

**Walmart Labs Interview Experience ( On Campus FT + 6 month Internship )**

Sum of GCD of all possible sequences

Longest permutation subsequence in a given array

Number of ways to write N as a sum of K non-negative integers

Probability of getting K heads in N coin tosses

Total number of BSTs using array elements

Sum of all subsequences of length K

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Round 1 (Online Coding and MCQs):-

The test was held on HackerEarth and was of 90 minutes. It consisted of 3 Coding Problem (100 Marks) . The Coding Problem was of medium difficulty.

Question 1. <https://practice.geeksforgeeks.org/problems/optimal-walk/> (35 Marks )

Question 2. Given X, Y, K, P, Q, where X is the number of unique alphabets, Y is the number of unique digits we have to form a string of length K with the following constraints :

1. string must start with an alphabet
2. must contain P number of alphabets
3. must contain Q number of digits

$$P+Q = K ;$$

$$1 \leq X \leq 26$$

$$1 \leq Y \leq 10$$

$$1 \leq K \leq 35$$

$$1 \leq P+Q \leq K ;$$

Count ways to reach the Nth stair using multiple 1 or 2 steps and a single step 3

Count rotations which are divisible by 10

Number of pairs such that path between pairs has the two vertices A and B

Number of subsets with same AND, OR and XOR values in an Array

Count numbers in a range with digit sum divisible by K having first and last digit different

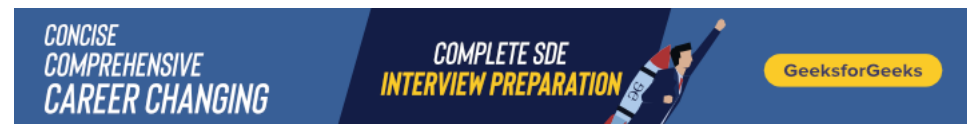
Count number of triangles possible for the given sides range

Count numbers less than N containing digits

Ex. K=25, Y=5, K=2, P=1, Q=1;  
ans = 125

Question 3 : given string s1 and s2, we have to transform s1 to palindrome such that s1 contain s2 as substring in minimum operation, where operation is we can convert any character to an other character . print -1 if not possible .

Ex. : s1 = arbcd, s2 = ar  
output : 2  
s1 = aaaaa, s2 = bbb  
output : 3



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from the given set : Digit DP

Number of ways to place two queens on a  $N \times N$  chess-board

Count of Binary strings of length  $N$  having atmost  $M$  consecutive 1s or 0s alternatively exactly  $K$  times

Find the Number of Permutations that satisfy the given condition in an array

Count numbers with exactly  $K$  non-zero digits and distinct odd digit sum

Count of distinct XORs formed by rearranging two Binary strings

Total number of Subsets of size at most  $K$

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### Most popular in Combinatorial

Count distinct median possible for an Array using given ranges of elements

Count the numbers with N digits and whose suffix is divisible by K

Number of ways to color N-K blocks using given operation

Print the two possible permutations from a given sequence

Count the number of ways to fill K boxes with N distinct items

Count of common subarrays in two different permutations of 1 to N

Count of K-size substrings having palindromic permutations

Find sum of xor of all unordered triplets of the array

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Count of integers up to N which represent a Binary number

Number of quadrilateral formed with N distinct points on circumference of Circle

Count of non-palindromic strings of length M using given N characters

Number of ways to arrange N numbers which are in a range from 1 to K under given constraints.

