3199. Count Triplets with Even XOR Set Bits I Premium Easy 🗘 Topics 📵 Companies 🗘 Hint Given three integer arrays a, b, and c, return the number of triplets (a[i], b[j], c[k]), such that the bitwise XOR of the elements of each triplet has an **even** number of set bits. Example 1: **Input:** a = [1], b = [2], c = [3]Output: 1 **Explanation:** The only triplet is (a[0], b[0], c[0]) and their XOR is: 1 XOR 2 XOR 3 = 00_2 . Example 2: **Input:** a = [1,1], b = [2,3], c = [1,5]Output: 4 **Explanation:** Consider these four triplets: • (a[0], b[1], c[0]): 1 XOR 3 XOR 1 = 0112 • (a[1], b[1], c[0]): 1 XOR 3 XOR 1 = 0112 • (a[0], b[0], c[1]): 1 XOR 2 XOR 5 = 1102 • (a[1], b[0], c[1]): 1 XOR 2 XOR 5 = 110₂ Constraints: • 1 <= a.length, b.length, c.length <= 100 • 0 <= a[i], b[i], c[i] <= 100 Seen this question in a real interview before? 1/5 Yes No Accepted 854 Submissions **1K** Acceptance Rate **84.5% O** Topics Array Bit Manipulation **Companies** 0 - 6 months Amazon 2 Q Hint 1

Discussion (0)

Iterate over all possible triplets and calculate its XOR.