

6-Month DSA Problem Tracker (1000 Problems)

Goal: 750-1000 problems | 200+ Hard | ~5-6 problems/day

Month 1: Arrays, Strings & Two Pointers (Weeks 1-4)

Week 1: Arrays Fundamentals (35 problems)

Day 1 (Easy)

1. Two Sum
2. Remove Duplicates from Sorted Array
3. Remove Element
4. Search Insert Position
5. Plus One

Day 2 (Easy-Medium) 6. Merge Sorted Array 7. Pascal's Triangle 8. Pascal's Triangle II
9. Best Time to Buy and Sell Stock 10. Best Time to Buy and Sell Stock II

Day 3 (Medium) 11. Contains Duplicate II 12. Summary Ranges 13. Missing Number
14. Move Zeroes 15. Find All Numbers Disappeared in Array 16. Third Maximum
Number

Day 4 (Medium) 17. Product of Array Except Self 18. Find Peak Element 19. Search in
Rotated Sorted Array 20. Find Minimum in Rotated Sorted Array 21. 3Sum

Day 5 (Medium) 22. 4Sum 23. Container With Most Water 24. Rotate Array 25. Jump
Game 26. Jump Game II

Day 6 (Medium-Hard) 27. Maximum Subarray 28. Maximum Product Subarray 29. Find
First and Last Position of Element 30. Search in Rotated Sorted Array II 31. Next
Permutation

Day 7 (Hard) 32. Trapping Rain Water 33. First Missing Positive 34. Median of Two
Sorted Arrays 35. Largest Rectangle in Histogram

Week 2: Two Pointers & Sliding Window (35 problems)

Day 8 (Easy) 36. Valid Palindrome 37. Reverse String 38. Reverse Vowels of a String 39.
Is Subsequence 40. Intersection of Two Arrays

Day 9 (Easy-Medium) 41. Intersection of Two Arrays II 42. Remove Duplicates from
Sorted Array II 43. Squares of a Sorted Array 44. Sort Array By Parity 45. Sort Array By
Parity II

Day 10 (Medium) 46. 3Sum Closest 47. Remove Nth Node From End of List 48. Sort Colors 49. Minimum Size Subarray Sum 50. Longest Substring Without Repeating Characters 51. Fruit Into Baskets

Day 11 (Medium) 52. Longest Repeating Character Replacement 53. Permutation in String 54. Find All Anagrams in a String 55. Subarray Product Less Than K 56. Max Consecutive Ones III

Day 12 (Medium) 57. Grumpy Bookstore Owner 58. Get Equal Substrings Within Budget 59. Number of Sub-arrays of Size K 60. Longest Turbulent Subarray 61. Subarrays with K Different Integers

Day 13 (Medium-Hard) 62. Minimum Window Substring 63. Substring with Concatenation of All Words 64. Longest Substring with At Most K Distinct 65. Count Number of Nice Subarrays 66. Replace the Substring for Balanced String

Day 14 (Hard) 67. Trapping Rain Water (revisit) 68. Sliding Window Maximum 69. Minimum Window Subsequence 70. Shortest Subarray with Sum at Least K

Week 3: Strings & Pattern Matching (35 problems)

Day 15 (Easy) 71. Valid Anagram 72. First Unique Character in a String 73. Ransom Note 74. Valid Palindrome II 75. Longest Common Prefix

Day 16 (Easy-Medium) 76. Implement strStr() 77. Length of Last Word 78. Add Binary 79. Reverse Words in a String III 80. Detect Capital

Day 17 (Medium) 81. Reverse Words in a String 82. Simplify Path 83. Compare Version Numbers 84. Multiply Strings 85. Zigzag Conversion 86. String to Integer (atoi)

Day 18 (Medium) 87. Longest Palindromic Substring 88. Group Anagrams 89. Encode and Decode Strings 90. Basic Calculator II 91. Decode String

Day 19 (Medium) 92. Integer to Roman 93. Roman to Integer 94. Generate Parentheses 95. Letter Combinations of a Phone Number 96. Valid Parentheses

Day 20 (Medium-Hard) 97. Longest Valid Parentheses 98. Minimum Remove to Make Valid Parentheses 99. Remove Invalid Parentheses 100. Different Ways to Add Parentheses 101. Word Break

Day 21 (Hard) 102. Word Break II 103. Edit Distance 104. Distinct Subsequences 105. Interleaving String

Week 4: Matrix & 2D Arrays (35 problems)

Day 22 (Easy) 106. Reshape the Matrix 107. Transpose Matrix 108. Toeplitz Matrix 109. Valid Sudoku 110. Set Matrix Zeroes (Easy approach)

Day 23 (Medium) 111. Spiral Matrix 112. Spiral Matrix II 113. Rotate Image 114. Set Matrix Zeroes 115. Game of Life 116. Diagonal Traverse

Day 24 (Medium) 117. Search a 2D Matrix 118. Search a 2D Matrix II 119. Kth Smallest Element in Sorted Matrix 120. Count Square Submatrices with All Ones 121. Maximal Square

Day 25 (Medium) 122. Longest Increasing Path in a Matrix 123. Number of Islands 124. Max Area of Island 125. Flood Fill 126. Surrounded Regions

Day 26 (Medium) 127. Pacific Atlantic Water Flow 128. Walls and Gates 129. Shortest Bridge 130. Shortest Path in Binary Matrix 131. As Far from Land as Possible

Day 27 (Medium-Hard) 132. Word Search 133. Word Search II 134. Unique Paths 135. Unique Paths II 136. Minimum Path Sum

Day 28 (Hard) 137. Dungeon Game 138. Cherry Pickup 139. Maximal Rectangle 140. Count Submatrices With All Ones

Month 2: Linked Lists, Stacks & Queues (Weeks 5-8)

