

1060. Missing Element in Sorted Array

Premium

Medium

Topics

Companies

Hint

Given an integer array `nums` which is sorted in **ascending order** and all of its elements are **unique** and given also an integer `k`, return the `kth` missing number starting from the leftmost number of the array.

Example 1:

Input: `nums = [4,7,9,10]`, `k = 1`
Output: 5
Explanation: The first missing number is 5.

Example 2:

Input: `nums = [4,7,9,10]`, `k = 3`
Output: 8
Explanation: The missing numbers are [5,6,8,...], hence the third missing number is 8.

Example 3:

Input: `nums = [1,2,4]`, `k = 3`
Output: 6
Explanation: The missing numbers are [3,5,6,7,...], hence the third missing number is 6.

Constraints:

- `1 <= nums.length <= 5 * 104`
- `1 <= nums[i] <= 107`
- `nums` is sorted in **ascending order**, and all the elements are **unique**.
- `1 <= k <= 108`

Follow up: Can you find a logarithmic time complexity (i.e., `O(log(n))`) solution?

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

Yes No

Accepted 126.5K Submissions 225.3K Acceptance Rate 56.1%

Topics	▼
Companies	▼
Hint 1	▼
Hint 2	▼
Discussion (4)	▼