1714. Sum Of Special Evenly-Spaced Elements In Array Premium Hard ♥ Topics ② Companies ۞ Hint You are given a **0-indexed** integer array nums consisting of n non-negative integers. You are also given an array queries, where queries $[i] = [x_i, y_i]$. The answer to the i^{th} query is the sum of all nums[j] where $x_i \ll j \ll n$ and $(j - x_i)$ is divisible by y_i . Return an array answer where answer.length == queries.length and answer[i] is the answer to the ith query modulo 109 + 7. Example 1: Input: nums = [0,1,2,3,4,5,6,7], queries = [[0,3],[5,1],[4,2]]Output: [9,18,10] **Explanation:** The answers of the queries are as follows: 1) The j indices that satisfy this query are 0, 3, and 6. nums[0] + nums[3] + nums[6] = 9 2) The j indices that satisfy this query are 5, 6, and 7. nums[5] + nums[6] + nums[7] = 18 3) The j indices that satisfy this query are 4 and 6. nums[4] + nums[6] = 10 Example 2: Input: nums = [100,200,101,201,102,202,103,203], queries = [[0,7]] Output: [303] Constraints: • n == nums.length • 1 <= n <= 5 * 10⁴ • 0 <= nums[i] <= 109 • 1 <= queries.length <= 1.5 * 10⁵ • $\emptyset \ll x_i < n$ • $1 \le y_i \le 5 * 10^4$ Seen this question in a real interview before? 1/5 Yes No Accepted 1.4K Submissions 2.9K Acceptance Rate 49.7% ♥ Topics Array Dynamic Programming € Companies 0 - 6 months MakeMyTrip 2 O Hint 1 Think if y cannot be small. You can solve a query in O(n/y), so if y is large enough, it won't be a problem. O Hint 2 If y is small, like less than B, you can preprocess the answers for all such ys in O(n * B), then answer each such query in O(1). O Hint 3 As you might have already guessed, the optimal value for B is ~sqrt(n). Discussion (0)