=> Array:

- **Easy**
  1) Remove Duplicates from Sorted Array - LeetCode
  2) Remove Element - LeetCode
  3) Pascal's Triangle - LeetCode
  4) Best Time to Buy and Sell Stock - LeetCode
  5) Majority Element - LeetCode
  6) Summary Ranges - LeetCode
  7) Max Consecutive Ones - LeetCode
  8) Find Pivot Index - LeetCode
  9) Largest Local Values in a Matrix - LeetCode
  10) Row With Maximum Ones - LeetCode
  11) Check if Grid Satisfies Conditions - LeetCode
  12) Special Array With X Elements Greater Than or Equal X
  13) Maximum Score from Subarray Minimums | Practice | GeeksforGeeks **(Revisit)**

- **Medium**
  1) Maximum Subarray - LeetCode
  2) Insert Interval - LeetCode
  3) Majority Element II
  4) H-Index
  5) Find the Duplicate Number
  6) Maximum Sum Circular Subarray
  7) Time Needed to Inform All Employees
  8) Queue Reconstruction by Height - LeetCode **(Revisit)**

- **Hard**

=> Sorting:

- **Easy**
  1) Merge Intervals: Merge Intervals - LeetCode
- **Medium**
  1) Global and Local Inversions (merge sort usage)
  2) Sort an Array
  3) Range Sum of Sorted Subarray Sums - LeetCode **(Revisit: try with priority queue, insert all elements inititally)**
  4) Quick Sort
- **Hard**
  1) Reverse Pairs

=> Counting sort + greedy :

- **Easy**

1) Relative Sort Array - LeetCode
2) Minimum Number of Moves to Seat Everyone - LeetCode

- **Medium**
  1) Minimum Increment to Make Array Unique - LeetCode
  2) Most profit Assigning Work
- **Hard**

=> String

- **Easy**
  1) (kmp algo, z-algo): Find the Index of the First Occurrence in a String - LeetCode
  2) Length of Last Word - LeetCode
  3) Rotate String - LeetCode
  4) Delete Columns to Make Sorted - LeetCode
  5) Score of a String - LeetCode
  6) Longest Uncommon Subsequence I - LeetCode **(Revisit)**

- **Medium**
  1) Zigzag Conversion - LeetCode
  2) String to Integer (atoi) - LeetCode
  3) Count and Say - LeetCode
  4) Multiply Strings - LeetCode
  5) Reverse Words in a String - LeetCode
  6) Compare Version Numbers
  7) Repeated String Match
  8) Sum of Beauty of All Substrings
  9) Remove All Occurrences of a Substring
  10) Longest Uncommon Subsequence II - LeetCode **(Revisit)**
  11) Longest Word in Dictionary through Deleting - LeetCode **(Revisit)**
- **Hard**
  1) Text Justification
  2) Shortest Palindrome

=> 2 Pointers:

- **Easy**
  1) Two Sum: https://leetcode.com/problems/two-sum/description/
  2) Merge Sorted Array: https://leetcode.com/problems/merge-sorted-array/description/
  3) Valid Palindrome: https://leetcode.com/problems/valid-palindrome/description/
  4) Move Zeros: https://leetcode.com/problems/move-zeroes/description/
  5) Reverse String: https://leetcode.com/problems/reverse-string/description/
  6) Is Subsequence: https://leetcode.com/problems/is-subsequence/description/

- **Medium**
    1) Longest Palindromic Substring - LeetCode
    2) Container With Most Water - LeetCode
    3) Find the Index of the First Occurrence in a String - LeetCode
    4) 3Sum Closest - LeetCode
    5) 4Sum - LeetCode
    6) Next Permutation - LeetCode
    7) Sort Colors - LeetCode **(Revisit)**
    8) Remove Duplicates from Sorted Array II - LeetCode **(Revisit)**
    9) Remove Duplicates from Sorted List II - LeetCode
    10) Two Sum II - Input Array Is Sorted
    11) Rotate Array
    12) String Compression
    13) Rearrange Array Elements by Sign
    14) The Latest Time to Catch a Bus
    15) Sum of Square Numbers - LeetCode **(Revisit)**
    16) Append Characters to String to Make Subsequence - LeetCode
    17) Grumpy Bookstore Owner - LeetCode
- **Hard**
    1) Trapping Rain Water **(Revisit 2 pointer approach)**
    2) Maximum Score of a Good Subarray - LeetCode **(Revisit)**

