

Introduction

- **Yellow** = Important & Popular
- Prioritize Problems You Struggle At
- Other Resources I Put Together:
 - [Coding Challenge Playbook](#)
 - [Coding Challenge Cheat Sheet](#)

Arrays & Hashing

Easy: 4	Medium: 7	Hard: 2
<ol style="list-style-type: none">1. Contains Duplicate2. Valid Anagram3. Two Sum4. Longest Palindrome	<ol style="list-style-type: none">1. Group Anagrams2. Top K Frequent Elements3. Product of Array Except Self4. Encode & Decode Strings5. Longest Consecutive Sequence6. Subarrays Divisible By K7. Kth Largest Element in an Array	<ol style="list-style-type: none">1. Longest Substring with At Least K Repeating Characters2. First Missing Positive (Cycle Sort)

Two Pointers

Easy	Medium	Hard
<ol style="list-style-type: none">1. Two Sum2. Valid Palindrome3. Merge Sorted Array4. Backspace String Compare5. Palindrome Linked List6. Merge Two Sorted List7. Best Time to Buy & Sell Stock8. Remove Duplicates from Sorted Array9. Remove Duplicates from Sorted List	<ol style="list-style-type: none">1. Longest Substring Without Repeating Characters2. Longest Palindrome Substring3. Container With Most Water4. Remove Duplicates from Sorted List II5. 3Sum6. Interval List Intersections7. Find All Anagrams in a String8. Subarray Product Less Than K9. Minimum Size Subarray Sum10. Remove Nth Node From End of List11. 3Sum Closest12. Add Two Numbers II13. Shortest Unsorted Continuous Subarray14. Longest Repeating Character Replacement15. Sort Colors (Dutch National Flag Problem)	<ol style="list-style-type: none">1. Trapping Rain Water2. Rotate Array3. Minimum Window Substring

Queues

Easy	Medium	Hard
1. Rank Transform of an Array	1. K Closest Points to Origin 2. Kth Largest Element in an Array 3. Task Scheduler 4. Binary Tree Level Order Traversal II	1. Sliding Window Maximum 2. Constrained Subsequence Sum 3. Minimum Cost to Hire K Workers 4. Merge k Sorted Lists 5. Find Median from Data Stream

Stacks

Easy	Medium	Hard
1. Reverse Linked List 2. Valid Parentheses	1. Smallest Subsequence of Unique Characters 2. Min Stack 3. Basic Calculator II 4. Find the Most Competitive Subsequence 5. Reorder List 6. Daily Temperatures 7. Next Greater Element II 8. Asteroid Collision 9. Minimum Remove to Make Valid Parentheses 10. Decode String	1. Longest Valid Parentheses 2. Create Maximum Number 3. Number of Atoms 4. Largest Rectangle in Histogram

Resources

- <https://leetcode.com/tag/monotonic-stack/>

BFS, DFS & Shortest Paths

Easy	Medium	Hard
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<ol style="list-style-type: none"> 1. Subtree of Another Tree (KMP) 2. Same Tree 3. Symmetric Tree 	<ol style="list-style-type: none"> 1. Cheapest Flights Within K Stops 2. Path With Minimum Effort 3. Course Schedule II 4. Implement Trie (Trie) 5. Number of Islands 6. Number of Provinces 7. Populating Next Right Pointers in Each Node 8. Shortest Path in Binary Matrix 9. All Paths From Source To Target 10. Rotten Oranges 11. N-ary Tree Level Order Traversal 12. Time Needed to Inform All Employees 13. Binary Tree Right Side View 14. Most Stones Removed with Same Row or Column 	<ol style="list-style-type: none"> 1. Bus Routes
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Recursion & Backtracking

