Bit-Manipulation







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Find the Original
Area of Predix Xor





2433. Find The Original Array of Prefix Xor

Medium





You are given an integer array pref of size n. Find and return the array arr of size n that satisfies:

Note that denotes the **bitwise-xor** operation.

It can be proven that the answer is unique.

Example:
$$pre=\begin{bmatrix} 5, 2, 0, \frac{3}{1}, \frac{1}{1} \end{bmatrix}$$

$$Out = \begin{bmatrix} 5, 7, 2, 3, 2 \end{bmatrix}$$

$$Pre([4] \land Pre([3] = aur(i)) \begin{cases} 5 = a_0 \\ 2 = a_0 \land a_1 \\ 0 = a_0 \land a_1 \land a_2 \land a_3 \end{cases}$$

$$\frac{1}{2} = \begin{bmatrix} a_0 \land a_1 \land a_2 \land a_3 \land a_4 \end{cases}$$

$$\frac{1}{3} = \begin{bmatrix} a_0 \land a_1 \land a_2 \land a_3 \land a_4 \end{cases}$$

$$3 \wedge 1 = (\underline{\alpha}_0 \wedge \underline{\alpha}_1 \wedge \underline{\alpha}_2 \wedge \underline{\alpha}_3) \wedge (\underline{\alpha}_0 \wedge \underline{\alpha}_1 \wedge \underline{\alpha}_2 \wedge \underline{\alpha}_3 \wedge \underline{\alpha}_4)$$

$$= (a0,00) \land (a,001) \land (a$$

T.C. 0(n)

$$||F_{64}|| = ||(5, 7, 2, 3, 2)||$$



