Bit-Manipulation







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Something on 10014.



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You will not see the change until you start. The night day to start is TODAY.

It's never too late.
Go for it, you can do it...

#

1829. Maximum XOR for Each Query

You are given a **sorted** array nums of n non-negative integers and an integer maximumBit. You want to perform the following query n **times**:

- 1. Find a non-negative integer $k < 2^{maximumBit}$ such that nums[0] XOR nums[1] XOR ... XOR nums[nums.length-1] XOR k is maximized. k is the answer to the i^{th} query.
- 2. Remove the **last** element from the current array nums.

Return an array answer, where answer[i] is the answer to the ith query.

Example: nums =
$$[0, 1, 1, 3], n = 4$$

maximumBil = 2
 $K = 0, 1, 2, 3$

Output:-
$$\begin{bmatrix} 0, & 3, & 2 \\ 1 & 1 \end{bmatrix}$$

$$0 <= \text{numfil} < 2^{\text{meth}}$$

$$0 \land 1) = 1$$

Thought Process

nums =
$$\begin{bmatrix} 0 \\ 1 \end{bmatrix}$$
, $\begin{bmatrix} 1 \\ 2 \end{bmatrix}$, MBit = 2

$$XOR = O \land 1 \land 1 \land 2 = 2 \longrightarrow "O1"$$

How to flip ???

nums =
$$\begin{bmatrix} 0, & 1, & 2 \end{bmatrix}$$
, maxBit = 2

XOR = DAIA 1A2 = 2

$$0 \le n < (i) \le \frac{2^2}{2^2 - 1}$$

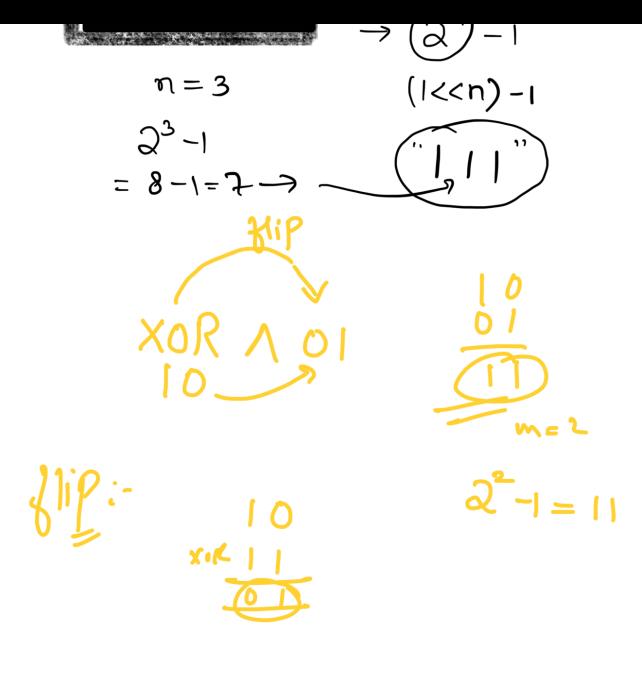
$$= 3 = (1)$$

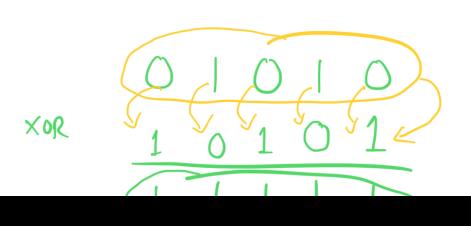




Youtube short ...







Hip

