# 875. Longest Mountain in Array

# Difficulty : Medium

https://leetcode.com/problems/longest-mountain-in-array

You may recall that an array `arr` is a **mountain array** if and only if:

- `arr.length >= 3`
- There exists some index `i` (**0-indexed**) with `0 < i < arr.length - 1` such that:
  - `arr[0] < arr[1] < ... < arr[i - 1] < arr[i]`
  - `arr[i] > arr[i + 1] > ... > arr[arr.length - 1]`

Given an integer array `arr`, return *the length of the longest subarray, which is a mountain*. Return `0` if there is no mountain subarray.

### Example 1:

```
Input: arr = [2,1,4,7,3,2,5]
Output: 5
Explanation: The largest mountain is [1,4,7,3,2] which has length 5.
```

### Example 2:

```
Input: arr = [2,2,2]
Output: 0
Explanation: There is no mountain.
```

### Constraints:

- `1 <= arr.length <= 10^4`
- `0 <= arr[i] <= 10^4`

### Follow up:

- Can you solve it using only one pass?
- Can you solve it in `O(1)` space?