

Description

Solution

Discuss (437)

Submissions

Python3

Autocomplete

1331. Rank Transform of an Array

Easy 546 42 Add to List Share

Given an array of integers `arr`, replace each element with its rank.

The rank represents how large the element is. The rank has the following rules:

- Rank is an integer starting from 1.
- The larger the element, the larger the rank. If two elements are equal, their rank must be the same.
- Rank should be as small as possible.

Example 1:

Input: `arr = [40,10,20,30]`

Output: `[4,1,2,3]`

Explanation: 40 is the largest element. 10 is the smallest. 20 is the second smallest. 30 is the third smallest.

Example 2:

Input: `arr = [100,100,100]`

Output: `[1,1,1]`

Explanation: Same elements share the same rank.

Example 3:

Input: `arr = [37,12,28,9,100,56,80,5,12]`

Output: `[5,3,4,2,8,6,7,1,3]`

Constraints:

```
1 class Solution:
2     def arrayRankTransform(self, arr: List[int]) -> List[int]:
3
4         set1 = set(arr)
5         queue_dict = {}
6         rank = 0
7         res = []
8         set
9
10        for i in sorted(set1):
11            rank += 1
12            queue_dict.update({i : rank})
13
14        for k in arr:
15            res.append(queue_dict[k])
16
17        return (res)
18
```

Testcase

Run Code Result

Debugger

Accepted Runtime: 46 ms

Your input

[40,10,20,30]

Output

[4,1,2,3]

Diff

Expected

[4,1,2,3]

Problems

Pick One

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Console

Use Example Testcases

Run Code

Submit