=> Bit Manipulation:

- **Easy**
    1) Add Binary: https://leetcode.com/problems/add-binary/description/
    2) Single Number: https://leetcode.com/problems/single-number/
    3) Missing Number: https://leetcode.com/problems/missing-number/description/
    4) Minimum Bit Flips to Convert Number: https://leetcode.com/problems/minimum-bit-flips-to-convert-number/description/

- **Medium**
    1) Minimum Number of Operations to make Array XOR Equal to K
    2) Integer Replacement - LeetCode **(Revisit)**
    3) Number of Steps to Reduce a Number in Binary Representation to One **(Revisit)**
    4) Count Triplets That Can Form Two Arrays of Equal XOR
    5) Single Number III
    6) Maximum Product of Word Lengths - LeetCode
    7) Single Number II - LeetCode **(Revisit)**
    8) UTF-8 Validation - LeetCode **(Revisit)**
- **Hard**
    1) Shortest Path Visiting All Nodes - LeetCode **(Revisit)**

=> Binary Search:

- **Easy**
    1) Search Insert Position - LeetCode
    2) Sqrt(x) - LeetCode
    3) Valid Perfect Square - LeetCode
    4) Find the Index of the First Occurrence in a String - LeetCode
    5) Kth Missing Positive Number - LeetCode
    6) Check if Array Is Sorted and Rotated - LeetCode

- **Medium**
    1) Search in Rotated Sorted Array - LeetCode
    2) Find First and Last Position of Element in Sorted Array - LeetCode
    3) Search a 2D Matrix - LeetCode
    4) Search in Rotated Sorted Array II - LeetCode
    5) Find Minimum in Rotated Sorted Array
    6) Find Peak Element
    7) Search a 2D Matrix II
    8) Single Element in a Sorted Array
    9) Find K Closest Elements
    10) K-th Smallest Prime Fraction **(Revisit)**
    11) Peak Index in a Mountain Array
    12) Koko Eating Bananas
    13) Capacity To Ship Packages Within D Days
    14) Find the Smallest Divisor Given a Threshold
    15) Minimum Number of Days to Make m Bouquets
    16) Magnetic Force Between Two Balls
    17) Find a Peak Element II
    18) Heaters - LeetCode **(Revisit)**
- **Hard**
    1) Median of Two Sorted Arrays
    2) Russian Doll Envelopes **(Revisit & understand)**
    3) Split Array Largest Sum
    4) Kth Smallest Element in a Sorted Matrix - LeetCode **(Revisit)**
    5) Kth Smallest Number in Multiplication Table - LeetCode **(Revisit)**

=> Recursion & Backtracking:

- **Easy**
    1) Sum of All Subset XOR Totals
- **Medium**
    1) Letter Combinations of a Phone Number - LeetCode
    2) Generate Parentheses - LeetCode
    3) Combination Sum - LeetCode
    4) Combination Sum II - LeetCode
    5) Permutations - LeetCode

6) Permutations II - LeetCode
7) 1261. Find Elements in a Contaminated Binary Tree
8) Subsets - LeetCode
9) Word Search - LeetCode
10) Subsets II - LeetCode
11) Combination Sum III
12) The Number of Beautiful Subsets **(Revisit)**
13) Palindrome Partitioning - LeetCode
14) Count of Range Sum - LeetCode

- **Hard**
  1) Sudoku Solver
  2) N-Queens
  3) N-Queens II
  4) Expression Add Operators
  5) Maximum Score Words Formed by Letters
  6) Word Break II
  7) 24 Game - LeetCode **(Revisit)**

=> Maths:

