1750. Minimum Length of String After Deleting Similar Ends

Medium   ◇ Topics   🔒 Companies   ⊘ Hint

Given a string `s` consisting only of characters `'a'`, `'b'`, and `'c'`. You are asked to apply the following algorithm on the string any number of times:

1. Pick a **non-empty** prefix from the string `s` where all the characters in the prefix are equal.

2. Pick a **non-empty** suffix from the string `s` where all the characters in this suffix are equal.

3. The prefix and the suffix should not intersect at any index.

4. The characters from the prefix and suffix must be the same.

5. Delete both the prefix and the suffix.

Return *the **minimum length** of* `s` *after performing the above operation any number of times (possibly zero times)*.

```swift
class Solution {
    func minimumLength(_ ss: String) -> Int {
        var l = 0
        var r = ss.count - 1
        let s = Array(ss)

        while (l < r) {
            if (s[l] == s[r]) {
                var ll = l + 1
                while (ll < r) {
                    if (s[ll] == s[l]) {
                        ll = ll + 1
                    } else {
                        break
                    }
                }
                if (ll == r) {
                    return 0
                }

                var rr = r - 1
                while (rr > l) {
                    if (s[rr] == s[l]) {
```

```
                    rr = rr - 1
                } else {
                    break
                }
            }

            l = ll
            r = rr
        } else {
            break
        }
    }

    return r - l + 1
    }
}
```