

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] > 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:
```