2434. Using a Robot to Print the Lexicographically Smallest String

Solved

Medium | Topics | Companies | Hint

You are given a string `s` and a robot that currently holds an empty string `t`. Apply one of the following operations until `s` and `t` **are both empty**:

- Remove the **first** character of a string `s` and give it to the robot. The robot will append this character to the string `t`.
- Remove the **last** character of a string `t` and give it to the robot. The robot will write this character on paper.

Return *the lexicographically smallest string that can be written on the paper.*

Constraints:

- `1 <= s.length <= 10^5`
- `s` consists of only English lowercase letters.

Python3 • Auto

```python
class Solution:
    def robotWithString(self, s: str) -> str:
        count = Counter(s)
        print(count)

        stack = [] # t
        res = []
        minC = 'a'
        for c in s:
            stack.append(c)
            count[c] -= 1
            while minC != 'z' and count[minC] == 0:
                minC = chr(ord(minC) + 1)
            while stack and stack[-1] <= minC:
                res.append(stack.pop())

        return ''.join(res)
```

' abcbzza' -> 'aazzbcb'

will pop all the minChar first, not about making decision between op1 and op2