2340. Minimum Adjacent Swaps to Make a Valid Array Premium Medium ♥ Topics 🖫 Companies 🗘 Hint You are given a **0-indexed** integer array nums. **Swaps** of **adjacent** elements are able to be performed on nums. A **valid** array meets the following conditions: • The largest element (any of the largest elements if there are multiple) is at the rightmost position in the array. • The smallest element (any of the smallest elements if there are multiple) is at the leftmost position in the array. Return the minimum swaps required to make nums a valid array. Example 1: **Input:** nums = [3,4,5,5,3,1]Output: 6 **Explanation:** Perform the following swaps: - Swap 1: Swap the 3rd and 4th elements, nums is then [3,4,5,3,5,1]. - Swap 2: Swap the 4th and 5th elements, nums is then [3,4,5,3,1,5]. - Swap 3: Swap the 3rd and 4th elements, nums is then [3,4,5,1,3,5]. - Swap 4: Swap the 2nd and 3rd elements, nums is then [3,4,1,5,3,5]. Swap 5: Swap the 1st and 2nd elements, nums is then [3,1,4,5,3,5]. - Swap 6: Swap the 0th and 1st elements, nums is then [1,3,4,5,3,5]. It can be shown that 6 swaps is the minimum swaps required to make a valid array. Example 2: Input: nums = [9] Output: 0 Explanation: The array is already valid, so we return 0. Constraints: • 1 <= nums.length <= 10⁵ • $1 \le nums[i] \le 10^5$ Seen this question in a real interview before? 1/5 Yes No Submissions 48.4K Accepted 35.2K Acceptance Rate 72.7% ♥ Topics Array Greedy Companies 0 - 3 months Amazon 3 O Hint 1 Notice that in order to obtain the minimum swaps, we should focus on the smallest element that is the leftmost and the largest element that is the rightmost. O Hint 2 We can take those elements and greedily only do swaps that bring them closer to their respective end positions. **₹** Similar Questions Minimum Adjacent Swaps for K Consecutive Ones Discussion (12)

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