Our Solution(s)

```
Run Code
```

Your Solutions

Run Code

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

```
Solution 1 Solution 2 Solution 3

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

W 100, 100, 2 mm

32

return UP
elif y2 < y1:</pre>

Run or submit code when you're ready.