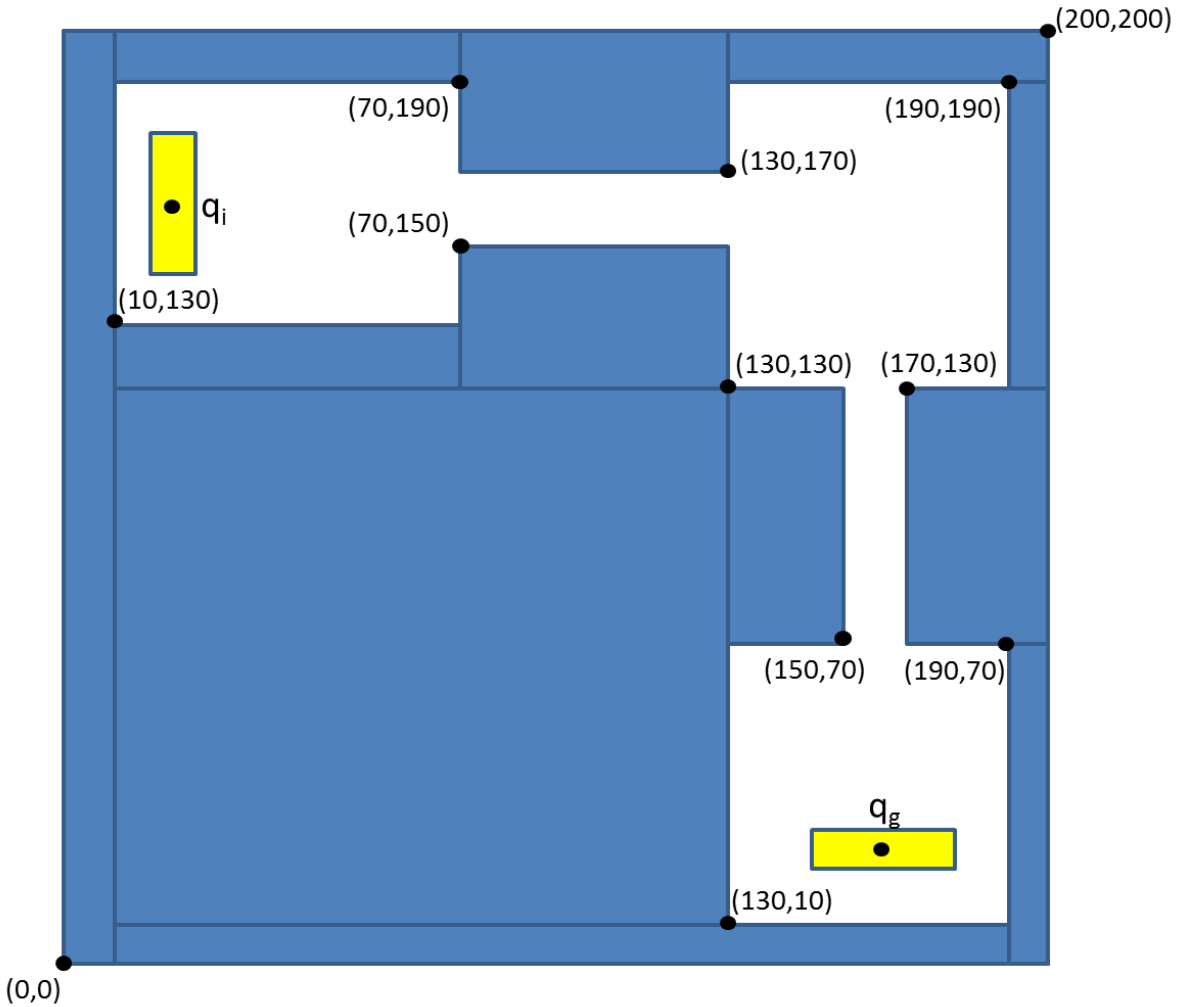


HW #3: ENPM 808C

Due on 4/4/2016 at 7 PM

Consider the workspace shown in the following figure. Obstacles are shown in blue color and robot is shown in yellow color.



Let the robot be rectangular in shape and its size be 30 by 10.

Let the initial location of the robot q_i be (30,160). Let its orientation be 90° . Let the goal location of the robot q_g be (160,30). Let its orientation be 0° .

Implement RRT algorithm to find a path from the initial location to the goal location.

Please submit the following:

1. Graphical representation of the computed path (submit as hard copy).
2. Code to compute the path (submit electronically as a zip file).