Solution 1 Solution 2

Run Code

Our Solution(s)

Solution 3

Run Code

Your Solutions

Solution 1 Solution 2 Solution 3

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
3 import java.util.*;
5 class Program {
     static String UP = "up";
     static String RIGHT = "right";
     static String DOWN = "down";
     static String LEFT = "left";
9
10
11
     // O(n^2) time | O(n^2) space - where n is the number of coordinates
12
     public static int rectangleMania(Point[] coords) {
       Map<String, Map<String, List<Point>>> coordsTable = getCoordsTable
14
       return getRectangleCount(coords, coordsTable);
15
16
17
     public static Map<String, Map<String, List<Point>>> getCoordsTable(F
18
       Map<String, Map<String, List<Point>>> coordsTable =
19
          new HashMap<String, Map<String, List<Point>>>();
20
       for (Point coord1 : coords) {
21
         Map<String, List<Point>> coord1Directions = new HashMap<String,</pre>
         coord1Directions.put(UP, new ArrayList<Point>());
         coord1Directions.put(RIGHT, new ArrayList<Point>());
24
         coord1Directions.put(DOWN, new ArrayList<Point>());
         coord1Directions.put(LEFT, new ArrayList<Point>());
26
         for (Point coord2 : coords) {
27
           String coord2Direction = getCoordDirection(coord1, coord2);
28
           if (coord1Directions.containsKey(coord2Direction))
29
             coord1Directions.get(coord2Direction).add(coord2);
30
         String coord1String = coordToString(coord1);
32
         coordsTable.put(coord1String, coord1Directions);
33
```

```
1 class Program {
     public static int rectangleMania(Point[] coords) {
       // Write your code here.
       return -1;
     static class Point {
       public int x;
       public int y;
10
       public Point(int x, int y) {
12
         this.x = x;
13
         this.y = y;
14
15
16 }
```

Our Tests

.

Custom Output

Submit Code

Run or submit code when you're ready.