

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

A. Bits Operation

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

You have a number n and q queries.

- 1 x : change n to $n \mid x$,where \mid is bitwise *or* .
- 2 x : change n to $n \& x$,where $\&$ is bitwise *and* .
- 3 x : change n to $n \oplus x$,where \oplus is bitwise *xor* .
- 4: change n to $\sim n$,where \sim is bitwise *not* .

Input

The first line of input contains two number q, n ($1 \leq q \leq 10^5, -10^9 \leq n \leq 10^9$).

The next q lines one type of query. ($-10^9 \leq x \leq 10^9$).

Output

print q lines, the i^{th} line contains the value of n after the i^{th} update.

Example

input	Copy
4 5 1 2 2 1 3 1 4	
output	Copy
7 1 0 -1	

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 #5 (Bits , bit-masking .)

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
228212965	Oct/14/2023 21:58	Accepted
226729827	Oct/05/2023 14:51	Accepted

