GOFRUGAL TECHNICAL INTERVIEW QUESTIONS

1. Rotate matrix: Given an image represented by a N\*N matrix, where each pixel in the image is 4 bytes, write a method to rotate the image 90 degrees. Can you do this in place?
2. Implement a function to check if a linked list is palindrome or not.
3. Write an algorithm to print all ways of arranging eight queens on an 8\*8 chess board so that none of them share the same row, column, or diagonal. In this case, “diagonal”, means all diagonals, not just the two that bisect the board.

1. What is the significance of the key “volatile” in C?
2. How can you sort the elements of the array in descending order
3. Print n space separated integers such that odd numbers will come after the even numbers in the list.
4. Write a C program to convert a decimal number to binary and print the count of 1's in it. If 1's are not present in binary number, then print invalid input.
5. Print Prime number series for the given integer.
6. A string contains multiple characters which are repeated consecutively. Write a program that reduces the size of the string using given mathematical logic.

Sample Test Case:

Input:

aaabbbcccddeeeffggg

Output:

a3b3c3d2e3f2g3

10) Write a function FindMaxInArray, which finds the largest number in an array with its index.

The largest number and its index should be printed in separate lines.

Sample Test Cases :

INPUT:

35 42 67 57 11 12 45 94 55 87

OUTPUT:

94

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11) Program to check whether the number is Prime or Not