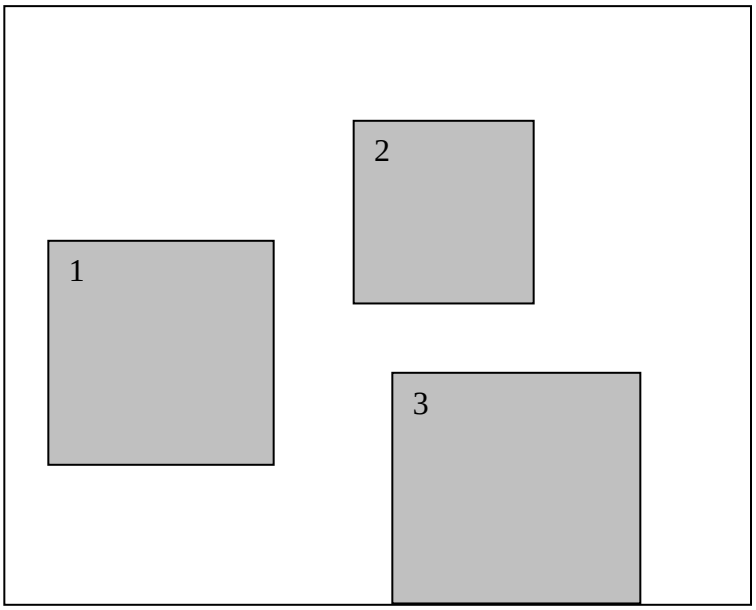
CSCE 452 Project #5 Robot Motion Planning

Project description: We have seen cell decomposition method for robot motion planning in class. Please implement the cell decomposition method for the following scenario.

- Robot: point robot
    - Robot starting location and destination are configurable by either mouse click or text configuration file
- Environment:



    - Size of the field 500 * 500 pixels
    - There are three blocks representing obstacles
        - Block 1: 200*200 in size
        - Block 2: 150*150 in size
        - Block 3: 100*100 in size
        - Locations of blocks are configurable by either mouse click or text configuration file.
- Output: to draw a path from the robot to move from starting location to destination.

The project requirements and grading policy are (no project report is required for this project),

1. Demonstrate your project in class (40pts)
2. Project website (20pts) contains:
    a. Team member task allocation for current project (5pts).
    b. Team meeting log for current project (5pts).
    c. Source code for current project and instructions for compiling (5pts).
    d. Screenshot of the software interface of current project (5pts).
3. Peer Review (40 pts): You will be able to find a peer review URL in our course website. Note: each student needs to submit his/her own form. Grading will be based on the

overall score that your teammates evaluate you. The deadline for turn in your peer review form is the same as the project deadline. Failure to submit peer review form before the deadline will lose 5pts as a penalty for the individual.