

Cracking Interviews

Compiled Guide

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2 Top GitHub Repos for Coding Interviews

Repo Name	Description	Language	Stars / Notes	Link
jwasham/coding-interview-university	A detailed study plan with articles, videos, and resources to prepare for interviews at top companies like Google and Amazon. Covers DSA fundamentals to advanced topics.	Multiple	300k+	Link
TheAlgorithms/Python	Open-source implementations of hundreds of algorithms and data structures in Python, with explanations—ideal for hands-on learning and interview practice.	Python	180k+	Link
yangshun/tech-interview-handbook	Curated guide for all interview phases, including DSA cheat sheets, behavioral tips, and coding challenges in multiple languages.	Multiple	100k+	Link
ashishps1/awesome-leetcode-resources	Awesome curated list of LeetCode resources, including problem lists, solutions, and DSA learning paths for coding interviews.	N/A (Curated)	10k+	Link
AkashSingh3031/TheCompleteFAANGPreparation	All-in-one repo for FAANG interviews: 450+ DSA problems (Love Babbar sheet), theory on OS/DBMS, puzzles, and MCQs.	Multiple	15k+	Link
seanprashad/leetcode-patterns	Pattern-based approach to LeetCode problems (150+), grouping by techniques like sliding window and DP for efficient interview prep.	Multiple	40k+	Link
kunal-kushwaha/DSA-Bootcamp-Java	Complete DSA bootcamp with code samples, assignments, and notes—structured for Java learners prepping for placements.	Java	10k+	Link

Repo Name	Description	Language	Stars / Notes	Link
careercup/CtCI-6th-Edition	Solutions and challenges from “Cracking the Coding Interview” book, covering 189 essential problems for tech interviews.	Multiple	10k+	Link
MisterBooo/LeetCodeAnimation	Animated visualizations and solutions for 200+ LeetCode problems, making complex DSA concepts easier to grasp.	Multiple	60k+	Link
twowaits/SDE-Interview-Questions	Comprehensive scraped list of SDE interview questions from GeeksforGeeks, Glassdoor, etc., with DSA focus.	N/A (Curated)	10k+	Link
anushka23g/CompletePlacementPreparation	Materials for cracking coding rounds: DSA problems, interview questions, and company-wise prep.	Multiple	5k+	Link
fishercoder1534/LeetCodeDaily	Daily-updated solutions to thousands of LeetCode problems, categorized by DSA topics.	Java	20k+	Link
teivah/algodeck	200+ algorithmic flash cards for quick DSA review and interview flashcards.	N/A (Cards)	10k+	Link
donnemartin/interactive-coding-challenges	Interactive Python challenges with visualizations for practicing DSA like a whiteboard interview.	Python	30k+	Link
ChunhThanhDe/LeetCodeTop-Interview	Solutions to LeetCode’s Top 150 Interview Questions, covering core DSA patterns.	Multiple	5k+	Link
vineethm1627/SDE-CompleteStriver	Complete C++ solutions for all 180 problems, organized by 30-day challenge. Includes code and explanations.	C++	N/A	Link
muditmahajan21/striversds-sde-sheet	Detailed problem-wise solutions with notes on approaches. Great for understanding patterns.	Multiple	N/A	Link
arindal1/StriversDSA-Sheet	Solutions to Striver’s A2Z DSA Sheet problems, with a focus on collaborative learning and video-linked explanations.	Multiple	N/A	Link
chetan6780/Striver-SDE-Sheet	Curated list of problems with starter code and solutions for linked lists, arrays, and more.	Multiple	N/A	Link
sachuverma/DataStructuresAlgorithms (Striver Section)	Repository with theory, resources, and Striver Sheet questions/solutions in one place. Includes interview prep links.	Multiple	N/A	Link

3 Interview Practice Questions: 180 DSA Problems

3.1 Overview

This document contains a curated list of 180 frequently asked coding interview problems from LeetCode, GeeksforGeeks (GFG), and Codeforces. The problems are categorized by difficulty:

- **60 Easy:** Basic concepts like traversal, searching, and simple manipulations.
- **80 Medium:** Optimization, two-pointers, recursion, and basic dynamic programming.
- **40 Hard:** Advanced topics like graph algorithms, advanced DP, and bit manipulation.

