

Problem List

Description Editorial Solutions Submissions

1064. Fixed Point Premium

Solved

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 = [0,2,5,0,17]`  
**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`
- `-103 <= arr[i] <= 103`

**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

Accepted 43.8K Submissions 68.4K Acceptance Rate 64.1%

Topics

Companies

Hint 1

Discussion (1)

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Code

Python3 Auto

```
1 class Solution:
2     def fixedPoint(self, arr: List[int]) -> int:
3
4         for i in range(0, len(arr)):
5             if arr[i] == i:
6                 return i
7
8         return -1
9
```

Saved Ln 6, Col 25

Testcase Test Result

Accepted Runtime: 61 ms

Case 1 Case 2 Case 3

Input

arr =  
[-10,-5,0,3,7]

Output

3

Expected

3

Contribute a testcase