AlgoExpert Qua

M 100, 100, 2 100

Quad Layout

Python

Sublime

Monokai

00:00:

Our Solution(s)

```
Run Code
```

Your Solutions

14рх

Solution 1 Solution 2 Solution 3

Run Code

```
Solution 1 Solution 2
                         Solution 3
 1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   # O(n^2) time | O(n) space
   def numberOfBinaryTreeTopologies(n):
       cache = [1]
       for m in range(1, n + 1):
           numberOfTrees = 0
 8
           for leftTreeSize in range(m):
9
               rightTreeSize = m - 1 - leftTreeSize
10
               numberOfLeftTrees = cache[leftTreeSize]
11
               numberOfRightTrees = cache[rightTreeSize]
12
               numberOfTrees += numberOfLeftTrees * numberOfRightTrees
13
           cache.append(numberOfTrees)
14
       return cache[n]
```

```
def numberOfBinaryTreeTopologies(n):
    # Write your code here.
    pass
4
```

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.