

## 6439. Minimum String Length After Removing Substrings

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You are given a string s consisting only of uppercase English letters.

You can apply some operations to this string where, in one operation, you can remove any occurrence of one of the substrings "AB" or "CD" from s.

Return the *minimum* possible length of the resulting string that you can obtain.

Note that the string concatenates after removing the substring and could produce new "AB" or "CD" substrings.

User Accepted:	10
User Tried:	16
Total Accepted:	10
Total Submissions:	16
Difficulty:	Easy

## Example 1:

```
Input: s = "ABFCACDB"
Output: 2
Explanation: We can do the following operations:
- Remove the substring "ABFCACDB", so s = "FCACDB".
- Remove the substring "FCACDB", so s = "FCAB".
- Remove the substring "FCAB", so s = "FC".
So the resulting length of the string is 2.
It can be shown that it is the minimum length that we can obtain.
```

## Example 2:

```
Input: s = "ACBBD"
Output: 5
Explanation: We cannot do any operations on the string so the length remains the same.
```

## Constraints:

- 1 <= s.length <= 100
- s consists only of uppercase English letters.

```
2
JavaScript
                                                                                                                              ďΣ
 1 v const minLength = (s) => {
 2
        let pre = s.length;
 3 ▼
       while (1) {
            let used = new Set(), next = '';
 5 ▼
            for (let i = 0; i + 1 < s.length;) {
                 let cur = s[i] + s[i + 1];
if (cur == 'AB' || cur == 'CD') {
 6
 7 ▼
                     used.add(i);
 8
 9
                     used.add(i+1);
10
                     i += 2;
11 ▼
                } else {
12
                     i++;
13
14
            for (let i = 0; i < s.length; i++) {
15 ▼
                 if (used.has(i)) continue;
16
17
                 next += s[i];
18
19 ▼
            if (next.length == pre) {
20
                 break;
21 •
            } else {
22
                 s = next;
23
                 pre = s.length;
24
25
       }
26
       return s.length
```

27 |};  $\ \square$  Custom Testcase Use Example Testcases Run **△** Submit Submission Result: Accepted (/submissions/detail/954223697/) ? More Details > (/submissions/detail/954223697/) Share your acceptance! Copyright © 2023 LeetCode Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy) United States (/region)