

# Problem 1746: Maximum Subarray Sum After One Operation

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 65.25%

**Paid Only:** Yes

**Tags:** Array, Dynamic Programming

## Problem Description

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`

## Code Snippets

**C++:**

```
class Solution {  
public:  
    int maxSumAfterOperation(vector<int>& nums) {  
  
    }  
};
```

**Java:**

```
class Solution {  
public int maxSumAfterOperation(int[] nums) {  
  
}  
}
```

**Python3:**

```
class Solution:  
    def maxSumAfterOperation(self, nums: List[int]) -> int:
```