Easy	Medium	Hard
<ol style="list-style-type: none"> 1. Balanced Binary Tree 2. Invert Binary Tree 3. Diameter of Binary Tree 4. Binary Tree Inorder Traversal 	<ol style="list-style-type: none"> 1. Permutations II 2. Generate Parentheses 3. Path Sum III 4. Kth Smallest Element in a BST 5. Binary Search Tree Iterator 6. Subsets 7. Subsets II 8. Permutations 9. Combination Sum 10. Combination Sum II 11. Letter Combinations of a Phone Number 12. Word Search 13. Linked List in Binary Tree 14. Validate Binary Search Tree 15. Palindrome Partitioning 	<ol style="list-style-type: none"> 1. Word Search II 2. N-Queens

Dynamic Programming

Easy	Medium	Hard
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<ol style="list-style-type: none"> 1. Repeated Substring Pattern 2. Climbing Stairs 	<ol style="list-style-type: none"> 1. Arithmetic Slices 2. Jump Game II 3. House Robber II 4. Longest Increasing Subsequence 5. Number of Longest Increasing Subsequence 6. Partition Equal Subset Sum 7. Maximum Product Subarray 8. Generate Parentheses 9. Maximum Subarray 10. Jump Game 11. House Robber 12. Unique Paths 13. Word Break 14. Longest Common Subsequence 15. Delete Operation for Two Strings 16. Coin Change 17. Integer Break 18. Best Time to Buy and Sell Stock with Cooldown 19. Minimum Path Sum 20. Combination Sum IV 	<ol style="list-style-type: none"> 1. Super Egg Drop 2. Edit Distance 3. Minimum Number of Refueling Stops
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Greedy

Easy	Medium	Hard
<ol style="list-style-type: none"> 1. Lemonade Change 	<ol style="list-style-type: none"> 1. Maximum Subarray 2. Find Valid Matrix Given Row and Column Sums 3. Smallest Range II 4. Valid Parenthesis String 5. Non-overlapping Intervals 6. Increasing Triplet Subsequence 7. Partition Labels 	<ol style="list-style-type: none"> 1. Couples Holding Hands 2. Candy

Intervals

Easy	Medium	Hard
<ol style="list-style-type: none"> 1. Insert Interval 2. Meeting Rooms 	<ol style="list-style-type: none"> 1. Merge Intervals 2. Meeting Rooms II 3. Remove Covered Intervals 	<ol style="list-style-type: none"> 1.

Binary Search

Easy	Medium	Hard
1. Binary Search	1. Find Peak Element 2. Search in Rotated Sorted Array 3. Find Minimum in Rotated Sorted Array 4. Find First and Last Position of Element in Sorted Array 5. Search a 2D Matrix 6. Search a 2D Matrix II 7. My Calendar I 8. Time Based Key Value Store	1. Median of Two Sorted Array 2. Split Array Largest Sum

Linked List

Easy	Medium	Hard
1. Reverse Linked List 2. Merge Two Sorted Lists 3. Intersection of Two Linked List 4. Linked List Cycle	1. Odd Even Linked List 2. Copy List with Random Pointer 3. Linked List Cycle II 4. Swap Nodes in Pairs 5. Reorder List 6. Remove Nth Node From End of List 7. Sort List (Merge Sort)	1. Reverse Nodes in k-Group

Math & Logic

Easy	Medium	Hard
1. Single Number 2. Number of 1 Bits 3. Counting Bits 4. Missing Number	1. Next Greater Element III 2. Subarray Sum Equals K 3. Integer Break 4. Bitwise AND of Numbers Range 5. Set Matrix Zeroes 6. Sum of Two Integers	1. Max Points on a Line

Design

Easy	Medium	Hard
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1. Implement Stack Using Queues 2. Implement Queue Using Stacks 3. Design HashMap	1. LRU Cache 2. Design Add and Search Words Data Structure 3. Design Circular Queue 4. Seat Reservation Manager	1. Dinner Plate Stacks
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Graphs

Easy	Medium	Hard
1.	1. Is Graph Bipartite? 2.	1.

Others

Easy	Medium	Hard
1. Shuffle an Array (Fisher Yates Algorithm) 2. Majority Element (Boyer-Moore Algorithm) 3. Monotonic Array 4. Range Sum Query 2D - Immutable 5. Insert Delete GetRandom O(1) 6. Word Pattern	1.	1.