LearnYard

Activity

📅 Last 7 days

01
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Progress

13%
Total
problems

Easy		9/ 36
Medium		27/ 196
Hard		5/ 81

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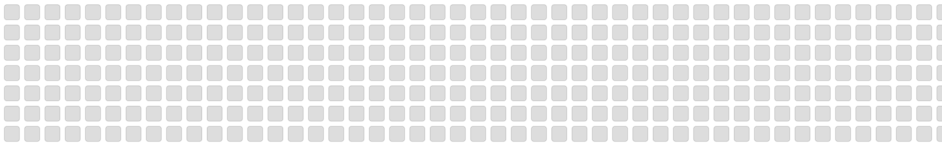
Badges

BRONZE   **SILVER**

Current badge: **None**

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🔍 Search

Sorting

⌄ Bubble Sort / Insertion Sort / Selection Sort

Problem	Difficulty
☐ Bubble Sort	Theory
☐ Insertion Sort Algorithm	Theory
☐ Selection Sort Algorithm	Theory

⌄ Counting Sort / Bucket Sort / Radix Sort / Cyclic Sort

Problem	Difficulty
☐ Counting Sort	Theory
☐ Relative Sort Array	Medium
☐ Radix Sort	Theory
☐ Bucket Sort	Theory
☐ Maximum Gap	Medium
☐ Contains Duplicate III	Hard

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Problem	Difficulty
☐ Custom Sort String	Medium
☐ Largest Number	Medium
☐ Rank Teams by Votes	Medium
☐ First Missing Positive	Hard

⌄ Merge Sort / Quick Sort

Problem	Difficulty
☐ Merge Sort	Theory
☐ Count Inversions	Medium
☐ Count of Smaller Numbers After Self	Hard
☐ Create Sorted Array through Instructions	Hard
☐ Number of Pairs Satisfying Inequality	Hard
☐ Reduce Array Size to The Half	Medium

2 Pointers

⌄ Two Pointer on Arrays

Problem	Difficulty
☐ Sort Array by Parity II	Easy
☐ Partition Array According to Given Pivot	Medium
☐ Rotate Array	Medium
☐ Two Sum	Easy
☐ 3Sum	Medium
☐ Sort Colors	Medium
☐ Next Permutation	Medium

Problem	Difficulty
☐ Reverse Words in a String	Medium
☐ DI String Match	Easy

Prefix Sum

⌄ Prefix Sum

Problem	Difficulty
☐ Range Sum Query - Immutable	Easy
☐ Product of Array Except Self	Medium
☐ Product of the Last K Numbers	Medium
☐ Range Sum Query 2D - Immutable	Medium
☐ Increment Submatrices by One	Medium

⌄ Line Sweep

Problem	Difficulty
☐ Points That Intersect With Cars	Easy
☐ Car Pooling	Medium
☐ My Calendar II	Medium
☐ Number of Flowers in Full Bloom	Hard

Matrix

⌄ Matrix Transformation and Modification

Problem	Difficulty
☐ Set Matrix Zeroes	Medium
☐ Transpose Matrix	Easy
☐ Rotate Image	Medium

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Problem	Difficulty
☐ Diagonal Traverse	Medium
☐ Spiral Matrix	Medium
☐ Valid Sudoku	Medium

Hashing

⌄ Implementary Problems

Problem	Difficulty
☐ Group Anagrams	Medium
☐ Majority Element	Easy
☐ Majority Element II	Medium

⌄ Hashing With Prefix Sum

Problem	Difficulty
☐ Subarray Sum Equals K	Medium
☐ Subarray Sums Divisible by K	Medium
☐ Count Number of Nice Subarrays	Medium
☐ Number of Submatrices That Sum to Target	Hard

Sliding Window

⌄ Fixed Size Sliding-Window

Problem	Difficulty
☑ Maximum Number of Vowels in a Substring of Given Length	Medium
☐ Number of Sub-arrays of Size K and Average Greater than or Equal to Threshold	Medium
☐ Maximum Points You Can Obtain from Cards	Medium

☑ Longest Substring Without Repeating Characters	Medium
☑ Maximum Number of Occurrences of a Substring	Medium
☐ Subarray Product Less Than K	Medium
☐ Number of Subarrays with Bounded Maximum	Medium
☐ Count the Number of Good Subarrays	Medium
☐ Minimum Operations to Reduce X to Zero	Medium
☐ Frequency of the Most Frequent Element	Medium
☐ Subarrays with K Different Integers	Hard

