

Remove Duplicate Letters

Given a string *s*, remove duplicate letters so that every letter appears once and only once. You must make sure your result is **the smallest in lexicographical order** among all possible results.

Example 1:

Input: *s* = "bcabc"

Output: "abc"

Example 2:

Input: *s* = "cbacdcbc"

Output: "acdb"

Constraints:

- $1 \leq s.length \leq 10^4$
- *s* consists of lowercase English letters.

Note: This question is the same as

1081: <https://leetcode.com/problems/smallest-subsequence-of-distinct-characters/>