



Description

Solution

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Submissions

C#

1151. Minimum Swaps to Group All 1's Together

Medium

642

7

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Given a binary array `data`, return the minimum number of swaps required to group all 1's present in the array together in **any place** in the array.

Example 1:

Input: `data = [1,0,1,0,1]`

Output: 1

Explanation: There are 3 ways to group all 1's together:

`[1,1,1,0,0]` using 1 swap.

`[0,1,1,1,0]` using 2 swaps.

`[0,0,1,1,1]` using 1 swap.

The minimum is 1.

Example 2:

Input: `data = [0,0,0,1,0]`

Output: 0

Explanation: Since there is only one 1 in the array, no swaps are needed.

Example 3:

Input: `data = [1,0,1,0,1,0,0,1,1,0,1]`

Output: 3

Explanation: One possible solution that uses 3 swaps is `[0,0,0,0,0,1,1,1,1,1,1]`.

Constraints:

- $1 \leq \text{data.length} \leq 10^5$
- `data[i]` is either 0 or 1.

Accepted 27,668

Submissions 46,469

```
i {} ↺ ↻  
1 public class Solution {  
2     public int MinSwaps  
3     data) {  
4         var windowSize  
5         data.Count(x => x == 1)  
6         if(windowSize  
7         {  
8             return 0;  
9         }  
10        var currOnes =  
11        var maxOnes = 0  
12        for(int i =0; i  
13        data.Length; i++)  
14        {  
15            currOnes +=  
16            if(i >= win  
17            {  
18                currOne  
19                data[i- windowSize];  
20            }  
21            maxOnes =  
22            Math.Max(maxOnes, currO  
23            }  
24            return windowSiz  
25            maxOnes;  
26        }  
27    }  
28 }
```

Testcase

Run Code Result

Accepted

Runtime: 84 ms

Your input

`[1,0,1,0,1]`

Output

1

Expected

1

Console

Use Example Testcase

Run Code

Subm

Problems

Pick One

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20/30

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