Minimum Deletions to Make String Balanced

You are given a string s consisting only of characters 'a' and 'b'.

You can delete any number of characters in s to make s **balanced**. s is **balanced** if there is no pair of indices (i,j) such that i < j and s[i] = 'b' and s[j]= 'a'.

Return *the **minimum** number of deletions needed to make* s ***balanced***.

Example 1:

Input: s = "aababbab"

Output: 2

Explanation: You can either:

Delete the characters at 0-indexed positions 2 and 6 ("aababbab" -> "aaabbb"), or

Delete the characters at 0-indexed positions 3 and 6 ("aababbab" -> "aabbbb").

Example 2:

Input: s = "bbaaaaabb"

Output: 2

Explanation: The only solution is to delete the first two characters.

Constraints:

- 1 <= s.length <= 10^5
- s[i] is 'a' or 'b'.