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# 13692 - Aftermath's Ideology

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### Description

Given a string s that consists of only lowercase Latin characters, there are Q operations to apply on this string.

There are 3 types of operations, with the following 3 forms:

- 1 A B
- 2 id C
- $3 id_a id_b$

For operation of type 1, you have to turn every A in the given string to B.

For operation of type 2, you have to set the idth character to C.

For operation of type 3, you have to swap the  $id_a$ th character and the  $id_b$ th character.

After the Q operations, you should print the resulting string in one line(remember to print a new line character).

### Input

The first line contains a string s, which consists of only lowercase Latin characters.

The second line contains an integer Q.

The next Q lines, each contains an operation

#### Constraints

- $1 \leq |s| \leq 10^6$
- $1 \le Q \le 10^5$
- $0 \leq id, id_a, id_b \leq |s|-1$
- $A, B, C \in \{a \dots z\}$

### Output

Print your answer in one line and end with a newline character.

### Sample Input

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```
# Sample Input 1
cewodaxnjv
10
3 1 8
3 4 5
21 i
1 c t
1bo
1 y x
1 d w
27 f
27 o
1 o d
# Sample Input 2
mrxsjdtkwivtwemvtwwk
3 5 13
1ro
1 d o
3 16 15
2 13 f
# Sample Input 3
upqyosptnpbbezwxaufzms
1 j d
3 14 3
1 t o
29 m
2 16 k
# Sample Input 4
klerprafhnravjgzhrglqe
10
3 15 19
1 h v
1rc
3 7 13
2 11 u
2 14 y
2 21 q
2 21 p
1 x e
1 q i
```

## Sample Output

# Sample Output 1
tiwdawxdev
# Sample Output 2
moxsjetkwivtwfmtvwwk
# Sample Output 3
upqwosponmbbezyxkufzms
# Sample Output 4
klecpcajvncuvfylvcgzip

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Discuss