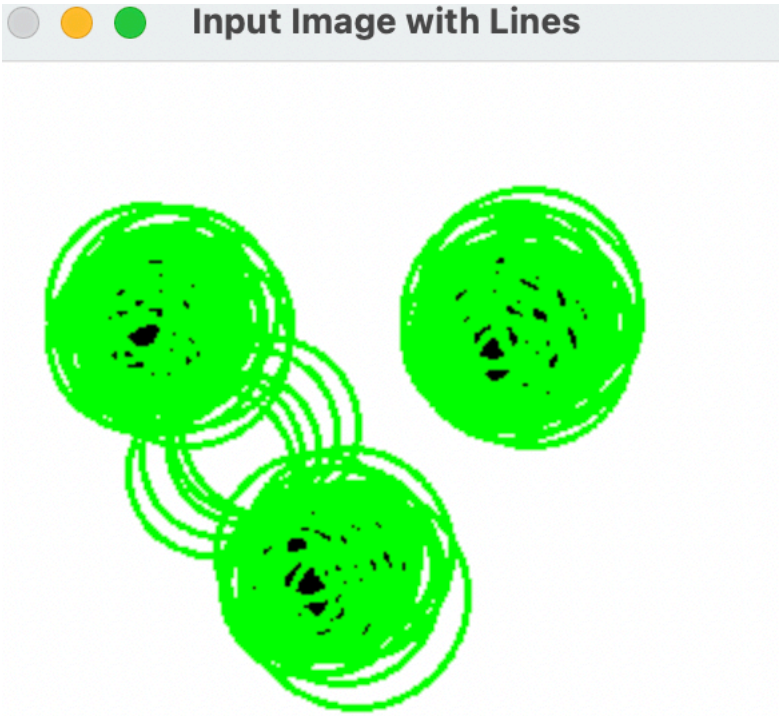


The min/max radius delta is too much, with the given bin threshold

2) Min radius: 20, Max radius: 50

bin_threshold = 0.4

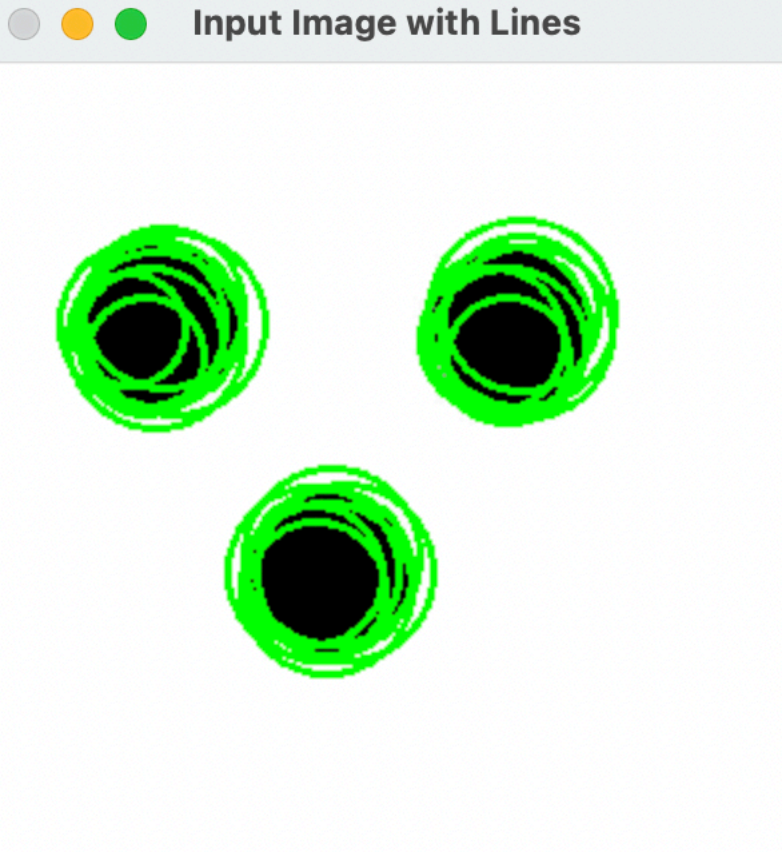
The min/max radius delta is better, with the given bin threshold



