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2425. Bitwise XOR of All Pairings

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You are given two **0-indexed** arrays, `nums1` and `nums2`, consisting of non-negative integers. There exists another array, `nums3`, which contains the bitwise XOR of **all pairings** of integers between `nums1` and `nums2` (every integer in `nums1` is paired with every integer in `nums2` **exactly once**).

Return the **bitwise XOR** of all integers in `nums3`.

Example 1:

Input: `nums1 = [2,1,3]`, `nums2 = [10,2,5,0]`
Output: 13
Explanation:
A possible `nums3` array is `[8,0,7,2,11,3,4,1,9,1,6,3]`.
The bitwise XOR of all these numbers is 13, so we return 13.

Example 2:

Input: `nums1 = [1,2]`, `nums2 = [3,4]`
Output: 0
Explanation:
All possible pairs of bitwise XORs are `nums1[0] ^ nums2[0]`, `nums1[0] ^ nums2[1]`, `nums1[1] ^ nums2[0]`, and `nums1[1] ^ nums2[1]`.
Thus, one possible `nums3` array is `[2,5,1,6]`.
`2 ^ 5 ^ 1 ^ 6 = 0`, so we return 0.

Constraints:

- `1 <= nums1.length, nums2.length <= 105`
- `0 <= nums1[i], nums2[j] <= 109`

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Seen this question in a real interview before?

Yes

No

Show Hint 1

Show Hint 2

1class Solution {

2public int xorAllNums(int[] nums1, int[] nums2) {

3

4}

5}

...

...

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Problems

Pick One

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