1671. Minimum Number of Removals to Make Mountain Array

Description

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:

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o arr[0] < arr[1] < ... < arr[i - 1] < arr[i]
```

o arr[i] > arr[i + 1] > ... > arr[arr.length - 1]

Given an integer array nums, return the minimum number of elements to remove to make nums a mountain array.

Example 1:

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Input: nums = [1,3,1]
Output: 0
Explanation: The array itself is a mountain array so we do not need to remove any elements.
```

Example 2:

```
Input: nums = [2,1,1,5,6,2,3,1]
Output: 3
Explanation: One solution is to remove the elements at indices 0, 1, and 5, making the array nums = [1,5,6,3,1].
```

Constraints:

- 3 <= nums.length <= 1000
- 1 <= nums[i] <= 10^{9}
- It is guaranteed that you can make a mountain array out of nums.