3 package main

9

10 11

12

13

14 15

16 17

18 } 19

if n == 0 { return 1

numberOfTrees := 0

return numberOfTrees

Run Code

Our Solution(s)

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

for leftTreeSize := 0; leftTreeSize < n; leftTreeSize++ {</pre>

numberOfTrees += numberOfLeftTrees * numberOfRightTrees

6 func NumberOfBinaryTreeTopologies(n int) int {

rightTreeSize := n - 1 - leftTreeSize

Run Code

Your Solutions

Solution 1 Solution 2 Solution 3

```
numberOfLeftTrees := NumberOfBinaryTreeTopologies(leftTreeSize)
numberOfRightTrees := NumberOfBinaryTreeTopologies(rightTreeSize)
```

```
1 package main
3 func NumberOfBinaryTreeTopologies(n int) int {
    // Write your code here.
    return -1
```

Run or submit code when you're ready.

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