

DSA in Java Open source

Everything in computer science starts with a zero

1. Leetcode Level Wise interview preparation questions:

Explore - LeetCode

This is LeetCode's official curated list of Top classic interview questions to help you land your dream job. Our top interview questions are divided into the following series: to help you master Data Structure & Algorithms and improve

https://leetcode.com/explore/interview/card/top-interview-questions-easy/



2. DSA Theory Questions:

- 1. How do you find the missing number in a given integer array of 1 to 100? (solution)
- 2. How do you find the duplicate number on a given integer array? (solution)
- 3. How do you find the largest and smallest number in an unsorted integer array? (solution)
- 4. How do you find all pairs of an integer array whose sum is equal to a given number? (solution)
- 5. How do you find duplicate numbers in an array if it contains multiple duplicates? (solution)
- 6. How are duplicates removed from a given array in Java? (solution)
- 7. How is an integer array sorted in place using the quicksort algorithm? (solution)
- 8. How do you remove duplicates from an array in place? (solution)
- 9. How do you reverse an array in place in Java? (solution)
- 10. How are duplicates removed from an array without using any library? (solution)
- 11. How do you find the middle element of a singly linked list in one pass? (solution)

- 12. How do you check if a given linked list contains a cycle? How do you find the starting node of the cycle? (solution)
- 13. How do you reverse a linked list? (solution)
- 14. How do you reverse a singly linked list without recursion? (solution)
- 15. How are duplicate nodes removed in an unsorted linked list? (solution)
- 16. How do you find the length of a singly linked list? (solution)
- 17. How do you find the third node from the end in a singly linked list? (solution)
- 18. How do you find the sum of two linked lists using Stack? (solution)
- 19. How do you print duplicate characters from a string? (solution)
- 20. How do you check if two strings are anagrams of each other? (solution)
- 21. How do you print the first non-repeated character from a string? (solution)
- 22. How can a given string be reversed using recursion? (solution)
- 23. How do you check if a string contains only digits? (solution)
- 24. How are duplicate characters found in a string? (solution)
- 25. How do you count the number of vowels and consonants in a given string? (solution)
- 26. How do you count the occurrence of a given character in a string? (solution)
- 27. How do you find all the permutations of a string? (solution)
- 28. How do you reverse words in a given sentence without using any library method? (solution)
- 29. How do you check if two strings are a rotation of each other? (solution)
- 30. How do you check if a given string is a palindrome? (solution)
- 31. How is a binary search tree implemented? (solution)
- 32. How do you perform preorder traversal in a given binary tree? (solution)
- 33. How do you traverse a given binary tree in preorder without recursion? (solution)
- 34. How do you perform an inorder traversal in a given binary tree? (solution)
- 35. How do you print all nodes of a given binary tree using inorder traversal without recursion? (solution)
- 36. How do you implement a postorder traversal algorithm? (solution)
- 37. How do you traverse a binary tree in postorder traversal without recursion? (solution)
- 38. How are all leaves of a binary search tree printed? (solution)

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- 39. How do you count the number of leaf nodes in a given binary tree? (solution)
- 40. How do you perform a binary search in a given array? (solution)
- 41. How is a bubble sort algorithm implemented? (solution)
- 42. How is an iterative quicksort algorithm implemented? (solution)
- 43. How do you implement an insertion sort algorithm? (solution)
- 44. How is a merge sort algorithm implemented? (solution)
- 45. How do you implement a bucket sort algorithm? (solution)
- 46. How do you implement a counting sort algorithm? (solution)
- 47. How is a radix sort algorithm implemented? (solution)
- 48. How do you swap two numbers without using the third variable? (solution)
- 49. How do you check if two rectangles overlap with each other? (solution)
- 50. How do you design a vending machine? (solution)

3. Linked List Questions:

40+ linked list questions and solutions (easy, medium, hard)

To ace your coding interview for a software engineering job, you'll need to understand linked lists. They come up frequently in coding interviews and are fundamental to many other data structures too. Let's take a look at some typical





4. 500+ Data Structures and Algorithms Interview Questions & Practice Problems:

500+ Data Structures and Algorithms Interview Questions & Practice Problems

Array. "500+ Data Structures and Algorithms Interview Questions & Practice Problems" is published by Coding Freak in Techie Delight.

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