Linked List

˅ Linked List (Part 1)

Problem	Difficulty
☐ Middle of the Linked List	Easy
☐ Linked List Cycle	Easy
☐ Linked List Cycle II	Medium
☐ Reverse Linked List	Easy
☐ Reverse Nodes in k-Group	Hard
☐ Add Two Numbers	Medium
☐ Copy List with Random Pointer	Medium

˅ Linked List (Part 2): Design Pattern

Problem	Difficulty
☐ Design HashMap	Easy
☐ LRU Cache	Medium

☐ LFU Cache   (Hard)

Stack

⌄ Parentheis / Advance Stack Problems

Problem	Difficulty
☐ Longest Valid Parentheses	(Hard)
☐ Min Stack	(Medium)
☐ Maximum Frequency Stack	(Hard)
☐ Insert Intervals	(Medium)
☐ Asteroid Collision	(Medium)

⌄ Monotonic Stack

Problem	Difficulty
☐ Daily Temperatures	(Medium)
☐ Sum of Subarray Minimums	(Medium)
☐ Beautiful Towers II	(Medium)
☐ Trapping Rain Water	(Hard)
☐ Largest Rectangle in Histogram	(Hard)

Queue

⌄ Implementation Problems

Problem	Difficulty
☐ Implement Stack using Queues	(Easy)
☐ Implement Queue using Stacks	(Easy)
☐ Queue using Two Stacks	(Easy)

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	Difficulty
☐ Design Circular Queue	Medium
☐ N-Queue using Array	Hard

⌄ Singly-Ended Queue

Problem	Difficulty
☐ Find the Winner of the Circular Game	Medium
☐ Reveal Cards in Increasing Order	Medium
☐ Stamping the Sequence	Hard

⌄ Doubly-Ended Queue

Problem	Difficulty
☐ Design Circular Deque	Medium
☐ Sliding Window Maximum	Hard

Binary Search

⌄ Upper Bound and Lower Bound

Problem	Difficulty
☐ Find First and Last Position of Element in Sorted Array	Medium

⌄ Search on Matrix

Problem	Difficulty
☐ Search a 2D Matrix	Medium
☐ Median in a Row-wise Sorted Matrix	Hard

⌄ Missing and Repeating Number

Problem	Difficulty
☐ Single Element in a Sorted Array	Medium

⌄ Binary Search on Semi-Sorted Space

Problem	Difficulty
☐ Find Peak Element	Medium

☐ Find Minimum in Rotated Sorted Array	Medium
☐ Peak Index in a Mountain Array	Medium
☐ Search in Rotated Sorted Array	Medium
☐ Find Minimum in Rotated Sorted Array II	Hard

⌄ Binary Search On Answer

Problem	Difficulty
☐ Sqrt(x)	Easy
☐ Capacity to Ship Packages Within D Days	Medium
☐ Koko Eating Bananas	Medium
☐ Minimum Number of Days to Make M Bouquets	Medium
☐ Maximum Value at a Given Index in a Bounded Array	Medium
☐ Split Array Largest Sum	Medium
☐ Median of Two Sorted Arrays	Hard

⌄ Minmax Problems

Problem	Difficulty
☐ Maximum Tastiness of Candy Basket	Medium
☐ Maximize the Minimum Powered City	Hard

⌄ Finding the K-th Element

Problem	Difficulty
☐ Kth Smallest Number in Multiplication Table	Hard
☐ Kth Smallest Product of Two Sorted Arrays	Hard

Bit Manipulation

⌄ Bitwise XOR operator

☐ Single Number III	Medium
☐ Swap Two Numbers (with Temp Variable)	Easy
☐ Maximum XOR Product	Medium
☐ Find Longest Awesome Substring	Hard

˅ Bitwise OR operator

Problem	Difficulty
☐ Shortest Subarray with OR at Least K	Medium

˅ Bitwise AND operator

Problem	Difficulty
☐ Bitwise AND of Numbers Range	Medium

Recursion & Backtracking

˅ Recursion Problems

Problem	Difficulty
☑ Sort a Stack	Medium
☑ Tower of Hanoi	Medium
☑ Integer to English Words	Hard

