**ARRAYS & LISTS**

* Two Sum - 1
* Best Time to Buy and Sell Stock - 121
* Contains Duplicate - 217
* Product of Array Except Self - 238
* 3Sum - 15
* Longest Substring Without Repeating Characters - 3

**LINKED STRUCTURES & LINEAR DS**

* Reverse Linked List - 206
* Merge Two Sorted Lists - 21
* Linked List Cycle - 141
* Copy List with Random Pointer - 138
* Valid Parentheses - 20
* Min Stack - 155
* Sliding Window Maximum - 239

**GRAPH TRAVERSALS & SHORTEST-PATH**

* Flood Fill (Grid DFS/BFS) - 200. Number of Islands; 130. Surrounded Regions
* DFS & BFS (General Graph) - 101. Symmetric Tree; 133. Clone Graph; 785. Is Graph Bipartite?
* Topological Sort - 207. Course Schedule; 210. Course Schedule II
* Dijkstra's Algorithm - 743. Network Delay Time; 787. Cheapest Flights Within K Stops
* Bellman-Ford Algorithm - 743. Network Delay Time; 787. Cheapest Flights Within K Stops
* Floyd-Warshall Algorithm - 547. Number of Provinces;
* Shortest Path in a DAG - 329. Longest Increasing Path in a a Matrix; 787.

**TWO-POINTER, SLIDING WINDOW & PREFIX SUM**

* **Two Pointers** - 88. Merge Sorted Array; 167. Two Sum II - Input Array Is Sorted; 15. 3Sum
* **Sliding Window** - 3. Longest Substring Without Repeating Characters; 76. Minimum Window Substring; 209. Minimum Size Subarray Sum
* **Prefix Sum & Difference Array** - 560. Subarray Sum Equals K; 238. Product of Array Except Self; 304. Range Sum Query 2D - Immutable; 370. Range Addition

**BACKTRACKING & DYNAMIC PROGRAMMING**

* **KMP Algorithm** - 28. Find the Index of the First Occurrence in a String; 214. Shortest Palindrome
* **Rabin-Karp Algorithm** - 28. Find the Index of the First Occurrence in a String; 466. Count The Repetitions
* **Manacher's Algorithm** - 5. Longest Palindromic Substring; 132. Palindrome Partitioning II
* **Backtracking** - 51. N-Queens; 79. Word Search; 46. Permutations; 39. Combination Sum
* **Dynamic Programming on Subsets** - 416. Partition Equal Subset Sum; 494. Target Sum; 698. Partition to K Equal Sum Subsets
* **Dynamic Programming on Strings** - 1143. Longest Common Subsequence
* **Dynamic Programming on Grids** - 62. Unique Paths; 63. Unique Paths II; 64. Minimum Path Sum
* **Bitmask + DP** - 698. Partition to K Equal Sum Subsets; 887. Super Egg Drop; 299. Bulls and Cows

**DATA STRUCTURES & CORE TECHNIQUES**

* **Hashing** - 1. Two Sum; 217. Contains Duplicate
* **Heap / Priority Queue** - 23. Merge k Sorted Lists; 215. Kth Largest Element in an Array
* **Union-Find / Disjoint Set Union** - 200. Number of Islands; 547
* **Segment Tree** - 307. Range Sum Query - Mutable
* **Fenwick Tree / Binary Indexed Tree** - 307. Range Sum Query - Mutable
* **Trie** - 208. Implement Trie (Prefix Tree); 212. Word Search II
* **Suffix Array & LCP Array** - 187. Repeated DNA Sequences
* **Bit Manipulation** - 136. Single Number; 190. Reverse Bits

**TREES & GRAPHS**

* Maximum Depth of Binary Tree - 104
* Binary Tree Inorder Traversal - 94
* Validate Binary Search Tree - 98
* Lowest Common Ancestor(BST) - 235
* Number of Islands - 200
* Course Schedule - 207

**ADVANCED PATTERNS**

* Climbing Stairs - 70
* House Robber - 198
* Coin Change - 322
* Longest Increasing Subsequence - 300
* Word Break - 139
* Subsets - 78
* Permutations - 46
* Combination Sum - 39
* Assign Cookies - 455
* Meeting Rooms II - 253
* Top K Frequent Elements - 347

All 25 Algorithms

**SEARCHING**

1. Linear Search.
2. Binary Search.
3. Depth First Search.
4. Breadth First Search.

**SORTING**

1. Insertion Sort.
2. Heap Sort.
3. Selection Sort.
4. Merge Sort.
5. Quick Sort.
6. Counting Sort

**GRAPHS**

1. Kruskal's Algo.
2. Dijkstra's Algo.
3. Bellman Ford Algo.
4. Floyd Warshall Algo.
5. Topological Sort Algo.
6. Flood Fill Algo
7. Lee Algo

**ARRAYS**

1. Kadane's Algo.
2. Floyd's Cycle Detection Algo.
3. KMP Algo.
4. Quick Select Algo.
5. Boyer - More Majority Vote Algo.

**BASICS**

1. Huffman Coding Compression Algo.
2. Euclid's Algo.
3. Union Find Algo

YOUTUBE RESOURCES

* 1. Web Development

<https://www.youtube.com/@CodeWithHarry/playlists>

<https://www.youtube.com/@CleverProgrammer/playlists>

<https://www.youtube.com/@wscubetech/playlists>

2. DSA

<https://www.youtube.com/watch?v=AT14lCXuMKI&list=PLdo5W4Nhv31bbKJzrsKfMpo_grxuLl8LU>

<https://www.youtube.com/watch?v=5_5oE5lgrhw&list=PLu0W_9lII9ahIappRPN0MCAgtOu3lQjQi>