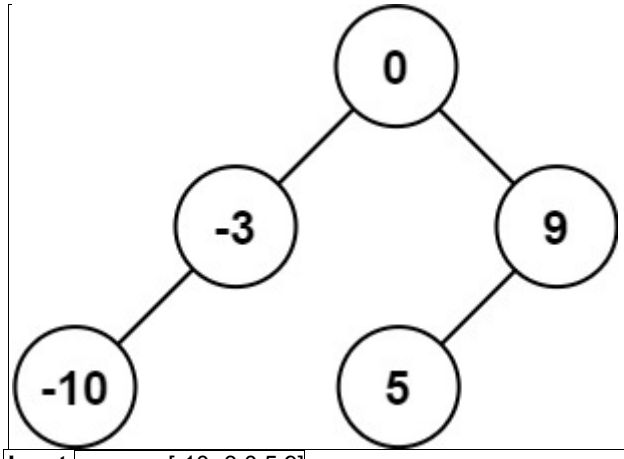
Leetcode Problem 1. (Easy)

Convert Sorted Array to Binary Search Tree

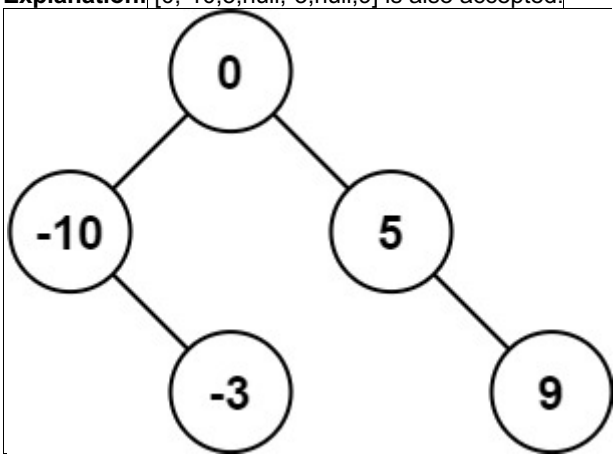
Given an integer array nums where the elements are sorted in **ascending order**, convert *it to a*

height-balanced
binary search tree.

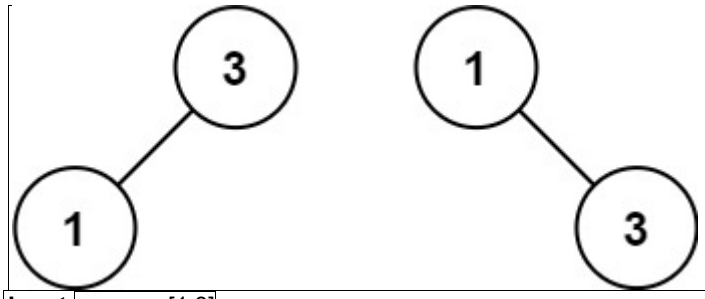
Example 1:



Input: nums = [-10,-3,0,5,9]
Output: [0,-3,9,-10,null,5]
Explanation: [0,-10,5,null,-3,null,9] is also accepted:



Example 2:



Input: nums = [1,3]
Output: [3,1]
Explanation: [1,null,3] and [3,1] are both height-balanced BSTs.

Constraints:

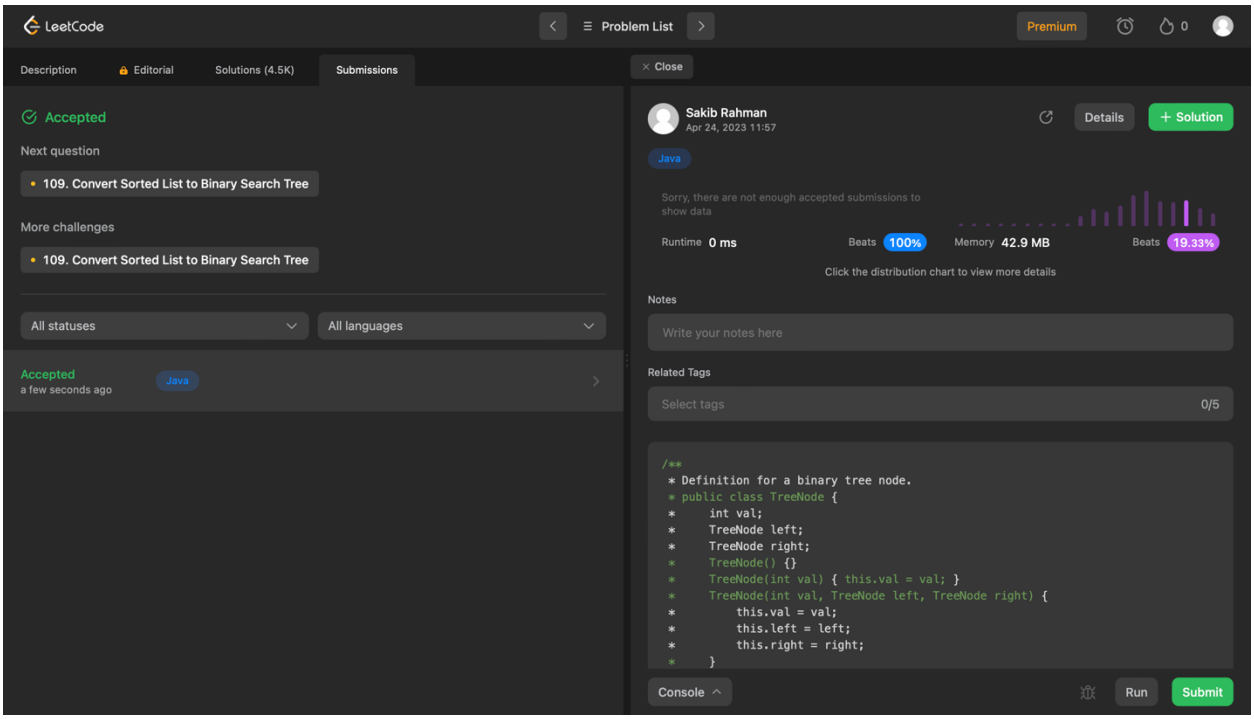
- $1 <= nums.length <= 10^4$
- $-10^4 <= nums[i] <= 10^4$
- nums is sorted in a **strictly increasing** order.

Link: https://leetcode.com/problems/convert-sorted-array-to-binary-search-tree/

```
class Solution {
    public TreeNode sortedArrayToBST(int[] nums) {

  return buildTree(nums, 0, nums.length - 1);
}

private TreeNode buildTree(int[] nums, int left, int right) {
    if (left > right) {
        return null;
    }
    int mid = (left + right) / 2;
    TreeNode root = new TreeNode(nums[mid]);
    root.left = buildTree(nums, left, mid - 1);
    root.right = buildTree(nums, mid + 1, right);
    return root;
}
}
```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0
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Next question
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More challenges
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/**
* Definition for a binary tree node.
* public class TreeNode {
* int val;
* TreeNode left;
* TreeNode right;
* TreeNode() {}
* TreeNode(int val) { this.val = val; }
* TreeNode(int val, TreeNode left, TreeNode right) {
* this.val = val;
* this.left = left;
* this.right = right;
* }
Console
Run
Submit