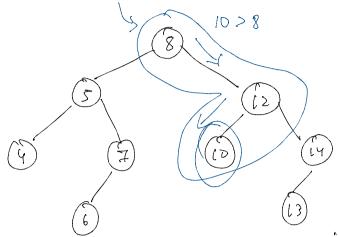
01 April 2022 10:17 AM

Search in BST-7 (log_N) height



T.
$$C \Rightarrow (\log_2 N)$$

You copy't traverse all the roke, either left or right

if note = 9

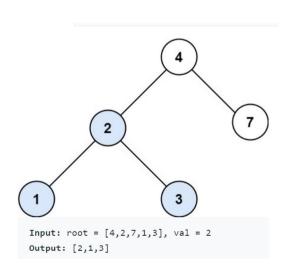
You go to note = 10

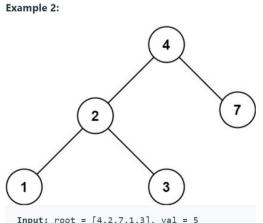
then it should be in left of (10)

if it not present then return null.

You are given the root of a binary search tree (BST) and an integer val.

Find the node in the BST that the node's value equals val and return the subtree rooted with that node. If such a node does not exist, return null.





Input: root = [4,2,7,1,3], val = 5
Output: []

```
class Solution {
   public TreeNode searchBST(TreeNode root, int val) {
      while(root != null && root.val != val){
            // if the root value is less than val then move left else move right
            root = val < root.val ? root.left : root.right;
      }
      return root;
   }
}</pre>
```