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.

Example 1:

Input: s = "cdbcbbaaabab", x = 4, y = 5

Output: 19 Explanation:

- Remove the "ba" underlined in "cdbcbbaaa<u>ba</u>b". Now, s = "cdbcbbaaab" and 5 points are added to the score.
- Remove the "ab" underlined in "cdbcbbaa<u>ab</u>". Now, s = "cdbcbbaa" and 4 points are added to the score.
- Remove the "ba" underlined in "cdbcbbaa". Now, s = "cdbcba" and 5 points are added to the score.
- Remove the "ba" underlined in "cdbcba". Now, s = "cdbc" and 5 points are added to the score.

Total score = 5 + 4 + 5 + 5 = 19.

Example 2:

Input: s = "aabbaaxybbaabb", x = 5, y = 4

Output: 20

Constraints:

- 1 <= s.length <= 10⁵
- $1 <= x, y <= 10^4$
- s consists of lowercase English letters.

Seen this question in a real interview before? 1/5

Yes No

Topics

Accepted 130.2K Submissions 206K Acceptance Rate 63.2%

Companies

Hint 1

Hint 2

Similar Questions

Discussion (196)

Copyright © 2024 LeetCode All rights reserved