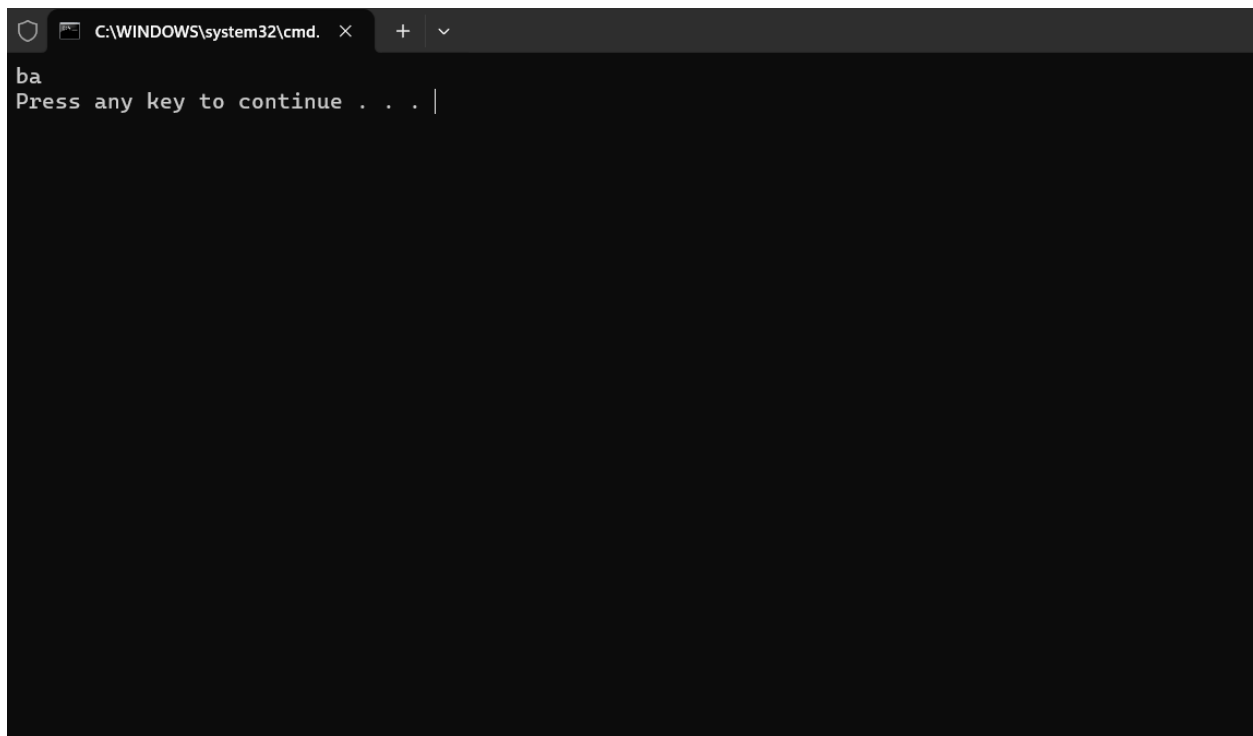


23) You are given a string s . Consider performing the following operation until s becomes empty: For every alphabet character from 'a' to 'z', remove the first occurrence of that character in s (if it exists). For example, let initially $s = \text{"aabcbbca"}$. We do the following operations: Remove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

CODE:

```
def func(s):  
    for char in range(ord('z'), ord('a') - 1, -1):  
        char = chr(char)  
        if char in s:  
            s = s[:s.index(char)] + s[s.index(char) + 1:]  
    return s  
  
s = "aabcbbca"  
print(func(func(s)))
```

OUTPUT:

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' and standard window controls. The command prompt displays the output 'ba' on the first line. On the second line, it shows the prompt 'Press any key to continue . . . |' with a vertical cursor at the end.

TIME COMPLEXITY : $O(n)$