- **Easy**
  1) Palindrome Number - LeetCode
  2) Roman to Integer - LeetCode
  3) Happy Number - LeetCode
  4) Power of Two - LeetCode
  5) Complement of Base 10 Integer - LeetCode
  6) Distribute Candies to People - LeetCode
  7) Power of Three - LeetCode
- **Medium**
  1) Integer to Roman - LeetCode
  2) Product of Array Except Self - LeetCode
  3) Pow(x, n) - LeetCode
  4) Count Primes
  5) Ugly Number II
  6) Count Good Numbers
  7) Reverse Integer - LeetCode
  8) Fraction to Recurring Decimal - LeetCode
  9) Super Ugly Number - LeetCode
  10) Find the Winner of the Circular Game - LeetCode
  11) Maximize Distance to Closest Person - LeetCode
  12) Exam Room **(Revisit)**
  13) Nth Digit - LeetCode **(Revisit)**
  14) Random Pick with Weight - LeetCode **(Revisit)**
  15) Count Numbers with Unique Digits - LeetCode **(Revisit)**

- **Hard**
    1) Permutation Sequence **(Revisit)**
    2) First Missing Positive - LeetCode **(Revisit)**
    3) Integer to English Words - LeetCode **(Revisit: look at failed edge cases)**

=> Matrix BFS & DFS:

- **Easy**
    1) Flood Fill: https://leetcode.com/problems/flood-fill/description/

- **Medium**
    1) Valid Sudoku: https://leetcode.com/problems/valid-sudoku/
    2) Rotate Image: https://leetcode.com/problems/rotate-image/description/
    3) Spiral Matrix: https://leetcode.com/problems/spiral-matrix/description/
    4) Set Matrix Zeroes: https://leetcode.com/problems/set-matrix-zeroes/description/
    5) Surrounded Regions: https://leetcode.com/problems/surrounded-regions/description/
    6) Number of Islands
    7) Minimum Number of Flips to Make Binary Grid Palindromic I - LeetCode
    8) Game of Life
    9) Pacific Atlantic Water Flow
    10) Construct Quad Tree
    11) 01 Matrix
    12) Max Area of Island
    13) Snakes and Ladders **(Revisit)**
    14) Shortest Bridge
    15) Rotting Oranges
    16) Number of Enclaves
    17) Coloring A Border
    18) Shortest Path in Binary Matrix
    19) As Far from Land as Possible
    20) Number of Closed Islands
    21) Check if Word Can Be Placed In Crossword - LeetCode **(Revisit)**
    22) Minimum Number of Flips to Make Binary Grid Palindromic II - LeetCode**(Revisit)**
    23) Spiral Matrix III
    24) Spiral Matrix II - LeetCode
    25) Spiral Matrix IV - LeetCode
    26) Magic Squares In Grid - LeetCode
- **Hard**
    1) Swim in Rising Water **(Revisit)**

=> Trie:

- **Easy**
    1) Longest Common Prefix - LeetCode

- **Medium**
    1) Implement Trie (Prefix Tree)
    2) Design Add and Search Words Data Structure **(Revisit)**
    3) Maximum XOR of Two Numbers in an Array
    4) Replace Words - LeetCode
- **Hard**
    1) Word Search II **(Revisit)**
    2) Maximum XOR With an Element From Array
    3) Construct String with Minimum Cost - LeetCode
    4) Stream of Characters - LeetCode **(Revisit)**

=> Stack:

- **Easy**
    1) Valid Parentheses - LeetCode
    2) Next Greater Element I - LeetCode
    3) Remove Outermost Parentheses - LeetCode
    4) Remove All Adjacent Duplicates In String - LeetCode
    5) Final Prices With a Special Discount in a Shop - LeetCode
    6) Maximum Nesting Depth of the Parentheses - LeetCode
    7) Min Stack

- **Medium**
    1) Simplify Path - LeetCode
    2) Evaluate Reverse Polish Notation - LeetCode
    3) Remove K Digits
    4) Next Greater Element II
    5) Valid Parenthesis String
    6) Asteroid Collision
    7) Online Stock Span
    8) Sum of Subarray Minimums
    9) Sum of Subarray Ranges
    10) Car Fleet - LeetCode
    11) Reverse Substrings Between Each Pair of Parentheses - LeetCode
    12) Minimum Deletions to Make String Balanced - LeetCode **(Revisit)**
    13) Verify Preorder Serialization of a Binary Tree - LeetCode **(use stack)**
    14) Longest Absolute File Path - LeetCode **(Revisit)**
    15) 1717. Maximum Score From Removing Substrings **(Revisit)**
- **Hard**
    1) Largest Rectangle in Histogram
    2) Maximal Rectangle
    3) Robot Collisions - LeetCode
    4) Number of Atoms - LeetCode

