JavaScript Sublime 00:00:00 AlgoExpert **Quad Layout** 12px Monokai

Scratchpad Our Solution(s) Video Explanation Run Code Prompt

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 4 function rectangleMania(coords) {
     const coordsTable = getCoordsTable(coords);
     return getRectangleCount(coords, coordsTable);
 7 }
9 function getCoordsTable(coords) {
10
     const coordsTable = {};
11
     for (const coord of coords) {
12
       const coordString = coordToString(coord);
       coordsTable[coordString] = true;
13
14
     return coordsTable;
15
16 }
17
    function getRectangleCount(coords, coordsTable) {
18
19
     let rectangleCount = 0;
20
     for (const [x1, y1] of coords) \{
21
       for (const [x2, y2] of coords) {
22
        if (!isInUpperRight([x1, y1], [x2, y2])) continue;
23
         const upperCoordString = coordToString([x1, y2]);
24
         const rightCoordString = coordToString([x2, y1]);
25
         if (upperCoordString in coordsTable && rightCoordString in coordsTable) rectangleCount++;
26
27
28
     return rectangleCount;
29
31 function isInUpperRight(coord1, coord2) {
32
     const [x1, y1] = coord1;
     const [x2, y2] = coord2;
33
34
     return x2 > x1 && y2 > y1;
35 }
36
37 function coordToString(coord) {
     const [x, y] = coord;
     return `${x}-${y}`;
39
40 }
41
42 exports.rectangleMania = rectangleMania;
```

Solution 1 Solution 2

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Solution 3