˅ Permutation Problems

Problem	Difficulty
☑ Permutations	Medium
☑ Beautiful Arrangement	Medium

˅ Combination Problems

Problem	Difficulty
☑ Combinations	Medium
☑ Letter Combinations of a Phone Number	Medium

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☑ Combination Sum II	Medium
☑ N-Queens	Hard

˅ Subsets Problems

Problem	Difficulty
☑ Subsets	Medium
☑ Subsets II	Medium

˅ Path on Grid Problems

Problem	Difficulty
☐ Rat in a Maze Problem	Medium
☐ Sudoku Solver	Hard

Binary Tree

˅ Traversals

Problem	Difficulty
☑ Binary Tree Preorder Traversal	Easy
☑ Preorder, Postorder, Inorder in a Single Traversal	Easy

˅ Properties of trees

Problem	Difficulty
☑ Balanced Binary Tree	Easy
☑ Maximum Depth of Binary Tree	Easy
☑ Diameter of Binary Tree	Easy

˅ Construction of Tree

Problem	Difficulty
☑ Construct Binary Tree from Preorder and Inorder Traversal	Medium
☑ Construct Binary Tree from Preorder and Postorder Traversal	Medium

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Problem	Difficulty
☑ Subtree of Another Tree	Easy

⌄ Level Order Traversal

Problem	Difficulty
☑ Binary Tree Level Order Traversal	Medium
☑ Binary Tree Right Side View	Easy
☐ Top View of Binary Tree	Medium
☑ Vertical Order Traversal of a Binary Tree	Hard
☑ Serialize and Deserialize Binary Tree	Hard
☑ All Nodes Distance K in Binary Tree	Medium
☐ Burning Tree	Hard
☑ Populating Next Right Pointers in Each Node	Medium

⌄ Binary Tree Path

Problem	Difficulty
☐ Path Sum II	Medium
☐ Binary Tree Maximum Path Sum	Hard
☐ Path Sum III	Medium
☐ Lowest Common Ancestor of a Binary Tree	Medium

⌄ N-ary Tree

Problem	Difficulty
☐ N-ary Tree Postorder Traversal	Easy
☐ Maximum Depth of N-ary Tree	Easy

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Problem	Difficulty
☐ Task Scheduler	Medium
☐ Total Cost to Hire K Workers	Medium
☐ Maximum Number of Events That Can Be Attended	Medium
☐ The Skyline Problem	Hard

⌄ Kth Pattern Problems

Problem	Difficulty
☐ Kth Largest Element in a Stream	Easy
☐ K Closest Points to Origin	Medium
☐ Find K Closest Elements	Medium

⌄ Minimize Operations

Problem	Difficulty
☐ The Number of the Smallest Unoccupied Chair	Medium
☐ Minimum Cost to Hire K Workers	Hard

⌄ Merge K Sorted Patterns

Problem	Difficulty
☐ Find K Pairs with Smallest Sums	Hard
☐ Merge K Sorted Arrays	Medium

⌄ Two Heap Pattern

Problem	Difficulty
☐ Find Median from Data Stream	Hard
☐ Meeting Rooms III	Hard

Greedy

⌄ Part I

☐ Jump Game II	Medium
☐ Minimize Maximum of Array	Medium
☐ Minimum Platforms	Medium
☐ Fractional Knapsack	Medium
☐ Job Sequencing Problem	Medium
☐ Non-Overlapping Intervals	Medium
☐ Task Scheduler	Medium
☐ Minimum Swaps to Make Strings Equal	Medium

⌄ Part II

Problem	Difficulty
☐ Patching Array	Hard
☐ Candy	Hard
☐ Gas Station	Medium

Dynamic Programming Level 1

⌄ Linear DP

Problem	Difficulty
☑ Min Cost Climbing Stairs	Easy
☑ House Robber	Medium
☑ Coin Change	Medium
☑ Best Time to Buy and Sell Stock	Easy
☑ Maximum Total Damage With Spell Casting	Medium

⌄ 2 Dimensional DP

- [x] Coin Change II — Medium
- [x] Partition Equal Subset Sum — Medium
- [x] Longest Arithmetic Subsequence — Medium
- [x] Frog Jump — Hard
- [ ] Best Time to Buy and Sell Stock IV — Hard
- [ ] Best Time to Buy and Sell Stock with Transaction Fee — Medium
- [ ] Best Time to Buy and Sell Stock with Cooldown — Medium

