



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

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## A. Distinct Xor Subsequences

time limit per test: 1 second memory limit per test: 256 megabytes

You are given a sequence of n integers  $a_1, a_2, \ldots, a_n$  .

Count the **distinct** numbers you can produce by choosing any subsequence from a and calculate their bitwise XOR. The chosen subsequence can be empty.

### Input

The first line of input contains a single integer n ( $1 \le n \le 10^5$ ).

Then, the second line contains n integers  $a_1,\ldots,a_n$   $(0 \le a_i < 2^{60})$ .

### **Output**

Print a line of a single integer denoting the answer.

### **Examples**

input	Сору
4	
7 2 1 5	
output	Сору
8	
input	Сору
7	
1 1 1 1 1 1 1	
output	Сору
2	

## Introductory Problems: XOR Basis 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





→ Last submissions		
Submission	Time	Verdict
325906186	Jun/24/2025 19:52	Accepted
325905920	Jun/24/2025 19:50	Time limit exceeded on test 12
325903613	Jun/24/2025 19:34	Runtime error on test 12
325903423	Jun/24/2025 19:32	Runtime error on test 12

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The only programming contests Web 2.0 platform
Server time: Jun/25/2025 23:50:17 (k1).
Desktop version, switch to <u>mobile version</u>.

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