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Buritomath

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String Reductions



by abhiranjan

Problem

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Given a string, $str = s_1, s_2 \dots s_n$, consisting of n lowercase English characters ($a - z$), remove all of the characters that occurred previously in the string. Formally, remove all characters, s_i , for:

 $\exists j, s_j = s_i$ and $j < i$

Input Format

A single line of input containing a string str of length n .

Constraints

- $1 \leq n \leq 10^5$
- $s_i \in \{a, b, \dots, z\}$, where $1 \leq i \leq n$

Output Format

Print the string after removing all the characters that occurred previously.

Sample Input #00

accabb

Sample Output #00

acb

Sample Input #01

abc

Sample Output #01

abc

Sample Input #02

pprrqq

Sample Output #02

prq

Explanation

Test case #00: For $str = "accabb"$, characters at indexes 3, 4, 6 are removed as they have already occurred.

Test case #01: As each character occurs only once, nothing is removed.

Test case #02: For $str = "pprrqq"$, each character occurs twice. The second of these characters is removed. Characters at positions 2, 4 and 6 are removed.

Tested by Wanbo

[f](#) [t](#) [in](#)Submissions: [2028](#)



Max Score: 10

Difficulty: Easy

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Racket



```
1 #lang racket
2 ; Enter your code here. Read input from STDIN. Print output to STDOUT
3 (displayln (list->string (remove-duplicates (string->list (read-line)))))
```

Line: 1 Col: 1

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