Description   **My Submissions**   **Hints/Editorial**   **AC Submissions**   **Video Editorials**   **My Notes (0)**

Distinct Characters AZ101

🔖   **? Ask Doubt**

⏱ Time-Limit: 1 sec   ✏ Score: 1.00/100   Difficulty : ⭐⭐

▥ Memory: 256 MB   ✅ Accepted Submissions: 100

Description

You are given a string S. You are given Q queries of two types, asking the number of distinct characters in the range [L, R] and changing the i-th character to c. (1-based indexing)

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test contains a string S.

The second line of each test case contains one integer Q - the number of queries.

Each of the next Q lines contain two types of queries: either 1 i c or 2 L R. The query 1 is for changing the i-th character to c and the query 2 is for finding the number of distinct characters in the range [L, R].

Output Format

For each test case, print the required queries.

Constraints

$1 \leq T \leq 10^5$

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

$1 \leq Q \leq 10^6$

$1 \leq A_i \leq 10^5$

It is guaranteed that the sum of |S| and the sum of Q over all test cases does not exceed 10^5.

Sample Input 1

⧉ Copy

```
2
abbac
3
2 1 3
1 2 c
2 1 4
flower
4
2 2 5
1 3 l
```

C++14[GCC] ▾

🔄 ⧉ ⬆   **Submit**

1