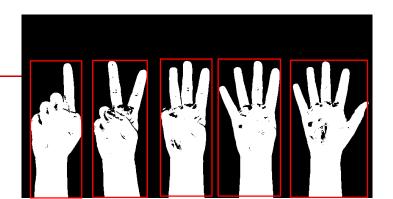
HW2

- □ Due on 11/11, 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 command window
 - Use the morphology algorithms to reserve the hands i.e., the output connected components are only five regions
 - Report the following properties of the five hands
 - the length and orientation of the longest axis
 - Analyze and print the computational time of your program

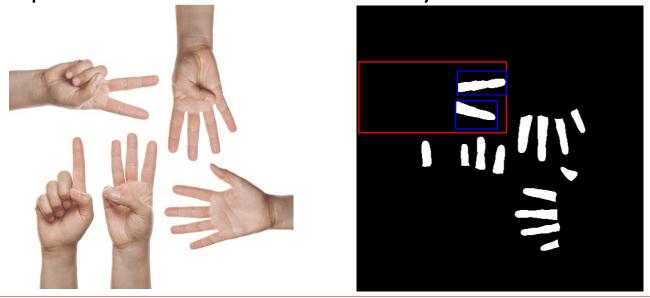
Time(sec.)	binarizing	morphology	connected component	property analysis	drawing
C program	xxx	xxx	xxx	xxx	xxx
OpenCV	000	000	000	000	000



Page 1

HW2

- ☐ Bonus
 - 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
 - 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