**Bit Manupulation <Memorize>**

Binary Gap : <https://leetcode.com/problems/binary-gap/description/>

Flip bit problem : <https://github.com/settyblue/HackerRank/blob/master/Algorithms/Bits/flipBits.java>

Reverse bit <https://leetcode.com/problems/reverse-bits/description/>

**Tree**

Mirror of a Tree: <https://www.geeksforgeeks.org/write-an-efficient-c-function-to-convert-a-tree-into-its-mirror-tree/> ebay/MirrorTree

BFS of a graph: ebay/BFS/

DFS of a graph: ebay/DFS/

Subtree of Another Tree: <https://leetcode.com/problems/subtree-of-another-tree/description/>

Iterative Traversal of Binary Tree : [Iterative Postorder Traversal of Binary Tree](https://www.youtube.com/watch?v=qT65HltK2uE) ebay/TreeTraversals

Is Binary Search Tree: [Check if Binary Tree is Binary Search Tree](https://www.youtube.com/watch?v=MILxfAbIhrE) ebay/IsBST

Subtree of Another Tree : <https://leetcode.com/problems/subtree-of-another-tree/description/>

[Check if a binary tree is subtree of another binary tree | Part 1 | GeeksforGeeks](https://www.youtube.com/watch?v=npetHinL22Q)

LCA BST : <https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-search-tree/description/>

LCA Binary Tree : <https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/description/>

Balanced Binary Tree: <https://leetcode.com/problems/balanced-binary-tree/description/>

Maximum Depth Binary Tree : <https://leetcode.com/problems/maximum-depth-of-binary-tree/description/>

Minumum Depth Binary Tree : <https://leetcode.com/problems/minimum-depth-of-binary-tree/description/>

Binary Tree Right Side View : <https://leetcode.com/problems/binary-tree-right-side-view/description/>

Binary Tree Inorder Traversal : <https://leetcode.com/problems/binary-tree-inorder-traversal/description/>

Binary Tree Preorder Traversal : <https://leetcode.com/problems/binary-tree-preorder-traversal/description/>

Binary Tree Postorder Traversal : <https://leetcode.com/problems/binary-tree-postorder-traversal/description/>

Binary Search Tree Iterator: <https://leetcode.com/problems/binary-search-tree-iterator/description/>

Kth Smallest Element in a BST : <https://leetcode.com/problems/kth-smallest-element-in-a-bst/description/>

Inorder Successor in BST: <https://leetcode.com/problems/inorder-successor-in-bst/description/>

Minimum Distance Between BST Nodes : <https://leetcode.com/problems/minimum-distance-between-bst-nodes/description/>

Serialize and Deserialize Binary Tree: <https://leetcode.com/problems/serialize-and-deserialize-binary-tree/description/>

Count Complete Tree Nodes : <https://leetcode.com/problems/count-complete-tree-nodes/description/>

**Stack and Queue**

Implement Queue using 2 Stacks: [Implementing a Queue Using Two Stacks - Data Structures](https://www.youtube.com/watch?v=AN0axYeLue0) ebay/QueueUsingTwoStacks

Implement Queue using 1 Stack: [Google Interview Question: Implement A Queue With A Stack - Whiteboard Wednesday](https://www.youtube.com/watch?v=71kEvXsEKYQ) ebay/QueueUsingStack

Implement Stack using 2 Queue: ebay/StackUsing2Queues

Implement Stack using 1 Queue: ebay/StackUsingQueue

**LinkedList**

Linked List Cycle : <https://leetcode.com/problems/linked-list-cycle/description/> [Data Structures: Cycles in a Linked List](https://www.youtube.com/watch?v=MFOAbpfrJ8g)

Merge 2 Sorted Lists : <https://leetcode.com/problems/merge-two-sorted-lists/description/>

Reverse Linked List : <https://leetcode.com/problems/reverse-linked-list/description/>

Delete Node in a Linked List : <https://leetcode.com/problems/delete-node-in-a-linked-list/description/>

**Sorting**

Merge sort: <https://www.youtube.com/watch?v=TzeBrDU-JaY>

**String**

Reverse Words in a String : <https://leetcode.com/problems/reverse-words-in-a-string/description/>

extract name from string : ebay/ExtractName

Anagram: <https://leetcode.com/problems/valid-anagram/description/>

**Array**

Climbing Stairs /Fibonacci Number : <https://leetcode.com/problems/climbing-stairs/description/>

Kth Largest Element in an Array : <https://leetcode.com/problems/kth-largest-element-in-an-array/description/>

Split Array into Fibonacci Sequence : <https://leetcode.com/articles/split-array-into-fibonacci-sequence/>

Find All Duplicates in an Array : <https://leetcode.com/problems/find-all-duplicates-in-an-array/description/>

**Others**

Two Sum: <https://leetcode.com/problems/two-sum/description/>

Fibonacci Number : <https://leetcode.com/problems/climbing-stairs/description/>

How to find out the second most frequent integer given an array of integers. <https://www.geeksforgeeks.org/c-program-find-second-frequent-character/>

Give the top ten elements of the given array  <https://stackoverflow.com/questions/4084495/find-top-n-elements-in-an-array>

**Special**

Tower of Hanoi: <https://www.hackerrank.com/contests/launchpad-1-winter-challenge/challenges/shift-plates>

[Recursion Algorithm | Tower Of Hanoi - step by step guide](https://www.youtube.com/watch?v=5_6nsViVM00)

8 queen problem : <https://leetcode.com/problems/n-queens/description/>

Shuffle cards: <https://leetcode.com/problems/shuffle-an-array/description/>

<https://www.geeksforgeeks.org/shuffle-a-deck-of-cards-3/>

LRU cache : <https://leetcode.com/problems/lru-cache/description/>

Printout all the class name available in the jar file

**Priority Queue:** Merge k sorted arrays [Interview Question: Merge K Sorted Arrays](https://www.youtube.com/watch?v=6bvnZzwiKzs&list=PLNmW52ef0uwsjnM06LweaYEZr-wjPKBnj&index=35)

Trie Data Structure : [Trie Data Structure](https://www.youtube.com/watch?v=AXjmTQ8LEoI&list=PLrmLmBdmIlpuE5GEMDXWf0PWbBD9Ga1lO&index=4)

Partition Equal Subset Sum : [Subset Sum Problem Dynamic Programming](https://www.youtube.com/watch?v=s6FhG--P7z0)

<https://leetcode.com/problems/partition-equal-subset-sum/description/>

Unique Paths : <https://leetcode.com/problems/unique-paths/description/>

[Total Ways in Matrix Dynamic Programming](https://www.youtube.com/watch?v=GO5QHC_BmvM)

Unique Paths II : <https://leetcode.com/problems/unique-paths-ii/description/>

[LeetCode Tutorial 63. Unique Paths II](https://www.youtube.com/watch?v=AmRvCR6B5no&t=481s)

Median of Two Sorted Arrays : <https://leetcode.com/problems/median-of-two-sorted-arrays/description/>