6375. Minimum Additions to Make Valid String

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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.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

```
Input: word = "b"
Output: 2
Explanation: Insert the letter "a" right before "b", and the letter "c" right next to "a" to obt
```

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.

JavaScript

```
const next = (c) => {
    if (c == 'a') {
        return 'b';
    } else if (c == 'b') {
        return 'c';
    } else {
        return 'a';
    }
};
const cutMaxConsecutive = (as) => { let d = [], l = 0, n = as.length; for (let i = 0; i + 1 < n; i++) { if (as[i + 1] != as[i]) { d.push(as.slice(l, i + 1)); l = i + 1; } } d.push(as.slice(l)); return d; };

const addMinimum = (s) => {
    let n = s.length, res = '', d = cutMaxConsecutive(s), cnt = 0, con = 0;
    for (let i = 0; i < d.length; i++) {
        if (d[i][0] == 'a' && i + 1 < d.length && d[i + 1][0] == 'b') con++;
        if (d[i][0] == 'a' && i + 1 < d.length && d[i + 1][0] == 'c') con++;
        if (d[i][0] == 'b' && i + 1 < d.length && d[i + 1][0] == 'c') con++;
        cnt += d[i].length;
    }
    res = 'abc'.repeat(cnt - con);
    return res.length - n;
};
```

Custom Testcase Use Example Testcases

Run Submit

Submission Result: Accepted (/submissions/detail/934510632/) More Details (/submissions/detail/934510632/)

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