⌄ DP On Grid

Problem	Difficulty
☐ Geek's Training	Medium
☐ Unique Paths II	Medium
☐ Minimum Path Sum	Medium
☐ Maximum Difference Score in a Grid	Medium
☐ Cherry Pickup	Hard
☐ Number of Paths with Max Score	Hard
☐ Minimum Falling Path Sum II	Hard

⌄ Knapsack DP

Problem	Difficulty
☑ Knapsack - 1	Medium
☑ Knapsack - 2	Medium
☐ Target Sum	Medium
☐ Shopping Offers	Medium

☐ Last Stone Weight II	Medium
☐ Rod Cutting	Medium
☐ Profitable Schemes	Hard

∨ Longest Increasing Subsequence

Problem	Difficulty
☐ Longest Increasing Subsequence	Medium
☐ Printing Longest Increasing Subsequence	Medium
☐ Number of Longest Increasing Subsequence	Medium
☐ Largest Divisible Subset	Medium
☐ Maximum Height by Stacking Cuboids	Hard

∨ Longest Common Subsequence

Problem	Difficulty
☐ Longest Common Subsequence	Medium
☐ Print all LCS sequences	Hard
☐ Longest Palindromic Subsequence	Medium
☐ Edit Distance	Medium
☐ Wildcard Matching	Hard
☐ Shortest Common Supersequence	Hard
☐ Minimum Insertion Steps to Make a String Palindrome	Hard

∨ DP on String

Problem	Difficulty
☐ Word Break	Medium

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☐ Distinct Subsequences		Hard
☐ Word Break II		Hard

⌄ Cummulative Sum

Problem	Difficulty
☐ Maximal Square	Medium
☐ Count Square Submatrices with All Ones	Medium
☐ Maximal Rectangle	Hard
☐ Number of Submatrices That Sum to Target	Hard

⌄ Matrix Chain Multiplication

Problem	Difficulty
☐ Matrix Chain Multiplication	Hard
☐ Burst Balloons	Hard
☐ Minimum Score Triangulation of Polygon	Medium
☐ Partition Array for Maximum Sum	Medium
☐ Palindrome Partitioning II	Hard
☐ Strange Printer	Hard

⌄ Kadane Algo

Problem	Difficulty
☐ Maximum Subarray	Medium
☐ Maximum Product Subarray	Medium
☐ Maximum Subarray Sum with One Deletion	Medium
☐ Length of Longest Fibonacci Subsequence	Medium

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Problem	Difficulty
☑ Keys and Rooms	Medium
☑ Number of Provinces	Medium
☐ Reorder Routes to Make All Paths Lead to the City Zero	Medium
☐ Round Trip	Medium
☐ Word Ladder	Hard
☐ Valid BFS?	Hard
☐ Minimum Number of Operations to Make X and Y Equal	Medium
☐ Clone Graph	Medium

⌄ Cycle Detection

Problem	Difficulty
☐ Detect Cycle in an Undirected Graph (GeeksforGeeks)	Medium
☐ Detect Cycle in a Directed Graph (GeeksforGeeks)	Medium
☐ Check if a Graph Has a Cycle of Odd Length	Medium
☐ Detect Cycles in 2D Grid	Medium
☐ Shortest Cycle in a Graph	Hard
☐ Is Graph Bipartite?	Medium

⌄ Topological Sort

Problem	Difficulty
☐ Course Schedule II	Medium
☐ Find Eventual Safe States	Medium

☐ Alien Dictionary	Hard
☐ Largest Color Value in a Directed Graph	Hard
☐ Parallel Courses III	Hard

⌄ Flood Fill

Problem	Difficulty
☐ Flood Fill	Easy
☐ Number of Islands	Medium
☐ Count Sub Islands	Medium
☐ Find All Groups of Farmland	Medium

⌄ Multi Source BFS

Problem	Difficulty
☐ Rotting Oranges	Medium
☐ Number of Enclaves	Medium
☐ Surrounded Regions	Medium
☐ Number of Closed Islands	Medium
☐ 01 Matrix	Medium

