**Your Solutions** 

Run Code

Our Solution(s) Run Code

```
Solution 1 Solution 2 Solution 3
```

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

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   using System:
   using System.Collections.Generic;
 6 public class Program {
     // O(n^2) time \mid O(n) space - where n is the number of coordinates
     public static int RectangleMania(Point[] coords) {
9
       HashSet<string> coordsTable = getCoordsTable(coords);
10
       return getRectangleCount(coords, coordsTable);
11
12
13
     public static HashSet<string> getCoordsTable(Point[] coords) {
14
       HashSet<string> coordsTable = new HashSet<string>();
15
        foreach (Point coord in coords) {
16
         string coordstring = coordTostring(coord);
17
         coordsTable.Add(coordstring);
18
19
       return coordsTable;
20
21
22
     public static int getRectangleCount(Point[] coords, HashSet<string>
23
        int rectangleCount = 0;
        foreach (Point coord1 in coords) {
          foreach (Point coord2 in coords) {
26
            if (!isInUpperRight(coord1, coord2)) continue;
27
            string upperCoordstring = coordTostring(new Point(coord1.x,
28
               coord2.y));
29
            string rightCoordstring = coordTostring(new Point(coord2.x,
30
               coord1.y));
31
              coordsTable.Contains(upperCoordstring) &&
33
              coordsTable.Contains(rightCoordstring)
```

Our Tests

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**Custom Output** 

Submit Code