3) 2) Min radius: 20, Max radius: 50

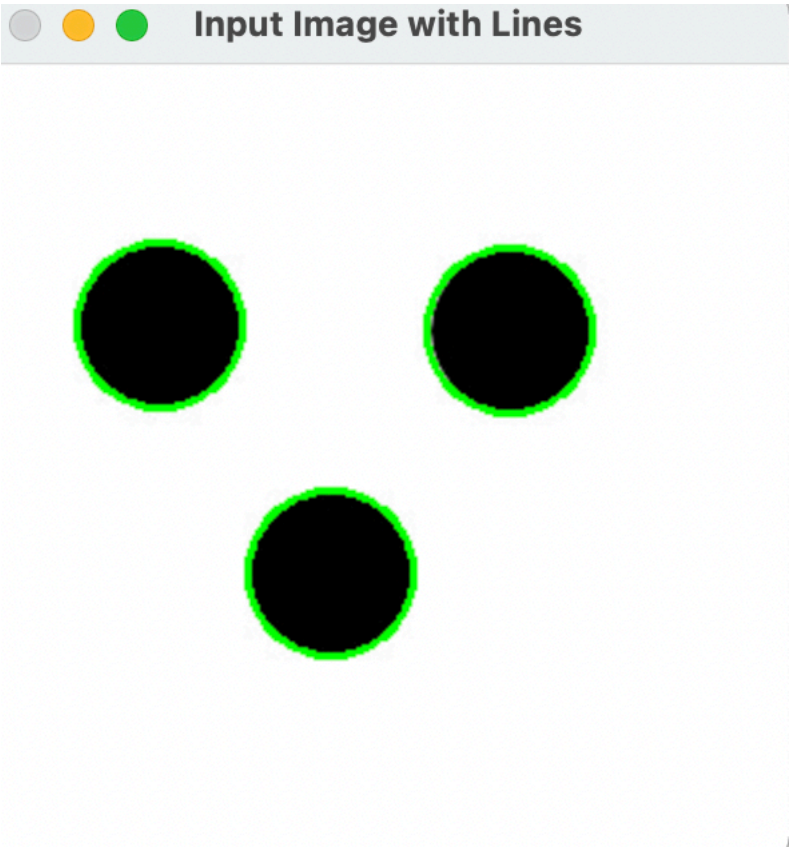
bin_threshold = 0.6

Increasing bin threshold to give better results



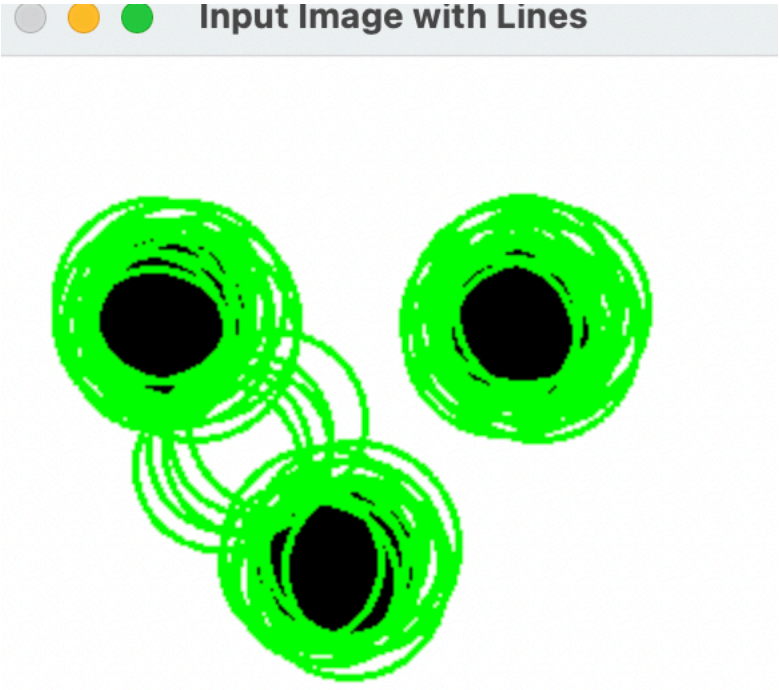
4) Min radius: 20, Max radius: 50

bin_threshold = 0.8

