3228. Maximum Number of Operations to Move Ones to the End

Solved ●

Medium Topics Hint

You are given a

binary string `s`.

You can perform the following operation on the string **any** number of times:

- Choose **any** index `i` from the string where `i + 1 < s.length` such that `s[i] == '1'` and `s[i + 1] == '0'`.
- Move the character `s[i]` to the **right** until it reaches the end of the string or another `'1'`. For example, for `s = "010010"`, if we choose `i = 1`, the resulting string will be `s = "001010"`.

Return the **maximum** number of operations that you can perform.

Example 1:

> **Input:** s = "1001101"
>
> **Output:** 4
>
> **Explanation:**
>
> We can perform the following operations:
>
> - Choose index `i = 0`. The resulting string is `s = "0011101"`.
> - Choose index `i = 4`. The resulting string is `s = "0011011"`.
> - Choose index `i = 3`. The resulting string is `s = "0010111"`.
> - Choose index `i = 2`. The resulting string is `s = "0001111"`.

Example 2:

> **Input:** s = "00111"
>
> **Output:** 0

Constraints:

- `1 <= s.length <= 10^5`
- `s[i]` is either `'0'` or `'1'`.

Seen this question in a real interview before? 1/5

Yes No

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Topics

Hint 1

Hint 2

Discussion (36)