

Problem 316: Remove Duplicate Letters

Problem Information

Difficulty: Medium

Acceptance Rate: 52.24%

Paid Only: No

Tags: String, Stack, Greedy, Monotonic Stack

Problem Description

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 <= s.length <= 104` `s` consists of lowercase English letters.

Note: This question is the same as 1081:

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

Code Snippets

C++:

```
class Solution {  
public:
```

```
string removeDuplicateLetters(string s) {  
  
}  
};
```

Java:

```
class Solution {  
    public String removeDuplicateLetters(String s) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def removeDuplicateLetters(self, s: str) -> str:
```