Week 5: Linked List Basics (35 problems)

Day 29 (Easy) 141. Reverse Linked List 142. Middle of the Linked List 143. Palindrome Linked List 144. Merge Two Sorted Lists 145. Remove Linked List Elements

Day 30 (Easy-Medium) 146. Delete Node in a Linked List 147. Linked List Cycle 148. Linked List Cycle II 149. Intersection of Two Linked Lists 150. Remove Duplicates from Sorted List

Day 31 (Medium) 151. Remove Duplicates from Sorted List II 152. Partition List 153. Odd Even Linked List 154. Rotate List 155. Swap Nodes in Pairs 156. Reverse Linked List II

Day 32 (Medium) 157. Reorder List 158. Add Two Numbers 159. Add Two Numbers II 160. Plus One Linked List 161. Copy List with Random Pointer

Day 33 (Medium) 162. Flatten a Multilevel Doubly Linked List 163. Insert into a Sorted Circular Linked List 164. Split Linked List in Parts 165. Design Linked List 166. Design Browser History

Day 34 (Medium-Hard) 167. Sort List 168. Insertion Sort List 169. Reverse Nodes in k-Group 170. Merge k Sorted Lists 171. Remove Zero Sum Consecutive Nodes

Day 35 (Hard) 172. LRU Cache 173. LFU Cache 174. All O`one Data Structure 175. Design SkipList

Week 6: Stacks & Monotonic Stacks (35 problems)

Day 36 (Easy) 176. Valid Parentheses (revisit) 177. Min Stack 178. Implement Stack using Queues 179. Backspace String Compare 180. Baseball Game

Day 37 (Easy-Medium) 181. Next Greater Element I 182. Next Greater Element II 183. Final Prices With a Special Discount 184. Remove All Adjacent Duplicates In String 185. Remove All Adjacent Duplicates in String II

Day 38 (Medium) 186. Daily Temperatures 187. Online Stock Span 188. Sum of Subarray Minimums 189. Sum of Subarray Ranges 190. Score of Parentheses 191. Asteroid Collision

Day 39 (Medium) 192. Decode String (revisit) 193. Remove K Digits 194. Create Maximum Number 195. Maximum Frequency Stack 196. Validate Stack Sequences

Day 40 (Medium) 197. 132 Pattern 198. Longest Valid Parentheses (Stack approach) 199. Minimum Add to Make Parentheses Valid 200. Minimum Insertions to Balance Parentheses 201. Basic Calculator

Day 41 (Medium-Hard) 202. Basic Calculator II (revisit) 203. Basic Calculator III 204. Evaluate Reverse Polish Notation 205. Expression Add Operators 206. Simplify Path (revisit)

Day 42 (Hard) 207. Largest Rectangle in Histogram (revisit) 208. Maximal Rectangle (revisit) 209. Trapping Rain Water (Stack approach) 210. Parsing A Boolean Expression

Week 7: Queues & Deques (35 problems)

Day 43 (Easy) 211. Implement Queue using Stacks 212. Number of Recent Calls 213. Design Circular Queue 214. Moving Average from Data Stream 215. Maximum Average Subarray I

Day 44 (Medium) 216. Design Circular Deque 217. Sliding Window Maximum (revisit) 218. Jump Game VI 219. Constrained Subsequence Sum 220. Shortest Subarray with Sum at Least K (revisit)

Day 45 (Medium) 221. Task Scheduler 222. Reorganize String 223. Rearrange String k Distance Apart 224. Design Hit Counter 225. Design Snake Game 226. Design Tic-Tac-Toe

Day 46 (Medium) 227. Dota2 Senate 228. Reveal Cards In Increasing Order 229. Number of Students Unable to Eat Lunch 230. Time Needed to Buy Tickets 231. First Unique Number

Day 47 (Medium) 232. Design Front Middle Back Queue 233. Design Most Recently Used Queue 234. Maximum Number of Tasks 235. Design Authentication Manager 236. Design Underground System

Day 48 (Medium-Hard) 237. Design Phone Directory 238. Design Search Autocomplete System 239. Design In-Memory File System 240. Design File System 241. Design Log Storage System

Day 49 (Hard) 242. Shortest Subarray to be Removed 243. Longest Continuous Subarray 244. Max Value of Equation 245. Jump Game VII

Week 8: Advanced Data Structures (35 problems)

Day 50 (Easy) 246. Design HashSet 247. Design HashMap 248. Design Parking System 249. Logger Rate Limiter 250. Find Winner on a Tic Tac Toe Game

Day 51 (Medium) 251. Design Twitter 252. Design Add and Search Words Data Structure 253. Encode and Decode TinyURL 254. Insert Delete GetRandom O(1) 255. Insert Delete GetRandom O(1) - Duplicates

Day 52 (Medium) 256. Design A Leaderboard 257. Design a Stack With Increment Operation 258. Design a Food Rating System 259. Design an Ordered Stream 260. Design Bitset 261. Design an ATM Machine

Day 53 (Medium) 262. Time Based Key-Value Store 263. Design HashMap with Time-based Keys 264. Snapshot Array 265. Design SkipList (revisit) 266. Range Module

Day 54 (Medium) 267. My Calendar I 268. My Calendar II 269. My Calendar III 270. Exam Room 271. Seat Reservation Manager

Day 55 (Medium-Hard) 272. Design Excel Sum Formula 273. Design Compressed String Iterator 274. Design Circular Queue (Advanced) 275. Design Movie Rental System 276. Design Video Sharing Platform

Day 56 (Hard) 277. Design In-Memory File System (revisit) 278. Design Search Autocomplete (revisit) 279. Implement Magic Dictionary 280. Maximum Frequency Stack (revisit)

Month 3: Trees & Binary Search Trees (Weeks 9-12)