5) Car Fleet II - LeetCode **(Revisit)**

=> Queue:

- **Easy**
  1) Implement Queue using Stacks: https://leetcode.com/problems/implement-queue-using-stacks/
- **Medium**
  1) Design Circular Queue
  2) Design Circular Deque
- **Hard**

=> Randomization:

- **Easy**
- **Medium**
- **Hard**
  1) Guess the Word - LeetCode

=> Deque:

- **Easy**
- **Medium**
  1) Longest Continuous Subarray With Absolute Diff Less Than or Equal to Limit - LeetCode **(Revisit)**
- **Hard**

=> Sliding Window:

- **Easy**
  1) Three Consecutive Odds - LeetCode
  2) Alternating Groups I - LeetCode
- **Medium**
  1) Maximum Subarray - LeetCode
  2) Minimum Size Subarray Sum **(Revisit)**
  3) Longest Repeating Character Replacement **(Revisit Important)**
  4) Permutation in String
  5) Max Consecutive Ones III
  6) Count Number of Nice Subarrays
  7) Number of Substrings Containing All Three Characters
  8) Maximum Points You Can Obtain from cards
  9) Frequency of the Most Frequent Element
  10) Get Equal Substrings Within Budget
  11) Alternating Groups II

12) Minimum Operations to Make Binary Array Elements Equal to One I
13) Minimum Swaps to Group All 1's Together II - LeetCode **(Revisit)**
14) Maximum Sum of Two Non-Overlapping Subarrays - LeetCode **(Revisit)**

- **Hard**
  1) Substring with Concatenation of All Words
  2) Minimum Window Substring
  3) Sliding Window Maximum
  4) Subarrays with K Different Integers
  5) Sliding Window Median - LeetCode **(Revisit)**
  6) Maximum Sum of 3 Non-Overlapping Subarrays - LeetCode **(Revisit)**

=> Ordered Set:

- **Easy:**
- **Medium:**
- **Hard:**
  1) Range Module - LeetCode **(Revisit)**
  2) Max Sum of Rectangle No Larger Than K - LeetCode **(Revisit)**
  3) Create Maximum Number - LeetCode **(Revisit)**
  4) Finding MK Average - LeetCode **(Revisit)**

=> Heap:

- **Easy**
  1) Kth Largest Element in a Stream: https://leetcode.com/problems/kth-largest-element-in-a-stream/description/
- **Medium**
  1) Kth Largest Element in an Array
  2) Top K Frequent Elements
  3) Design Twitter
  4) Find K Pairs with Smallest Sums **(Revisit)**
  5) Sort Characters By Frequency
  6) Hand of Straights
  7) Task Scheduler - LeetCode (**Better Solution**)
- **Hard**
  1) Find Median from Data Stream
  2) IPO
  3) Smallest Range Covering Elements from K Lists **(Revisit important: isko rata hai)**

=> Greedy Algorithm:

- **Easy**
    1) Assign Cookies - LeetCode
    2) Lemonade Change - LeetCode
    3) Largest Odd Number in String - LeetCode
    4) Height Checker - LeetCode
    5) Maximum Height of a Triangle - LeetCode

- **Medium**
    1) Jump Game II - LeetCode
    2) Jump Game - LeetCode
    3) Gas Station - LeetCode
    4) Non-overlapping Intervals
    5) Minimum Number of Arrows to Burst Balloons
    6) Reorganize String **(Revisit)**
    7) Score After Flipping Matrix
    8) Car Pooling
    9) Maximize Happiness of Selected Children
    10) Car Fleet - LeetCode
    11) Minimum Difference Between Largest and Smallest Value in Three Moves - LeetCode
    12) Average Waiting Time - LeetCode
    13) Maximum Points After Enemy Battles - LeetCode
    14) Minimum Number of Pushes to Type Word II - LeetCode
    15) Time Needed to Rearrange a Binary String - LeetCode **(Revisit)**
    16) Find Valid Matrix Given Row and Column Sums - LeetCode **(Revisit)**
    17) Find the Maximum Length of Valid Subsequence I - LeetCode **(Revisit)**
- **Hard**
    1) Minimum Cost to Hire K Workers **(Revisit)**
    2) Put Marbles in Bags
    3) Find the Maximum Sum of Node Values **(Revisit)**
    4) Patching Array - LeetCode
    5) Candy

