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Min XOR value

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Given an integer array **A** of **N** integers, find the pair of integers in the array which have minimum **XOR** value. Report the minimum **XOR** value.

Input Format:

First and only argument of input contains an integer array A

Output Format:

return a single integer denoting minimum xor value

Constraints:

$2 \leq N \leq 100\,000$
 $0 \leq A[i] \leq 1\,000\,000\,000$

For Examples :

Example Input 1:
A = [0, 2, 5, 7]
Example Output 1:
2
Explanation:
0 xor 2 = 2
Example Input 2:
A = [0, 4, 7, 9]
Example Output 2:
3

[See Expected Output](#)