## 2263. Make Array Non-decreasing or Non-increasing Premium Hard ♥ Topics ② Companies ۞ Hint You are given a **0-indexed** integer array nums. In one operation, you can: Choose an index i in the range 0 <= i < nums.length</li> • Set nums[i] to nums[i] + 1 or nums[i] - 1 Return the minimum number of operations to make nums non-decreasing or non-increasing. Example 1: **Input:** nums = [3,2,4,5,0]Output: 4 Explanation: One possible way to turn nums into non-increasing order is to: - Add 1 to nums[1] once so that it becomes 3. - Subtract 1 from nums[2] once so it becomes 3. - Subtract 1 from nums[3] twice so it becomes 3. After doing the 4 operations, nums becomes [3,3,3,3,0] which is in non-increasing order. Note that it is also possible to turn nums into [4,4,4,4,0] in 4 operations. It can be proven that 4 is the minimum number of operations needed. Example 2: **Input:** nums = [2,2,3,4]Output: 0 Explanation: nums is already in non-decreasing order, so no operations are needed and we return 0. Example 3: Input: nums = [0] Output: 0 Explanation: nums is already in non-decreasing order, so no operations are needed and we return 0. Constraints: • 1 <= nums.length <= 1000 • 0 <= nums[i] <= 1000 **Follow up:** Can you solve it in 0(n\*log(n)) time complexity? Seen this question in a real interview before? 1/5 Yes No Accepted 4.1K Submissions 6.1K Acceptance Rate 66.2% ♥ Topics Dynamic Programming Greedy **Companies** 0 - 3 months Google 3 0 - 6 months VMware 2 6 months ago TikTok 5 O Hint 1 To find the minimum cost to make nums non-decreasing, use a max heap that contains all of the elements that you have seen so far. O Hint 2 If the largest number in the heap is greater than the current number, calculate the cost to make the two numbers equal. Then, in the heap, replace the largest number with the current number. O Hint 3 Now that we have found the minimum cost to make nums non-decreasing, we can set every nums[i] to -nums[i] and do the same process to find the minimum cost to make nums non-increasing. **₩** Similar Questions Non-decreasing Array Make Array Strictly Increasing Minimum Operations to Make the Array Increasing Easy Discussion (6)

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