Practice in topic order for better retention. Each problem includes the title, source, and direct link.

3.2 Easy Questions (60)

#	Title	Source	Link
1	Print the pattern	GFG	https://www.geeksforgeeks.org/problems/print-the-pattern-set-1/1
2	Print table	GFG	https://www.geeksforgeeks.org/problems/print-table0303/1
3	Series AP	GFG	https://www.geeksforgeeks.org/problems/series-ap5310/1
4	Series GP	GFG	https://www.geeksforgeeks.org/problems/series-gp4646/1
5	Closest Number	GFG	https://www.geeksforgeeks.org/problems/closest-number5728/1
6	Armstrong Numbers	GFG	https://www.geeksforgeeks.org/problems/armstrong-numbers2727/1
7	Sum of digits of a number	GFG	https://www.geeksforgeeks.org/problems/sum-of-digits1742/1
8	Reverse digits	GFG	https://www.geeksforgeeks.org/problems/reverse-digit0316/1
9	Print the Kth Digit	GFG	https://www.geeksforgeeks.org/problems/print-the-kth-digit3520/1
10	Binary number to decimal number	GFG	https://www.geeksforgeeks.org/problems/binary-number-to-decimal-number3525/1
11	Jumping Numbers	GFG	https://www.geeksforgeeks.org/problems/jumping-numbers3805/1
12	GCD of two numbers	GFG	https://www.geeksforgeeks.org/problems/gcd-of-two-numbers3459/1
13	LCM of two numbers	GFG	https://www.geeksforgeeks.org/problems/lcm-and-gcd4516/1
14	Add two fractions	GFG	https://www.geeksforgeeks.org/problems/add-two-fractions/1
15	GCD of array	GFG	https://www.geeksforgeeks.org/problems/gcd-of-array0614/1
16	Factorial of a number	GFG	https://www.geeksforgeeks.org/problems/factorial5739/
17	Compute nPr	GFG	https://www.geeksforgeeks.org/problems/npr4253/1
18	Compute nCr	GFG	https://www.geeksforgeeks.org/problems/ncr1019/1

#	Title	Source	Link
19	Largest prime factor	GFG	https://www.geeksforgeeks.org/problems/largest-prime-factor2601/1
20	Perfect Numbers	GFG	https://www.geeksforgeeks.org/problems/perfect-numbers3207/1
21	Young Physicist	Codeforces	http://codeforces.com/problemset/problem/69/A
22	Beautiful Matrix	Codeforces	http://codeforces.com/problemset/problem/263/A
23	Queue at the School	Codeforces	http://codeforces.com/problemset/problem/266/B
24	Borze	Codeforces	http://codeforces.com/problemset/problem/32/B
25	Beautiful Year	Codeforces	http://codeforces.com/problemset/problem/271/A
26	Lights Out	Codeforces	http://codeforces.com/problemset/problem/275/A
27	Word	Codeforces	http://codeforces.com/problemset/problem/59/A
28	Word Capitalization	Codeforces	http://codeforces.com/problemset/problem/281/A
29	Nearly Lucky Number	Codeforces	http://codeforces.com/problemset/problem/110/A
30	Stones on the Table	Codeforces	http://codeforces.com/problemset/problem/266/A
31	Two Sum	LeetCode	https://leetcode.com/problems/two-sum/
32	Valid Parentheses	LeetCode	https://leetcode.com/problems/valid-parentheses/
33	Same Tree	LeetCode	https://leetcode.com/problems/same-tree/
34	Symmetric Tree	LeetCode	https://leetcode.com/problems/symmetric-tree/
35	Maximum Depth of Binary Tree	LeetCode	https://leetcode.com/problems/maximum-depth-of-binary-tree/
36	Counting Bits	LeetCode	https://leetcode.com/problems/counting-bits/
37	Reverse Bits	LeetCode	https://leetcode.com/problems/reverse-bits/
38	Palindrome Number	LeetCode	https://leetcode.com/problems/palindrome-number/
39	Roman to Integer	LeetCode	https://leetcode.com/problems/roman-to-integer/
40	Longest Common Prefix	LeetCode	https://leetcode.com/problems/longest-common-prefix/
41	Panoramix's Prediction	Codeforces	http://codeforces.com/problemset/problem/80/A
42	Ultra-Fast Mathematician	Codeforces	http://codeforces.com/problemset/problem/61/A
43	Perfect Permutation	Codeforces	http://codeforces.com/problemset/problem/233/A
44	Arrival of the General	Codeforces	http://codeforces.com/problemset/problem/144/A
45	Drinks	Codeforces	http://codeforces.com/problemset/problem/200/B
46	Insomnia cure	Codeforces	http://codeforces.com/problemset/problem/148/A
47	Cupboards	Codeforces	http://codeforces.com/problemset/problem/248/A
48	I_love_%username%	Codeforces	http://codeforces.com/problemset/problem/155/A
49	Tram	Codeforces	http://codeforces.com/problemset/problem/116/A
50	Helpful Maths	Codeforces	http://codeforces.com/problemset/problem/339/A
51	Check for palindrome	GFG	https://www.geeksforgeeks.org/problems/palindrome-string0817/1
52	Check for anagram	GFG	https://www.geeksforgeeks.org/problems/anagram-1587115620/1
53	Anagram Palindrome	GFG	https://www.geeksforgeeks.org/problems/anagram-palindrome4720/1

