

1903 - I2P(II)Yang_Winter_Vacation_Homework_2020

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12612 - Queries on a String

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Description

Problem from Codeforces Education round 1
<https://codeforces.com/contest/598/problem/B>

You are given a string **s** and should process **m** queries. Each query is described by two 1-based indices **li**, **ri** and integer **ki**. It means that you should cyclically shift the substring **s[li... ri]** **ki** times. The queries should be processed one after another in the order they are given.

One operation of a cyclic shift (rotation) is equivalent to moving the last character to the position of the first character and shifting all other characters one position to the right.

For example, if the string **s** is "abacaba" and the query is **l1** = 3, **r1** = 6, **k1** = 1 then the answer is "abbacaa". If after that we would process the query **l2** = 1, **r2** = 4, **k2** = 2 then we would get the string "baabcaa".

Input

The first line of the input contains the string **s** ($1 \leq |\mathbf{s}| \leq 10000$) in its initial state, where $|\mathbf{s}|$ stands for the length of **s**. It contains only lowercase English letters.

Second line contains a single integer **m** ($1 \leq \mathbf{m} \leq 300$) — the number of queries.

The **i**-th of the next **m** lines contains three integers **li**, **ri** and **ki** ($1 \leq \mathbf{li} \leq \mathbf{ri} \leq |\mathbf{s}|$, $1 \leq \mathbf{ki} \leq 1000000$) — the description of the **i**-th query.

Output

Print the resulting string **s** after processing all **m** queries.

Sample Input

Download (data:text/plain;charset=utf-8,abacaba%0D%0A2%0D%0A3%206%201%0D%0A1%204%202)

```
abacaba
2
3 6 1
1 4 2
```

Sample Output

Download (data:text/plain;charset=utf-8,baabcaa)

```
baabcaa
```

Discuss