

# TREES SDE SHEET

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DISCLAIMER - The problems have been sorted based on relevance and difficulty.  
Similar problems are grouped together.

## Binary Trees

1. <https://leetcode.com/problems/maximum-depth-of-binary-tree/>
2. <https://leetcode.com/problems/invert-binary-tree/>
3. <https://leetcode.com/problems/symmetric-tree/>
4. <https://leetcode.com/problems/binary-tree-preorder-traversal/>
5. <https://leetcode.com/problems/binary-tree-inorder-traversal/>
6. <https://leetcode.com/problems/binary-tree-postorder-traversal/>
7. <https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inorder-traversal/>
8. <https://leetcode.com/problems/construct-binary-tree-from-inorder-and-postorder-traversal/>
9. <https://leetcode.com/problems/sum-root-to-leaf-numbers/>
10. <https://leetcode.com/problems/cousins-in-binary-tree/>
11. <https://leetcode.com/problems/serialize-and-deserialize-binary-tree/>
12. <https://leetcode.com/problems/merge-two-binary-trees/>
13. <https://leetcode.com/problems/find-duplicate-subtrees/>
14. <https://www.geeksforgeeks.org/find-maximum-or-minimum-in-binary-tree/>
15. <https://leetcode.com/problems/vertical-order-traversal-of-a-binary-tree/> (VVI)
16. <https://www.geeksforgeeks.org/print-left-view-binary-tree/>
17. <https://practice.geeksforgeeks.org/problems/right-view-of-binary-tree/1>
18. <https://practice.geeksforgeeks.org/problems/top-view-of-binary-tree/1>
19. <https://www.geeksforgeeks.org/bottom-view-binary-tree/>
20. <https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/> (VVI)
21. <https://practice.geeksforgeeks.org/problems/boundary-traversal-of-binary-tree/1> (VVI)

22. <https://leetcode.com/problems/diameter-of-binary-tree/> (VVI)
23. <https://leetcode.com/problems/balanced-binary-tree/>
24. <https://leetcode.com/problems/same-tree/>
25. <https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/> (VVVI)
26. <https://leetcode.com/problems/binary-tree-maximum-path-sum/> (VVI)
27. <https://leetcode.com/problems/flatten-binary-tree-to-linked-list/>
28. <https://leetcode.com/problems/populating-next-right-pointers-in-each-node/>

## Binary Search Trees

N.B - Always remember the very important property of BST. It is sorted in its inorder form.

Also all Binary Trees are NOT Binary Search Trees , but the reverse is true.

1. <https://leetcode.com/problems/validate-binary-search-tree/>
2. <https://leetcode.com/problems/convert-sorted-array-to-binary-search-tree/> (Important for Concept Building)
3. <https://www.geeksforgeeks.org/flatten-bst-to-sorted-list-increasing-order/>
4. <https://leetcode.com/problems/search-in-a-binary-search-tree/>
5. <https://www.geeksforgeeks.org/check-if-a-given-array-can-represent-preorder-traversal-of-binary-search-tree/>
6. <https://leetcode.com/problems/range-sum-of-bst/>
7. <https://leetcode.com/problems/kth-smallest-element-in-a-bst/>
8. <https://www.geeksforgeeks.org/remove-bst-keys-outside-the-given-range/>
9. <https://leetcode.com/problems/two-sum-iv-input-is-a-bst/>
10. <https://leetcode.com/problems/delete-node-in-a-bst/>
11. <https://leetcode.com/problems/serialize-and-deserialize-bst/>
12. <https://www.geeksforgeeks.org/convert-given-binary-tree-doubly-linked-list-set-3/>
13. <https://leetcode.com/problems/all-nodes-distance-k-in-binary-tree/>
14. <https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-search-tree/>
15. <https://www.geeksforgeeks.org/inorder-successor-in-binary-search-tree/>
16. <https://www.geeksforgeeks.org/floor-and-ceil-from-a-bst/>
17. <https://www.geeksforgeeks.org/find-a-pair-with-given-sum-in-bst/>
18. <https://leetcode.com/problems/recover-binary-search-tree/>

# N-Ary Trees

1. <https://www.geeksforgeeks.org/next-larger-element-n-ary-tree/>
2. <https://www.geeksforgeeks.org/second-largest-element-n-ary-tree/>
3. <https://www.hackerearth.com/practice/algorithms/graphs/depth-first-search/practice-problems/algorithm/comrades-i-3/>
4. <https://www.geeksforgeeks.org/serialize-deserialize-n-ary-tree/>