Top 150 DSA Questions for Frontend

Master Data Structures & Algorithms for Frontend Interviews

by Geeky Frontend

50
Easy Problems

70
Medium Problems

30
Hard Problems

EASY Foundation Problems (1-50)

1.	Two Sum	Amazon	Solve
20.	Valid Parentheses	Meta	Solve
21.	Merge Two Sorted Lists	Microsoft	Solve
26.	Remove Duplicates from Sorted Array	Google	Solve
27.	Remove Element	Apple	Solve
66.	Plus One	Adobe	Solve
70.	Climbing Stairs	LinkedIn	Solve
88.	Merge Sorted Array	Bloomberg	Solve
100.	Same Tree	Amazon	Solve
104.	Maximum Depth of Binary Tree	Uber	Solve
110.	Balanced Binary Tree	Google	Solve
121.	Best Time to Buy and Sell Stock	Goldman Sachs	Solve
125.	Valid Palindrome	Facebook	Solve
136.	Single Number	Airbnb	Solve
141.	Linked List Cycle	PayPal	Solve
155.	Min Stack	Snapchat	Solve

160.	Intersection of Two Linked Lists	Microsoft	Solve
169.	Majority Element	Yahoo	Solve
190.	Reverse Bits	Apple	Solve
191.	Number of 1 Bits	Oracle	Solve
202.	Happy Number	Twitter	Solve
206.	Reverse Linked List	Amazon	Solve
217.	Contains Duplicate	Palantir	Solve
226.	Invert Binary Tree	Google	Solve
234.	Palindrome Linked List	Facebook	Solve
235.	Lowest Common Ancestor of a Binary Search Tree	Salesforce	Solve
242.	Valid Anagram	Uber	Solve
252.	Meeting Rooms	Bloomberg	Solve
268.	Missing Number	Adobe	Solve
283.	Move Zeroes	Facebook	Solve
338.	Counting Bits	Dropbox	Solve
344.	Reverse String	Microsoft	Solve
349.	Intersection of Two Arrays	Two Sigma	Solve

392.	Is Subsequence	Pinterest	Solve
448.	Find All Numbers Disappeared in an Array	Google	Solve
543.	Diameter of Binary Tree	Facebook	Solve
572.	Subtree of Another Tree	Amazon	Solve
617.	Merge Two Binary Trees	Adobe	Solve
680.	Valid Palindrome II	Facebook	Solve
703.	Kth Largest Element in a Stream	Amazon	Solve
704.	Binary Search	LinkedIn	Solve
706.	Design HashMap	Microsoft	Solve
746.	Min Cost Climbing Stairs	Amazon	Solve
844.	Backspace String Compare	Google	Solve
876.	Middle of the Linked List	Adobe	Solve
977.	Squares of a Sorted Array	Facebook	Solve
1046.	Last Stone Weight	Salesforce	Solve
1189.	Maximum Number of Balloons	Tesla	Solve
1299.	Replace Elements with Greatest Element on Right Side	Amazon	Solve
1929.	Concatenation of Array	Google	Solve

2.	Add Two Numbers	Amazon	Solve
3.	Longest Substring Without Repeating Characters	Bloomberg	Solve
5.	Longest Palindromic Substring	Microsoft	Solve
7.	Reverse Integer	Google	Solve
11.	Container With Most Water	Facebook	Solve
15.	3Sum	Apple	Solve
17.	Letter Combinations of a Phone Number	Uber	Solve
19.	Remove Nth Node From End of List	Adobe	Solve
22.	Generate Parentheses	Zendesk	Solve
33.	Search in Rotated Sorted Array	LinkedIn	Solve
39.	Combination Sum	Snapchat	Solve
40.	Combination Sum II	Microsoft	Solve
46.	Permutations	Netflix	Solve
48.	Rotate Image	Amazon	Solve
49.	Group Anagrams	Yandex	Solve
53.	Maximum Subarray	PayPal	Solve

54.	Spiral Matrix	Google	Solve
55.	Jump Game	Amazon	Solve
56.	Merge Intervals	Facebook	Solve
57.	Insert Interval	Google	Solve
62.	Unique Paths	Goldman Sachs	Solve
73.	Set Matrix Zeroes	Microsoft	Solve
74.	Search a 2D Matrix	Amazon	Solve
78.	Subsets	Facebook	Solve
79.	Word Search	TikTok	Solve
90.	Subsets II	Bloomberg	Solve
91.	Decode Ways	Google	Solve
98.	Validate Binary Search Tree	Amazon	Solve
102.	Binary Tree Level Order Traversal	LinkedIn	Solve
105.	Construct Binary Tree from Preorder and Inorder Traversal	Microsoft	Solve
128.	Longest Consecutive Sequence	Google	Solve
130.	Surrounded Regions	Airbnb	Solve
131.	Palindrome Partitioning	Intuit	Solve