#	Title	Source	Link
54	Title case conversion	GFG	https://www.geeksforgeeks.org/problems/upper-case-conversion5419/1
55	Sort the string	GFG	https://www.geeksforgeeks.org/problems/sort-the-string-in-descending-order3542/1
56	Merge two strings	GFG	https://www.geeksforgeeks.org/problems/merge-two-strings2736/1
57	Save Ironman	GFG	https://www.geeksforgeeks.org/problems/save-ironman/0
58	Good or Bad string	GFG	https://www.geeksforgeeks.org/problems/good-or-bad-string1417/1
59	Extract Maximum	GFG	https://www.geeksforgeeks.org/problems/extract-maximum2943/1
60	Reverse words in a given string	GFG	https://www.geeksforgeeks.org/problems/reverse-words-in-a-given-string5459/1

3.3 Medium Questions (80)

#	Title	Source	Link
1	Linear Search	GFG	https://www.geeksforgeeks.org/problems/searching-a-number0324/1
2	Facing the sun	GFG	https://www.geeksforgeeks.org/problems/buildings-receiving-sunlight3032/1
3	Magnet Array Problem	GFG	https://www.geeksforgeeks.org/problems/magnet-array-problem3743/1
4	Binary Search	GFG	https://www.geeksforgeeks.org/problems/binary-search-1587115620/1
5	Floor in a Sorted Array	GFG	https://www.geeksforgeeks.org/problems/floor-in-a-sorted-array-1587115620/1
6	Count occurrences in a sorted array	GFG	https://www.geeksforgeeks.org/problems/number-of-occurrence2259/1
7	Search in a sorted and rotated	GFG	https://www.geeksforgeeks.org/problems/search-in-a-rotated-array4618/1
8	Find the missing number	GFG	https://www.geeksforgeeks.org/problems/missing-number/0
9	Missing element of AP	GFG	https://www.geeksforgeeks.org/problems/missing-element-of-ap2228/1
10	Square root of a number	GFG	https://www.geeksforgeeks.org/problems/square-root/1
11	Check if array is sorted	GFG	https://www.geeksforgeeks.org/problems/check-if-an-array-is-sorted0701/1
12	Sort a binary array	GFG	https://www.geeksforgeeks.org/problems/binary-array-sorting-1587115620/1
13	Sort an array of 0s, 1s and 2s	GFG	https://www.geeksforgeeks.org/problems/sort-an-array-of-0s-1s-and-2s4231/1
14	Bubble Sort	GFG	https://www.geeksforgeeks.org/problems/bubble-sort/1
15	Insertion Sort	GFG	https://www.geeksforgeeks.org/problems/insertion-sort/1
16	Selection Sort	GFG	https://www.geeksforgeeks.org/problems/selection-sort/1
17	Quick Sort	GFG	https://www.geeksforgeeks.org/problems/quick-sort/1
18	Merge Sort	GFG	https://www.geeksforgeeks.org/problems/merge-sort/1
19	Sort an array when two halves are sorted	GFG	https://www.geeksforgeeks.org/problems/sort-the-half-sorted2157/1
20	Relative Sorting	GFG	https://www.geeksforgeeks.org/problems/relative-sorting4323/1
21	Print a Linked List	GFG	https://www.geeksforgeeks.org/problems/print-linked-list-elements/1
22	Length of a linked list	GFG	https://www.geeksforgeeks.org/problems/count-nodes-of-linked-list/1
23	Node at a given index in linked list	GFG	https://www.geeksforgeeks.org/problems/node-at-a-given-index-in-linked-list/1