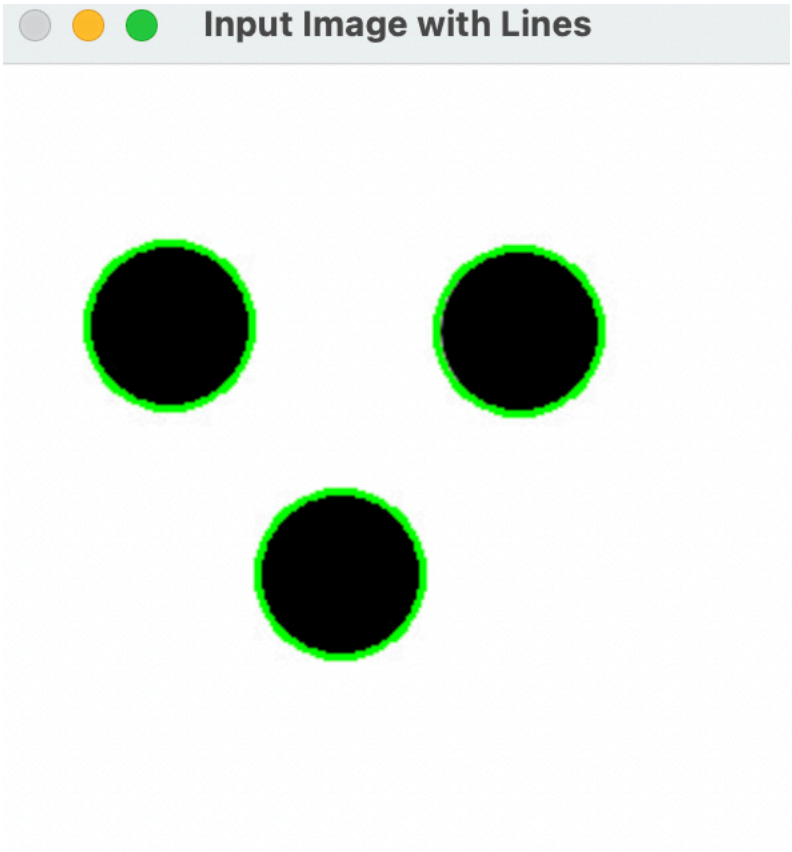


Perfect combination

5) Min radius: 30, Max radius: 40
bin_threshold = 0.6

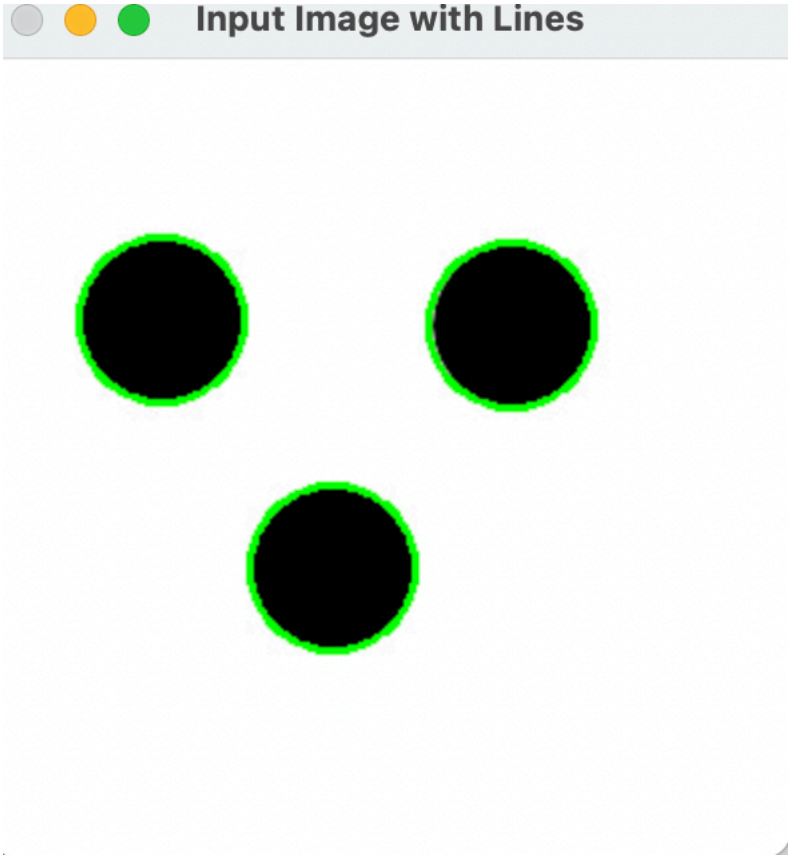


6) Min radius: 30, Max radius: 40
bin_threshold = 0.8