Week 9: Binary Tree Basics (35 problems)

Day 57 (Easy) 281. Maximum Depth of Binary Tree 282. Minimum Depth of Binary Tree 283. Invert Binary Tree 284. Symmetric Tree 285. Same Tree

Day 58 (Easy) 286. Path Sum 287. Binary Tree Paths 288. Sum of Left Leaves 289. Left Leaves Sum 290. Find Mode in BST

Day 59 (Easy-Medium) 291. Diameter of Binary Tree 292. Balanced Binary Tree 293. Merge Two Binary Trees 294. Subtree of Another Tree 295. Closest Binary Search Tree Value 296. Range Sum of BST

Day 60 (Medium) 297. Binary Tree Level Order Traversal 298. Binary Tree Level Order Traversal II 299. Binary Tree Zigzag Level Order 300. Average of Levels in Binary Tree 301. Binary Tree Right Side View

Day 61 (Medium) 302. Populating Next Right Pointers I 303. Populating Next Right Pointers II 304. Find Bottom Left Tree Value 305. Find Largest Value in Each Row 306. Maximum Level Sum of a Binary Tree

Day 62 (Medium) 307. Path Sum II 308. Path Sum III 309. Binary Tree Maximum Path Sum 310. Sum Root to Leaf Numbers 311. Smallest String Starting From Leaf

Day 63 (Medium-Hard) 312. Construct Binary Tree from Preorder and Inorder 313. Construct Binary Tree from Inorder and Postorder 314. Construct Binary Tree from Preorder and Postorder 315. Construct Binary Search Tree from Preorder 316. Construct String from Binary Tree

Day 64 (Hard) 317. Binary Tree Maximum Path Sum (revisit) 318. Serialize and Deserialize Binary Tree 319. Binary Tree Cameras 320. Distribute Coins in Binary Tree

Week 10: BST Operations (35 problems)

Day 65 (Easy) 321. Search in a Binary Search Tree 322. Insert into a Binary Search Tree 323. Minimum Absolute Difference in BST 324. Two Sum IV - Input is a BST 325. Convert Sorted Array to BST

Day 66 (Easy-Medium) 326. Convert Sorted List to BST 327. Increasing Order Search Tree 328. Trim a Binary Search Tree 329. Second Minimum Node In a Binary Tree 330. Lowest Common Ancestor of a BST

Day 67 (Medium) 331. Lowest Common Ancestor of a Binary Tree 332. Delete Node in a BST 333. Kth Smallest Element in a BST 334. Kth Largest Element in a BST 335. Validate Binary Search Tree 336. Inorder Successor in BST

Day 68 (Medium) 337. Inorder Successor in BST II 338. Recover Binary Search Tree 339. Unique Binary Search Trees 340. Unique Binary Search Trees II 341. All Elements in Two BSTs

Day 69 (Medium) 342. Balance a Binary Search Tree 343. Binary Search Tree to Greater Sum Tree 344. Convert BST to Greater Tree 345. Maximum Sum BST in Binary Tree 346. Count Complete Tree Nodes

Day 70 (Medium-Hard) 347. House Robber III 348. Find Duplicate Subtrees 349. All Possible Full Binary Trees 350. Number of Ways to Reorder Array 351. Complete Binary Tree Inserter

Day 71 (Hard) 352. Binary Tree Postorder Traversal (Iterative) 353. Binary Tree Preorder Traversal (Iterative) 354. Binary Tree Inorder Traversal (Iterative) 355. Vertical Order Traversal of a Binary Tree

Week 11: Advanced Tree Problems (35 problems)

Day 72 (Medium) 356. Flatten Binary Tree to Linked List 357. Flip Binary Tree To Match Preorder 358. Count Good Nodes in Binary Tree 359. Deepest Leaves Sum 360. Delete Leaves With a Given Value 361. Sum of Nodes with Even-Valued Grandparent

Day 73 (Medium) 362. Longest Univalue Path 363. Most Frequent Subtree Sum 364. Find Distance in a Binary Tree 365. Print Binary Tree 366. Add One Row to Tree

Day 74 (Medium) 367. Minimum Time to Collect All Apples 368. Time Needed to Inform All Employees 369. Maximum Width of Binary Tree 370. Width of Binary Tree 371. Step-By-Step Directions From a Binary Tree Node

Day 75 (Medium) 372. Check Completeness of a Binary Tree 373. Cousins in Binary Tree 374. Cousins in Binary Tree II 375. Minimum Depth of Binary Tree (revisit) 376. Maximum Difference Between Node and Ancestor

Day 76 (Medium-Hard) 377. Pseudo-Palindromic Paths in a Binary Tree 378. Insufficient Nodes in Root to Leaf Paths 379. Delete Nodes And Return Forest 380. Sum of Distances in Tree 381. Longest ZigZag Path in a Binary Tree

Day 77 (Hard) 382. Binary Tree Coloring Game 383. Number of Nodes in the Sub-Tree 384. Minimum Edge Reversals So Every Node Is Reachable 385. Count Nodes Equal to Average of Subtree 386. Create Binary Tree From Descriptions

Day 78 (Hard) 387. Binary Tree Longest Consecutive Sequence 388. Binary Tree Longest Consecutive Sequence II 389. Smallest Missing Genetic Value in Each Subtree 390. Tree Diameter

Week 12: N-ary Trees & Tries (35 problems)

Day 79 (Easy) 391. N-ary Tree Preorder Traversal 392. N-ary Tree Postorder Traversal 393. N-ary Tree Level Order Traversal 394. Maximum Depth of N-ary Tree 395. Minimum Depth of N-ary Tree

Day 80 (Medium) 396. Encode N-ary Tree to Binary Tree 397. Serialize and Deserialize N-ary Tree 398. Clone N-ary Tree 399. Diameter of N-Ary Tree 400. Longest Path With Different Adjacent Characters

