Our Solution(s) Run Code

Solution 1 Solution 2 Solution 3

```python
# Copyright © 2020 AlgoExpert, LLC. All rights reserved.

# O(n^2) time | O(n) space - where n is the number of coordinates
def rectangleMania(coords):
    coordsTable = getCoordsTable(coords)
    return getRectangleCount(coords, coordsTable)


def getCoordsTable(coords):
    coordsTable = {"x": {}, "y": {}}
    for coord in coords:
        x, y = coord
        if x not in coordsTable["x"]:
            coordsTable["x"][x] = []
        coordsTable["x"][x].append(coord)
        if y not in coordsTable["y"]:
            coordsTable["y"][y] = []
        coordsTable["y"][y].append(coord)
    return coordsTable


def getRectangleCount(coords, coordsTable):
    rectangleCount = 0
    for coord in coords:
        lowerLeftY = coord[1]
        rectangleCount += clockwiseCountRectangles(coord, coordsTable,
    return rectangleCount


def clockwiseCountRectangles(coord1, coordsTable, direction, lowerLeft
    x1, y1 = coord1
    if direction == DOWN:
        relevantCoords = coordsTable["x"][x1]
```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```python
def rectangleMania(coords):
    # Write your code here.
    pass

```

Our Tests

Custom Output Submit Code

Run or submit code when you're ready.