=> Prefix Sum:

- **Easy**

- **Medium**
    1) Maximum Product Subarray **(Revisit)**
    2) Product of Array Except Self
    3) Subarray Sum Equals K
    4) Binary Subarrays With Sum
    5) Number of Wonderful Substrings **(Revisit)**
    6) Continuous Subarray Sum - LeetCode **(Revisit)**

7) Subarray Sums Divisible by K - LeetCode
8) Minimum Operations to Make Binary Array Elements Equal to One II

- **Hard**
  1) Minimum Number of K Consecutive Bit Flips - LeetCode **(Revisit)**
  2) Number of Subarrays with AND value of K **(Revisit)**

=> HashMap:

- **Easy**
  1) Isomorphic Strings - LeetCode
  2) Contains Duplicate II - LeetCode
  3) Valid Anagram - LeetCode
  4) Word Pattern - LeetCode
  5) Ransom Note - LeetCode
  6) Find the Town Judge - LeetCode
  7) Unique Number of Occurrences - LeetCode
  8) Find Common Characters - LeetCode

- **Medium**
  1) Group Anagrams - LeetCode **(Revisit)**
  2) Longest Consecutive Sequence - LeetCode
  3) Insert Delete GetRandom O(1)
  4) Find All Duplicates in an Array
  5) Find the Index of the First Occurrence in a String - LeetCode
  6) Employee Importance **(Special)**
- **Hard**

=> Linked List:

- **Easy**
  1) Merge Two Sorted Lists - LeetCode
  2) Remove Duplicates from Sorted List - LeetCode
  3) Linked List Cycle - LeetCode
  4) Intersection of Two Linked Lists - LeetCode
  5) Reverse Linked List - LeetCode
  6) Palindrome Linked List - LeetCode
  7) Middle of the Linked List - LeetCode
- **Medium**
  1) Add Two Numbers - LeetCode
  2) Remove Nth Node From End of List - LeetCode
  3) Swap Nodes in Pairs - LeetCode
  4) Rotate List - LeetCode
  5) Partition List - LeetCode
  6) Reverse Linked List II - LeetCode

7) Copy List with Random Pointer - LeetCode
8) Linked List Cycle II - LeetCode
9) LRU Cache - LeetCode
10) Delete Node in a Linked List
11) Odd Even Linked List
12) 2095. Delete the Middle Node of a Linked List
13) Double a Number Represented as Linked List
14) Find the Minimum and Maximum Number of Nodes Between Critical Points - LeetCode
15) Flatten Nested List Iterator - LeetCode

- **Hard**
  1) Merge k Sorted Lists
  2) Reverse Nodes in k-Group
  3) LFU Cache

=> Binary Tree:

- **Easy**
  1) Binary Tree Inorder Traversal - LeetCode
  2) Binary Tree Preorder Traversal - LeetCode
  3) Binary Tree Postorder Traversal - LeetCode
  4) Same Tree - LeetCode
  5) Symmetric Tree - LeetCode
  6) Balanced Binary Tree - LeetCode
  7) Path Sum - LeetCode
  8) Count Complete Tree Nodes - LeetCode
  9) Invert Binary Tree - LeetCode
  10) Binary Tree Paths - LeetCode
  11) Sum of Left Leaves - LeetCode
  12) Diameter of Binary Tree - LeetCode
  13) Evaluate Boolean Binary Tree - LeetCode

- **Medium**
  1) Binary Tree Level Order Traversal - LeetCode
  2) Binary Tree Zigzag Level Order Traversal - LeetCode
  3) Construct Binary Tree from Preorder and Inorder Traversal - LeetCode
  4) Sum Root to Leaf Numbers - LeetCode
  5) Path Sum II - LeetCode
  6) Flatten Binary Tree to Linked List - LeetCode
  7) Populating Next Right Pointers in Each Node - LeetCode
  8) Populating Next Right Pointers in Each Node II
  9) Binary Tree Right Side View
  10) Lowest Common Ancestor of a Binary Tree
  11) Path Sum III

