

# Python Week 4

Morphology

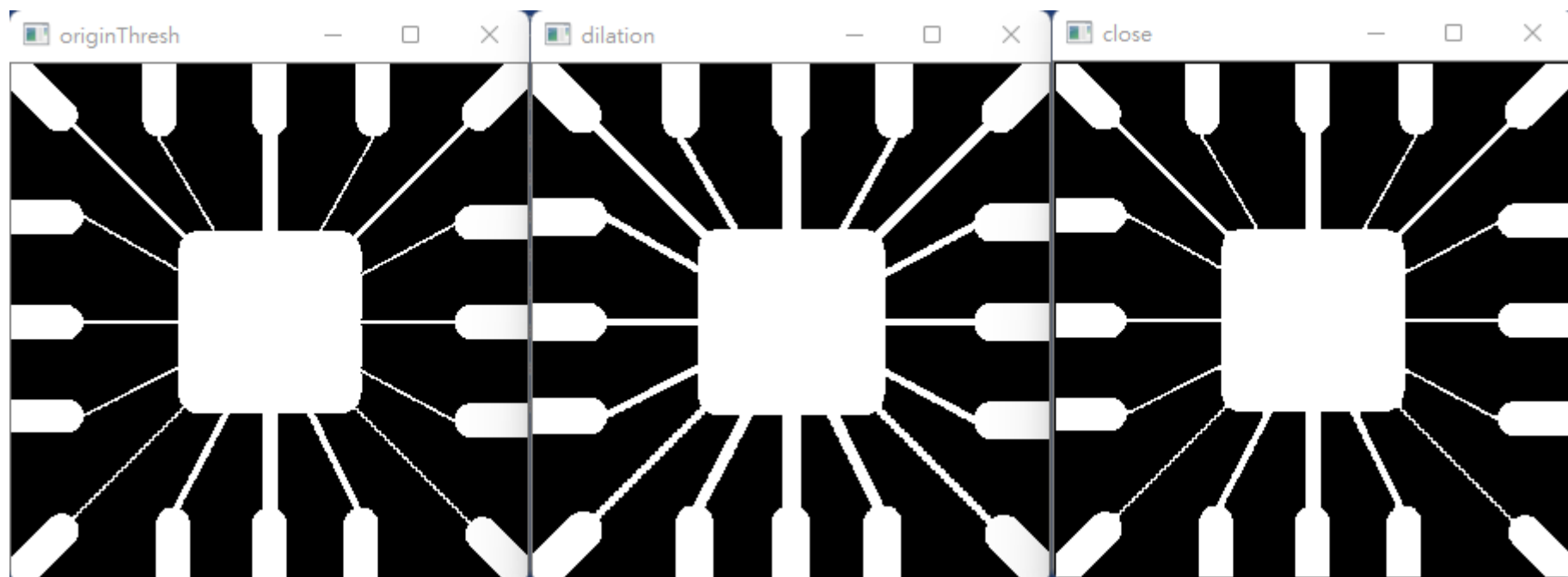
# Request

1. Transfer the image to binary image.
2. Complete dilation and erosion with  $3 * 3$  structure element.
3. Complete open and close based on dilation and erosion.
4. Find edge with 1 ~ 3 methods.

