

50 Interview Question For Data Structures & Algorithms



- Reverse an array in place in Java?
- Find multiple missing numbers in a given integer array with duplicates?
- Perform a binary search in a given array?
- Transpose a Matrix?
- Add or subtract two Matrices?
- Multiply two Matrices in Java?
- Calculate the average of all numbers in a given array?
- Find the middle element of a singly linked list in one pass?
- Find GCD of two numbers using Euclid's Algorithm?



- Print duplicate characters from String?
- Check if two Strings are anagrams of each other?
- Print first non repeated character from String?
- Reverse a given String using recursion?
- Check if a String contains only digits?
- Find duplicate characters in a String?
- Count a number of vowels and consonants in a given String?
- Implement the Insertion Sort Algorithm?



- Check if a given linked list contains a cycle? How to find the starting node of the cycle?
- Find the length of a singly linked list?
- Reverse a linked list?
- Reverse a singly linked list without recursion?
- Remove duplicate nodes in an unsorted linked list?
- Find the sum of two linked lists using Stack?
- How do you implement a Queue using two Stacks?



- How do you implement Stack using Queues?
- Given a binary tree, return the postorder traversal of its nodes' values, using Stack?
- Difference between Stack and Queue data structure
- Implement the Bubble Sort algorithm?
- Implement Iterative QuickSort Algorithm?
- Implement the Bucket Sort Algorithm?
- Implement the Counting Sort Algorithm?



- The largest and smallest number in an unsorted integer array?
- Find all pairs of integer array whose sum is equal to a given number?
- Find duplicate numbers in an array if it contains multiple duplicates?
- Remove duplicates from the given array in Java?
- Sort an integer array in place using the QuickSort algorithm?
- Remove duplicates from an array in place?
- Implement the Radix Sort Algorithm?
- Implement Sieve of Eratosthenes Algorithm to find Prime numbers?



- Count the occurrence of a given character in String?
- Find all permutations of String?
- Reverse words in a given sentence without using any library method?
- Check if two String is a rotation of each other?
- Check if the given String is Palindrome?
- Find a missing number in a given integer array of 1 to 100?
- Find the duplicate number on a given integer array?
- Implement a Merge Sort Algorithm?

