

Activities

Firefox Web Browser

Sun 19:54

Problems - MakeMyTrip Java Developer Hiring Challenge - Mozilla Firefox

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Problems - MakeMyTrip

ThoughtWorks Application

Java Round up to Lower value

Converting an integer to a binary string

string - Convert character to integer

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MakeMyTrip Java Developer Hiring Challenge

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Help

End Test

3 Questions

Total Marks: 300.0

3 Programming Questions

1. Poisonous gas

2. Candies

3. Bob And Array Queries

Candies

You are given a string S consisting of lowercase English letters denoting different types of candies. A substring of a string S is a string S' that occurs in S . For example, "bam" is a substring of "babammm". Each candy costs 1 unit. You can pick some continuous candies such that you can create a palindrome of length K by using some or all picked candies. Your task is to find the minimum cost to create a palindrome of length K .

Input Format:

First line contains string S .

Next line contains an integer T denoting the number of test cases.

Next T lines contain a single integer K .

Output Format:

For each test case, print minimum cost as mentioned above. If you cannot create a palindrome of length K then, simply print -1.

Constraints:

$1 \leq |S| \leq 10^5$

$1 \leq T \leq 10$

$1 \leq K \leq 10^5$

Sample Input

babamm

2

2

5

Sample Output

2

5

Explanation

Test Case 1: You can pick candies denoted by "mm" and create a palindrome of size 2. So the cost will be 2 units.

Test Case 2: You can pick candies denoted by "babam" and rearrange them, "bamab", to create a palindrome of size 5. So the cost will be 5 units.

Note: Your code should be able to convert the sample input into the sample output. However, this is not enough to pass the challenge, because the code will be run on multiple test cases. Therefore, your code must solve this problem statement.

Time Limit: 1.0 second for each input file

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