HOME   TOP   CATALOG   CONTESTS   GYM   PROBLEMSET   GROUPS   RATING   EDU   API   CALENDAR   HELP   ICPC CHALLENGE 🏆

PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

C. permutations

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

you have an string s of length n and q queries .each query is one of two type:

- $next\_permutation$ x : mean print the next permutation of s after x step.
- $prev\_permutation$ x : mean print the previous permutation of s after x step.

Input
The first line of input contains two integers n,q $(1 \leq n, q \leq 100)$. The second line contains the string s. The next q lines contains the queries. $(1 \leq x \leq 100)$.

Output
print the string after each query in one line.

Example

input	Copy

```
9 6
yqcnsfzpp
prev_permutation 7
next_permutation 5
prev_permutation 9
prev_permutation 6
prev_permutation 7
next_permutation 1
```

output	Copy

```
yqcnpzfsp
yqcnsfppz
yqcnpspzf
yqcnppszf
yqcnpfspz
yqcnpfszp
```