

Description

Editorial

Solutions (7.9K)

Submissions

98. Validate Binary Search Tree

Medium



15.6K

1.3K



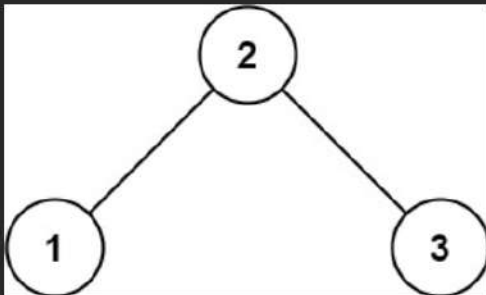
Companies

Given the `root` of a binary tree, determine if it is a valid binary search tree (BST).

A **valid BST** is defined as follows:

- The left **subtree** of a node contains only nodes with keys **less than** the node's key.
- The right subtree of a node contains only nodes with keys **greater than** the node's key.
- Both the left and right subtrees must also be binary search trees.

Example 1:



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

Output: `true`

Example 2:



i Java

Auto

```
15  */
16  class Solution {
17      public boolean isValidBST(TreeNode root) {
18          return isValid(root, null, null);
19      }
20
21      boolean isValid(TreeNode root, Integer max, Integer min) {
22
23          if(root == null)
24              return true;
25
26          if((max != null && root.val >= max) || (min != null && root.val <= min)) {
27              return false;
28          }
29
30          return isValid(root.left, root.val, min) && isValid(root.right, max, root.val);
31      }
32  }
```

Ln 32, Col 2

Testcase

Result

Accepted

Runtime: 0 ms

Case 1

Case 2

Input

root =
[2,1,3]

Output

true

Console



Run

Submit

Description

Editorial

Solutions (2.6K)

Submissions

97. Interleaving String

Medium

7.5K

434



Companies

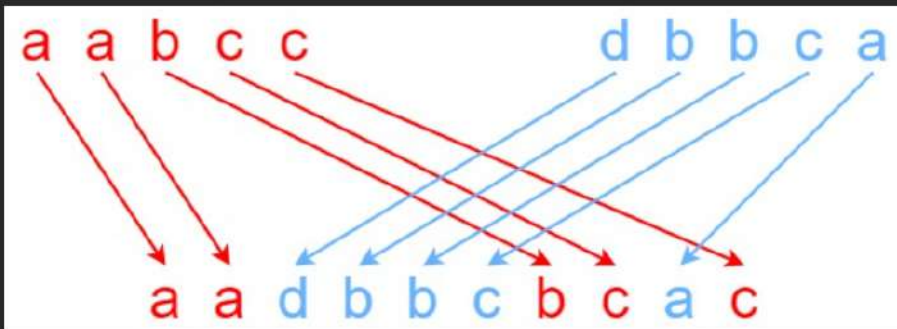
Given strings s_1 , s_2 , and s_3 , find whether s_3 is formed by an **interleaving** of s_1 and s_2 .

An **interleaving** of two strings s and t is a configuration where s and t are divided into n and m substrings respectively, such that:

- $s = s_1 + s_2 + \dots + s_n$
- $t = t_1 + t_2 + \dots + t_m$
- $|n - m| \leq 1$
- The **interleaving** is $s_1 + t_1 + s_2 + t_2 + s_3 + t_3 + \dots$ or $t_1 + s_1 + t_2 + s_2 + t_3 + s_3 + \dots$

Note: $a + b$ is the concatenation of strings a and b .

Example 1:



i Java | Auto

```
1 public class Solution {
2     public boolean isInterleave(String s1, String s2, String s3) {
3         int m = s1.length(), n = s2.length(), l = s3.length();
4         if (m + n != l) return false;
5
6         boolean[] dp = new boolean[n + 1];
7         dp[0] = true;
8
9         for (int j = 1; j <= n; ++j) {
10             dp[j] = dp[j - 1] && s2.charAt(j - 1) == s3.charAt(j - 1);
11         }
12
13         for (int i = 1; i <= m; ++i) {
14             dp[0] = dp[0] && s1.charAt(i - 1) == s3.charAt(i - 1);
15             for (int j = 1; j <= n; ++j) {
16                 dp[j] = (dp[j] && s1.charAt(i - 1) == s3.charAt(i + j - 1)) || (dp[j - 1] && s2.charAt(j - 1) == s3.charAt(i + j - 1));
17             }
18         }
19     }
20 }
```

Testcase Result

Accepted

Runtime: 0 ms

Case 1

Case 2

Case 3

Input

s1 =

"aabc"

s2 =

"dbbca"

s3 =

Console



Run

Submit