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2018

On Campus

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Product of all sorted subsets of size K using elements whose index divide K completely

Maximum number of strings that can be formed with given zeros and ones

Sort decreasing permutation of N using triple swaps

### Most visited in Dynamic Programming

Minimum salary hike for each employee such that no employee feels unfair

Find if there is a path between two vertices in an undirected graph

Longest subarray whose elements can be made equal by maximum K increments

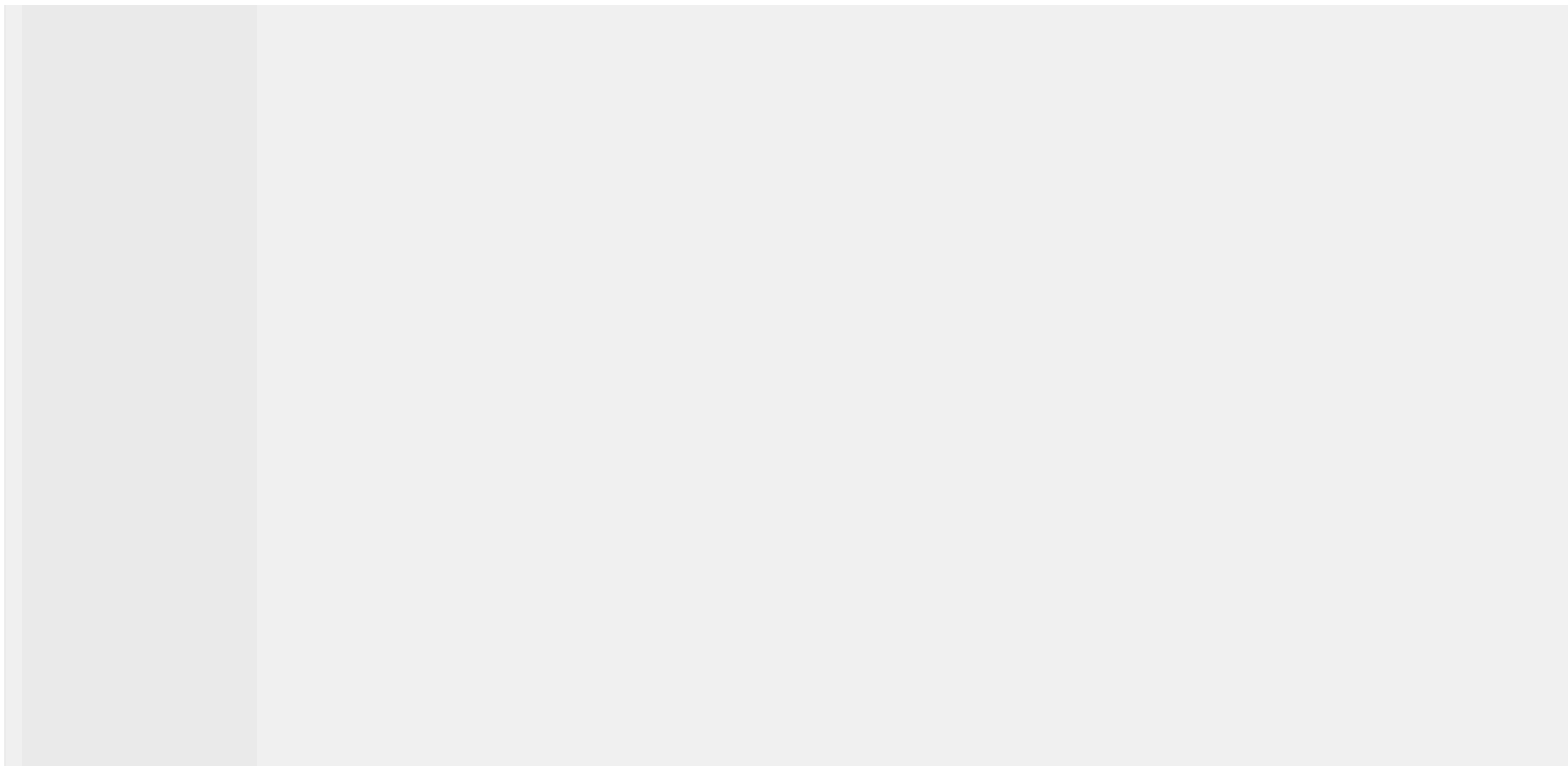
Median of sliding window in an array

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