

100209. Mark Elements on Array by Performing Queries

[My Submissions \(/contest/biweekly-contest-126/problems/mark-elements-on-array-by-performing-queries/submissions/\)](#)

[Back to Contest \(/contest/biweekly-contest-126/\)](#)

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] = [indexi, ki]`.

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 `indexi` if it is not already marked.
- Then mark `ki` 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 `ki` unmarked elements exist, then mark all of them.

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

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

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 = [1,2,2,1,2,3,1]`. 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 <= 105`
- `1 <= n <= 105`
- `queries[i].length == 2`
- `0 <= indexi, ki <= n - 1`

Java

```
1 class Solution {
2     public long[] unmarkedSumArray(int[] nums, int[][] queries) {
3
4     }
5 }
```

☐ Custom Testcase

Use Example Testcases

Run

Submit