

## A. String Functions

time limit per test: 1 second  
memory limit per test: 256 megabytes  
input: standard input  
output: standard output

Given two numbers  $N$ ,  $Q$  and a string  $S$  of size  $N$ . Followed by  $Q$  lines of the following queries:

- **pop\_back** : remove the last character in the string.
- **front** : print the first character in the string.
- **back** : print the last character in the string.
- **sort l r** : where  $(1 \leq l, r \leq |S|)$  sort all characters of  $S$  from  $l$  to  $r$ .
- **reverse l r** : where  $(1 \leq l, r \leq |S|)$  reverse all characters of  $S$  from  $l$  to  $r$ .
- **print pos** : where  $(1 \leq pos \leq |S|)$  print the character in the index  $pos$ .
- **substr l r** : where  $(1 \leq l, r \leq |S|)$  print sub-string of  $s$  from  $l$  to  $r$ .
- **push\_back x** : add character  $x$  in the end of the string.

For each query, print the answer associated with it in a single line.

It's guaranteed that in the first 7 types of the query, the string is not empty.

it's recommended to use built-in functions of String.

### Input

The first line contains two integers  $N$ ,  $Q$   $(1 \leq N, Q \leq 10^3)$   $N$  denoting the size of the string and  $Q$  number of queries.

The second line contains the string  $S$  consists of only **lowercase** English letters.

Next  $Q$  lines contain the queries.

### Output

For each query, print the answer associated with it in a single line.

### Example

<b>input</b>	Copy
18 8 assiutinupperegypt substr 1 6 sort 5 8 pop_back back reverse 1 6 front push_back i print 4	
<b>output</b>	Copy
assiut p n s	

### ICPC Assiut University Training - Standard - Juniors Phase 1

Public
Participant


### → Group Contests

- Standard #5 (Bits , bit-masking )
- Standard #4 (Binary search , two pointers )
- Standard #3 (set , sorting, compare function , map )
- Standard #2 (binary search , stack , queue, deque , priority queue)
- Standard #1 (Frequency , prefix sum , vector , pair ,struct)

### Standard #2 (binary search , stack , queue, deque , priority queue).


Finished
Practice


### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

### → Submit?

Language: GNU G++20 11.2.0 (64 bit, w 

Choose file: 

Choose File

 No file chosen

Submit

### → Last submissions

Submission	Time	Verdict
<a href="#">226483185</a>	Oct/03/2023 20:50	Accepted
<a href="#">226483062</a>	Oct/03/2023 20:49	Accepted