

# Top-20 Training Program (Binary Search Tree Problems)

Apply the solution building strategies discussed in class to solve following problems.

## Group1

BST Balance Check: <a href="https://leetcode.com/problems/balanced-binary-tree/description/">https://leetcode.com/problems/validate-binary-search-tree/description/</a>
LCA in BST: <a href="https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-search-tree/description/">https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-search-tree/description/</a>

Convert BST to Greater BST: <a href="https://leetcode.com/problems/convert-bst-to-greater-tree/description/">https://leetcode.com/problems/convert-bst-to-greater-tree/description/</a>

## Group2

Recover BST: <a href="https://leetcode.com/problems/recover-binary-search-tree/description/">https://leetcode.com/problems/recover-binary-search-tree/description/</a>
Two Sum in BST: <a href="https://leetcode.com/problems/two-sum-iv-input-is-a-bst/description/">https://leetcode.com/problems/trim-a-binary-search-tree/description/</a>
SerDe of BST: <a href="https://leetcode.com/problems/serialize-and-deserialize-bst/description/">https://leetcode.com/problems/serialize-and-deserialize-bst/description/</a>
Kth Smallest in BST: <a href="https://leetcode.com/problems/kth-smallest-element-in-a-bst/description/">https://leetcode.com/problems/kth-smallest-element-in-a-bst/description/</a>

# Group3

Min Distance between BST nodes: <a href="https://leetcode.com/problems/minimum-distance-between-bst-nodes/description/">https://leetcode.com/problems/minimum-distance-between-bst-nodes/description/</a>

Min Absolute difference between BST nodes <a href="https://leetcode.com/problems/minimum-absolute-difference-in-bst/description/">https://leetcode.com/problems/minimum-absolute-difference-in-bst/description/</a>

**Sorted Array to BST:** <a href="https://leetcode.com/problems/convert-sorted-array-to-binary-search-tree/description/">https://leetcode.com/problems/convert-sorted-array-to-binary-search-tree/description/</a>

**Sorted List to BST:** <a href="https://leetcode.com/problems/convert-sorted-list-to-binary-search-tree/description/">https://leetcode.com/problems/convert-sorted-list-to-binary-search-tree/description/</a>

**BST Iterator:** https://leetcode.com/problems/binary-search-tree-iterator/description/

## Group4

**BST Range Search:** Given two values k1 and k2 (where k1 < k2) and a root pointer to a Binary Search Tree. Find all the keys of tree in range k1 to k2. i.e. print all x such that k1 <= x <= k2 and x is a key of given BST. Return all the keys in ascending order.

Ph: +91-9246582537



# Top-20 Training Program (Binary Search Tree Problems)

**Floor & Ceil:** Find an efficient algorithm to compute the floor and ceil of given element in a BST. Floor(x) refers to maximum element that is smaller than x. Ceil(x) refers to minimum element that is higher than x.

