Trees

1. Inorder Traversal (Iterative + Recursive)
2. Postorder Traversal (Iterative + Recursive)
3. Level Order Traversal
4. Reverse Level Order
5. Preorder Traversal (Iterative + Recursive)
6. Vertical Order Traversal
7. Morris Traversal for Inorder
8. Morris Traversal for Preorder
9. Morris Traversal for Postorder [https://www.cnblogs.com/AnnieKim/archive/2013/06/15/MorrisTraversal.htm](https://www.cnblogs.com/AnnieKim/archive/2013/06/15/MorrisTraversal.html)
10. Zigzag traversal
11. Reverse Zigzag traversal
12. Spiral level order traversal
13. Line Wise level order traversal
14. Boundary Traversal <https://www.geeksforgeeks.org/boundary-traversal-of-binary-tree/>
15. Diagonal Traversal
16. Binary Tree from Inorder and postorder
17. Binary tree from inorder and preorder
18. Max Path sum in a tree <https://www.geeksforgeeks.org/find-maximum-path-sum-in-a-binary-tree/>
19. Populate inorder successor
20. Doubly linked list to BST
21. BST to CDLL <https://www.geeksforgeeks.org/convert-a-binary-tree-to-a-circular-doubly-link-list>
22. Right View
23. Left View
24. Top View
25. Bottom View
26. Build Mirror of a tree
27. Mirror image of a node in tree <https://www.geeksforgeeks.org/find-mirror-given-node-binary-tree/>
28. Mirror Trees
29. Diameter/Width of a tree
30. Least Common Ancestor
31. Check for child sum property
32. Convert to sum tree
33. Check whether given path sum exists
34. Print all root to leaf paths
35. Identical binary trees
36. Symmetrical Binary Trees
37. Balanced Binary Tree
38. Sorted Array to balanced bst
39. Inorder traversal of cartesian tree
40. Kth smallest element in Tree
41. 2-sum binary tree <https://www.geeksforgeeks.org/find-a-pair-with-given-sum-in-bst/>
42. BST iterator

<http://qa.geeksforgeeks.org/3996/qa.geeksforgeeks.org/3996/implement-an-iterator-over-a-binary-search-tree-bst.html>

1. Recover BST
2. Inversion of Binary Tree
3. Binary Tree to Linked List

[Flatten a binary tree into linked list - GeeksforGeeks](https://www.geeksforgeeks.org/flatten-a-binary-tree-into-linked-list/)

<https://www.geeksforgeeks.org/flatten-a-binary-tree-into-linked-list-set-2/>

1. Root to leaf paths with sum
2. Max and min depth of binary tree
3. Populate next right pointers tree
4. Double the tree
5. Serialize and deserialize a binary tree
6. BST from preorder only

<https://www.geeksforgeeks.org/construct-bst-from-given-preorder-traversal-set-2/>

Dynamic Programming

1. LCS
2. Maximum Subarray Sum (non adjacent)

<http://www.zrzahid.com/max-sum-subsequqnce-with-non-consecutive-elements/> (max product subarray)

1. LIS
2. Kadane’s Algorithm
3. Edit Distance
4. 0/1 Knapsack
5. Rod Cutting <https://www.geeksforgeeks.org/cutting-a-rod-dp-13/>
6. Coin Change
7. Min Array Jumps
8. Subset Sum
9. Minimum Cost Path
10. Fibonacci Numbers
11. Count ways to reach the nth stair <https://www.geeksforgeeks.org/count-ways-reach-nth-stair/>
12. Matrix Multiplication
13. Maximum Increasing Sum
14. Longest palindromic subsequence

<https://www.geeksforgeeks.org/longest-palindromic-subsequence-dp-12/>

<https://www.geeksforgeeks.org/longest-palindrome-subsequence-space/> (o(n) space only)

17. Egg Dropping Problem: <https://www.youtube.com/watch?v=iOaRjDT0vjc>