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1151. Minimum Swaps to Group All 1's Together

Medium 156 0 Add to List Share

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: `[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: `[0,0,0,1,0]`
 Output: 0
 Explanation:
 Since there is only one 1 in the array, no swaps needed.

Example 3:

Input: `[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]`.

Note:

- `1 <= data.length <= 10^5`
- `0 <= data[i] <= 1`

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