2464. Time Needed to Rearrange a Binary String

Difficulty : Medium

https://leetcode.com/problems/time-needed-to-rearrange-a-binary-string

You are given a binary string `s`. In one second, **all** occurrences of `"01"` are **simultaneously** replaced with `"10"`. This process **repeats** until no occurrences of `"01"` exist.

Return *the number of seconds needed to complete this process.*

Example 1:

```
Input: s = "0110101"
Output: 4
Explanation:
After one second, s becomes "1011010".
After another second, s becomes "1101100".
After the third second, s becomes "1110100".
After the fourth second, s becomes "1111000".
No occurrence of "01" exists any longer, and the process needed 4 seconds to complete,
so we return 4.
```

Example 2:

```
Input: s = "11100"
Output: 0
Explanation:
No occurrence of "01" exists in s, and the processes needed 0 seconds to complete,
so we return 0.
```

Constraints:

- `1 <= s.length <= 1000`
- `s[i]` is either `'0'` or `'1'`.

Follow up:

Can you solve this problem in O(n) time complexity?