2606.	Find	the	Substring	With	Maximum
Cost					

Hint 0

C	0	S	1



Companies

△ 193 ♀ 3 ☆ ♂ Medium

You are given a string s, a string chars of distinct characters and an integer array vals of the same length as chars.

The **cost of the substring** is the sum of the values of each character in the substring. The cost of an empty string is considered 0.

The value of the character is defined in the following way:

- If the character is not in the string chars, then its value is its corresponding position (1-indexed) in the alphabet.
  - For example, the value of 'a' is 1, the value of 'b' is 2, and so on. The value of 'z' is 26.
- Otherwise, assuming i is the index where the character occurs in the string chars, then its value is vals[i].

Return the maximum cost among all substrings of the string s.

## Example 1:

**Input:** s = "adaa", chars = "d", vals = [-1000]

Output: 2

Explanation: The value of the characters "a" and "d" is 1 and -1000 respectively.

The substring with the maximum cost is "aa" and its cost is 1 + 1 = 2.

It can be proven that 2 is the maximum cost.

## Example 2:

**Input:** s = "abc", chars = "abc", vals = [-1,-1,-1]

Output: 0

Explanation: The value of the characters "a", "b" and "c" is -1, -1, and -1 respectively.

The substring with the maximum cost is the empty substring "" and its cost is 0.

It can be proven that 0 is the maximum cost.

## **Constraints:**

- 1 <= s.length <= 10<sup>5</sup>
- s consist of lowercase English letters.
- 1 <= chars.length <= 26
- chars consist of distinct lowercase English letters.
- vals.length == chars.length
- -1000 <= vals[i] <= 1000

Accepted 14.9K Submissions 27.1K Acceptance Rate 54.9% Seen this question in a real interview before? 1/4 Yes No Discussion (5) Similar Questions **Related Topics** 

Copyright © 2023 LeetCode All rights reserved