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# Coding Area

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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.

### + Test Case

### + 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 : A ]

☐ I, **chukka bharath** confirm that the answer submitted is my own.

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