⌄ Dijsktra Algorithm

Problem	Difficulty
☐ Shortest Route I	Medium
☐ Dijkstra?	Medium
☐ Network Delay Time	Medium
☐ Number of Ways to Arrive at Destination	Medium

☐ Minimum Cost to Make at Least One Valid Path in a Grid	Hard
☐ Shortest Path in Binary Matrix	Medium
☐ Second Minimum Time to Reach Destination	Hard

⌄ Bellman Ford

Problem	Difficulty
☐ High Score	Medium
☐ Bus Routes	Hard

⌄ Floyd Warshall

Problem	Difficulty
☐ Find the City With the Smallest Number of Neighbors at a Threshold Distance	Medium
☐ Minimum Cost to Convert String I	Medium
☐ Number of Possible Sets of Closing Branches	Hard

⌄ Disjoint Set Union

Problem	Difficulty
☐ Accounts Merge	Medium
☐ Find Latest Group of Size M	Medium
☐ GCD Sort of an Array	Hard
☐ Checking Existence of Edge Length Limited Paths	Hard

⌄ Minimum Spanning Tree

Problem	Difficulty
☐ Prim's Minimum Spanning Tree (MST) – Greedy Algorithm	Theory
☐ Kruskal's Minimum Spanning Tree Algorithm – Greedy Algorithm	Theory
☐ Water Connection Problem	Hard

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☐ Find Critical and Pseudo-Critical Edges in Minimum Spanning Tree	Hard

⌄ Additional Graph Algorithm

Problem	Difficulty
☐ Articulation Points (or Cut Vertices) in a Graph	Theory
☐ Strongly Connected Components	Theory
☐ Critical Connections in a Network	Medium

Dynamic Programming Level 2

⌄ DP with Bitmask

Problem	Difficulty
☐ Partition to K Equal Sum Subsets	Medium
☐ Maximum Students Taking Exam	Hard
☐ Little Elephant and T-Shirts	Hard

⌄ DP on Trees

Problem	Difficulty
☐ House Robber III	Medium
☐ Sum of Distances in Tree	Hard
☐ Time Taken to Mark All Nodes	Hard

Advance algorithm

⌄ Tries

Problem	Difficulty
☐ Implement Trie (Prefix Tree)	Medium
☐ Trie Delete	Hard
☐ Design Add and Search Words Data Structure	Medium

☐ Maximum XOR of Two Numbers in an Array	Hard
☐ Word Break	Medium

⌄ String Matching

Problem	Difficulty
☐ KMP Algorithm for Pattern Searching	Theory
☐ Rabin-Karp Algorithm for Pattern Searching	Theory
☐ Z Algorithm (Linear-Time Pattern Searching Algorithm)	Theory
☐ Find Substring with Given Hash Value	Hard
☐ Longest Happy Prefix	Hard

Binary Search Tree

⌄ Basic Operations

Problem	Difficulty
☐ Search in a Binary Search Tree	Easy
☐ Insert into a Binary Search Tree	Medium
☐ Delete Node in a BST	Medium

⌄ Construction of BST

Problem	Difficulty
☐ Convert Sorted Array to Binary Search Tree	Easy
☐ Convert Sorted List to Binary Search Tree	Medium
☐ Convert BST to Greater Tree	Medium
☐ Trim a Binary Search Tree	Medium
☐ Serialize and Deserialize BST	Medium

Construct Binary Search Tree from Preorder Traversal	Medium
Construct BST from Postorder	Medium
Balance a Binary Search Tree	Medium
Binary Search Tree to Greater Sum Tree	Medium

⌄ Validation and Property

Problem	Difficulty
Find Mode in Binary Search Tree	Easy
Range Sum of BST	Easy
Validate Binary Search Tree	Medium
Minimum Distance Between BST Nodes	Easy
Kth Smallest Element in a BST	Medium
Increasing Order Search Tree	Easy
Two Sum IV - Input is a BST	Easy
Maximum Sum BST in Binary Tree	Hard
Find Common Nodes in two BSTs	Medium
All Elements in Two Binary Search Trees	Medium
Unique Binary Search Trees	Medium
Recover Binary Search Tree	Medium
Number of Ways to Reorder Array to Get Same BST	Hard
Binary Search Tree Iterator	Medium

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☐ Lowest Common Ancestor of a Binary Search Tree   (Medium)

☐ Closest Nodes Queries in a Binary Search Tree   (Medium)

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