

ref=nb npl)





5977. Minimum Swaps to Group All 1's Together II

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A swap is defined as taking two distinct positions in an array and swapping the values in them.

A circular array is defined as an array where we consider the first element and the last element to be adjacent.

Given a binary circular array nums, return the minimum number of swaps required to group all 1's present in the array together at any location.

User Accepted: 772 **User Tried:** 1312 **Total Accepted:** 775 **Total Submissions:** 1826 Difficulty: Medium

Example 1:

```
Input: nums = [0,1,0,1,1,0,0]
Output: 1
Explanation: Here are a few of the ways to group all the 1's together:
[0, 0, 1, 1, 1, 0, 0] using 1 swap.
[0,1,1,1,0,0,0] using 1 swap.
[1,1,0,0,0,0,1] using 2 swaps (using the circular property of the array).
There is no way to group all 1's together with 0 swaps.
Thus, the minimum number of swaps required is 1.
```

Example 2:

```
Input: nums = [0,1,1,1,0,0,1,1,0]
Output: 2
Explanation: Here are a few of the ways to group all the 1's together:
[1,1,1,0,0,0,0,1,1] using 2 swaps (using the circular property of the array).
[1,1,1,1,1,0,0,0,0] using 2 swaps.
There is no way to group all 1's together with 0 or 1 swaps.
Thus, the minimum number of swaps required is 2.
```

Example 3:

```
Input: nums = [1,1,0,0,1]
Output: 0
Explanation: All the 1's are already grouped together due to the circular property of the array.
Thus, the minimum number of swaps required is 0.
```

Constraints:

- 1 <= nums.length <= 10⁵
- nums[i] is either 0 or 1.

```
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Java
1 v class Solution {
        public int minSwaps(int[] nums) {
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3
4
5
   }
```