

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

Solution 3

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 import java.util.*;
4
5 class Program {
6     static String UP = "up";
7     static String RIGHT = "right";
8     static String DOWN = "down";
9
10    // O(n^2) time | O(n) space - where n is the number of coordinates
11    public static int rectangleMania(Point[] coords) {
12        Map<String, Map<Integer, List<Point>>> coordsTable = getCoordsTable(coords);
13        return getRectangleCount(coords, coordsTable);
14    }
15
16    public static Map<String, Map<Integer, List<Point>>> getCoordsTable(Point[] coords) {
17        Map<String, Map<Integer, List<Point>>> coordsTable =
18            new HashMap<String, Map<Integer, List<Point>>>();
19        coordsTable.put("x", new HashMap<Integer, List<Point>>());
20        coordsTable.put("y", new HashMap<Integer, List<Point>>());
21        for (Point coord : coords) {
22            if (!coordsTable.get("x").containsKey(coord.x)) {
23                coordsTable.get("x").put(coord.x, new ArrayList<Point>());
24            }
25            if (!coordsTable.get("y").containsKey(coord.y)) {
26                coordsTable.get("y").put(coord.y, new ArrayList<Point>());
27            }
28            coordsTable.get("x").get(coord.x).add(coord);
29            coordsTable.get("y").get(coord.y).add(coord);
30        }
31        return coordsTable;
32    }
33 }
```

Solution 1

Solution 2

Solution 3

```
1 class Program {
2     public static int rectangleMania(Point[] coords) {
3         // Write your code here.
4         return -1;
5     }
6
7     static class Point {
8         public int x;
9         public int y;
10    }
11
12    public Point(int x, int y) {
13        this.x = x;
14        this.y = y;
15    }
16 }
17 }
```

Our Tests

Custom Output

Submit Code

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Run or submit code when you're ready.