AlgoExpert

Quad Layout

Swift

14рх

Sublime

Monokai

00:00:

Our Solution(s) Run

```
Run Code
```

```
Your Solutions
```

```
Run Code
```

```
Solution 1 Solution 2
                          Solution 3
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   class Program {
       // Upper Bound: (0(n * (2n)!)/(n!(n + 1)!)) time | 0(n) space
4
        func numberOfBinaryTreeTopologies(_ n: Int) -> Int {
            if n == 0 {
               return 1
9
            var numberOfTopologies = 0
10
11
12
            for leftTreeSize in 0 ...< n \{
13
                let rightTreeSize = n - 1 - leftTreeSize
14
                let leftNumberOfTopologies = numberOfBinaryTreeTopologies
                let rightNumberOfTopologies = numberOfBinaryTreeTopologie
16
17
                numberOfTopologies += leftNumberOfTopologies * rightNumbe
18
19
20
            return numberOfTopologies
21
22 }
23
```

```
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.