

Top 100 Interview Programming questions, that help you to get a job

There are usually random questions asked.

1. swiping Program

like a=50;

b=10;

output:- b=50, and a =10

Answer: [Solution](#)

2. sort array without the use of a sort function

input :-var a= [1,2,5,3,4,6,7,8];

output :-var a=[1,2,3,4,5,6,7,8];

Answer: [Solution](#)

3. write a program that generates 50 prime number

example of prime number is :- 2,3,5,7,11,13,17,19,23,29....

Answer: [Solution](#)

4. reverse string without loop or predefined function(like reverse)

Like: var name ="shirsh"

after reverse: var name ="hsrihs"

Answer: [Solution](#)

5. Create and Add a two matrix 2x2 or 3x3.

Answer: [Solution](#)

6. Count repeated items in a String.

Like: var name =" Shirsh"

so, "s"=2 times, "h"=2 times, "i"=1 time, "r"= 1 time

Answer: [Solution](#)

7. how to check the name of the number in English?

For: if I assign any variable:- var num =**121**

so print this number in English letter, means on console print result is -:

"one hundred twenty-one"

Answer: [Solution](#)

8. How to get the matching characters and non-matching characters in a string.

Example:-

Input: str1 = "abcdef", str2 = "defghia"

Output: 4

Matching characters are: a, d, e, f

Answer: [Solution](#)

9. How to calculate the number of vowels and consonants in a string?

Answer: [Solution](#)

10. Determine the factors of a number.

Answer: [Solution](#)

11. Compute the first Ten Fibonacci numbers.

Answer: [Solution](#)

12. How to get the third node of a linked list?

Answer: [Solution](#)

13. How to search for a specific value in a linked list?

Answer: [Solution](#)

14. How to remove special characters in a string that is in lowercase?

Answer: [Solution](#)

15. How to find multiple missing numbers in a given integer array with duplicates?

Answer: [Solution](#)

16. How to find all permutations of String?

Answer: [Solution](#)

17. writes a program for Sudoku.

Answer: [Solution](#)

18. How to check if a given number is a Palindrome?

Answer: [Solution](#)

19. How to calculate the average of all numbers in a given array?

Answer: [Solution](#)

20. Write a Program to check if a given year is a leap year.

Answer: [Solution](#)

21. Write Program to check whether the number is Palindrome or not.

Answer: [Solution](#)

22. Write a Program to check whether the number is a Narcissistic number or not.

Answer: [Solution](#)

23. Write a Program to print all numbers of a list in a random manner and all numbers should be only one, without using any pre-defined function.

input :- a = [1,2,5,3,4,6,7,8,8,8,8,9,9,9];

output :- a = [2,4,9,7,1,3,6,5,8];

Answer: if you have Please comment below.

24. Find the Fastest way to find an index of elements in a list.
(ex:-binary search)

input :- var list =[1,2,3,4,5,6,7,8,9,10,11,12,13,14];

var numFind =2;

output:- 1 Index

Answer:- [Solution](#)

25. Find the sum of all natural numbers without using any regression or any loop.

Answer:- [Solution](#)

26. Find the nearest smaller numbers on the left side in an array.

Answer:- [Solution](#)

27. Find the minimum number of coins that make a given value.

Input: $V = 70$

Output: 2

We need a 50 Rs note and a 20 Rs note.

Answer:- [Solution](#)

28. Find the index of two array elements whose sum is equal to the given value

Coding interview questions for arrays

1. How do remove duplicates from a given array?

([solution](#))

2. How do you search for a target value in a rotated array?

([solution](#))

3. How do you find the missing number in a given integer array of 1 to 100? ([solution](#))

4. How do you find the duplicate number on a given integer array?

([solution](#))

5. How do you find the largest and smallest number in an unsorted integer array?

([solution](#))

6. How do you find all pairs of an integer array whose sum is equal to a given number?

([solution](#))

7. How do you remove duplicates from an array in place?

([solution](#))

8. How to rotate an array left and right by a given number K?

([solution](#))

9. How do you find duplicates from an unsorted array?

([solution](#))

10. Given an array of integers sorted in ascending order, find the starting and ending position of a given value.

([solution](#))

11. Given an unsorted array of integers, find the length of the longest consecutive elements sequence.

([solution](#))

12. How is an integer array sorted in place using the quicksort algorithm? ([solution](#))

13. Given an integer array, find the contiguous subarray (containing at least one number) which has the largest sum and return its sum.

([solution](#))

14. How do you reverse an array in place in Java?

([solution](#))

15. How are duplicates removed from an array without using any library? ([solution](#))
16. How to convert a byte array to a String? ([solution](#))
17. What is the difference between an array and a linked list? ([solution](#))
18. How do you perform a binary search in a given array? ([solution](#))
19. How to find a median of two sorted arrays? ([solution](#))
20. How do you find duplicate numbers in an array if it contains multiple duplicates? ([solution](#))

Coding interview questions about linked lists

1. How do you reverse a linked list? ([solution](#))
2. How to add an element in the middle of the linked list? ([solution](#))
3. How to find the node at which the intersection of two singly linked lists begins. ([solution](#))

4. How to check if a given linked list is a palindrome or not?
([solution](#))
5. How do you find the middle element of a singly linked list in one pass? ([solution](#))
6. How do you check if a given linked list contains a cycle? How do you find the starting node of the cycle?
([solution](#))
7. How do you find the third node from the end in a singly linked list? ([solution](#))
8. How do you find the sum of two linked lists using Stack?
([solution](#))
9. How to Delete all occurrences of a given key in a linked list?
([solution](#))
10. How do you reverse a linked list?
([solution](#))
11. How do you sort a linked list in Java?
([solution](#))
12. What is the difference between the array and linked list?
([Solution](#))
13. How to remove Nth Node from the end of a linked list?
([solution](#))

