

G. 神秘交叉 *Intersect*

time limit 2s

memory limit 256MB

Statement

給定一個長度為 n 的數列 $\langle a \rangle$ ，試求 $\max(\{f(l,r) | 1 \leq l \leq r \leq n \wedge l, r \in \mathbb{N}\})$ ，其中 $f(l,r) \equiv a_l \oplus a_{l+1} \oplus \dots \oplus a_{r-1} \oplus a_r$

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Input

n

$a_1 \ a_2 \ \dots \ a_n$

Output

Ans

Sample Input 1

```
3
4 1 9
```

Sample Output 1

```
12
```

Sample Input 2

```
7
412401279450576652 580784719358114359 357424042474072598 638120460316099882
402905540305957455 557218558427174880 762984001351336261
```

Sample Output 2

```
1009394896808872595
```

Note

- $1 \leq n \leq 10^5$
- $1 \leq a_i \leq 10^{18}, \forall 1 \leq i \leq n$

Subtask

- **subtask1:** 37% $n \leq 1000$
- **subtask2:** 63% **As statement**