

1064. Fixed Point Premium

Easy Topics Companies Hint

Given an array of distinct integers `arr`, where `arr` is sorted in **ascending order**, return the smallest index `i` that satisfies `arr[i] == i`. If there is no such index, return `-1`.

Example 1:

Input: `arr = [-10,-5,0,3,7]`
Output: `3`
Explanation: For the given array, `arr[0] = -10`, `arr[1] = -5`, `arr[2] = 0`, `arr[3] = 3`, thus the output is 3.

Example 2:

Input: `arr = [0,2,5,8,17]`
Output: `0`
Explanation: `arr[0] = 0`, thus the output is 0.

Example 3:

Input: `arr = [-10,-5,3,4,7,9]`
Output: `-1`
Explanation: There is no such `i` that `arr[i] == i`, thus the output is -1.

Constraints:

- `1 <= arr.length < 104`
- `-109 <= arr[i] <= 109`

Follow up: The `O(n)` solution is very straightforward. Can we do better?

Seen this question in a real interview before? 1/5

Yes No

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Topics

Array Binary Search

Companies

0 - 6 months

Uber 2

Hint 1

Loop over the array and check the first index `i` such `A[i] == i`

Discussion (1)