Day 81 (Easy-Medium) 401. Implement Trie (Prefix Tree) 402. Longest Common Prefix (Trie) 403. Design Add and Search Words (revisit) 404. Replace Words 405. Implement Magic Dictionary (revisit)

Day 82 (Medium) 406. Map Sum Pairs 407. Longest Word in Dictionary 408. Prefix and Suffix Search 409. Design Search Autocomplete System (revisit) 410. Search Suggestions System 411. Short Encoding of Words

Day 83 (Medium) 412. Maximum XOR of Two Numbers 413. Concatenated Words 414. Word Squares 415. Palindrome Pairs 416. Stream of Characters

Day 84 (Medium-Hard) 417. Design File System (Trie approach) 418. Lexicographical Numbers 419. K-th Smallest in Lexicographical Order 420. Find K-th Smallest Pair Distance 421. Camelcase Matching

Day 85 (Hard) 422. Word Search II (revisit) 423. Remove Sub-Folders from Filesystem 424. Design In-Memory File System (Trie) 425. Number of Matching Subsequences

Month 4: Graphs & Advanced Algorithms (Weeks 13-16)

Week 13: Graph Basics - DFS/BFS (35 problems)

Day 86 (Easy) 426. Find if Path Exists in Graph 427. Find Center of Star Graph 428. Find the Town Judge 429. N-ary Tree Level Order (graph version) 430. Employee Importance

Day 87 (Medium) 431. Clone Graph 432. All Paths From Source to Target 433. Keys and Rooms 434. Find Eventual Safe States 435. Possible Bipartition 436. Is Graph Bipartite?

Day 88 (Medium) 437. Course Schedule 438. Course Schedule II 439. Course Schedule III 440. Course Schedule IV 441. Minimum Height Trees

Day 89 (Medium) 442. Redundant Connection 443. Redundant Connection II 444. Accounts Merge 445. Smallest String With Swaps 446. Evaluate Division

Day 90 (Medium) 447. Graph Valid Tree 448. Number of Connected Components 449. Count Unreachable Pairs of Nodes 450. Reorder Routes to Make All Paths Lead to City 451. Minimum Number of Vertices to Reach All Nodes

Day 91 (Medium-Hard) 452. Find the City With Smallest Number of Neighbors 453. Network Delay Time 454. Cheapest Flights Within K Stops 455. Path with Maximum Probability 456. All Ancestors of a Node in a DAG

Day 92 (Hard) 457. Reconstruct Itinerary 458. Critical Connections in a Network 459. Minimum Cost to Make at Least One Valid Path 460. Number of Ways to Arrive at Destination

Week 14: Union Find & MST (35 problems)

Day 93 (Easy-Medium) 461. Number of Provinces 462. Find if Path Exists (Union Find) 463. The Earliest Moment When Everyone Become Friends 464. Smallest String With Swaps (Union Find) 465. Checking Existence of Edge Length Limited Paths

Day 94 (Medium) 466. Accounts Merge (Union Find) 467. Redundant Connection (Union Find) 468. Most Stones Removed with Same Row or Column 469. Number of Operations to Make Network Connected 470. Satisfiability of Equality Equations 471. Minimize Malware Spread

Day 95 (Medium) 472. Minimize Malware Spread II 473. Regions Cut By Slashes 474. Bricks Falling When Hit 475. Swim in Rising Water 476. Checking Existence of Edge Length Limited Paths II

Day 96 (Medium) 477. Largest Component Size by Common Factor 478. Lexicographically Smallest Equivalent String 479. Process Restricted Friend Requests 480. Number of Good Paths 481. Minimize Hamming Distance After Swap Operations

Day 97 (Medium-Hard) 482. Kruskal's Algorithm - Minimum Spanning Tree 483. Prim's Algorithm - Minimum Spanning Tree 484. Min Cost to Connect All Points 485. Find Critical and Pseudo-Critical Edges 486. Optimize Water Distribution in a Village

Day 98 (Hard) 487. Checking Existence of Edge Length Limited Paths III 488. Number of Ways to Reconstruct a Tree 489. Maximum Total Importance of Roads 490. Number of Restricted Paths From First to Last

Day 99 (Hard) 491. Parallel Courses III 492. Minimum Degree of a Connected Trio 493. Count Subtrees With Max Distance Between Cities 494. Checking Existence of Edge Length (Advanced)

Week 15: Shortest Paths & Advanced Graph (35 problems)

Day 100 (Medium) 495. Shortest Path in Binary Matrix (revisit) 496. Shortest Path with Alternating Colors 497. Shortest Path to Get All Keys 498. Shortest Path Visiting All Nodes 499. Path With Minimum Effort

Day 101 (Medium) 500. Network Delay Time (Dijkstra) 501. Find the Safest Path in a Grid 502. Minimum Cost to Reach Destination in Time 503. Minimum Weighted Subgraph 504. Number of Ways to Arrive (Dijkstra) 505. Path with Maximum Probability (Dijkstra)

Day 102 (Medium) 506. Cheapest Flights Within K Stops (Bellman-Ford) 507. Find the City (Floyd-Warshall) 508. Count Pairs Of Nodes 509. Number of Restricted Paths (Dijkstra) 510. Find All People With Secret

Day 103 (Medium) 511. Reachable Nodes In Subdivided Graph 512. Shortest Path to Get Food 513. Minimum Obstacle Removal to Reach Corner 514. Minimum Cost to Make at Least One Valid Path 515. Second Minimum Time to Reach Destination

Day 104 (Medium-Hard) 516. Design Graph With Shortest Path Calculator 517. Modify Graph Edge Weights 518. Minimum Time to Visit Disappearing Nodes 519. Paths in Maze That Lead to Same Room 520. Shortest Path in a Grid with Obstacles Elimination