12) Maximum Width of Binary Tree
13) All Nodes Distance K in Binary Tree
14) 958. Check Completeness of a Binary Tree
15) Distribute Coins in Binary Tree
16) Delete Nodes And Return Forest
17) Delete Leaves With a Given Value
18) Count Good Nodes in Binary Tree
19) Create Binary Tree From Descriptions - LeetCode
20) Number of Good Leaf Nodes Pairs - LeetCode **(Revisit)**
21) Step-By-Step Directions From a Binary Tree Node to Another - LeetCode**(Revisit)**

- **Hard**
  1) Binary Tree Maximum Path Sum
  2) Serialize and Deserialize Binary Tree
  3) Vertical Order Traversal of a Binary Tree
  4) Maximum Sum BST in Binary Tree
  5) Find Duplicate Subtrees - LeetCode **(Revisit)**

=> Binary Search Tree:

- **Easy**
  1) Convert Sorted Array to Binary Search Tree
  2) Two Sum IV - Input is a BST - LeetCode
  3) Search in a Binary Search Tree - LeetCode

- **Medium**
  1) Validate Binary Search Tree - LeetCode
  2) Recover Binary Search Tree - LeetCode
  3) Sum Root to Leaf Numbers - LeetCode
  4) Binary Search Tree Iterator
  5) Kth Smallest Element in a BST
  6) Lowest Common Ancestor of a Binary Search Tree
  7) Delete Node in a BST
  8) Insert into a Binary Search Tree
  9) 1008. Construct Binary Search Tree from preorder traversal
  10) Balance a Binary Search Tree
  11) Binary Search Tree to Greater Sum Tree - LeetCode
- **Hard**

=> Dynamic Programming:

- **Easy**
  1) Climbing Stairs - LeetCode
  2) Fibonacci Number - LeetCode
  3) Min Cost Climbing Stairs - LeetCode

- **Medium**
  1) Unique Paths - LeetCode
  2) Unique Paths II - LeetCode
  3) Minimum Path Sum - LeetCode
  4) Edit Distance - LeetCode
  5) Unique Binary Search Trees - LeetCode **(Revisit)**
  6) Interleaving String - LeetCode
  7) Triangle - LeetCode
  8) Best Time to Buy and Sell Stock II - LeetCode
  9) Word Break - LeetCode
  10) House Robber
  11) House Robber II
  12) Maximal Square
  13) Perfect Squares
  14) Coin Change
  15) Largest Divisible Subset **(Revisit)**
  16) Guess Number Higher or Lower II **(Revisit)**
  17) Combination Sum IV
  18) Partition Equal Subset Sum
  19) Ones and Zeroes
  20) Target Sum **(View a better solution)**
  21) Longest Palindromic Subsequence
  22) Coin Change II
  23) Delete Operation for Two Strings
  24) Best Time to Buy and Sell Stock with Transaction fee
  25) Minimum Falling Path Sum
  26) Minimum Cost For Tickets **(Revisit and code)**
  27) Longest Arithmetic Subsequence **(Revisit)**
  28) Minimum Score Triangulation of Polygon **(Revisit)**
  29) Partition Array for Maximum Sum
  30) Longest String Chain **(Revisit)**
  31) Minimum Cost Tree From Leaf Values
  32) Longest Common Subsequence
  33) Number of Dice Rolls With Target Sum
  34) Longest Arithmetic Subsequence of Given Difference **(Revisit)**
  35) Count Square Submatrices with All Ones
  36) Minimum Sideway Jumps **(Revisit)**
  37) Check if There is a Valid Partition For The Array
  38) Maximize Total Cost of Alternating Subarrays
  39) Longest Increasing Subsequence
  40) Best Time to Buy and Sell Stock with Cooldown
  41) Number of Longest Increasing Subsequence
  42) Path with Maximum Gold

43) Filling Bookcase Shelves - LeetCode **(Revisit)**
44) Find the Maximum Length of Valid Subsequence II - LeetCode **(Revisit)**