#	Title	Source	Link
24	Middle of a linked list	GFG	https://www.geeksforgeeks.org/problems/finding-middle-element-in-a-linked-list/1
25	n-th node from end of a linked list	GFG	https://www.geeksforgeeks.org/problems/nth-node-from-end-of-linked-list/1
26	Delete a node	GFG	https://www.geeksforgeeks.org/problems/delete-a-node-in-single-linked-list/1
27	Remove every k'th node	GFG	https://www.geeksforgeeks.org/problems/remove-every-kth-node/1
28	Delete N nodes after M nodes of a linked list	GFG	https://www.geeksforgeeks.org/problems/delete-n-nodes-after-m-nodes-of-a-linked-list/1
29	Delete without head pointer	GFG	https://www.geeksforgeeks.org/problems/delete-without-head-pointer/1
30	Rearrange a linked list	GFG	https://www.geeksforgeeks.org/problems/rearrange-a-linked-list/1
31	Implement Stack using Array	GFG	https://www.geeksforgeeks.org/problems/implement-stack-using-array/1
32	Implement Stack using Linked List	GFG	https://www.geeksforgeeks.org/problems/implement-stack-using-linked-list/1
33	Check for balanced parenthesis	GFG	https://www.geeksforgeeks.org/problems/parenthesis-checker2744/1
34	Reverse a stack	GFG	https://www.geeksforgeeks.org/problems/reverse-a-string-using-stack/1
35	Implement two stacks in an array	GFG	https://www.geeksforgeeks.org/problems/implement-two-stacks-in-an-array/1
36	Design a stack with getMin	GFG	https://www.geeksforgeeks.org/problems/special-stack/1
37	The celebrity problem	GFG	https://www.geeksforgeeks.org/problems/the-celebrity-problem/1
38	Stock Span Problem	GFG	https://www.geeksforgeeks.org/problems/stock-span-problem-1587115621/1
39	Next Greater Element	GFG	https://www.geeksforgeeks.org/problems/next-larger-element-1587115620/1
40	Next Smaller Element	GFG	https://www.geeksforgeeks.org/problems/immediate-smaller-element1142/1
41	Longest valid Parentheses	GFG	https://www.geeksforgeeks.org/problems/longest-valid-parentheses5657/1
42	Implement Queue using Linked List	GFG	https://www.geeksforgeeks.org/problems/implement-queue-using-linked-list/1
43	Implement Queue using Array	GFG	https://www.geeksforgeeks.org/problems/implement-queue-using-array/1
44	Implement Stack using Queue	GFG	https://www.geeksforgeeks.org/problems/stack-using-two-queues/1
45	Implement Queue using Stack	GFG	https://www.geeksforgeeks.org/problems/queue-using-two-stacks/1
46	Reversing a Queue	GFG	https://www.geeksforgeeks.org/problems/reverse-first-k-elements-of-queue/1
47	Circular tour	GFG	https://www.geeksforgeeks.org/problems/circular-tour-1587115620/1