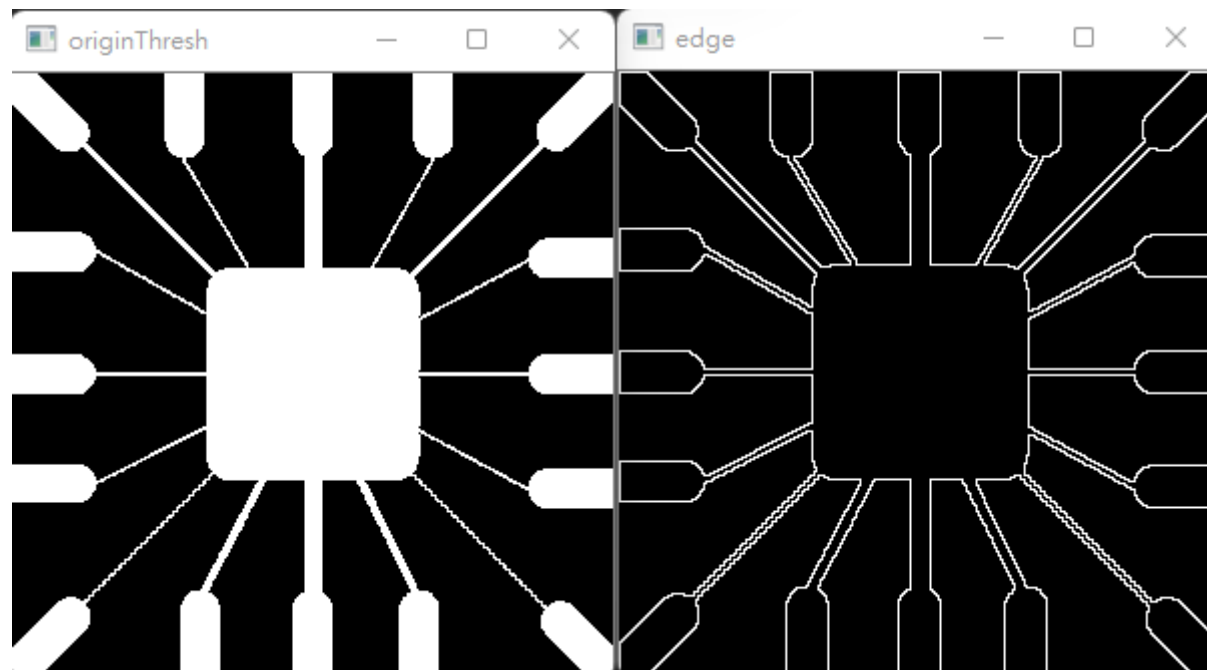
You need to write the function 1. by yourself, using the function in opencv or any image processing repository on the GitHub is **NOT** allowed.

Submit your **python code** before 7/18.

# Result



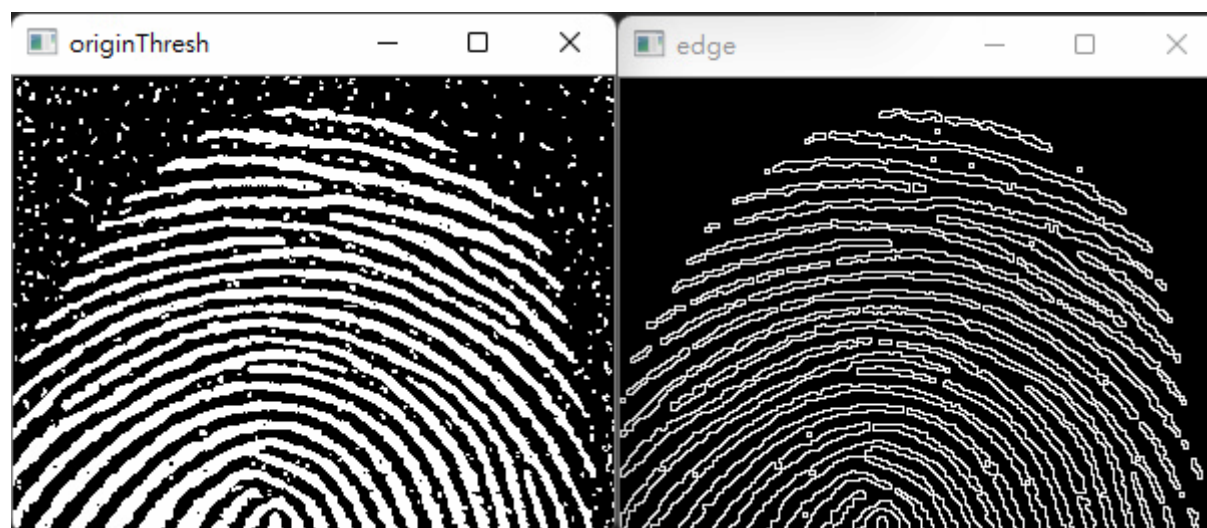
# Result



# Result



# Result



# Reference

- <https://jason-chen-1992.weebly.com/home/-morphology>
- <https://medium.com/@ami25480/morphological-image-processing-operations-dilation-erosion-opening-and-closing-with-and-without-c95475468fca>