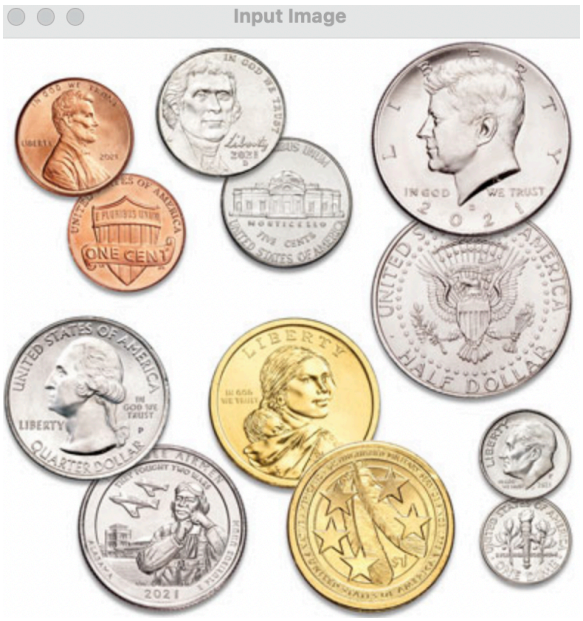
Perfect combination

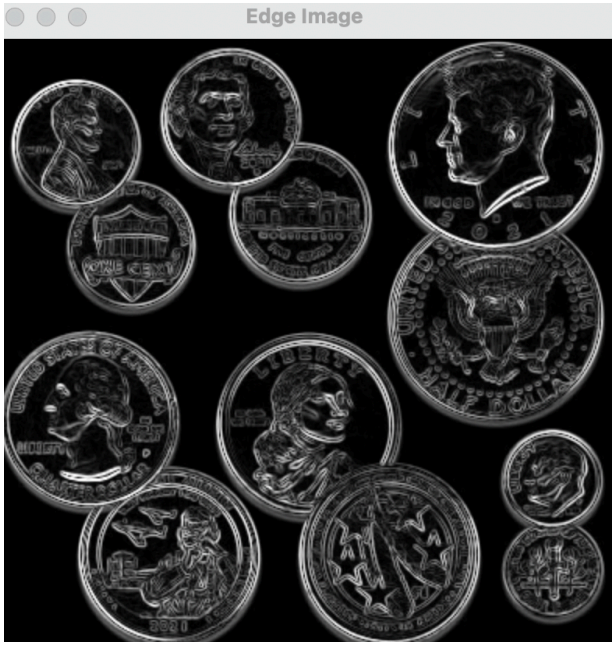
7) Min radius: 30, Max radius: 40
bin_threshold = 0.9



Perfect combination and fastest compute

Observation for Coins.png (num_radius_bins = max-min radius):

