

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

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

275. To xor or not to xor

time limit per test: 0.25 sec.
memory limit per test: 65536 KB
input: standard
output: standard

The sequence of non-negative integers A1, A2, ..., AN is given. You are to find some subsequence Ai_1 , Ai_2 , ..., Ai_k (1 <= $i_1 < i_2 < ... < i_k <= N$) such, that Ai_1 XOR Ai_2 XOR ... XOR Ai_k has a maximum value.

Input

The first line of the input file contains the integer number N (1 \leq N \leq 100). The second line contains the sequence A1, A2, ..., AN (0 \leq Ai \leq 10^18).

Output

Write to the output file a single integer number -- the maximum possible value of Ai₁ XOR Ai₂ XOR ... XOR Ai_k.

Sample test(s)

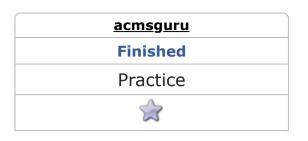
Input

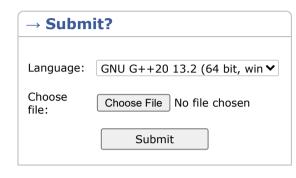
11 9 5

Output

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Resource:	ACM ICPC 2004-2005, NEERC, Southern Subregional Contest
Date:	Saratov, October 7, 2004





→ Last submissions				
Submission	Time	Verdict		
237468801	Dec/16/2023 17:30	Accepted		
236124910	Dec/07/2023 01:32	Accepted		

→ Problem tags	
No tags yet	No tag edit access

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