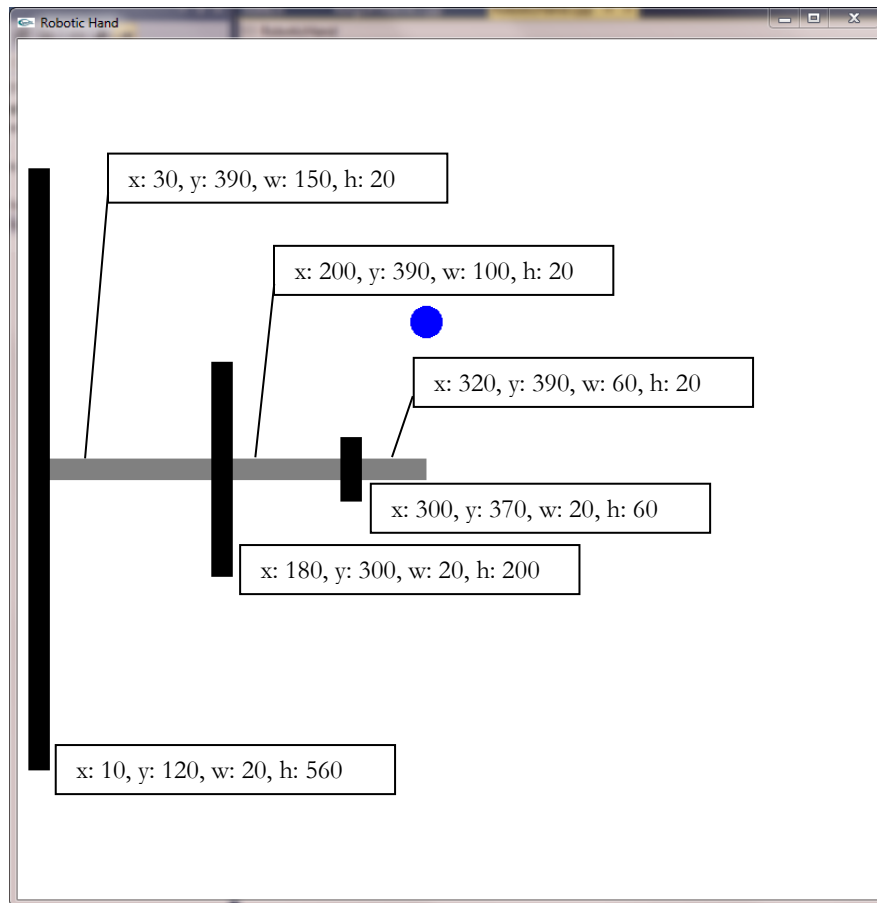


## Lab 3



In this lab, you're required to draw a 3-part Robotic Arm that is used to catch a ball randomly appearing on a vertical axis reachable by the tip of the hand. The illustration above shows the locations and dimensions of the arm's parts. Please note the following:

- The left most vertical bar of the arm is the only fixed bar. The rest move with their horizontal supporting bar.
- Each bar is controlled individually with the keyboard. It can move either up or down.
- The bar to be moved is selected by hovering the mouse over it.
- The target ball is shown in a new random location every 20 seconds
- The location of the arm's tip and the ball can be checked if they overlap by clicking the left mouse button anywhere in the window. The background color of the window should change to green or red based on if their positions overlap or not respectively.

In case any of the requirements is not clear, refer to the demo presented in the lab.