AlgoExpert **Quad Layout** Python 14рх Monokai

Our Solution(s) Run Code **Your Solutions** Run Code

```
Solution 1 Solution 2
                         Solution 3
 1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   # Upper Bound: O((n*(2n)!)/(n!(n+1)!)) time | O(n) space
   def numberOfBinaryTreeTopologies(n):
       if n == 0:
           return 1
       numberOfTrees = 0
       for leftTreeSize in range(n):
9
           rightTreeSize = n - 1 - leftTreeSize
10
           numberOfLeftTrees = numberOfBinaryTreeTopologies(leftTreeSize)
11
           numberOfRightTrees = numberOfBinaryTreeTopologies(rightTreeSiz
12
           numberOfTrees += numberOfLeftTrees * numberOfRightTrees
13
       return numberOfTrees
```

14

```
1 def numberOfBinaryTreeTopologies(n):
      # Write your code here.
3
      pass
```

Sublime

Solution 1 Solution 2 Solution 3

00:00:

Our Tests **Custom Output** Submit Code

Run or submit code when you're ready.