2382. Maximum Segment Sum After Removals

Description

You are given two **0-indexed** integer arrays `nums` and `removeQueries`, both of length `n`. For the `i th` query, the element in `nums` at the index `removeQueries[i]` is removed, splitting `nums` into different segments.

A **segment** is a contiguous sequence of **positive** integers in `nums`. A **segment sum** is the sum of every element in a segment.

Return *an integer array* `answer`, *of length* `n`, *where* `answer[i]` *is the* ***maximum*** *segment sum after applying the* `i th` *removal.*

Note: The same index will **not** be removed more than once.

Example 1:

```
Input: nums = [1,2,5,6,1], removeQueries = [0,3,2,4,1]
Output: [14,7,2,2,0]
Explanation: Using 0 to indicate a removed element, the answer is as follows:
Query 1: Remove the 0th element, nums becomes [0,2,5,6,1] and the maximum segment sum is 14 for segment [2,5,6,1].
Query 2: Remove the 3rd element, nums becomes [0,2,5,0,1] and the maximum segment sum is 7 for segment [2,5].
Query 3: Remove the 2nd element, nums becomes [0,2,0,0,1] and the maximum segment sum is 2 for segment [2].
Query 4: Remove the 4th element, nums becomes [0,2,0,0,0] and the maximum segment sum is 2 for segment [2].
Query 5: Remove the 1st element, nums becomes [0,0,0,0,0] and the maximum segment sum is 0, since there are no segments.
Finally, we return [14,7,2,2,0].
```

Example 2:

```
Input: nums = [3,2,11,1], removeQueries = [3,2,1,0]
Output: [16,5,3,0]
Explanation: Using 0 to indicate a removed element, the answer is as follows:
Query 1: Remove the 3rd element, nums becomes [3,2,11,0] and the maximum segment sum is 16 for segment [3,2,11].
Query 2: Remove the 2nd element, nums becomes [3,2,0,0] and the maximum segment sum is 5 for segment [3,2].
Query 3: Remove the 1st element, nums becomes [3,0,0,0] and the maximum segment sum is 3 for segment [3].
Query 4: Remove the 0th element, nums becomes [0,0,0,0] and the maximum segment sum is 0, since there are no segments.
Finally, we return [16,5,3,0].
```

Constraints:

- `n == nums.length == removeQueries.length`
- `1 <= n <= 10^5`
- `1 <= nums[i] <= 10^9`
- `0 <= removeQueries[i] < n`
- All the values of `removeQueries` are **unique**.