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6424. Semi-Ordered Permutation

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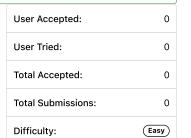
You are given a **0-indexed** permutation of n integers nums.

A permutation is called **semi-ordered** if the first number equals 1 and the last number equals n. You can perform the below operation as many times as you want until you make nums a semi-ordered permutation:

• Pick two adjacent elements in nums, then swap them.

Return the minimum number of operations to make nums a semi-ordered permutation.

A permutation is a sequence of integers from 1 to n of length n containing each number exactly once.



Example 1:

```
Input: nums = [2,1,4,3]
Output: 2
Explanation: We can make the permutation semi-ordered using these sequence of operations:
1 - \text{swap } i = 0 \text{ and } j = 1. The permutation becomes [1,2,4,3].
2 - swap i = 2 and j = 3. The permutation becomes [1,2,3,4].
It can be proved that there is no sequence of less than two operations that make nums a semi-ordered permutation.
```

Example 2:

```
Input: nums = [2,4,1,3]
Output: 3
Explanation: We can make the permutation semi-ordered using these sequence of operations:
1 - \text{swap } i = 1 \text{ and } j = 2. The permutation becomes [2,1,4,3].
2 - swap i = 0 and j = 1. The permutation becomes [1,2,4,3].
3 - \text{swap i} = 2 and j = 3. The permutation becomes [1,2,3,4].
It can be proved that there is no sequence of less than three operations that make nums a semi-ordered permutation.
```

Example 3:

```
Input: nums = [1,3,4,2,5]
Output: 0
Explanation: The permutation is already a semi-ordered permutation.
```

Constraints:

- 2 <= nums.length == n <= 50
- 1 <= nums[i] <= 50
- nums is a permutation.

```
d c
JavaScript
1 v const semiOrderedPermutation = (a) ⇒ {
        let n = a.length, l, r;
3 ▼
        for (let i = 0; i < n; i++) {
4 ▼
            if (a[i] == 1) {
5
                l = i;
6 ▼
            } else if (a[i] == n) {
7
                r = i;
8
9
10
        let disL = 1, disR = n - 1 - r;
        return l < r ? disL + disR : disL + disR - 1;
11
12
   };
```

United States (/region)