30

31 } 32

return coordsTable;

33 int getRectangleCount(vector<Point> coords,

Solution 1 Solution 2

Our Solution(s)

Run Code

Your Solutions

Solution 3

Run Code

```
Solution 1 Solution 2
                         Solution 3
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   #include <vector>
   #include <unordered_map>
 5 using namespace std;
7
   struct Point {
     int x;
9
     int y;
10 };
11
12 unordered_map<string, bool> getCoordsTable(vector<Point> coords);
13
   int getRectangleCount(vector<Point> coords,
                        unordered_map<string, bool> coordsTable);
14
15 bool isInUpperRight(Point coord1, Point coord2);
16 string coordToString(Point coord);
17
   // O(n^2) time \mid O(n) space - where n is the number of coordinates
18
19 int rectangleMania(vector<Point> coords) {
20
     unordered_map<string, bool> coordsTable = getCoordsTable(coords);
21
     return getRectangleCount(coords, coordsTable);
22 }
23
24 unordered_map<string, bool> getCoordsTable(vector<Point> coords) {
25
     unordered_map<string, bool> coordsTable;
26
     for (Point coord : coords) {
27
       string coordString = coordToString(coord);
28
       coordsTable.insert({coordString, true});
29
```

```
#include <vector>
using namespace std;

struct Point {
  int x;
  int y;
  };

int rectangleMania(vector<Point> coords) {
  // Write your code here.
  return -1;
}
```

Run or submit code when you're ready.