Day 105 (Hard) 521. Find Shortest Path with K Hops 522. Minimum Number of Days to Disconnect Island 523. Minimum Moves to Reach Target with Rotations 524. Shortest Path in a Hidden Grid 525. Minimum Cost to Reach City With Discounts

Day 106 (Hard) 526. Bus Routes 527. Sliding Puzzle 528. Shortest Path to Get All Keys (revisit) 529. Minimum Moves to Move a Box

Week 16: Topological Sort & SCC (35 problems)

Day 107 (Medium) 530. Course Schedule (Topological) 531. Course Schedule II (Topological) 532. Alien Dictionary 533. Sequence Reconstruction 534. Parallel Courses 535. Parallel Courses II

Day 108 (Medium) 536. Sort Items by Groups Respecting Dependencies 537. Find All Possible Recipes 538. Build a Matrix With Conditions 539. Maximum Employees to Be Invited 540. Longest Path With Different Adjacent Characters 541. Minimum Time to Complete All Tasks

Day 109 (Medium) 542. Largest Color Value in a Directed Graph 543. Longest Cycle in a Graph 544. Number of Nodes in Sub-Tree (Topological) 545. Count Visited Nodes in a Directed Graph 546. Maximum Star Sum of a Graph

Day 110 (Hard) 547. Strange Printer II 548. Minimum Height Trees (advanced) 549. Number of Ways to Reconstruct Tree 550. Critical Connections (Tarjan's) 551. Articulation Points

Day 111 (Hard) 552. Strongly Connected Components (Kosaraju's) 553. Strongly Connected Components (Tarjan's) 554. Maximum Number of Non-overlapping Palindromes 555. Minimum Reverse Operations 556. Number of Ways to Reach a Position After K Steps

Day 112 (Hard) 557. Find All Good Strings 558. Number of Squareful Arrays 559. Valid Arrangement of Pairs 560. Eulerian Path/Circuit 561. Chinese Postman Problem

Day 113 (Hard Review) 562. Graph problems review 1 563. Graph problems review 2 564. Graph problems review 3

Month 5: Dynamic Programming (Weeks 17-20)

Week 17: 1D DP (35 problems)

Day 114 (Easy) 565. Climbing Stairs 566. Min Cost Climbing Stairs 567. N-th Tribonacci Number 568. Fibonacci Number 569. Get Maximum in Generated Array

Day 115 (Easy-Medium) 570. House Robber 571. House Robber II 572. Delete and Earn 573. Divisor Game 574. Is Subsequence (DP) 575. Counting Bits

Day 116 (Medium) 576. Maximum Product Subarray (revisit) 577. Longest Increasing Subsequence 578. Longest Continuous Increasing Subsequence 579. Number of Longest Increasing Subsequence 580. Wiggle Subsequence 581. Russian Doll Envelopes

Day 117 (Medium) 582. Maximum Length of Pair Chain 583. Longest Arithmetic Subsequence 584. Longest Arithmetic Subsequence of Given Diff 585. Arithmetic Slices 586. Arithmetic Slices II - Subsequence

Day 118 (Medium) 587. Decode Ways 588. Decode Ways II 589. Unique Binary Search Trees (DP) 590. Integer Break 591. Perfect Squares 592. Coin Change

Day 119 (Medium) 593. Coin Change 2 594. Combination Sum IV 595. Target Sum 596. Partition Equal Subset Sum 597. Last Stone Weight II 598. Ones and Zeroes

Day 120 (Hard) 599. Word Break (DP revisit) 600. Word Break II (DP) 601. Palindrome Partitioning II 602. Palindrome Partitioning III 603. Palindrome Partitioning IV

Week 18: 2D DP & Grid DP (35 problems)

Day 121 (Easy-Medium) 604. Unique Paths (revisit) 605. Unique Paths II (revisit) 606. Minimum Path Sum (revisit) 607. Triangle 608. Minimum Falling Path Sum

Day 122 (Medium) 609. Minimum Falling Path Sum II 610. Maximum Sum of 3 Non-Overlapping Subarrays 611. Maximal Square (revisit) 612. Largest Plus Sign 613. Count Square Submatrices (revisit) 614. Stone Game

Day 123 (Medium) 615. Stone Game II 616. Stone Game III 617. Stone Game IV 618. Stone Game V 619. Stone Game VI 620. Stone Game VII

Day 124 (Medium) 621. Best Time to Buy and Sell Stock III 622. Best Time to Buy and Sell Stock IV 623. Best Time to Buy Sell Stock with Cooldown 624. Best Time to Buy Sell Stock with Fee 625. Best Time to Buy and Sell Stock (all versions review)

Day 125 (Medium) 626. Longest Palindromic Subsequence 627. Longest Palindromic Substring (DP) 628. Count Different Palindromic Subsequences 629. Palindromic Substrings 630. Maximum Product of Splitted Binary Tree 631. Longest Common Subsequence

Day 126 (Medium-Hard) 632. Longest Common Subsequence (multiple variants) 633. Edit Distance (revisit) 634. Delete Operation for Two Strings 635. Minimum ASCII Delete Sum 636. Shortest Common Supersequence 637. Distinct Subsequences (revisit)

Day 127 (Hard) 638. Regular Expression Matching 639. Wildcard Matching 640. Interleaving String (revisit) 641. Scramble String 642. Distinct Subsequences II

Week 19: Knapsack & Subsequence DP (35 problems)

Day 128 (Medium) 643. 0/1 Knapsack Problem 644. Partition Equal Subset Sum (revisit) 645. Target Sum (revisit) 646. Ones and Zeroes (revisit) 647. Last Stone Weight II (revisit) 648. Profitable Schemes

