Top-20 Training Program
(Binary Tree Problems)

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

Group1: Basic Problems

Sum of Left Leaves: https://leetcode.com/problems/sum-of-left-leaves/description/
Second Minimum in Binary Tree: https://leetcode.com/problems/second-minimum-node-in-a-binary-tree/description/
Count Complete Nodes: https://leetcode.com/problems/count-complete-tree-nodes/description/
Print Binary Tree: https://leetcode.com/problems/print-binary-tree/description/
LCA of Binary Tree: https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/description/
Populating Next Right Pointers-I: https://leetcode.com/problems/populating-next-right-pointers-in-each-node/description/
Populating Next Right Pointers-II: https://leetcode.com/problems/populating-next-right-pointers-in-each-node-ii/description/

Group2: Level based problems

Bottom Left Tree Value: https://leetcode.com/problems/find-bottom-left-tree-value/description/
Level Order Largest Value: https://leetcode.com/problems/find-largest-value-in-each-tree-row/description/
Level Order Traversal-I: https://leetcode.com/problems/binary-tree-level-order-traversal/description/
Level Order Traversal-II: https://leetcode.com/problems/binary-tree-level-order-traversal-ii/description/
ZigZag Level Order Traversal-I: https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/description/
Average of Levels: https://leetcode.com/problems/average-of-levels-in-binary-tree/description/
Maximum Width: https://leetcode.com/problems/maximum-width-of-binary-tree/description/
Right Side View: https://leetcode.com/problems/binary-tree-right-side-view/description/
Add One Row: https://leetcode.com/problems/add-one-row-to-tree/solution/
TopView: https://www.hackerrank.com/challenges/tree-top-view/problem

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Group3: SerDe based problems

SerDe of Binary Tree: https://leetcode.com/problems/serialize-and-deserialize-binary-tree/description/
Construct Binary Tree from inorder & postorder: https://leetcode.com/problems/construct-binary-tree-from-inorder-and-postorder-traversal/description/
String from Binary Tree: https://leetcode.com/problems/construct-string-from-binary-tree/description/
Subtree Check: https://leetcode.com/problems/subtree-of-another-tree/description/
Most Frequent Subtree Sum: https://leetcode.com/problems/most-frequent-subtree-sum/description/
Duplicate Subtrees: https://leetcode.com/problems/find-duplicate-subtrees/description/

Group4: Misc Problems

Symmetric Tree: https://leetcode.com/problems/symmetric-tree/description/
Same Tree: https://leetcode.com/problems/same-tree/description/
Binary Tree Tilt: https://leetcode.com/problems/binary-tree-tilt/description/
Invert Binary Tree: https://leetcode.com/problems/invert-binary-tree/description/
Flatten Binary Tree: https://leetcode.com/problems/flatten-binary-tree-to-linked-list/description/
Merge Binary Trees: https://leetcode.com/problems/merge-two-binary-trees/description/
Maximum Binary Tree: https://leetcode.com/problems/maximum-binary-tree/description/

Group5: Path based problems

Diameter of BinaryTree: https://leetcode.com/problems/diameter-of-binary-tree/description/
Path Sum-I: https://leetcode.com/problems/path-sum/description/
Path Sum-II: https://leetcode.com/problems/path-sum-ii/description/
Root-to-Leaf Paths: https://leetcode.com/problems/sum-root-to-leaf-numbers/description/
Path Sum-III: https://leetcode.com/problems/path-sum-iii/description/
Longest Univalue Path: https://leetcode.com/problems/longest-univalue-path/description/
Maximum Path Sum: https://leetcode.com/problems/binary-tree-maximum-path-sum/description/