

1746. Maximum Subarray Sum After One Operation Premium

Medium Topics Companies Hint

You are given an integer array `nums`. You must perform **exactly one** operation where you can **replace** one element `nums[i]` with `nums[i] * nums[i]`.

Return *the **maximum** possible subarray sum after **exactly one** operation*. The subarray must be non-empty.

Example 1:

Input: `nums = [2,-1,-4,-3]`
Output: `17`
Explanation: You can perform the operation on index 2 (0-indexed) to make `nums = [2,-1,16,-3]`. Now, the maximum subarray sum is `2 + -1 + 16 = 17`.

Example 2:

Input: `nums = [1,-1,1,1,-1,-1,1]`
Output: `4`
Explanation: You can perform the operation on index 1 (0-indexed) to make `nums = [1,1,1,1,-1,-1,1]`. Now, the maximum subarray sum is `1 + 1 + 1 + 1 = 4`.

Constraints:

- `1 <= nums.length <= 105`
- `-104 <= nums[i] <= 104`

Seen this question in a real interview before? 1/5

Yes No

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Hint 1

Think about dynamic programming

Hint 2

Define an array `dp[nums.length][2]`, where `dp[i][0]` is the max subarray sum including `nums[i]` and without squaring any element.

Hint 3

`dp[i][1]` is the max subarray sum including `nums[i]` and having only one element squared.

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