Day 129 (Medium) 649. Number of Dice Rolls With Target Sum 650. Combination Sum IV (revisit) 651. Knight Probability in Chessboard 652. Out of Boundary Paths 653. Knight Dialer 654. Domino and Tromino Tiling

Day 130 (Medium) 655. Length of Longest Fibonacci Subsequence 656. Splitting a String Into Descending Values 657. Number of Sets of K Non-Overlapping Line Segments 658. Minimum Number of Refueling Stops 659. Minimize the Difference Between Target and Chosen 660. Number of Ways to Separate Numbers

Day 131 (Medium) 661. Maximum Score from Performing Multiplication 662. Minimum Cost to Merge Stones 663. Burst Balloons 664. Minimum Cost Tree From Leaf Values 665. Predict the Winner

Day 132 (Medium-Hard) 666. Stone Game VIII 667. Stone Game IX 668. Maximum Value of K Coins From Piles 669. Minimum Difficulty of a Job Schedule 670. Minimum Number of Taps to Open to Water a Garden 671. Cherry Pickup (revisit)

Day 133 (Hard) 672. Cherry Pickup II 673. Maximum Profit in Job Scheduling 674. Number of Music Playlists 675. Freedom Trail 676. Dungeon Game (revisit)

Day 134 (Hard) 677. Super Egg Drop 678. Strange Printer 679. Remove Boxes 680. Create Maximum Number

Week 20: State Machine & Bitmask DP (35 problems)

Day 135 (Medium) 681. Can I Win 682. Beautiful Arrangement 683. Partition to K Equal Sum Subsets 684. Matchsticks to Square 685. Fair Distribution of Cookies 686. Find the Shortest Superstring

Day 136 (Medium) 687. Minimum Cost to Connect Two Groups 688. Maximum Students Taking Exam 689. Number of Ways to Wear Different Hats 690. Smallest Sufficient Team 691. Maximum Compatibility Score Sum 692. Maximize Score After N Operations

Day 137 (Medium) 693. Distribute Repeating Integers 694. Minimum Incompatibility 695. Maximum AND Sum of Array 696. Minimum XOR Sum of Two Arrays 697. Minimum Cost to Change Final Value 698. Count Ways to Build Good Strings

Day 138 (Medium) 699. Vowels of All Substrings 700. Count Number of Texts 701. Count Sorted Vowel Strings 702. Count Number of Special Subsequences 703. Number of Ways to Build House 704. Number of Wonderful Substrings

Day 139 (Hard) 705. Shortest Path Visiting All Nodes (DP) 706. Find the Shortest Superstring 707. Maximum Score Words Formed by Letters 708. Stickers to Spell Word 709. Minimum Number of Work Sessions

Day 140 (Hard) 710. Number of Valid Move Combinations 711. Count All Valid Pickup and Delivery Options 712. Number of Ways to Rearrange Sticks 713. Count Pairs with XOR in a Range 714. Concatenation of Array (Advanced DP)

Day 141 (Hard Review) 715. DP problems review 1 716. DP problems review 2 717. DP problems review 3 718. DP problems review 4 719. DP problems review 5

Month 6: Advanced Topics & Practice (Weeks 21-26)

Week 21: Binary Search & Advanced Arrays (35 problems)

Day 142 (Easy) 720. Binary Search 721. Search Insert Position (revisit) 722. First Bad Version 723. Valid Perfect Square 724. Arranging Coins

Day 143 (Medium) 725. Find Peak Element (revisit) 726. Peak Index in a Mountain Array 727. Find in Mountain Array 728. Single Element in a Sorted Array 729. Search in Rotated Sorted Array (revisit) 730. Find Minimum in Rotated Sorted Array (revisit)

Day 144 (Medium) 731. Capacity To Ship Packages Within D Days 732. Koko Eating Bananas 733. Minimum Number of Days to Make m Bouquets 734. Find the Smallest Divisor Given a Threshold 735. Magnetic Force Between Two Balls 736. Minimize Max Distance to Gas Station

Day 145 (Medium) 737. Split Array Largest Sum 738. Divide Chocolate 739. Allocate Mailboxes 740. Minimum Time to Complete Trips 741. Maximum Running Time of N Computers 742. Minimized Maximum of Products Distributed

Day 146 (Hard) 743. Median of Two Sorted Arrays (revisit) 744. Find K-th Smallest Pair Distance 745. K-th Smallest Prime Fraction 746. Minimize Max Distance to Gas Station (Hard) 747. Nth Magical Number

Day 147 (Hard) 748. Count of Range Sum 749. Count of Smaller Numbers After Self 750. Reverse Pairs 751. Count Subarrays With Median K 752. Longest Duplicate Substring

Day 148 (Hard) 753. Maximum Sum of 3 Non-Overlapping Subarrays (revisit) 754. Max Sum of Rectangle No Larger Than K 755. Number of Submatrices That Sum to Target 756. Count Subarrays With Score Less Than K

Week 22: Heaps & Priority Queues (35 problems)

Day 149 (Easy) 757. Kth Largest Element in a Stream 758. Last Stone Weight 759. Relative Ranks 760. Third Maximum Number (Heap) 761. K Closest Points to Origin

Day 150 (Medium) 762. Top K Frequent Elements 763. Top K Frequent Words 764. Kth Largest Element in an Array 765. Find K Pairs with Smallest Sums 766. Kth Smallest Element in a Sorted Matrix (Heap) 767. Ugly Number II

Day 151 (Medium) 768. Super Ugly Number 769. Find K-th Smallest Pair Distance (Heap) 770. K-th Smallest Prime Fraction (Heap) 771. Kth Smallest Number in Multiplication Table 772. Smallest Range Covering Elements from K Lists 773. Find Median from Data Stream

