Binary Space Partition Trees

1. Recap: Binary Search Tree

   public class BinTree {
       float value;
       BinTree less;
       BinTree greater;

       boolean contains(float x) {
   
   
   
   
   
   }   
   }

1. An ArrayList of java.awt.Point

   ArrayList<Point> data = new ArrayList<Point>();
data.add(new Point(1,1));
... and so on for (2,5),(3,1),(3,4),(5,2),(5,5)

2. Binary Space Partition Trees: Binary Search Trees in multiple dimensions
   a. Construction
   b. Find
   c. Special Cases:
      i. Axis-aligned
      ii. K-d tree
      iii. Quadtree