THRIVE WITH ASHISH

TREES and TRIES

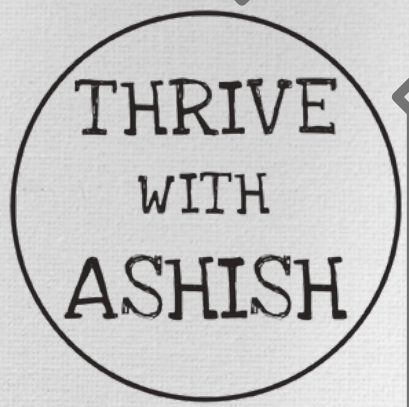
@thriverashish

Day 01

THRIVE WITH ASHISH

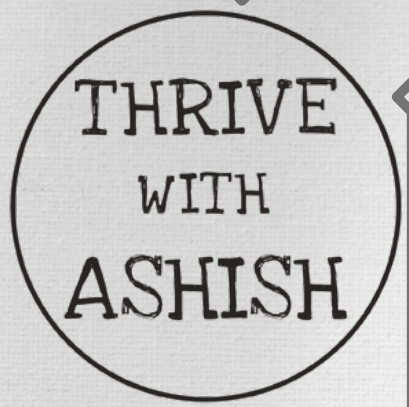
- Read the theory of Binary Trees and different types of Binary Tress
- Understand the Node structure of Binary Tree
-
- Understand and Write Iterative code for following
- Level Order Traversal
- Inorder Traversal - Leetcode 194
- Preorder Traversal
- Postorder Traversal
- Zig Zag Level Oder Traversal

Day 02



- Implement Binary Tree
- Add Node
- Remove Node
- Traverse Node
- Construct Binary Tree from Inorder and PostOrder - Leetcode 105

Day 03



- Same Tree - Leetcode 100
- Invert Binary Tree - Leetcode 226
- Symmetric Binary Tree - Leetcode 101
- Left/Bottom/Top View of Binary Tree
- Vertical Order Traversal of a Binary Tree - Leetcode 987

Day 04

- Maximum Width of Binary Tree - Leetcode 622
- Maximum Depth of Binary Tree - Leetcode 104
- Diameter of Binary Tree - Leetcode 543
- Balanced Binary Tree - Leetcode 110
- Lowest Common Ancestor of a Binary Tree - Leetcode 236

Day 05

- Identify the Path to the given Node
- Binary Tree Maximum Path Sum - Leetcode 124
- Flatten Binary Tree to Linked List - Leetcode 1114
- Mirror Binary Tree
- Serialize and Deserialize Binary Tree - Leetcode 297
- Vertical Sum of Nodes in Binary Tree

Day 06

- Understand Binary Search Tree
- Search an Element in BST - Leetcode 700
- Understand Complexity of searching in BST
- Find Lowest Common Ancestor of given node in BST - Leetcode 235
- Convert Sorted Array to Binary Search Tree - Leetcode 108
- Validate Binary Search Tree - Leetcode 98

Day 07

- Construct BST from Preorder Traversal - Leetcode 1008
- Recover BST - Leetcode 99
- Identify Predecessor and Successor of of a Node in BST
- Kth Smallest Element in a BST
- Two Sum - Input is BST - Leetcode 653

Day 08

- Understand Self-Balancing Binary Search Trees
- Read and Understand Red Black Tree
- Read and Understand AVL Tree

Day 09

- Understand about Quad trees and N-Ary Trees
- Understand Trie Data Structure
- Implement Trie (Prefix Tree)

Day 10

- Maximum XOR of Two Numbers in an Array - Leetcode 421
- Maximum XOR With an Element From Array - Leetcode 1707
- Hotel Reviews - InterviewBit

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Ashish Gupta

Software Developer

Mentor | Educator

follow me for

- Software Engineering
- Coding
- System Design
- Interview Tips
- Mentorship
- Career Guidance
- Corporate Life
- Mental Health Talks
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