Remove Duplicates

You are given a string, *str*, of length *N* consisting of lowercase letters of alphabet. You have to remove all those characters from *str* which have already appeared in it, i.e., you have to keep only first occurance of each letter.

Input Format

First line of input contains a string *str* of length *N*.

Output Format

A string with removed characters as described in the problem.

Constraints

$1 <= N <= 30000$

str will contain only lowercase letters ('a'-'z').

Sample Input #00

```
aabc
```

Sample Output #00

```
abc
```

Sample Input #01

```
ccbabacc
```

Sample Output #01

```
cba
```

Explanation

Test Case #00: Here you have to remove 'a' at index 1 (0 based indexing) because it has already appeared at index 0.

Test Case #01: Here you have to remove 'c' from index 1, 6 and 7, because 'c' has already appeared at index 0. Similarly you have to remove 'b' from index 4 and 'a' from index 5.

Tested by: Tusshar Singh, Abhiranjan Kumar