

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

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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/>