20

Your Solutions

Solution 1 Solution 2

Run Code

Our Solution(s) Run Code

```
Solution 1 Solution 2 Solution 3
 1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 package main
 5 // O(n^2) time | O(n) space
 6 func NumberOfBinaryTreeTopologies(n int) int {
      cache := []int{1}
      \quad \text{for } \textbf{m} \ := \ \textbf{1}; \ \textbf{m} \ < \ \textbf{n+1}; \ \textbf{m++} \ \big\{
        numberOfTrees := 0
9
        for leftTreeSize := 0; leftTreeSize < m; leftTreeSize++ {</pre>
10
11
          rightTreeSize := m - 1 - leftTreeSize
12
          numberOfLeftTrees := cache[leftTreeSize]
13
           numberOfRightTrees := cache[rightTreeSize]
          numberOfTrees += numberOfLeftTrees * numberOfRightTrees
14
15
16
        cache = append(cache, numberOfTrees)
17
18
      return cache[n]
19 }
```

```
package main

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

Solution 3

Run or submit code when you're ready.

The second or beautiful to the contract of the