ICPC Assiut University Community





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

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

B. Bitmask 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: means print value of bit x.
- 2x: means change bit x to 1, and then print n.
- 3 x: means change bit x to 0, and then print n.
- 4x: mean if bit x equal 0 change to 1 and if it 1 change to 0. and then print n.

Input

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

The next q lines one type of query. $(0 \le x < 32)$.

Output

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

Example



<u>ICPC Assiut University Training -</u> <u>Standard - Juniors Phase 1</u>

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



ightarrow 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

Start virtual contest

communicate with other person during a

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
228213195	Oct/14/2023 22:00	Accepted
226779069	Oct/05/2023 20:52	Accepted
226778727	Oct/05/2023 20:50	Wrong answer on test 1
226731726	Oct/05/2023 15:06	Accepted