Problem 1732: Find the Highest Altitude

Problem Information

Difficulty: Easy
Acceptance Rate: 83.83%
Paid Only: No
Tags: Array, Prefix Sum

Problem Description

There is a biker going on a road trip. The road trip consists of `n + 1` points at different altitudes. The biker starts his trip on point `0` with altitude equal `0`.

You are given an integer array `gain` of length `n` where `gain[i]` is the **net gain in altitude** between points `i`■■■■■■ and `i + 1` for all (`0 <= i < n)`. Return _the**highest altitude** of a point._

Example 1:

Input: gain = [-5,1,5,0,-7] **Output:** 1 **Explanation:** The altitudes are [0,-5,-4,1,1,-6]. The highest is 1.

Example 2:

Input: gain = [-4,-3,-2,-1,4,3,2] **Output:** 0 **Explanation:** The altitudes are [0,-4,-7,-9,-10,-6,-3,-1]. The highest is 0.

Constraints:

* `n == gain.length` * `1 <= n <= 100` * `-100 <= gain[i] <= 100`

Code Snippets

C++:

```
class Solution {
public:
int largestAltitude(vector<int>& gain) {

}
};
```

Java:

```
class Solution {
public int largestAltitude(int[] gain) {

}
}
```

Python3:

```
class Solution:
def largestAltitude(self, gain: List[int]) -> int:
```