# **ICPC Assiut University Community**

**Juniors Phase 1 Training , Do Your Best** 



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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  $q, n \ (1 \le q \le 10^5, -10^9 \le n \le 10^9)$ .

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

#### **Output**

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

## **Example**



# <u>ICPC Assiut University Training - 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)

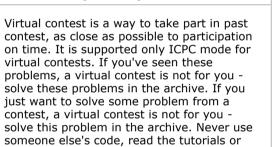
# Standard #5 (Bits, bit-masking)

#### **Finished**

#### Practice



# → Virtual participation



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

ightarrow Last submissions		
Submission	Time	Verdict
228212965	Oct/14/2023 21:58	Accepted
226729827	Oct/05/2023 14:51	Accepted

