Binary Search Trees

Concepts to cover

- inserting node, searching a value in BST
- deleting a node in a BST: https://leetcode.com/problems/delete-node-in-a-bst/description/
- checking if a tree is a bst or not
- inorder successor and inorder predecessor in a BST: https://www.geeksforgeeks.org/problems/predecessor-and-successor/1
- LCA of two node in BST - O(height) here: https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-search-tree/description/
- https://leetcode.com/problems/unique-binary-search-trees/description/ Number of possible binary trees
- https://leetcode.com/problems/kth-smallest-element-in-a-bst/description/ similar to lower bound
- https://leetcode.com/problems/find-mode-in-binary-search-tree/ preorder or convert to LL

Applications

Sets or Maps (log(N) complexity)

- add
- erase
- count / find