



1717. Maximum Score From Removing Substrings

Solved 

Medium

 Topics

 Companies

 Hint

You are given a string `s` and two integers `x` and `y`. You can perform two types of operations any number of times.

- Remove substring `"ab"` and gain `x` points.
 - For example, when removing `"ab"` from `"cabxbae"` it becomes `"cxbae"`.
- Remove substring `"ba"` and gain `y` points.
 - For example, when removing `"ba"` from `"cabxbae"` it becomes `"cabxe"`.

Return *the maximum points you can gain after applying the above operations on* `s`.

```
class Solution {
    func maximumGain(_ s: String, _ x: Int, _ y: Int) -> Int {
        var ans = 0
        var ab:[Character] = x >= y ? ["a","b"] : ["b","a"]
        var reward = x >= y ? x : y
        var arr = Array(s)
        var l:Character = ab[0]
        var m:Character = ab[1]
        var stack:[Character] = []

        for i in s {
            if(stack.count == 0) {
                stack.append(i)
                continue
            }
            if(i == m && stack[stack.count-1] == l) {
                ans = ans + reward
                stack.removeLast()
            } else {
                stack.append(i)
            }
        }

        ab = x < y ? ["a","b"] : ["b","a"]
```

```
reward = x < y ? x : y
l = ab[0]
m = ab[1]

var stack2:[Character] = []

for i in stack {
    if(stack2.count == 0) {
        stack2.append(i)
        continue
    }
    if(i == m && stack2[stack2.count-1] == l) {
        ans = ans + reward
        stack2.removeLast()
    } else {
        stack2.append(i)
    }
}
return ans
}
```