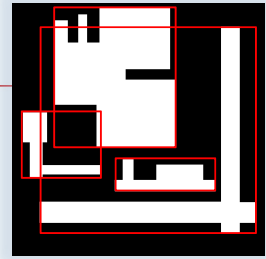


HW2



- ☐ Due on 10/26, pm 11:59
- ☐ Connected components
 - Generate a binarized image (threshold 128) of lena512.bmp
 - Write a C or C++ program to analyze the connected components with 4-connected neighbor.
 - ☐ Label each connected object (Area > 1000) with a RED bounding box in the output image.
 - ☐ Compute and print the centroid and area of each blob (Area > 1000) (on output image or win32 window)
 - ☐ Analyze and print the computational time of your program
 - connected component, property analysis, drawing, etc.
- ☐ Bonus
 - Report the following properties of each object
 - ☐ (Area > 1000): second column moment, second row moment, the length and orientation of the longest axis

HW2

- ☐ Requirements
 - Two Programs
 - ☐ C or C++ source code with .exe file (You are NOT allowed to use any library, such as OpenCV)
 - ☐ VC++ project by using OpenCV (at least label the bounding box)
 - 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 NTUT Elearning
 - 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