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 reduce_string(s):
   seen = set()
  for char in s:
    if char.isalpha() and char not in seen:
      seen.add(char)
    else:
      return s
  return ""

s = "aabcbbca"
result = reduce_string(s)
print(result)
```