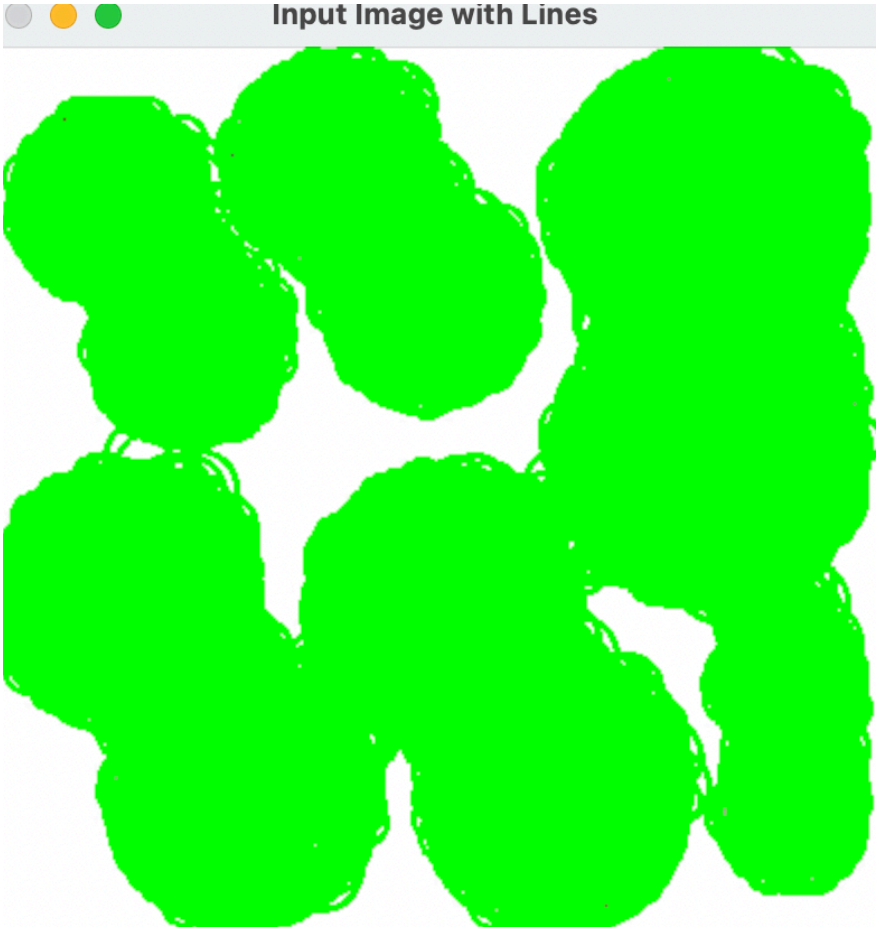


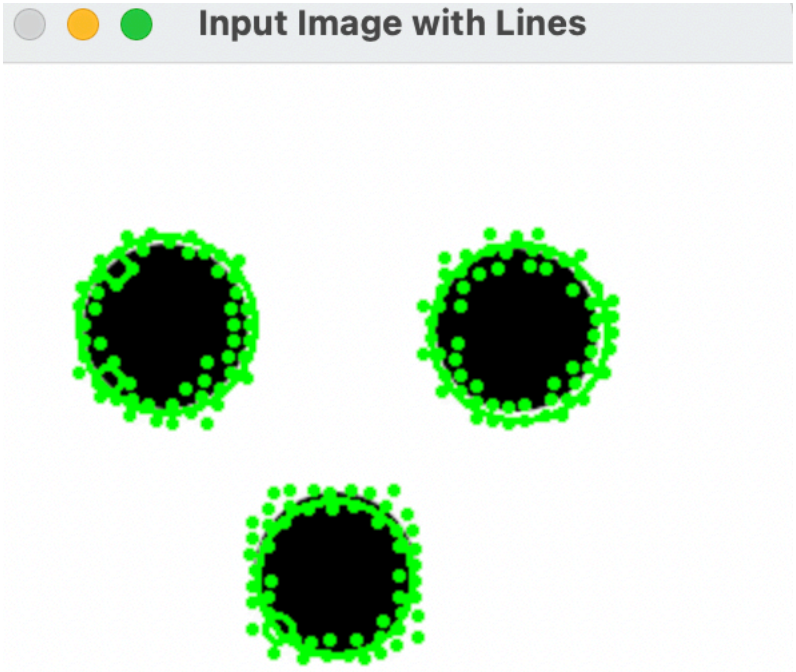


1) min radius: 30, max radius: 40, bin_threshold = 0.9

Radius delta is not good

2) min radius: 30, max radius: 40,
bin_threshold = 0.9

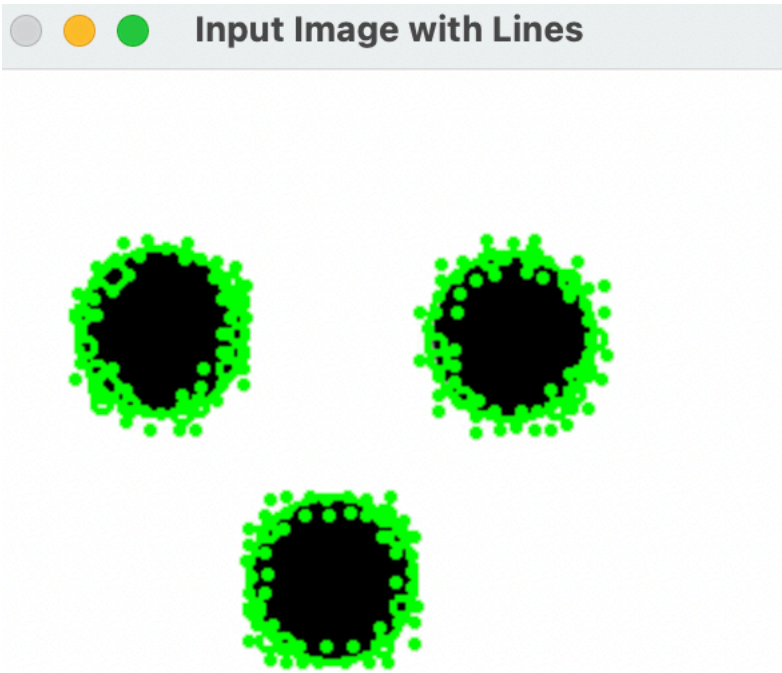




Observations circles.jpg:

3) min radius: 1, max radius: 100,
bin_threshold = 0.9
num_radius_bins = 20

4) min radius: 1, max radius: 60,
bin_threshold = 0.9
num_radius_bins = 20



5) min radius: 1, max radius: 60,
bin_threshold = 0.9
num_radius_bins = 5