BST AVL FF

Nov 10 2023

Create a video explaining and implementing the code for the following instructions

P1: AVL Rotations

You are given an array of nodes that will be added or deleted to an AVL from left to right. Nodes to be deleted have a ‘-’ symbol.
Describe and Visualize which rotations will occur and the the order in which the are executed. Show every the AVL tree after every rotation. Include the Balance Factor for each node.

Use the following Rotations:
- Single Right Rotation (srr)
- Single Left Rotation (slr)
- Right Left Rotation (rlr)
- Left Right Rotation (lrr)

No implementation is needed. Completion is scored on conceptual explanation. Create your own visuals with slides/drawings/Canva/etc.

P1: AVL Rotations

Array 1

[1, 2, 3, 4, 5, 6, -2, -6]

Array 2

[7, 9, 8, 2, 3, 12, -7,12, 5,-2, 6, 1, -8]

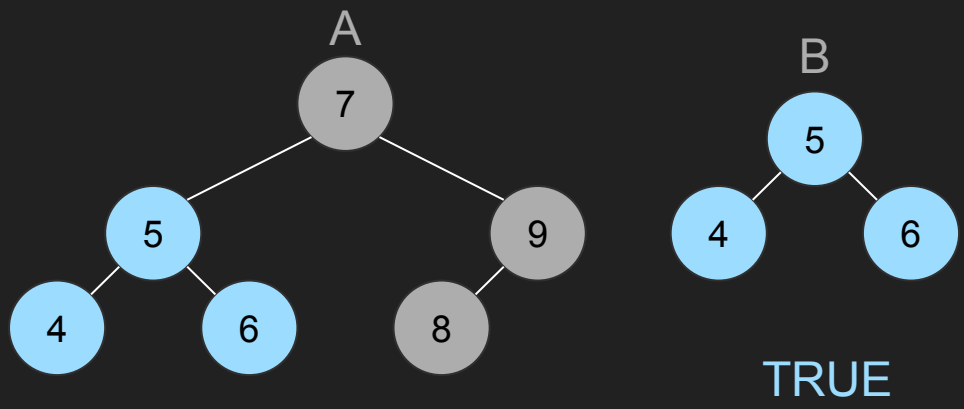
P2: Binary Search Trees

You are given the roots of Tree A and Tree B. You must Determine if Tree B is a nested portion of Tree A. Return True if it is, return False other-wise

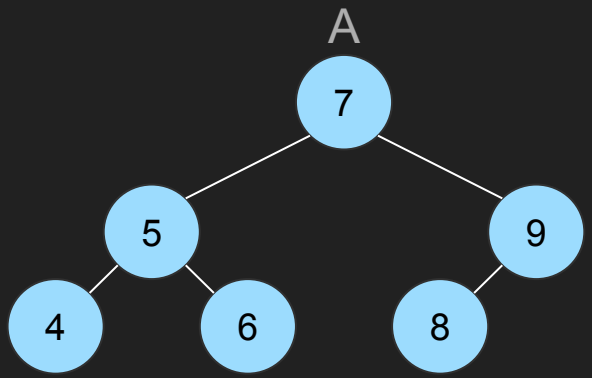
All descendants of Tree B must match the portion of Tree A to be considered nested.

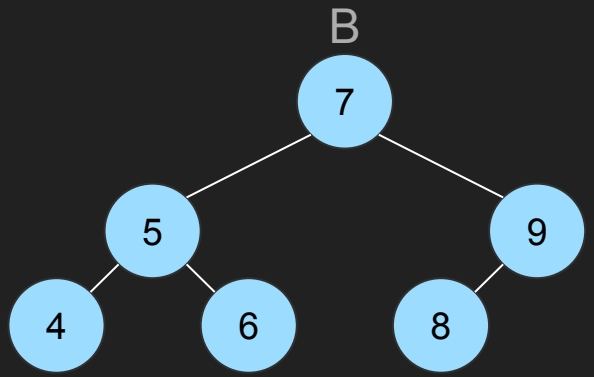
Example TreeNode Structure

```
struct tNode{
        Int Val;
        tNode *left;
        tNode*right;
        //constructors go here
};
```

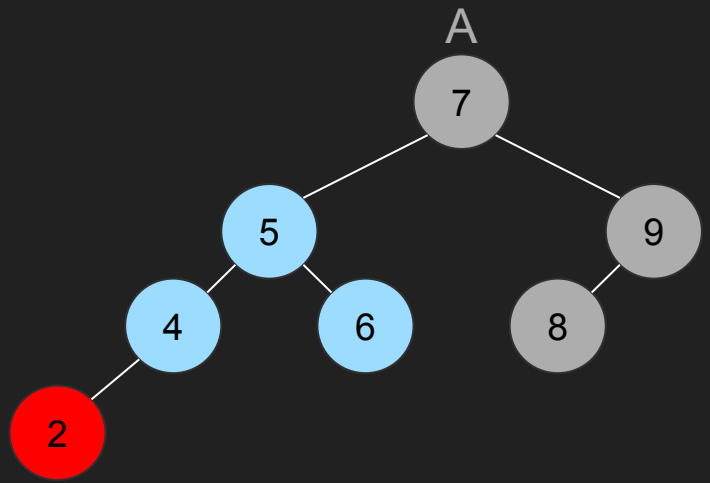


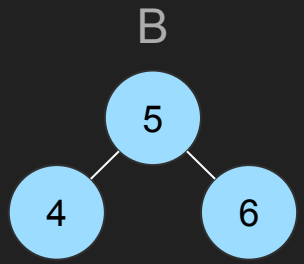
P2: Binary Search Trees





TRUE





FALSE

SUBMIT

Upload video to coogTube or any other video sharing platform (youtube)

FF → Coogtube

Upload code to repl.it or any other code sharing platform

Fill out https://forms.gle/7rhu2E13wAcF2G6P8

SUBMIT **BEFORE** 9 PM

Contact me if there are any upload/submission errors

Submit even if unfinished. There is partial credit!