

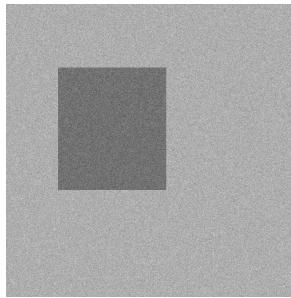
N	I_2	M	σ^2	H(R_i)
1	8	8	0	T
2	8, 8	8	0	T
3	8, 8, 9	8.33	0.22	T
4	8, 8, 9, 10	8.75	0.688	T
5	8, 8, 9, 10, 8	8.60	0.640	T
6	8, 8, 9, 10, 8, 9	8.667	0.556	T
7	8, 8, 9, 10, 8, 9, 8	8.571	0.531	T
8	8, 8, 9, 10, 8, 9, 8, 10	8.750	0.688	T
9	8, 8, 9, 10, 8, 9, 8, 10, 10	8.889	0.765	T
10	8, 8, 9, 10, 8, 9, 8, 10, 10, 10	9.00	0.8	T
11	8, 8, 9, 10, 8, 9, 8, 10, 10, 10, 11	9.182	1.058	F

The result is the first 10 values.

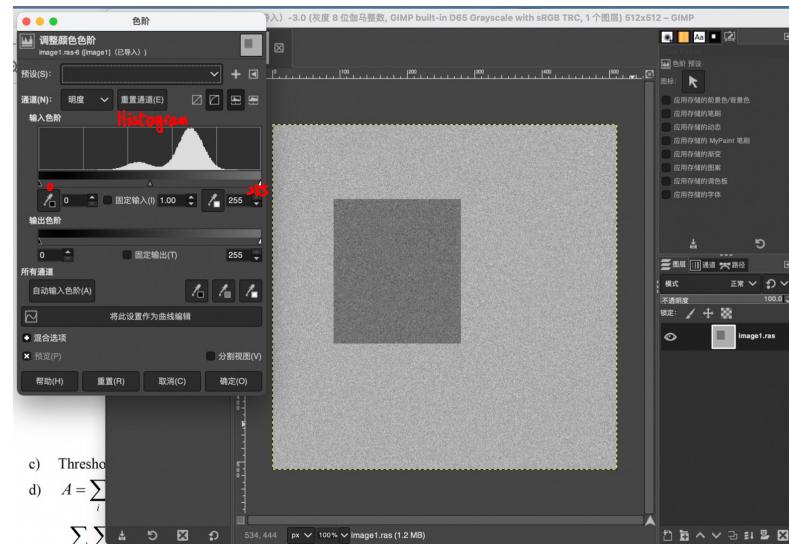
Computer Problem

1. Pic 1

A. original image



B. Histogram.



c) Threshold = 140

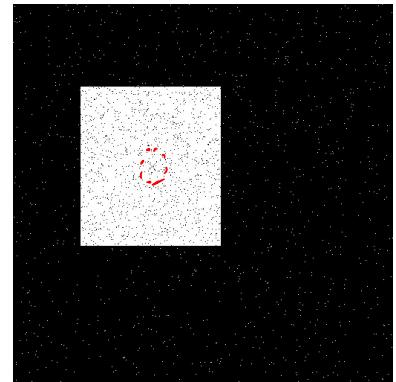
D. $A = \sum_x \sum_y b_{xy} = 40082$

$$\bar{x} = \frac{\sum_x \sum_y b_{xy} \cdot x}{A} = 187$$

$$\bar{y} = \frac{\sum_x \sum_y b_{xy} \cdot y}{A} = 218$$

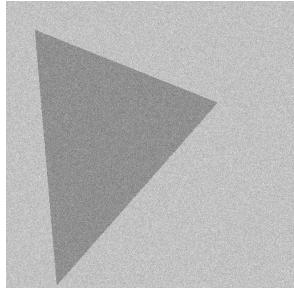
Object center (187, 218)