#	Title	Source	Link
48	First non-repeating character in a stream	GFG	https://www.geeksforgeeks.org/problems/first-non-repeating-character-in-a-stream1216/1
49	Longest Substring Without Repeating Characters	LeetCode	https://leetcode.com/problems/longest-substring-without-repeating-characters/
50	Container With Most Water	LeetCode	https://leetcode.com/problems/container-with-most-water/
51	3Sum	LeetCode	https://leetcode.com/problems/3sum/
52	Remove Nth Node From End of List	LeetCode	https://leetcode.com/problems/remove-nth-node-from-end-of-list/
53	Add Two Numbers	LeetCode	https://leetcode.com/problems/add-two-numbers/
54	Longest Palindromic Substring	LeetCode	https://leetcode.com/problems/longest-palindromic-substring/
55	Zigzag Level Order Traversal	LeetCode	https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/
56	Clone Graph	LeetCode	https://leetcode.com/problems/clone-graph/
57	Sum of Two Integers	LeetCode	https://leetcode.com/problems/sum-of-two-integers/
58	Unique Paths	LeetCode	https://leetcode.com/problems/unique-paths/
59	House Robber	LeetCode	https://leetcode.com/problems/house-robber/
60	Paint Fence	LeetCode	https://leetcode.com/problems/paint-fence/
61	Longest Increasing Subsequence	LeetCode	https://leetcode.com/problems/longest-increasing-subsequence/
62	Maximum Subarray	LeetCode	https://leetcode.com/problems/maximum-subarray/
63	Unique Paths II	LeetCode	https://leetcode.com/problems/unique-paths-ii/
64	House Robber II	LeetCode	https://leetcode.com/problems/house-robber-ii/
65	Triplet Sum in Array	GFG	https://www.geeksforgeeks.org/problems/triplet-sum-in-array-1587115621/1
66	Minimum Swaps to Sort	GFG	https://www.geeksforgeeks.org/problems/minimum-swaps/1
67	Sorting elements by frequency	GFG	https://www.geeksforgeeks.org/problems/sorting-elements-of-an-array-by-frequency/0
68	Triplet Family	GFG	https://www.geeksforgeeks.org/problems/triplet-family/1
69	Count the triplets	GFG	https://www.geeksforgeeks.org/problems/count-the-triplets4615/1
70	Segregate even and odd	GFG	https://www.geeksforgeeks.org/problems/segregate-even-and-odd-nodes-in-a-linked-list5035/1
71	Reorder List	GFG	https://www.geeksforgeeks.org/problems/reorder-list/1

#	Title	Source	Link
72	Polynomial Addition	GFG	https://www.geeksforgeeks.org/problems/polynomial-addition/1
73	Insert in a Sorted List	GFG	https://www.geeksforgeeks.org/problems/insert-in-a-sorted-list/1
74	Swap nodes in pairs	GFG	https://www.geeksforgeeks.org/problems/pairwise-swap-elements-of-a-linked-list-by-swapping-data/1
75	Reverse a linked list	GFG	https://www.geeksforgeeks.org/problems/reverse-a-linked-list/1
76	Reverse a Linked List in groups of given size	GFG	https://www.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of-given-size/1
77	Check for palindrome	GFG	https://www.geeksforgeeks.org/problems/check-if-linked-list-is-pallindrome/1
78	Flattening a linked list	GFG	https://www.geeksforgeeks.org/problems/flattening-a-linked-list/1
79	Get intersection point	GFG	https://www.geeksforgeeks.org/problems/intersection-point-in-y-shapped-linked-lists/1
80	Remove duplicates from sorted list	GFG	https://www.geeksforgeeks.org/problems/remove-duplicate-element-from-sorted-linked-list/1

