

162. Find Peak Element

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A peak element is an element that is strictly greater than its neighbors.

Given a **0-indexed** integer array nums, find a peak element, and return its index. If the array contains multiple peaks, return the index to **an**You may imagine that $nums[-1] = nums[n] = -\infty$. In other words, an element is always considered to be strictly greater than a neighbor th

You must write an algorithm that runs in $0(\log n)$ time.

Example 1:

Input: nums = [1,2,3,1]

Output: 2

Explanation: 3 is a peak element and your function should return the index number 2.

Example 2:

Input: nums = [1,2,1,3,5,6,4]

Output: 5

Explanation: Your function can return either index number 1 where the peak element is 2, or index nu

Constraints:

• 1 <= nums.length <= 1000

• $-2^{31} \le nums[i] \le 2^{31} - 1$

• nums[i] != nums[i + 1] for all valid i.

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

Yes No

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