3205. Maximum Array Hopping Score I Premium Medium ♥ Topics ② Companies ۞ Hint Given an array nums, you have to get the maximum score starting from index 0 and hopping until you reach the last element of the array. In each **hop**, you can jump from index i to an index j > i, and you get a **score** of (j - i) * nums[j]. Return the maximum score you can get. Example 1: **Input:** nums = [1,5,8]Output: 16 **Explanation:** There are two possible ways to reach the last element: • $\emptyset \rightarrow 1 \rightarrow 2$ with a score of $(1 - \emptyset) * 5 + (2 - 1) * 8 = 13$. • $\emptyset \rightarrow 2$ with a score of $(2 - \emptyset) * 8 = 16$. Example 2: **Input:** nums = [4,5,2,8,9,1,3]Output: 42 **Explanation:** We can do the hopping $0 \to 4 \to 6$ with a score of (4 - 0) * 9 + (6 - 4) * 3 = 42. Constraints: • 2 <= nums.length <= 10³ • 1 <= nums[i] <= 10⁵ Seen this question in a real interview before? 1/5 Yes No Submissions 1.7K Acceptance Rate 79.6% Accepted 1.3K **O** Topics Array Dynamic Programming Stack Greedy Monotonic Stack **©** Companies 0 - 6 months Zluri 2 Q Hint 1 Define dp[i] as the maximum score if we start from index i. O Hint 2 We can calculate dp[i] as the maximum score from hopping to all indices j > i. Discussion (4)

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