AlgoExpert

21 22

2324 }25

return cache[n]

Quad Layout

Swift

14px

Your Solutions

Sublime

Monokai

00:00:

Run Code

Our Solution(s) Run Code

```
Solution 1 Solution 2
                          Solution 3
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   class Program {
       // O(n^2) time | O(1) space
        func numberOfBinaryTreeTopologies(_ n: Int) -> Int {
           for currentMax in stride(from: 1, through: n, by: 1) {
9
               var numberOfTopologies = 0
10
               for leftTreeSize in stride(from: 0, to: currentMax, by: 1 \,
11
                    let rightTreeSize = currentMax - 1 - leftTreeSize
12
13
14
                    let leftNumberOfTopologies = cache[leftTreeSize]
                    let rightNumberOfTopologies = cache[rightTreeSize]
                    numberOfTopologies += leftNumberOfTopologies * rightN
16
17
18
19
                cache.append(numberOfTopologies)
20
```

```
class Program {
    func numberOfBinaryTreeTopologies(_ n: Int) -> Int {
        // Write your code here.
        return -1
    }
}
```

 Our Tests
 Custom Output
 Submit Code



Run or submit code when you're ready.