Problem 3282: Reach End of Array With Max Score

Problem Information

Difficulty: Medium
Acceptance Rate: 33.03%
Paid Only: No
Tags: Array, Greedy

Problem Description

You are given an integer array `nums` of length `n`.

Your goal is to start at index `0` and reach index `n - 1`. You can only jump to indices **greater** than your current index.

The score for a jump from index `i` to index `j` is calculated as `(j - i) * nums[i]`.

Return the **maximum** possible **total score** by the time you reach the last index.

Example 1:

Input: nums = [1,3,1,5]

Output: 7

Explanation:

First, jump to index 1 and then jump to the last index. The final score is `1 * 1 + 2 * 3 = 7`.

Example 2:

Input: nums = [4,3,1,3,2]

Output: 16

Explanation:

Jump directly to the last index. The final score is `4 * 4 = 16`.

Constraints:

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

Code Snippets

C++:

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

}
};
```

Java:

```
class Solution {
public long findMaximumScore(List<Integer> nums) {

}
}
```

Python3:

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