

Hard  239  2  Add to List  Share

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

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

**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].

**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].

- `n == nums.length == removeQueries.length`
- `1 <= n <= 105`
- `1 <= nums[i] <= 109`
- `0 <= removeQueries[i] < n`
- All the values of `removeQueries` are **unique**.

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