AlgoExpert Q

THE RESERVE TO STREET

Solution 1 Solution 2

Quad Layout

JavaScript

14рх

**Your Solutions** 

Solution 1 Solution 2

Sublime

Monokai

00:00:

Run Code

Our Solution(s) Run Code

Solution 3

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   // Upper Bound: O((n*(2n)!)/(n!(n+1)!)) time | O(n) space
 {\tt 4} \quad {\tt function} \ {\tt numberOfBinaryTreeTopologies(n)} \ \{\\
    if (n === 0) return 1;
     let numberOfTrees = 0;
     for (let leftTreeSize = 0; leftTreeSize < n; leftTreeSize++) {</pre>
       const rightTreeSize = n - 1 - leftTreeSize;
       const numberOfLeftTrees = numberOfBinaryTreeTopologies(leftTreeSiz
       const numberOfRightTrees = numberOfBinaryTreeTopologies(rightTreeS
10
       numberOfTrees += numberOfLeftTrees * numberOfRightTrees;
11
12
13
     return numberOfTrees;
14 }
15
16 exports.numberOfBinaryTreeTopologies = numberOfBinaryTreeTopologies;
```

```
function numberOfBinaryTreeTopologies(n) {
   // Write your code here.
}

// Do not edit the line below.
exports.numberOfBinaryTreeTopologies = numberOfBinaryTreeTopologies;
```

Solution 3

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.