## **Delete Node in a BST**

difficulty: Medium

https://leetcode.com/problems/delete-node-in-a-bst/

Given a root node reference of a BST and a key, delete the node with the given key in the BST. Return the root node reference (possibly updated) of the BST.

Basically, the deletion can be divided into two stages:

- 1. Search for a node to remove.
- 2. If the node is found, delete the node.

Note: Time complexity should be O(height of tree).

## **Example:**

Given key to delete is 3. So we find the node with value 3 and delete it.

One valid answer is [5,4,6,2,null,null,7], shown in the following BST.



Another valid answer is [5,2,6,null,4,null,7].



github.com/andy489