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ROUND 1: Aptitude questions – both Quantitative aptitude and in programming. they were NOT MCQs

ROUND 2:

1. Arrange the numbers in descending order depending on the no. of factors available for each number.

I/P: {6,8,9}

O/P: {8,6,9} or {6,8,9}

Reason: factors of 8 (1,2,4,8), factors of 6 (1,2,3,6), factors of 9 (1,3,9).

2. Two strings of equal length are given print the mismatched ones.

I/P: a b c d e f g h i

a b d e e g g i i

O/P: cd , de //when two char are mismatched they should be printed together.

f , g

h , i

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Implement a stack with push(), pop() and min() in O(1) time
Add two numbers represented by linked lists
Level Order traversal
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Key Pair
Is Binary Number Multiple of 3

3. Get a number and check whether its palindrome do not use arrays and string manipulations

I/P: 5

O/P: 101-Palindrome

Reason: binary representation of 5 is 101 & it is a palindrome.

I/P: 10

O/P: Binary representation of 10 is 1010 –Not a palindrome

4. For any given matrix find the path from the start to the end which gives the maximum sum. Traverse only right or down.

Example: starting index is 15 (left top) and ending index is 10 (bottom right)

15 25 30

45 25 60

70 75 10

O/P:15->45->70->75->10 sum is 215

5. [['Lava' , 'kusha' ,

['Rama' , 'Lava'] ,

['Lava ' , 'Ravanan'] ,

['Abi' , 'Lava']]

First string is the child & the second string is the parent. Print the no. of grand children available for the given I/P.

I/P: Ravanan

O/P: 2

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