

# 📌 DSA Mastery 30-Day Plan (SWE Interviews)

Day	Topic	Subtopics / Problems	Done
1	Arrays Basics + Patterns	Two Sum, Move Zeroes, Best Time to Buy/Sell Stock, Prefix Sum	<input type="checkbox"/>
2	Strings + Sliding Window	Longest Substring w/o Repeating, Anagrams, Min Window Substring	<input type="checkbox"/>
3	Sorting	QuickSort, MergeSort, Sort Colors, Merge Intervals, Meeting Rooms II	<input type="checkbox"/>
4	Binary Search	Classic BS, Rotated Array, Koko Eating Bananas, Peak Element	<input type="checkbox"/>
5	HashMap + Set	Group Anagrams, Top K Frequent Elements, Isomorphic Strings	<input type="checkbox"/>
6	Linked List	Reverse LL (iter+rec), Detect Cycle, Remove Nth Node, Merge LLs	<input type="checkbox"/>
7	Review + Timed Practice	Re-solve mistakes, 2-3 Leetcode E/M, recap patterns	<input type="checkbox"/>
8	Tree Traversals	Pre/In/Post (rec+iter), Max Depth, Diameter, Same Tree	<input type="checkbox"/>
9	BST	Validate BST, LCA, Insert/Delete/Search BST	<input type="checkbox"/>
10	Stack	Valid Parentheses, Daily Temperatures, Min Stack, Next Greater Element	<input type="checkbox"/>
11	Queue + Deque	Sliding Window Max, Rotting Oranges, Implement Queue w/ Stack	<input type="checkbox"/>
12	Recursion	Fibonacci, Subsets, Power(x, n)	<input type="checkbox"/>
13	Backtracking Intro	N-Queens, Word Search, Permutations, Subsets II	<input type="checkbox"/>
14	Review + Mock	Re-solve tough problems, mock session	<input type="checkbox"/>
15	Heap / Priority Queue	Kth Largest, Top K Words, Merge K Lists, Median Stream	<input type="checkbox"/>
16	Trie	Build Trie, Replace Words, Word Search II	<input type="checkbox"/>
17	Graphs Basics	BFS, DFS, Number of Islands, Clone Graph	<input type="checkbox"/>
18	Dijkstra + Shortest Path	Network Delay, Binary Matrix Path, Flights w/in Stops	<input type="checkbox"/>
19	Union-Find	DSU impl, Redundant Connection, Components Count	<input type="checkbox"/>
20	Topological Sort	Course Schedule I/II, Alien Dictionary	<input type="checkbox"/>
21	Graph Review + Mock	Re-solve graph problems, mock test (2 M/H)	<input type="checkbox"/>
22	DP Basics	Fibonacci, House Robber, Climb Stairs	<input type="checkbox"/>
23	1D/2D DP	LCS, LIS, Knapsack, Coin Change	<input type="checkbox"/>
24	Advanced DP	Edit Distance, Decode Ways, Palindromic Substrings	<input type="checkbox"/>
25	Greedy	Merge Intervals, Activity Select, Gas Station	<input type="checkbox"/>
26	Backtracking II	Sudoku Solver, Word Break II, Palindrome Partition	<input type="checkbox"/>
27	DP & Backtracking Review	Flashcard test, re-solve key fails	<input type="checkbox"/>
28	Full Mock Round	2 Med/Hard Leetcode problems timed	<input type="checkbox"/>
29	Weak Area Review	Linked List / Graph / Heap / etc. re-solve	<input type="checkbox"/>
30	Final Polishing	Templates review, top 10 toughest problems	<input type="checkbox"/>