

Problem 941: Valid Mountain Array

Problem Information

Difficulty: **Easy**

Acceptance Rate: 34.63%

Paid Only: No

Tags: Array

Problem Description

Given an array of integers `arr`, return `true` if and only if it is a valid mountain array.

Recall that `arr` is a mountain array if and only if:

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



Example 1:

Input: `arr = [2,1]` **Output:** `false`

Example 2:

Input: `arr = [3,5,5]` **Output:** `false`

Example 3:

Input: `arr = [0,3,2,1]` **Output:** `true`

Constraints:

* `1 <= arr.length <= 104` * `0 <= arr[i] <= 104`

Code Snippets

C++:

```
class Solution {  
public:  
    bool validMountainArray(vector<int>& arr) {  
  
    }  
};
```

Java:

```
class Solution {  
    public boolean validMountainArray(int[] arr) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def validMountainArray(self, arr: List[int]) -> bool:
```