Selected Problem Set 3

1. Suppose we have a square window with lower-left corner \((0,0)\) and upper-left corner \((10,10)\). Clip the segment defined by endpoints \((-1,0)\) and \((15,13)\) using Cohen-Sutherland's algorithm. Show your calculations.

2. Clip the same segment against the same window this time using Liang-Barsky's algorithm. Show your calculations.

3. Clip the same segment against the same window this time using the Midpoint Division method. Show your calculations.

4. Write an algorithm that performs Raster-Scan polygon filling for any type of 2D polygon.

5. Write the Midpoint Division method algorithm in a recursive manner.