

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

Solution 3

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # O(n^2) time | O(n) space - where n is the number of coordinates
4 def rectangleMania(coords):
5     coordsTable = getCoordsTable(coords)
6     return getRectangleCount(coords, coordsTable)
7
8
9 def getCoordsTable(coords):
10    coordsTable = {"x": {}, "y": {}}
11    for coord in coords:
12        x, y = coord
13        if x not in coordsTable["x"]:
14            coordsTable["x"][x] = []
15        coordsTable["x"][x].append(coord)
16        if y not in coordsTable["y"]:
17            coordsTable["y"][y] = []
18        coordsTable["y"][y].append(coord)
19    return coordsTable
20
21
22 def getRectangleCount(coords, coordsTable):
23    rectangleCount = 0
24    for coord in coords:
25        lowerLeftY = coord[1]
26        rectangleCount += clockwiseCountRectangles(coord, coordsTable,
27        return rectangleCount
28
29
30 def clockwiseCountRectangles(coord1, coordsTable, direction, lowerLeft
31    x1, y1 = coord1
32    if direction == DOWN:
33        relevantCoords = coordsTable["x"][x1]
```

Solution 1

Solution 2

Solution 3

```
1 def rectangleMania(coords):
2     # Write your code here.
3     pass
4
```

Our Tests

Custom Output

Submit Code

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