- **Hard**
  1) Regular Expression Matching **(Revisit)**
  2) Wildcard Matching
  3) Distinct Subsequences
  4) Best Time to Buy and Sell Stock III
  5) Palindrome Partitioning II
  6) Best Time to Buy and Sell Stock IV
  7) Burst Balloons
  8) Frog Jump **(Revisit)**
  9) Minimum Swaps To Make Sequences Increasing
  10) Super Egg Drop
  11) Shortest Common Supersequence
  12) Minimum Insertion Steps to Make a String Palindrome
  13) Pizza With 3n Slices **(Revisit)**
  14) Reducing Dishes
  15) Cherry Pickup II
  16) Minimum Cost to Cut a Stick
  17) Maximum Height by Stacking Cuboids **(Revisit)**
  18) Student Attendance Record II
  19) Freedom Trail - LeetCode
  20) 1240. Tiling a Rectangle with the Fewest Squares **(Revisit)**
  21) Count the Number of Inversions **(Revisit)**

=> Graph:

- **Easy**
  1) Find Center of Star Graph - LeetCode

- **Medium**
  1) Clone Graph - LeetCode
  2) Maximum Total Importance of Roads - LeetCode
  3) Course Schedule
  4) Course Schedule II
  5) Minimum Height Trees
  6) Evaluate Division
  7) Minimum Genetic Mutation
  8) Number of Provinces
  9) Network Delay Time **(Revisit)**
  10) Is Graph Bipartite?
  11) Cheapest Flights Within K Stops
  12) All Paths From Source to Target
  13) Find Eventual Safe States

14) Keys and Rooms
15) Possible Bipartition
16) Find the City With the Smallest Number of Neighbors at a Threshold Distance
17) Maximal Network Rank
18) Path With Minimum Effort
19) All Ancestors of a Node in a Directed Acyclic Graph - LeetCode
20) Minimum Cost to Convert String I - LeetCode (Floyd Warshall)
21) Number of Ways to Arrive at Destination **(Revisit)**
22) Find the Safest Path in a Grid **(Revisit and understand)**

- **Hard**
  1) Word Ladder II
  2) Word Ladder
  3) Find Minimum Diameter After Merging Two Trees - LeetCode
  4) Build a Matrix With Conditions
  5) K-Similar Strings - LeetCode **(Revisit)**
  6) Second Minimum Time to Reach Destination - LeetCode **(Revisit: Dijkstra's modification)**
  7) Reconstruct Itinerary - LeetCode **(Revisit)**
  8) Critical Connections in a Network **(Revisit)**
  9) Shortest Path Visiting All Nodes - LeetCode **(Revisit)**
  10) Minimum Number of Days to Disconnect Island - LeetCode **(Revisit: Articulation points)**

=> Union Find:

- **Easy**

- **Medium**
  1) Accounts Merge
  2) Most Stones Removed with Same Row or Column
  3) Satisfiability of Equality Equations
  4) Number of Operations to Make Network Connected
  5) Redundant Connection **(Revisit)**
- **Hard**
  1) Making A Large Island
  2) Similar String Groups - LeetCode
  3) Remove Max Number of Edges to Keep Graph Fully Traversable **(Revisit)**
  4) Redundant Connection II - LeetCode **(Revisit and understand the why?)**

=> Geometry:

- **Easy**

- **Medium**

1) Find the Minimum Area to Cover All Ones I

- **Hard**
  1) Find the Minimum Area to Cover All Ones II

=> Segment Tree:

- **Easy**
  1) Range Sum Query - Immutable - LeetCode
- **Medium**
  1) Range Sum Query - Mutable - LeetCode
- **Hard**
  1) Find the Minimum Area to Cover All Ones II

Google questions:

1) https://leetcode.com/discuss/interview-question/4574669/Google-or-Onsite-or-Find-partitions/
2) https://leetcode.com/discuss/interview-question/4964533/Google-Phone-Interview-Question
3) https://leetcode.com/discuss/interview-question/4173795/MAANG-interview-question/
4) https://leetcode.com/discuss/interview-question/4102630/Google-Interview-Question