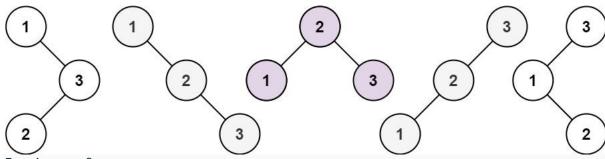
Given an integer n, return the number of structurally unique **BST**'s (binary search trees) which has exactly n nodes of unique values from 1 to n.

Example 1:



Input: n = 3

Output: 5

Example 2:

Input: n = 1

Output: 1

Constraints:

• 1 <= n <= 19

SOLUTION

```
class Solution {
public int numTrees(int n) {
 int[] count = new int[n + 1];
 count[0] = 1;
count[1] = 1;
```

OUTPUT

