

938. Range Sum of BST

Easy

👍 2561

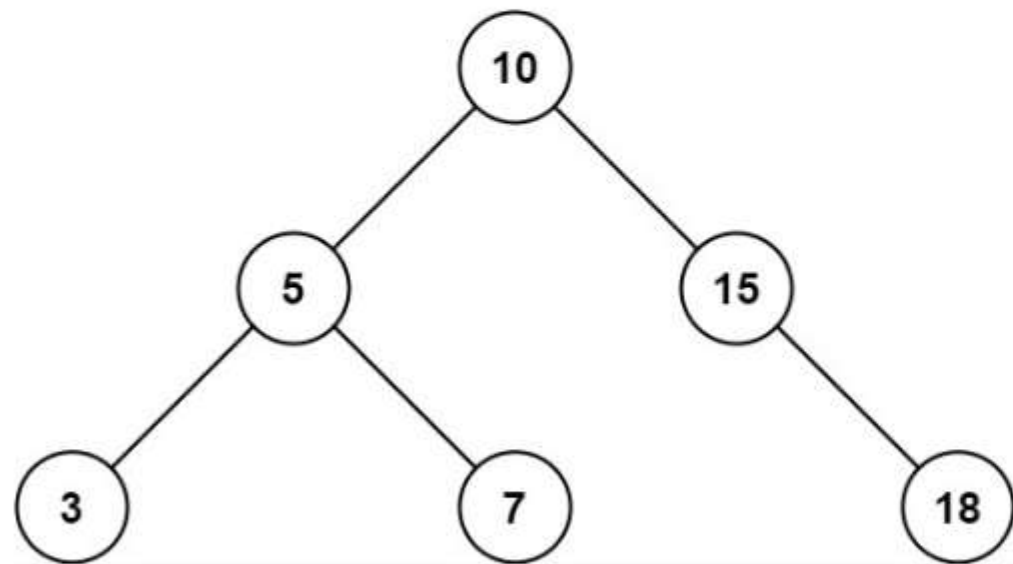
💬 300

❤ Add to List

🔗 Share

Given the `root` node of a binary search tree and two integers `low` and `high`, return *the sum of values of all nodes with a value in the **inclusive** range* `[low, high]`.

Example 1:

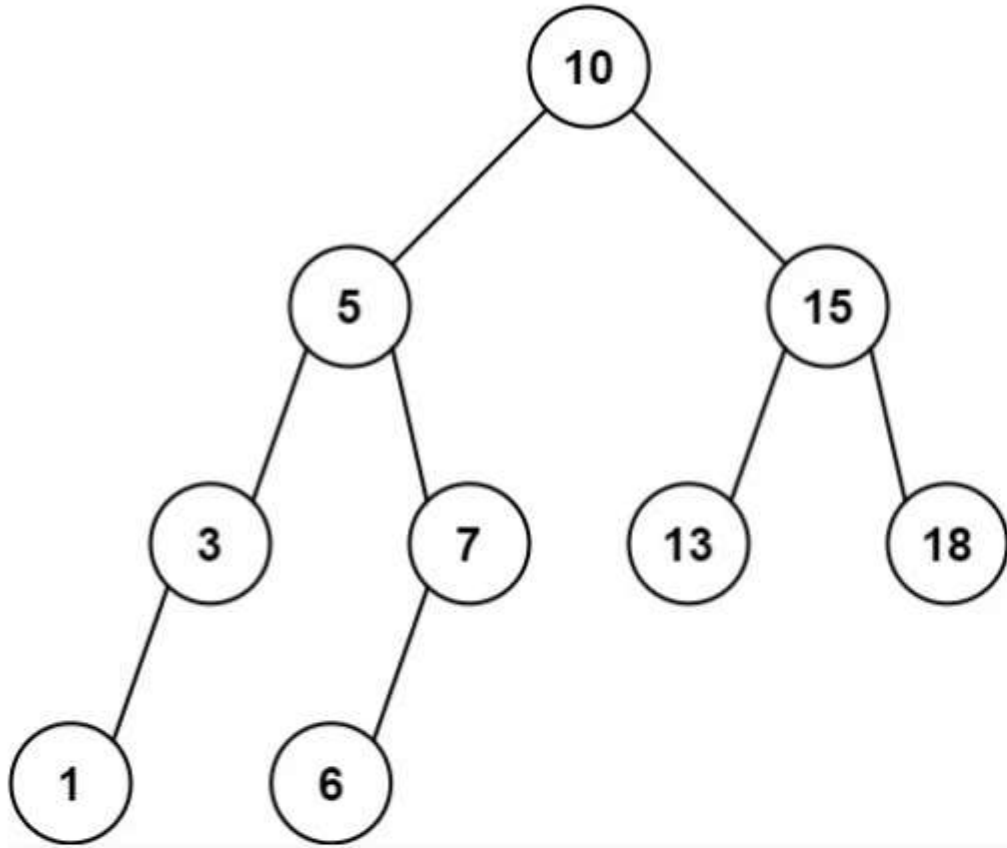


Input: `root = [10,5,15,3,7,null,18]`, `low = 7`, `high = 15`

Output: 32

Explanation: Nodes 7, 10, and 15 are in the range `[7, 15]`. $7 + 10 + 15 = 32$.

Example 2:



Input: root = [10,5,15,3,7,13,18,1,null,6], low = 6, high = 10

Output: 23

Explanation: Nodes 6, 7, and 10 are in the range [6, 10]. $6 + 7 + 10 = 23$.

Constraints:

- The number of nodes in the tree is in the range $[1, 2 * 10^4]$.
- $1 \leq \text{Node.val} \leq 10^5$
- $1 \leq \text{low} \leq \text{high} \leq 10^5$
- All `Node.val` are **unique**.

Related Topics



[Tree](#)

[Depth-first Search](#)

[Recursion](#)