3.4 Hard Questions (40)

#	Title	Source	Link
1	Inorder Traversal	GFG	https://www.geeksforgeeks.org/problems/inorder-traversal/1
2	Preorder Traversal	GFG	https://www.geeksforgeeks.org/problems/preorder-traversal/1
3	Postorder Traversal	GFG	https://www.geeksforgeeks.org/problems/postorder-traversal/1
4	Level order traversal	GFG	https://www.geeksforgeeks.org/problems/level-order-traversal/1
5	Find height of Binary Tree	GFG	https://www.geeksforgeeks.org/problems/height-of-binary-tree/1
6	Count Leaves in Binary Tree	GFG	https://www.geeksforgeeks.org/problems/count-leaves-in-binary-tree/1
7	Check for Children Sum Property	GFG	https://www.geeksforgeeks.org/problems/children-sum-parent/1
8	Mirror Tree	GFG	https://www.geeksforgeeks.org/problems/mirror-tree/1
9	Check for Balanced Tree	GFG	https://www.geeksforgeeks.org/problems/check-for-balanced-tree/1
10	Lowest Common Ancestor in a Binary Tree	GFG	https://www.geeksforgeeks.org/problems/lowest-common-ancestor-in-a-binary-tree/1
11	Diameter of Binary Tree	GFG	https://www.geeksforgeeks.org/problems/diameter-of-binary-tree/1
12	Left View of Binary Tree	GFG	https://www.geeksforgeeks.org/problems/left-view-of-binary-tree/1
13	Right View of Binary Tree	GFG	https://www.geeksforgeeks.org/problems/right-view-of-binary-tree/1
14	Maximum path sum	GFG	https://www.geeksforgeeks.org/problems/maximum-path-sum/1
15	Level order traversal line by line	GFG	https://www.geeksforgeeks.org/problems/level-order-traversal-line-by-line/1
16	Tree from Postorder and Inorder	GFG	https://www.geeksforgeeks.org/problems/tree-from-postorder-and-inorder/1
17	Tree from Preorder and Inorder	GFG	https://www.geeksforgeeks.org/problems/construct-tree-1/1
18	Connect Nodes at Same Level	GFG	https://www.geeksforgeeks.org/problems/connect-nodes-at-same-level/1
19	Zig-Zag level order traversal	GFG	https://www.geeksforgeeks.org/problems/zigzag-tree-traversal/1
20	Serialize and Deserialize a Binary Tree	GFG	https://www.geeksforgeeks.org/problems/serialize-and-deserialize-a-binary-tree/1
21	Leaves to DLL	GFG	https://www.geeksforgeeks.org/problems/leaves-to-dll/1
22	Binary Tree to Doubly Linked List	GFG	https://www.geeksforgeeks.org/problems/binary-tree-to-dll/1
23	Binary Tree to Circular Doubly Linked List	GFG	https://www.geeksforgeeks.org/problems/binary-tree-to-cdll/1

#	Title	Source	Link
24	Print adjacency list	GFG	https://www.geeksforgeeks.org/problems/print-adjacency-list-1587115620/1
25	Breadth First Search	GFG	https://www.geeksforgeeks.org/problems/bfs-traversal-of-graph/1
26	Depth First Search	GFG	https://www.geeksforgeeks.org/problems/depth-first-traversal-for-a-graph/1
27	Find whether path exist	GFG	https://www.geeksforgeeks.org/problems/find-whether-path-exist5238/1
28	Knight Walk	GFG	https://www.geeksforgeeks.org/problems/knight-walk4521/1
29	Snake and Ladder Problem	GFG	https://www.geeksforgeeks.org/problems/snake-and-ladder-problem4816/1
30	Bipartite Graph	GFG	https://www.geeksforgeeks.org/problems/bipartite-graph/1
31	Detect Cycle in an undirected graph	GFG	https://www.geeksforgeeks.org/problems/detect-cycle-in-an-undirected-graph/1
32	Detect Cycle in a directed graph	GFG	https://www.geeksforgeeks.org/problems/detect-cycle-in-a-directed-graph/1
33	Rotten oranges	GFG	https://www.geeksforgeeks.org/problems/rotten-oranges2536/1
34	Word Ladder	LeetCode	https://leetcode.com/problems/word-ladder/
35	Median of Two Sorted Arrays	LeetCode	https://leetcode.com/problems/median-of-two-sorted-arrays/
36	Merge k Sorted Lists	LeetCode	https://leetcode.com/problems/merge-k-sorted-lists/
37	Regular Expression Matching	LeetCode	https://leetcode.com/problems/regular-expression-matching/
38	Longest Valid Parentheses	LeetCode	https://leetcode.com/problems/longest-valid-parentheses/
39	N-Queens	LeetCode	https://leetcode.com/problems/n-queens/
40	Wildcard Matching	LeetCode	https://leetcode.com/problems/wildcard-matching/

4 Study Guide: Key Concepts to Learn

Before solving these problems, master foundational concepts including time/space complexity (Big O notation) and topic-specific ideas (e.g., two-pointer technique for arrays, recursion for trees).

For a comprehensive guide:

- Download: [Complete Data Structures and Algorithms Guide \(PDF\)](#)

This PDF covers explanations, examples, and prerequisites for arrays, strings, linked lists, stacks/queues, trees, graphs, sorting/searching, DP, and more.

5 Books

- **Introduction to Algorithms (CLRS):** Deep dive into algorithms. [Buy on Amazon](#)