

■ DSA Roadmap for FAANG Preparation

This roadmap is structured topic-wise with important problems, their difficulty levels, and source platforms. It is designed for FAANG-level interviews and can be followed step-by-step.

Arrays & Binary Search

Problem	Platform (ID)	Level
Two Sum	LeetCode 1	Easy
Best Time to Buy and Sell Stock	LeetCode 121	Easy
Search in Rotated Sorted Array	LeetCode 33	Medium
Find First and Last Position	LeetCode 34	Medium

Strings

Problem	Platform (ID)	Level
Valid Anagram	LeetCode 242	Easy
Longest Palindromic Substring	LeetCode 5	Medium
Minimum Window Substring	LeetCode 76	Hard

Linked List

Problem	Platform (ID)	Level
Reverse Linked List	LeetCode 206	Easy
Merge Two Sorted Lists	LeetCode 21	Easy
Linked List Cycle Detection	LeetCode 141	Easy
LRU Cache	LeetCode 146	Medium

Trees & BST

Problem	Platform (ID)	Level
Maximum Depth of Binary Tree	LeetCode 104	Easy
Validate Binary Search Tree	LeetCode 98	Medium
Lowest Common Ancestor	LeetCode 236	Medium
Serialize and Deserialize Binary Tree	LeetCode 297	Hard

Graphs

Problem	Platform (ID)	Level
Number of Islands	LeetCode 200	Medium
Clone Graph	LeetCode 133	Medium
Course Schedule	LeetCode 207	Medium
Word Ladder	LeetCode 127	Hard

Dynamic Programming

Problem	Platform (ID)	Level
Climbing Stairs	LeetCode 70	Easy
Coin Change	LeetCode 322	Medium
Longest Increasing Subsequence	LeetCode 300	Medium
Edit Distance	LeetCode 72	Hard

- Follow this roadmap step-by-step. Start from Arrays → Strings → Linked List → Trees → Graphs → DP.
- Practice daily and track progress on LeetCode or GFG.
- After covering basics, move to system design and advanced problem-solving for FAANG interviews.