E. Binary image.

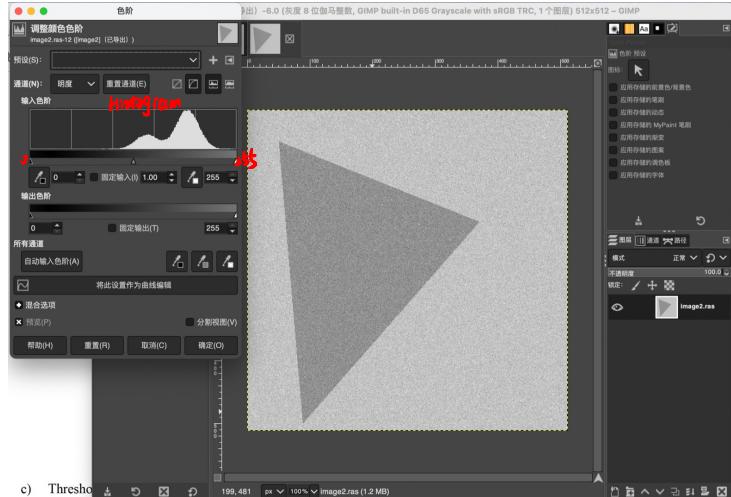


2. Pic 2

A. Original image.



B. Histogram.



C. Threshold = 165

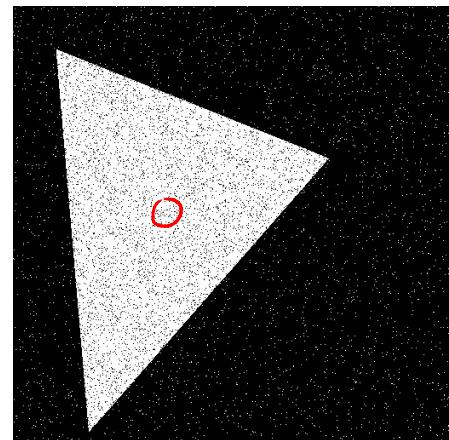
$$D. A = \sum_x \sum_y b_{xy} = 67075$$

$$\bar{x} = \frac{\sum_x \sum_y b_{xy} \cdot x}{A} = 174$$

$$\bar{y} = \frac{\sum_x \sum_y b_{xy} \cdot y}{A} = 269$$

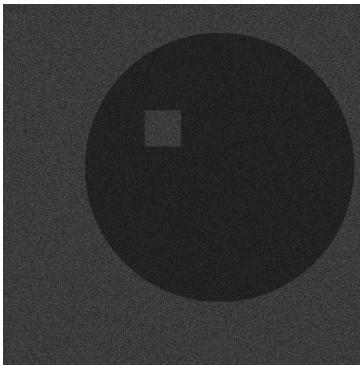
object center (174, 269)

E. Binary image

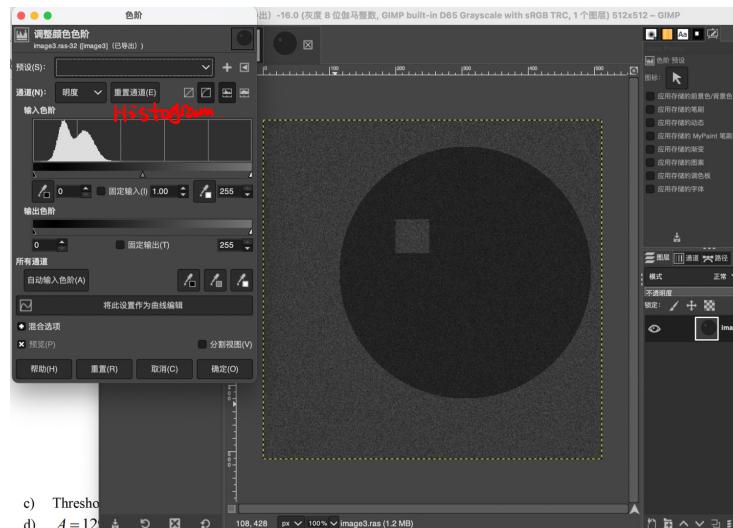


3. pic 3.

A. original image



B. Histogram.



C. Threshold = 48

$$D. A = \sum_x \sum_y b_{xy} = 129498$$

$$\bar{x} = \frac{\sum_x \sum_y x b_{xy}}{A} = 292$$

$$\bar{y} = \frac{\sum_x \sum_y y b_{xy}}{A} = 238$$

object center (292, 238)

E Binary Image