133.	Clone Graph	Facebook	Solve
134.	Gas Station	Amazon	Solve
138.	Copy List with Random Pointer	Microsoft	Solve
139.	Word Break	ByteDance	Solve
143.	Reorder List	Adobe	Solve
146.	LRU Cache	Amazon	Solve
150.	Evaluate Reverse Polish Notation	LinkedIn	Solve
152.	Maximum Product Subarray	Google	Solve
153.	Find Minimum in Rotated Sorted Array	Uber	Solve
167.	Two Sum II - Input Array Is Sorted	Amazon	Solve
198.	House Robber	Cisco	Solve
199.	Binary Tree Right Side View	Facebook	Solve
200.	Number of Islands	Amazon	Solve
207.	Course Schedule	Coursera	Solve
208.	Implement Trie (Prefix Tree)	Google	Solve
210.	Course Schedule II	DoorDash	Solve
211.	Design Add and Search Words Data Structure	Facebook	Solve

213.	House Robber II	eBay	Solve
215.	Kth Largest Element in an Array	Facebook	Solve
230.	Kth Smallest Element in a BST	Uber	Solve
236.	Lowest Common Ancestor of a Binary Tree	Amazon	Solve
238.	Product of Array Except Self	Facebook	Solve
253.	Meeting Rooms II	Google	Solve
261.	Graph Valid Tree	LinkedIn	Solve
271.	Encode and Decode Strings	Google	Solve
287.	Find the Duplicate Number	Amazon	Solve
300.	Longest Increasing Subsequence	ByteDance	Solve
309.	Best Time to Buy and Sell Stock with Cooldown	Google	Solve
322.	Coin Change	Amazon	Solve
323.	Number of Connected Components in an Undirected Graph	Facebook	Solve
347.	Top K Frequent Elements	Amazon	Solve
371.	Sum of Two Integers	Facebook	Solve
416.	Partition Equal Subset Sum	Facebook	Solve
417.	Pacific Atlantic Water Flow	Google	Solve

424. Longest Repeating Character Replacement   Google   Solve

435. Non-overlapping Intervals   Facebook   Solve

HARD Advanced Problems (121-150)

4.	Median of Two Sorted Arrays	Google	Solve
10.	Regular Expression Matching	Facebook	Solve
23.	Merge k Sorted Lists	Amazon	Solve
25.	Reverse Nodes in k-Group	Microsoft	Solve
42.	Trapping Rain Water	Amazon	Solve
51.	N-Queens	Adobe	Solve
72.	Edit Distance	Google	Solve
76.	Minimum Window Substring	LinkedIn	Solve
84.	Largest Rectangle in Histogram	Amazon	Solve
124.	Binary Tree Maximum Path Sum	Facebook	Solve
127.	Word Ladder	Amazon	Solve
212.	Word Search II	Microsoft	Solve
239.	Sliding Window Maximum	Google	Solve
269.	Alien Dictionary	Facebook	Solve
295.	Find Median from Data Stream	Apple	Solve
297.	Serialize and Deserialize Binary Tree	Amazon	Solve

312.	Burst Balloons	Google	Solve
329.	Longest Increasing Path in a Matrix	DoorDash	Solve
332.	Reconstruct Itinerary	Google	Solve
403.	Frog Jump	Facebook	Solve
460.	LFU Cache	Amazon	Solve
472.	Concatenated Words	Amazon	Solve
588.	Design In-Memory File System	Google	Solve
632.	Smallest Range Covering Elements from K Lists	Google	Solve
715.	Range Module	Google	Solve
759.	Employee Free Time	Airbnb	Solve
778.	Swim in Rising Water	Google	Solve
815.	Bus Routes	Amazon	Solve
895.	Maximum Frequency Stack	Amazon	Solve
1235.	Maximum Profit in Job Scheduling	DoorDash	Solve

📚 Frontend Interview Preparation Tips

✔ Start with Easy problems to build confidence and understand patterns

✔ Focus heavily on Arrays, Strings, and Objects - most common in frontend

✔ Master Two Pointers and Sliding Window for optimization problems

✔ Understand DOM manipulation parallels with Tree problems

✓ Practice explaining your approach - communication is crucial

✓ Learn JavaScript-specific methods: map, filter, reduce, forEach

✓ Time complexity matters for handling large datasets in UI

✓ Build real projects applying these algorithms

✓ Mock interviews help with nervousness and timing

✓ Review company-specific questions before interviews

Note: This list includes problems from top tech companies including FAANG (Facebook/Meta, Amazon, Apple, Netflix, Google) and other leading companies like Microsoft, LinkedIn, Uber, Airbnb, Adobe, Bloomberg, PayPal, Salesforce, Twitter, DoorDash, and more.

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