Our Solution(s)   Run Code

Solution 1   Solution 2   Solution 3

```javascript
1  // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3  // O(n^2) time | O(n^2) space - where n is the number of coordinates
4  function rectangleMania(coords) {
5    const coordsTable = getCoordsTable(coords);
6    return getRectangleCount(coords, coordsTable);
7  }
8
9  function getCoordsTable(coords) {
10   const coordsTable = {};
11   for (const coord1 of coords) {
12     const coord1Directions = {
13       [UP]: [],
14       [RIGHT]: [],
15       [DOWN]: [],
16       [LEFT]: [],
17     };
18     for (const coord2 of coords) {
19       const coord2Direction = getCoordDirection(coord1, coord2);
20       if (coord2Direction in coord1Directions) coord1Directions[coord2
21     }
22     const coord1String = coordToString(coord1);
23     coordsTable[coord1String] = coord1Directions;
24   }
25   return coordsTable;
26 }
27
28 function getCoordDirection(coord1, coord2) {
29   const [x1, y1] = coord1;
30   const [x2, y2] = coord2;
31   if (y2 === y1) {
32     if (x2 > x1) {
33       return RIGHT;
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```javascript
1  function rectangleMania(coords) {
2    // Write your code here.
3  }
4
5  // Do not edit the line below.
6  exports.rectangleMania = rectangleMania;
7
```

Our Tests

Custom Output   Submit Code

Run or submit code when you're ready.