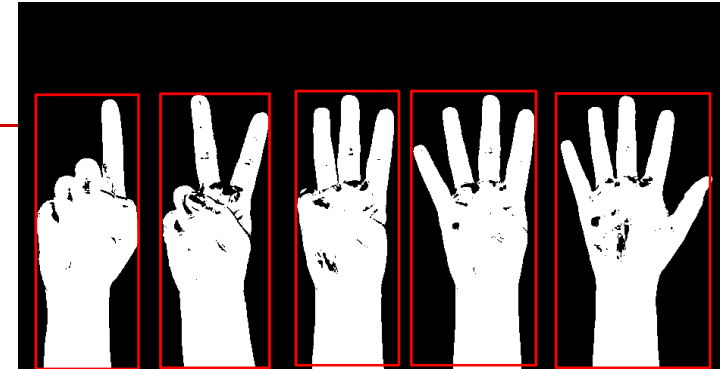


HW2

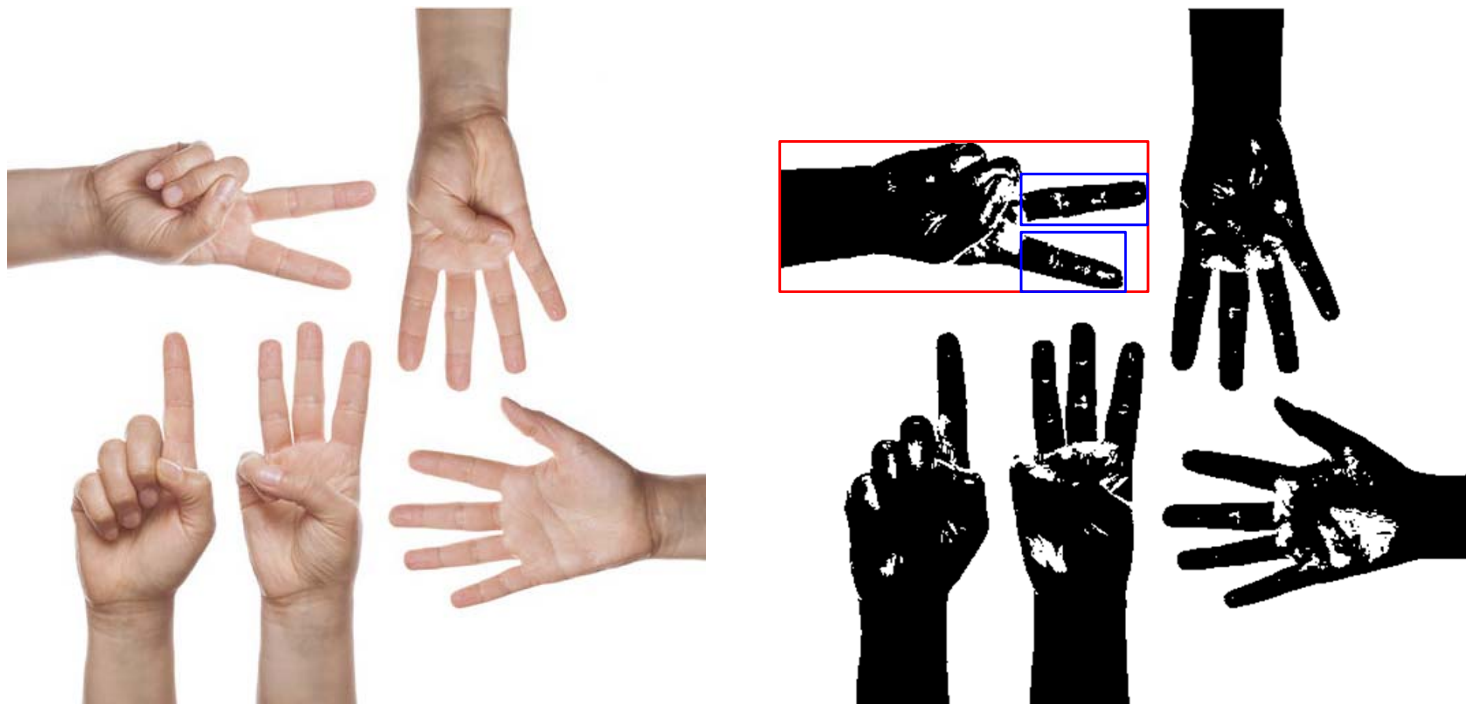


- ☐ Due on 11/9, 23:59
- ☐ Connected components
 - Generate a binarized image
 - Label the five hands with 4-connected neighbor
 - ☐ Label each connected component (large area) with a **RED** bounding box in output image.
 - ☐ Compute the centroid and area of each hand, and print the data on output image or win32 window
 - Use the morphology algorithms to reserve the fingers
 - Label the fingers with 4-connected neighbor
 - ☐ Label each finger with a **BLUE** bounding box in output image.
 - ☐ Compute the centroid and area of each finger, and print the data on output image or win32 window
 - Analyze and print the computational time of your program
 - ☐ connected component, morphology, property analysis, drawing, etc.

HW2

□ Bonus

- Report the following properties of each finger
 - the length and orientation of the longest axis
- Report the numbers indicated by each hand



HW2

☐ Requirements

■ Two Programs

- ☐ C or C++ source code with .exe file (You are NOT allowed to use any library, such as OpenCV)
 - Except the R/W image
 - You can also use .raw to complete your work

☐ by using OpenCV

■ Report

- ☐ Describe the employed source code editor and how to execute your program (input/interface/output)
- ☐ Introduce your work, method, and discussions
- ☐ With all of the images or results

■ Upload to i-school Plus