

Description

Editorial

Solutions (1.4K)

Submissions

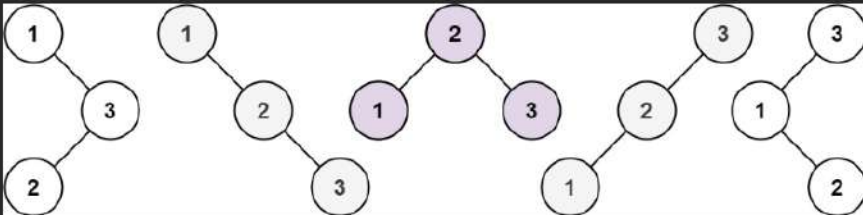
95. Unique Binary Search Trees II

Medium 6.1K 398

Companies

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

Example 1:

Input: $n = 3$ Output: `[[1,null,2,null,3], [1,null,3,2], [2,1,3], [3,1,null,null,2], [3,2,null,1]]`

Example 2:

Input: $n = 1$ Output: `[[1]]`

Constraints:

- $1 \leq n \leq 8$

i Java

Auto

```
14  */
15  */
16  class Solution {
17      public List<TreeNode> generateTrees(int n) {
18          List<TreeNode>[] dp=new ArrayList[n+1][n+1];
19          return memo(1,n,dp);
20      }
21      List<TreeNode> memo(int s,int e,List<TreeNode>[] dp){
22          if(s>e){
23              List<TreeNode> a=new ArrayList<>();
24              a.add(null);
25              return a;
26          }
27          if(dp[s][e]!=null) return dp[s][e];
28          dp[s][e]=new ArrayList<>();
29          for(int i=s;i<=e;i++){
30              List<TreeNode> left=memo(s,i-1,dp);
31              List<TreeNode> right=memo(i+1,e,dp);
32              for(TreeNode l:left)
33                  for(TreeNode r:right)
```

Testcase

Result

Accepted Runtime: 0 ms

Case 1

Case 2

Input

n =

3

Output

`[[1,null,2,null,3], [1,null,3,2], [2,1,3], [3,1,null,null,2], [3,2,null,1]]`

Expected

`[[1,null,2,null,3], [1,null,3,2], [2,1,3], [3,1,null,null,2], [3,2,null,1]]`

Console

Run

Submit

435. Non-overlapping Intervals

Medium 6.9K 180

Companies

Given an array of intervals `intervals` where `intervals[i] = [starti, endi]`, return the minimum number of intervals you need to remove to make the rest of the intervals non-overlapping.

Example 1:

Input: `intervals = [[1,2], [2,3], [3,4], [1,3]]`

Output: 1

Explanation: `[1,3]` can be removed and the rest of the intervals are non-overlapping.

Example 2:

Input: `intervals = [[1,2], [1,2], [1,2]]`

Output: 2

Explanation: You need to remove two `[1,2]` to make the rest of the intervals non-overlapping.

Example 3:

Input: `intervals = [[1,2], [2,3]]`

Output: 0

Explanation: You don't need to remove any of the intervals since they're already non-overlapping.

Constraints:

i Java Auto

```
1 class Solution {
2     public int eraseOverlapIntervals(int[][] intervals) {
3         int n = intervals.length;
4         Arrays.sort(intervals, (a, b) -> Integer.compare(a[1], b[1]));
5
6         int prev = 0;
7         int count = 1;
8
9         for (int i = 1; i < n; i++) {
10             if (intervals[i][0] >= intervals[prev][1]) {
11                 prev = i;
12                 count++;
13             }
14         }
15         return n - count;
16     }
17 }
```

Testcase Result

Accepted Runtime: 1 ms

Case 1 Case 2 Case 3

Input

intervals =
[[1,2], [2,3], [3,4], [1,3]]

Output

1

Expected

1

Console



Run

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