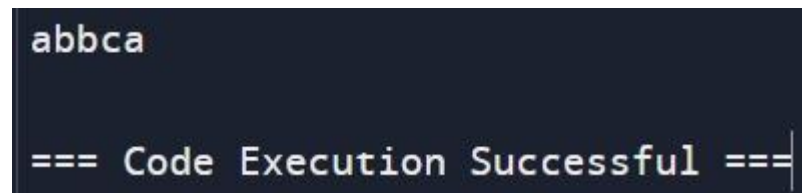


24. You are given a string *s*. Consider performing the following operation until *s* becomes empty: For every alphabet character from 'a' to 'z', remove the first occurrence of that character in *s* (if it exists). For example, let initially *s* = "aabcbbca". We do the following operations: Remove the underlined characters *s* = "aabcbbca". The resulting string is *s* = "abbca". Remove the underlined characters *s* = "abbca". The resulting string is *s* = "ba". Remove the underlined characters *s* = "ba". The resulting string is *s* = "". Return the value of the string *s* right before applying the last operation. In the example above, answer is "ba".

Program:

```
def removeDuplicates(s):  
    for char in sorted(set(s)):  
        s = s.replace(char, "", 1)  
    return s  
  
s = "aabcbbca"  
result = removeDuplicates(s)  
print(result)
```

Output:



```
abbca  
  
=== Code Execution Successful ===
```

Time complexity: $O(2 * n)$