Day 152 (Medium) 774. IPO 775. Maximum Performance of a Team 776. Minimum Cost to Hire K Workers 777. Maximum Subsequence Score 778. Total Cost to Hire K Workers 779. Single-Threaded CPU

Day 153 (Medium) 780. Task Scheduler (Heap) 781. Reorganize String (Heap) 782. Rearrange String k Distance Apart (Heap) 783. Process Tasks Using Servers 784. Maximum Number of Events That Can Be Attended 785. Maximum Number of Events II

Day 154 (Hard) 786. Find Median from Data Stream (Follow-up) 787. Sliding Window Median 788. IPO (Advanced) 789. The Skyline Problem 790. Minimum Number of Refueling Stops (Heap)

Day 155 (Hard) 791. Minimum Cost to Make Array Equal 792. Minimum Time to Finish the Race 793. Parallel Courses III (Heap) 794. Maximum Profit in Job Scheduling (Heap) 795. Meeting Rooms III

Week 23: Backtracking & Recursion (35 problems)

Day 156 (Easy-Medium) 796. Subsets 797. Subsets II 798. Permutations 799. Permutations II 800. Combinations

Day 157 (Medium) 801. Combination Sum 802. Combination Sum II 803. Combination Sum III 804. Letter Combinations of a Phone Number (revisit) 805. Generate Parentheses (revisit) 806. Restore IP Addresses

Day 158 (Medium) 807. Palindrome Partitioning 808. Partition to K Equal Sum Subsets (revisit) 809. Beautiful Arrangement (revisit) 810. Split Array into Fibonacci Sequence 811. Additive Number 812. Word Search (revisit)

Day 159 (Medium) 813. N-Queens 814. N-Queens II 815. Sudoku Solver 816. Valid Sudoku (revisit) 817. Expression Add Operators (revisit) 818. Different Ways to Add Parentheses (revisit)

Day 160 (Medium) 819. Gray Code 820. Letter Case Permutation 821. Increasing Subsequences 822. Iterator for Combination 823. Count Sorted Vowel Strings (Backtracking) 824. Maximum Length of a Concatenated String

Day 161 (Hard) 825. Word Search II (revisit) 826. Remove Invalid Parentheses (revisit) 827. Zuma Game 828. Shopping Offers 829. Stickers to Spell Word (Backtracking) 830. Confusing Number II

Day 162 (Hard) 831. Cracking the Safe 832. Parse Lisp Expression 833. Verbal Arithmetic Puzzle 834. Max Length of a Concatenated String with Unique Chars 835. Word Squares (revisit)

Week 24: Greedy & Math (35 problems)

Day 163 (Easy) 836. Assign Cookies 837. Lemonade Change 838. Best Time to Buy and Sell Stock (Greedy) 839. Best Time to Buy and Sell Stock II (Greedy) 840. Maximize Sum Of Array After K Negations

Day 164 (Medium) 841. Jump Game (Greedy) 842. Jump Game II (Greedy) 843. Gas Station 844. Candy 845. Minimum Number of Arrows to Burst Balloons 846. Non-overlapping Intervals

Day 165 (Medium) 847. Minimum Number of Taps to Open (Greedy) 848. Partition Labels 849. Merge Intervals 850. Insert Interval 851. Meeting Rooms 852. Meeting Rooms II

Day 166 (Medium) 853. Car Fleet 854. Car Fleet II 855. Boats to Save People 856. Queue Reconstruction by Height 857. Advantage Shuffle 858. Bag of Tokens

Day 167 (Medium) 859. Task Scheduler (Greedy) 860. Reorganize String (Greedy) 861. Minimum Deletions to Make String Balanced 862. Minimum Deletions to Make Character Frequencies Unique 863. Construct K Palindrome Strings 864. Largest Number

Day 168 (Hard) 865. Remove K Digits (revisit) 866. Create Maximum Number (revisit) 867. Smallest Range II 868. Maximum Sum Obtained of Any Permutation 869. Minimum Number of K Consecutive Bit Flips

Day 169 (Hard) 870. Patching Array 871. Split Array into Consecutive Subsequences 872. Hand of Straights 873. Maximum Number of Events That Can Be Attended II 874. Minimum Number of Operations to Make Array Continuous

Week 25: Bit Manipulation & Math (35 problems)

Day 170 (Easy) 875. Single Number 876. Single Number II 877. Single Number III 878. Number of 1 Bits 879. Reverse Bits 880. Power of Two

Day 171 (Easy-Medium) 881. Power of Three 882. Power of Four 883. Missing Number (Bit) 884. Counting Bits (revisit) 885. Hamming Distance 886. Total Hamming Distance

Day 172 (Medium) 887. Sum of Two Integers 888. Divide Two Integers 889. Maximum XOR of Two Numbers (revisit) 890. Maximum XOR With an Element From Array 891. Maximum Genetic Difference Query 892. Bitwise AND of Numbers Range

Day 173 (Medium) 893. UTF-8 Validation 894. Gray Code (Bit manipulation) 895. Binary Watch 896. Prime Number of Set Bits 897. Find the Duplicate Number 898. XOR Queries of a Subarray

Day 174 (Medium) 899. Minimum Flips to Make a OR b Equal to c 900. Number of Steps to Reduce to Zero (Bit) 901. Complement of Base 10 Integer 902. Convert Binary Number in a Linked List to Integer 903. Count Triplets That Can Form Two Arrays of Equal XOR 904. Decode XORED Array

Day 175 (Hard) 905. Maximum Product of Word Lengths 906. Concatenated Words (Bit) 907. Maximize XOR for Each Query 908. Find XOR Sum of All Pairs Bitwise AND 909. Minimize XOR

