## 2495. Number of Subarrays Having Even Product Premium Medium ♥ Topics ♀ Hint Given a **0-indexed** integer array nums, return the number of subarrays of nums having an even product. Example 1: **Input:** nums = [9,6,7,13]Output: 6 **Explanation:** There are 6 subarrays with an even product: - nums[0..1] = 9 \* 6 = 54.- nums[0..2] = 9 \* 6 \* 7 = 378.- nums[0..3] = 9 \* 6 \* 7 \* 13 = 4914.- nums[1..1] = 6.- nums[1..2] = 6 \* 7 = 42.- nums[1..3] = 6 \* 7 \* 13 = 546.Example 2: **Input:** nums = [7,3,5]Output: 0 Explanation: There are no subarrays with an even product. Constraints: • 1 <= nums.length <= 10<sup>5</sup> • 1 <= nums[i] <= 10<sup>5</sup> Seen this question in a real interview before? 1/5 Yes No Accepted 2K Submissions 3.1K Acceptance Rate 62.7% ♥ Topics Array Math Dynamic Programming O Hint 1 The product of elements in a subarray is even if it contains at least one even element. ♀ Hint 2 Iterate from left to right and save the last index of an even number. Let that saved index be "j". O Hint 3 It can be seen that every subarray starting from earlier than index "j" and ending at the current index has an even product.

Discussion (2)