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100209. Mark Elements on Array by Performing Queries

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You are given a **0-indexed** array nums of size n consisting of positive integers.

You are also given a 2D array queries of size m where queries[i] = [index_i, k_i].

Initially all elements of the array are unmarked.

You need to apply m queries on the array in order, where on the ith query you do the following:

- Mark the element at index index; if it is not already marked.
- Then mark k_i unmarked elements in the array with the **smallest** values. If multiple such elements exist, mark the ones with the smallest indices. And if less than k_i unmarked elements exist, then mark all of them

User Accepted:	8243
User Tried:	10880
Total Accepted:	8572
Total Submissions:	19847
Difficulty:	Medium

Return an array answer of size m where answer[i] is the sum of unmarked elements in the array after the ith query.

Example 1:

Input: nums = [1,2,2,1,2,3,1], queries = [[1,2],[3,3],[4,2]]

Output: [8,3,0]

Explanation:

We do the following queries on the array:

- Mark the element at index 1, and 2 of the smallest unmarked elements with the smallest indices if they exist, the marked elements now are nums = $[\underline{1},\underline{2},2,\underline{1},2,3,1]$. The sum of unmarked elements is 2 + 2 + 3 + 1 = 8.
- Mark the element at index 3, since it is already marked we skip it. Then we mark 3 of the smallest unmarked elements with the smallest indices, the marked elements now are nums = [1,2,2,1,2,3,1]. The sum of unmarked elements is 3.
- Mark the element at index 4, since it is already marked we skip it. Then we mark 2 of the smallest unmarked elements with the smallest indices if they exist, the marked elements now are nums = [1,2,2,1,2,3,1]. The sum of unmarked elements is 0.

Example 2:

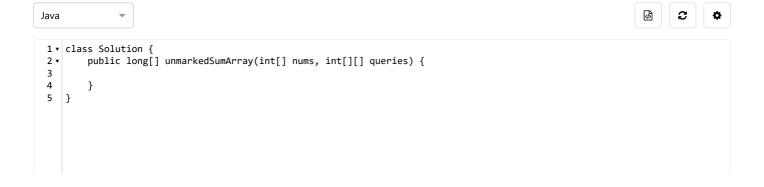
Input: nums = [1,4,2,3], queries = [[0,1]]

Output: [7]

Explanation: We do one query which is mark the element at index 0 and mark the smallest element among unmarked elements. The marked elements will be nums = [1,4,2,3], and the sum of unmarked elements is 4 + 3 = 7.

Constraints:

- n == nums.length
- m == queries.length
- 1 <= m <= n <= 10^5
- 1 <= n <= 10⁵
- queries[i].length == 2
- 0 <= index_i, k_i <= n 1



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