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+ Problem Description

Tahir and Mamta are working in a project in TCS. Tahir being a problem solver came up with an interesting problem for his friend Mamta.

Problem consists of a string of length N and contains only small case alphabets.

It will be followed by Q queries, in which each query will contain an integer P ($1 \leq P \leq N$) denoting a position within the string.

Mamta's task is to find the alphabet present at that location and determine the number of occurrence of same alphabet preceding the given location P .

Mamta is busy with her office work. Therefore, she asked you to help her.

+ Constraints

 $1 \leq N \leq 500000$ S consisting of small case alphabets $1 \leq Q \leq 10000$ $1 \leq P \leq N$

+ Input Format

First line contains an integer N , denoting the length of string.

Second line contains string S itself consists of small case alphabets only ('a' - 'z').

Third line contains an integer Q denoting number of queries that will be asked.

Next Q lines contains an integer P ($1 \leq P \leq N$) for which you need to find the number occurrence of character present at the P th location preceding P .

+ Output

For each query, print an integer denoting the answer on single line.

+ Time Limit

1

+ Explanation

Example 1

Input

9

abacsddaa

2

9

3

Output

3

1

Explanation

Here Q = 2

For P=9, character at 9th location is 'a'. Number of occurrences of 'a' before P i.e., 9 is three.

Similarly for P=3, 3rd character is 'a'. Number of occurrences of 'a' before P. i.e., 3 is one.

Upload Solution [Question : F]

☐ I, **YASHRAJ DIGHE** confirm that the answer submitted is my own.

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