

2736. Minimum Additions to Make Valid String

Difficulty : Medium

<https://leetcode.com/problems/minimum-additions-to-make-valid-string>

Given a string `word` to which you can insert letters "a", "b" or "c" anywhere and any number of times, return *the minimum number of letters that must be inserted so that `word` becomes **valid***.

A string is called **valid** if it can be formed by concatenating the string "abc" several times.

Example 1:

Input: `word = "b"`

Output: 2

Explanation: Insert the letter "a" right before "b", and the letter "c" right next to "a" to obtain the valid string "**abc**".

Example 2:

Input: `word = "aaa"`

Output: 6

Explanation: Insert letters "b" and "c" next to each "a" to obtain the valid string "**abcabcabc**".

Example 3:

Input: `word = "abc"`

Output: 0

Explanation: `word` is already valid. No modifications are needed.

Constraints:

- `1 <= word.length <= 50`
- `word` consists of letters "a", "b" and "c" only.