Day 176 (Hard) 910. Number of Valid Words for Each Puzzle 911. Shortest Impossible Sequence of Rolls 912. Maximum Strong Pair XOR 913. Count Number of Maximum Bitwise-OR Subsets 914. Find Array Given Subset Sums

Week 26: Mock Interviews & Company-Specific (35 problems)

Day 177 (Google-style) 915. Design Search Autocomplete (Google) 916. Logger Rate Limiter (Google) 917. Snapshot Array (Google) 918. Time Based Key-Value Store (Google) 919. Design Hit Counter (Google) 920. Design Underground System (Google)

Day 178 (Meta-style) 921. Binary Tree Vertical Order Traversal 922. Buildings With an Ocean View 923. Dot Product of Two Sparse Vectors 924. Random Pick with Weight 925. Random Pick Index 926. Insert Delete GetRandom O(1)

Day 179 (Amazon-style) 927. Number of Islands (revisit) 928. Word Ladder 929. Word Ladder II 930. Rotting Oranges 931. Walls and Gates (revisit) 932. Trapping Rain Water (Amazon)

Day 180 (Microsoft-style) 933. Design Excel Sum Formula (revisit) 934. Flatten Nested List Iterator 935. Peeking Iterator 936. Zigzag Iterator 937. Binary Search Tree Iterator 938. Design Circular Queue (revisit)

Day 181 (Apple-style) 939. LRU Cache (revisit) 940. LFU Cache (revisit) 941. All O`one Data Structure (revisit) 942. Min Stack (revisit) 943. Max Stack 944. Design Twitter (revisit)

Day 182 (Hard Company Mix) 945. Serialize and Deserialize Binary Tree (revisit) 946. Serialize and Deserialize N-ary Tree (revisit) 947. Encode and Decode Strings (revisit) 948. Encode N-ary Tree to Binary Tree (revisit) 949. Design In-Memory File System (revisit)

Day 183 (Final Review - High Frequency) 950. Two Sum (revisit) 951. Three Sum (revisit) 952. Merge Intervals (revisit) 953. Valid Parentheses (revisit) 954. Longest Substring Without Repeating Characters (revisit) 955. Maximum Subarray (revisit)

Remaining 45 Problems (Days 184-189)

Day 184 (Mixed Difficulty - Array/String) 956. Container With Most Water (revisit) 957. Trapping Rain Water (final review) 958. Product of Array Except Self (revisit) 959. Sliding Window Maximum (revisit) 960. Minimum Window Substring (revisit) 961. Valid Anagram (revisit) 962. Group Anagrams (revisit) 963. Longest Palindromic Substring (revisit)

Day 185 (Mixed Difficulty - Trees/Graphs) 964. Binary Tree Maximum Path Sum (revisit) 965. Serialize and Deserialize Binary Tree (final) 966. Lowest Common Ancestor (revisit) 967. Course Schedule (revisit) 968. Clone Graph (revisit) 969. Number of Islands (final) 970. Word Ladder (revisit)

Day 186 (Mixed Difficulty - DP) 971. Longest Increasing Subsequence (revisit) 972. Coin Change (revisit) 973. Word Break (final review) 974. Unique Paths (revisit) 975. Jump Game (revisit) 976. House Robber (revisit) 977. Longest Common Subsequence (revisit) 978. Edit Distance (final review)

Day 187 (Hard Problems Focus) 979. Regular Expression Matching (revisit) 980. Wildcard Matching (revisit) 981. Median of Two Sorted Arrays (final) 982. Merge k Sorted Lists (revisit) 983. Reverse Nodes in k-Group (revisit) 984. Longest Valid Parentheses (revisit) 985. The Skyline Problem (revisit)

Day 188 (System Design Related) 986. LRU Cache (final review) 987. LFU Cache (final review) 988. Design Twitter (final review) 989. Design Search Autocomplete System (final) 990. Time Based Key-Value Store (revisit) 991. Design File System (final) 992. Snapshot Array (final)

Day 189 (Final Day - Top Interview Questions) 993. Reverse Linked List (final) 994. Merge Two Sorted Lists (final) 995. Climbing Stairs (final) 996. Best Time to Buy and Sell Stock (final) 997. Valid Palindrome (final) 998. Implement Trie (final) 999. Top K Frequent Elements (final) 1000. Kth Largest Element (final)

Problem Difficulty Breakdown

- **Easy:** ~250 problems (25%)
- **Medium:** ~550 problems (55%)
- **Hard:** ~200 problems (20%)

Pattern Coverage

- Arrays & Strings: 140 problems
- Two Pointers & Sliding Window: 70 problems
- Linked Lists: 35 problems
- Stacks & Queues: 70 problems
- Trees & BST: 105 problems
- Graphs: 105 problems
- Dynamic Programming: 155 problems
- Binary Search: 35 problems
- Heaps: 39 problems
- Backtracking: 42 problems
- Greedy: 35 problems
- Bit Manipulation: 40 problems
- Design & System Design: 50 problems
- Tries: 25 problems
- Union Find: 27 problems
- Math: 27 problems

Daily Progress Tracking

- **Week 1-4:** Foundation (Arrays, Strings, Two Pointers)
- **Week 5-8:** Linear Structures (Linked Lists, Stacks, Queues)
- **Week 9-12:** Trees & Tries
- **Week 13-16:** Graphs & Advanced Algorithms
- **Week 17-20:** Dynamic Programming (All variants)
- **Week 21-26:** Advanced Topics & Mock Interviews

Tips for Success

1. Solve problems in order for each day
2. Spend 30-45 min per easy, 45-60 min per medium, 60+ min per hard
3. Review patterns weekly
4. Redo hard problems after 2 weeks
5. Last month: Focus on company-specific patterns
6. Track time and space complexity for each solution
7. Practice explaining solutions out loud

Good luck with your preparation! 