

1898. Maximum Number of Removable Characters

Medium Topics Companies Hint

You are given two strings s and p where p is a **subsequence** of s. You are also given a **distinct 0-indexed** integer array removable con You want to choose an integer k (0 <= k <= removable.length) such that, after removing k characters from s using the **first** k indices Return the **maximum** k you can choose such that p is still a **subsequence** of s after the removals.

A subsequence of a string is a new string generated from the original string with some characters (can be none) deleted without changing

Example 1:

```
Input: s = "abcacb", p = "ab", removable = [3,1,0]
Output: 2
Explanation: After removing the characters at indices 3 and 1, "abcacb" becomes "accb".
"ab" is a subsequence of "accb".
If we remove the characters at indices 3, 1, and 0, "abcacb" becomes "ccb", and "ab" is no longer a Hence, the maximum k is 2.
```

Example 2:

```
Input: s = "abcbddddd", p = "abcd", removable = [3,2,1,4,5,6]
Output: 1
Explanation: After removing the character at index 3, "abcbddddd" becomes "abcddddd".
"abcd" is a subsequence of "abcddddd".
```

Example 3:

```
Input: s = "abcab", p = "abc", removable = [0,1,2,3,4]
Output: 0
Explanation: If you remove the first index in the array removable, "abc" is no longer a subsequence.
```

Constraints:

- 1 <= p.length <= s.length <= 10^5
- 0 <= removable.length < s.length
- 0 <= removable[i] < s.length
- p is a **subsequence** of s.
- s and p both consist of lowercase English letters.
- The elements in removable are **distinct**.

Seen this question in a real interview before? 1/4

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Yes No
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