DSA Sheet to Leetcode map

Binary Search

- Find the Minimum length Unsorted Subarray, sorting which makes the array sorted(I do not know why this is in binary search) : GFG , Leetcode
- Maximum element in an array which is increasing and then decreasing: GFG , Leetcode
- Find the minimum element/(or search for an element) in a sorted and rotated array: GFG , Leetcode
- Merge two sorted arrays into a single sorted array: GFG , Leetcode
- Longest increasing subsequence: GFG , Leetcode
- Check for Majority Element in a sorted array: GFG , Leetcode
- Search in Rotated Sorted Array: Leetcode
- Majority Element in Unsorted Array: Leetcode
- Find First and Last Position of Element in Sorted Array: Leetcode
- Shortest Unsorted Continuous Subarray: Leetcode
- Find Pivot Index: Leetcode
- Find Peak Element: Leetcode
- Merge Sorted Rotated Array: Leetcode
- Median of 2 sorted Arrays: Leetcode

Divide And Conquer

- Maximum Subarray Sum(prefer kadane over divide and conquer): GFG, Leetcode
- Fibonacci with divide and conquer : Leetcode
- Pow(X,N) in logN : Leetcode
- Closest Pair Of Points (GFG is pretty shitty and I couldn't find any problems for this so I'm putting links to learn): StackOverflow, Youtube

Arrays

- Sorted subsequence of size 3: GFG , Leetcode
- Smallest missing positive number : GFG, LeetCode
- Search in sorted Matrix : GFG, LeetCode1, LeetCode2
- Construct Product Array without division operator: each element = product of elements in arr[] except arr[i] : GFG, LeetCode
- Given binary 2D Matrix, for all cells as 0, set corresponding row and column as 0 : LeetCode
- Rotate Image by 90 degrees: LeetCode
- Largest Sum Contiguous Subarray: GFG, LeetCode
- Largest Product Subarray: GFG , Leetcode
- Rotate array (Leetcode is right rotate): GFG left rotate, GFG right rotate LeetCode
- Max length bitonic subarray(Leetcode one is a bit different): GFG, LeetCode
- Subarray sum equals K (Leetcode solution is very nice) : LeetCode
- Largest Subarray with equal number of zeros and ones : GFG, LeetCode
- Find the Number Occurring Odd Number of Times: LeetCode, LeetCode
- Best time to buy stock: Leetcode, Leetcode, Leetcode,
- Maximum water trapped in histograms Leetcode GFG

Strings

- Reverse a string(Don;t do it normally, use recursion) GFG LeetCode1 LeetCode2
- Print all permutations GFG Hackerank LeetCode1 LeetCode2
- Given a string find its first non-repating charecter GFG LeetCode
- Reverse words in a given string GFG LeetCode1 LeetCode2
- Find Lexographical rank of a string GFG InterviewBit
- Run Length Encoding GFG LeetCode
- ATOI (leetcode one very disliked for some reason) GFG LeetCode HackerRank
- Check wether two strings are anagrams of not GFG LeetCode HackerRank
- Longest substring without repeating charecters GFG LeetCode

- Find the smallest window of string containing all charecters of another string GFG LeetCode
- Recursively Remove all adjacent duplicates (leetcode ones do recursively) GFG LeetCode1 LeetCode2
- String Matching KMP GFG LeetCode

Stacks

- Largest Rectangle in histogram : Leetcode
- Decode String: Leetcode
- Stack using queues Leetcode
- Queues using stacks Leetcode
- Balanced Parantheses Leetcode
- LRU Cache Leetcode
- Stock Span Problem Leetcode
- First greatest element to the right Leetcode
- Sliding window maximum Leetcode

Heaps

- Sort a nearly sorted (or K sorted) array: GFG, HackerRank
- Find the k most frequent words from a file GFG, LeetCode
- Merge k sorted arrays GFG, LeetCode
- Median in a stream of integers GFG, LeetCode

Graphs

- Detect Cycle in a Directed Graph GFG, LeetCode
- Find if there is a path between two vertices in a directed graph GFG , LeetCode
- Find the number of islands LeetCode
- Bellman–Ford Algorithm GFG, LeetCode
- Union Find GFG LeetCode
- Topological Sorting GFG LeetCode
- Strongly Connected Components GFG LeetCode
- Shortest Path in Directed Acyclic Graph GFG LeetCode

- Check whether a given graph is Bipartite or not GFG LeetCode
- Stable Marriage Problem GFG LeetCode
- Travelling Salesman Problem GFG LeetCode

DP

- Coin Change: GFG, LeetCode LeetCode2
- Rod Cutting GFG LeetCode

Tree

- Diameter of a binary tree: leetcode
- Maximum Width of Binary Tree: leetcode
- Two trees are identical: leetcode
- Tree traversal: leetcode inorder, leetcode preorder, leetcode postorder
- Populate inorder successors: leetcode
- level order traversal: leetcode
- reverse level order traversal: leetcode
- vertical order traversal: leetcode
- zig zag traversal: leetcode
- count tree nodes: leetcode
- lowest common ancestor: leetcode
- nodes at distance K from root: leetcode
- Right side view of binary tree: leetcode
- serialize and deserialize BST: leetcode
- tree is balanced or not: leetcode
- check if BT is complete: leetcode
- symmetric tree: leetcode
- Kth smallest element in BST: leetcode
- remove nodes outside given range: leetcode