14. How to merge two sorted linked lists?
([solution](#))
15. How to convert a sorted list to a binary search tree?
([solution](#))
16. Given a linked list and a value x , partition it such that all nodes less than x come before nodes greater than or equal to x .
([solution](#))
17. How to remove duplicates from a sorted linked list?
([solution](#))
18. How do you reverse a singly linked list without recursion?
([solution](#))
19. How are duplicate nodes removed in an unsorted linked list?
([solution](#))
20. How do you find the length of a singly linked list?
([solution](#))

Coding interview questions for strings

1. How do you reverse a given string in place?
([solution](#))
2. How do you print duplicate characters from a string?
([solution](#))

3. How do you check if two strings are anagrams of each other?
([solution](#))
4. How do you find all the permutations of a string?
([solution](#))
5. How can a given string be reversed using recursion?
([solution](#))
6. How do you check if a string contains only digits?
([solution](#))
7. How do you find duplicate characters in a given string?
([solution](#))
8. How do you count the number of vowels and consonants in a given string? ([solution](#))
9. How do you count the occurrence of a given character in a string? ([solution](#))
10. How do you print the first non-repeated character from a string?
([solution](#))
11. How do you convert a given String into int like the atoi()? ([solution](#))
12. How do you reverse words in a given sentence without using any library method?
([solution](#))

13. How do you check if two strings are a rotation of each other?
([solution](#))
14. How do you check if a given string is a palindrome?
([solution](#))
15. How to find the length of the longest substring without repeating characters?
([solution](#))
16. Given a string, find the maximum length contiguous substring of it that is also a palindrome. For example, the longest palindromic substring of “bananas” is “anana”, and the longest palindromic substring of “abdcdbcdbdcbbc” is “bdcdbdcdb”.
([solution](#))
17. How to convert a byte array to a String?
([solution](#))
18. how do remove the duplicate character from String?
([solution](#))
19. How to find the maximum occurring character in a given String? ([solution](#))
20. How do you remove a given character from a String?
([solution](#))

Coding interview questions for Binary Tree

1. How do you implement a postorder traversal algorithm?
([solution](#))
2. How do you traverse a binary tree in postorder traversal without recursion?
([solution](#))
3. How are all leaves of a binary search tree printed?
([solution](#))
4. How do you count the number of leaf nodes in a given binary tree? ([solution](#))
5. You have given a BST, where two nodes are swapped? How do you recover the original BST?
([solution](#))
6. How is a binary search tree implemented?
([solution](#))
7. How do you perform preorder traversal in a given binary tree?
([solution](#))
8. How do you traverse a given binary tree in preorder without recursion? ([solution](#))
9. How do you perform an inorder traversal in a given binary tree?
([solution](#))

10. How do you print all nodes of a given binary tree using inorder traversal without recursion?
([solution](#))
11. How do you convert a binary tree to a binary search tree?
([solution](#))
12. Find the largest BST subtree of a given binary tree.
([solution](#))
13. Write a program to connect nodes at the same level as a binary tree. ([solution](#))
14. What is a Trie data structure?
([solution](#))
15. How do you perform a binary search in a given array?
([solution](#))
16. How to Convert a given Binary Tree to a Doubly Linked List?
([solution](#))
17. Write a Program to Find the Maximum Depth or Height of a Tree.
([solution](#))
18. What is the difference between binary and binary search trees?
([solution](#))

19. What is a Self-Balancing Binary Search Trees?

[\(solution\)](#)

20. What is the AVL Tree?

[\(solution\)](#)

Coding interview questions for Graph

1. Print Adjacency List for a Directed Graph.

[\(solution\)](#)

2. what is the Difference between BFS and DFS?

[\(solution\)](#)

3. Write a to Count all possible paths between two vertices.

[\(solution\)](#)

4. Find the minimum number of throws required to win a given Snakes and Ladders board game.

[\(solution\)](#)

5. Find a Word in a 2D Grid of characters.

[\(solution\)](#)

6. Find the Distance of the nearest cell having 1 in a binary matrix.

[\(solution\)](#)

7. Find the number of islands.

[\(solution\)](#)

8. Find a Mother Vertex in a Graph.

[\(solution\)](#)

9. Implement Dijkstra's Algorithm

[\(solution\)](#)

10. Find the most similar path in a graph.

[\(solution\)](#)

11. Given a sorted dictionary of an alien language, find the order of characters.

[\(solution\)](#)

12. Check whether a given graph is Bipartite or not.

[\(solution\)](#)

13. Keys and Rooms question.

[\(solution\)](#)

14. question on Articulation Points (or Cut Vertices) in a Graph.

[\(solution\)](#)

15. Tarjan's Algorithm to find Strongly Connected Components.

[\(solution\)](#)

16. How to find all bridges in a graph?

[\(solution\)](#)

17. what is Maximum Bipartite Matching?

[\(solution\)](#)

18. Find all possible worlds in a board of characters(Boggle)
([solution](#))
19. Given a matrix of 'O' and 'X', replace 'O' with 'X' if surrounded by 'X'.
([solution](#))
20. find the Shortest path to reach one prime to another by changing a single digit at a time.
([solution](#))