1095. Find in Mountain Array

Solved ●

Hard Topics Companies Hint

*(This problem is an **interactive problem**.)*

You may recall that an array `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]`

Given a mountain array `mountainArr`, return the **minimum** `index` such that `mountainArr.get(index) == target`. If such an `index` does not exist, return `-1`.

You cannot access the mountain array directly. You may only access the array using a `MountainArray` interface:

- `MountainArray.get(k)` returns the element of the array at index `k` (0-indexed).
- `MountainArray.length()` returns the length of the array.

Submissions making more than `100` calls to `MountainArray.get` will be judged *Wrong Answer*. Also, any solutions that attempt to circumvent the judge will result in disqualification.

Example 1:

> **Input:** array = [1,2,3,4,5,3,1], target = 3
> **Output:** 2
> **Explanation:** 3 exists in the array, at index=2 and index=5. Return the minimum index, which is 2.

Example 2:

> **Input:** array = [0,1,2,4,2,1], target = 3
> **Output:** -1
> **Explanation:** 3 does not exist in `the array,` so we return -1.

Constraints:

- `3 <= mountain_arr.length() <= 10^4`
- `0 <= target <= 10^9`
- `0 <= mountain_arr.get(index) <= 10^9`

Accepted **123.5K** Submissions **303.2K** Acceptance Rate **40.7%**

Seen this question in a real interview before? 1/4

Yes No

Similar Questions

Discussion (165)