

230. Kth Smallest Element in a BST

Medium

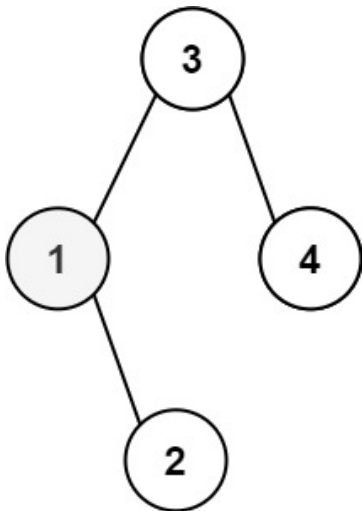
 Topics

 Companies

 Hint

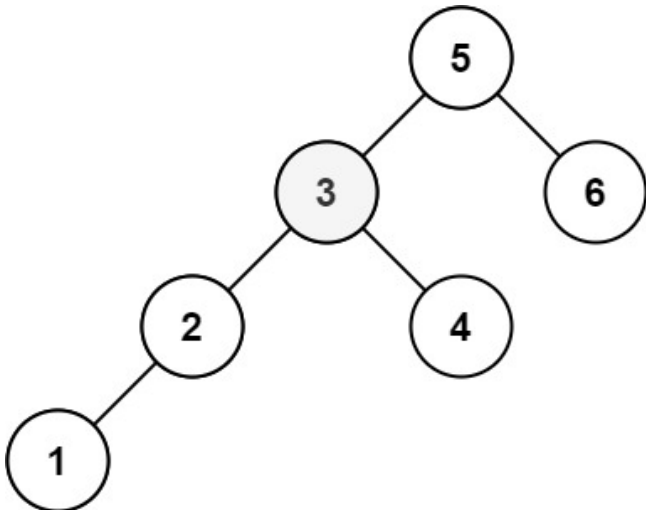
Given the `root` of a binary search tree, and an integer `k`, return *the k^{th} smallest value (**1-indexed**) of all the values of the nodes in the tree.*

Example 1:



Input: `root = [3,1,4,null,2]`, `k = 1`
Output: `1`

Example 2:



Input: `root = [5,3,6,2,4,null,null,1]`, `k = 3`
Output: `3`

Constraints:

- The number of nodes in the tree is `n`.
- $1 \leq k \leq n \leq 10^4$
- $0 \leq \text{Node.val} \leq 10^4$

Follow up: If the BST is modified often (i.e., we can do insert and delete operations) and you need to find the `k`th smallest frequently, how v

Seen this question in a real interview before? 1/4

Yes No