Top 100 Data Structure and Algorithms DSA Interview Questions Topic-wise

DSA has been one of the most popular go-to topics for any interview, be it *college placements, software developer roles, or any other technical roles* for **freshers and experienced** to land a decent job. If you are among them, you already know that it is not easy to find the best DSA interview questions among the vast pool of available problems. So here we are, with the Top 100 most asked DSA interview questions to help you sail through your technical rounds.

For a quick and focused revision, check out our [GfG-160](#)
Master Complete DSA from basic to advanced with [DSA-360°](#)

DSA Interview Questions on Array

1. [Pair with the given Sum](#)

2. [Best Time to Buy and Sell Stock](#)

3. [Find duplicates](#)

4. [Product of Array Except Self](#)

5. [Maximum Subarray](#)

6. [Maximum Product Subarray](#)

7. [Minimum in Rotated Sorted](#)

8. [Search in Rotated Sorted](#)

9. [3 Sum](#)

10. [Container With Most Water](#)

11. [Factorial of a large number](#)

12. [Trapping Rain Water](#)

13. [Chocolate Distribution Problem](#)

14. [Insert Interval](#)

15. [Merge Intervals](#)

16. [Non-overlapping Intervals](#)

For more, please refer [Top 50 Array Interview Questions](#)

DSA Interview Questions on Matrix

1. [Set Matrix Zeroes](#)

2. [Spiral Matrix](#)

3. [Transpose of a matrix](#)

4. [Word Search](#)

For more, please refer [Top 50 Matrix Interview Questions](#)

DSA Interview Questions on String

1. [Longest Substring Without Repeating](#)

2. [Longest Repeating Character Replacement](#)

3. [Smallest window containing all characters](#)

4. [Check for Anagram](#)

5. [Print all anagrams together](#)

6. [Check Balanced Parentheses](#)

7. [Sentence Palindrome](#)

8. [Longest Palindromic Substring](#)

9. [Palindromic Substrings](#)

10. [Longest Common Prefix](#)

For more, please refer [Top 50 String Interview Questions](#)

DSA Interview Questions on Linked List

1. [Reverse a Linked List](#)

2. [Detect Cycle in a Linked List](#)

3. [Merge Two Sorted Lists](#)

4. Merge K Sorted Lists

5. Remove Nth Node From End Of List

6. Reorder List

7. Add 1 to a number represented as linked list

8. Middle of a given linked list

9. Delete last occurrence from linked list

For more, please refer Top 50 Linked List Interview Questions

DSA Interview Questions on Stack & Queue

1. Infix to Postfix expression

2. Next Greater Element

3. Delete middle element of a stack

4. Check mirror in n-ary tree

5. The Celebrity Problem

6. Length of the longest valid substring

7. Print Right View of a Binary Tree

8. Find the first circular tour that visits all

For more, please refer Stack Interview Questions and Queue Interview Questions

DSA Interview Questions on Tree

1. Maximum Depth of Binary Tree

2. Check for Mirror Trees

3. Invert/Flip Binary Tree

4. Binary Tree Maximum Path Sum

5. Binary Tree Level Order Traversal

6. Serialize and Deserialize Binary Tree

7. Subtree of Another Tree

8. Construct Binary Tree from Preorder and Inorder Traversal

9. Validate Binary Search Tree

10. Kth Smallest Element in a BST

11. Lowest Common Ancestor of BST

12. Implement Trie (Prefix Tree)

For more, please refer Top 50 Tree Interview Questions

DSA Interview Questions on Heap

1. Top K Frequent Elements

2. Find Median from Data Stream

3. Largest triplet product in a stream

4. Connect n ropes with minimum cost

For more, please refer Top 50 Heap Interview Questions

DSA Interview Questions on Graph

1. Clone Graph

2. Course Schedule

3. Pacific Atlantic Water Flow

4. Number of Islands

5. Longest Consecutive Sequence

6. Snake and Ladder Problem

7. Detect Cycle in a Directed Graph

8. Bridges in a graph

9. Check whether a given graph is Bipartite or not

10. Find size of the largest region in Boolean Matrix

11. Flood fill Algorithm

12. Strongly Connected Components

13. Topological Sorting

For more, please refer Top 50 Graph Interview Questions

DSA Interview Questions on Dynamic Programming

1. Count ways to reach the n'th stair

2. Coin Change

3. 0/1 Knapsack Problem

4. Longest Increasing Subsequence

5. Longest Common Subsequence

6. Word Break Problem

7. Dice Throw

8. Egg Dropping Puzzle

9. Matrix Chain Multiplication

10. [Combination Sum](#)

11. [Subset Sum Problem](#)

12. [Find maximum possible stolen value from houses](#)

13. [Count Possible Decodings of a given Digit Sequence](#)

14. [Unique paths in a Grid with Obstacles](#)

15. [Jump Game](#)

16. [Cutting a Rod](#)

17. [Maximum Product Cutting](#)

18. [Count number of ways to cover a distance](#)

For more, please refer [Top 50 DP Interview Questions](#)

DSA Interview Questions on Bit Manipulations

1. [Number of 1 Bits](#)

2. [Counting Bits](#)

3. [Missing Number](#)

4. [Reverse Bits](#)

5. [Find XOR of all subsets of a set](#)

For more, please refer [Top Bit Manipulation Interview Questions](#)

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