

# Problem 96: Unique Binary Search Trees

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 62.97%

**Paid Only:** No

**Tags:** Math, Dynamic Programming, Tree, Binary Search Tree, Binary Tree

## Problem Description

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`

## Code Snippets

**C++:**

```
class Solution {
public:
    int numTrees(int n) {
```

```
}
```

```
};
```

**Java:**

```
class Solution {  
public int numTrees(int n) {  
  
}  
}
```

**Python3:**

```
class Solution:  
def numTrees(self, n: int) -> int:
```