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 <= 105
* s[i] is 'a' or 'b'​​.