Problem 2219: Maximum Sum Score of Array

Problem Information

Difficulty: Medium
Acceptance Rate: 62.71%
Paid Only: Yes
Tags: Array, Prefix Sum

Problem Description

You are given a **0-indexed** integer array `nums` of length `n`.

The **sum****score** of `nums` at an index `i` where `0 <= i < n` is the **maximum** of:

* The sum of the **first** `i + 1` elements of `nums`. * The sum of the **last** `n - i` elements of `nums`.

Return _the**maximum** **sum****score** of _`nums` _at any index._

Example 1:

Input: nums = [4,3,-2,5] **Output:** 10 **Explanation:** The sum score at index 0 is max(4, 4 + 3 + -2 + 5) = max(4, 10) = 10. The sum score at index 1 is max(4 + 3, 3 + -2 + 5) = max(7, 6) = 7. The sum score at index 2 is max(4 + 3 + -2, -2 + 5) = max(5, 3) = 5. The sum score at index 3 is max(4 + 3 + -2 + 5, 5) = max(10, 5) = 10. The maximum sum score of nums is 10.

Example 2:

Input: nums = [-3,-5] **Output:** -3 **Explanation:** The sum score at index 0 is max(-3, -3 + -5) = max(-3, -8) = -3. The sum score at index 1 is max(-3 + -5, -5) = max(-8, -5) = -5. The maximum sum score of nums is -3.

Constraints:

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

Code Snippets

C++:

```
class Solution {
public:
long long maximumSumScore(vector<int>& nums) {

}
};
```

Java:

```
class Solution {
public long maximumSumScore(int[] nums) {

}
}
```

Python3:

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