

Follow up: Assume that the BST is balanced. Could you solve it in less than O(n) runtime (where n = total nodes)?

Depth-First Search Binary Search Tree

Heap (Priority Queue)

Easy

Easy

Accepted 82,026 Submissions 149,278

0 ~ 6 months 6 months ~ 1 year 1 year ~ 2 years

Stack

Consider implement these two helper functions:

i. getPredecessor(N), which returns the next smaller node to N. ii. getSuccessor(N), which returns the next larger node to N.

Try to assume that each node has a parent pointer, it makes the problem much easier.

Without parent pointer we just need to keep track of the path from the root to the current node using a stack.

You would need two stacks to track the path in finding predecessor and successor node separately.

Seen this question in a real interview before?

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