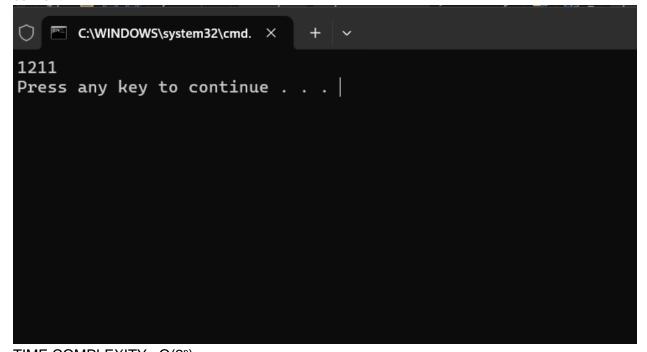
65) .Count and Say

The count-and-say sequence is a sequence of digit strings defined by the recursive formula:

- countAndSay(1) = "1"
- countAndSay(n) is the way you would "say" the digit string from countAndSay(n-1), which is then converted into a different digit string.

CODE:

```
def countAndSay(n):
    if n == 1:
        return "1"
    prev_term = "1"
    for _ in range(2, n + 1):
        current_term = []
        i = 0
        while i < len(prev_term):</pre>
            count = 1
            while i + 1 < len(prev_term) and prev_term[i] == prev_term[i + 1]:</pre>
                count += 1
                 i += 1
            current_term.append(str(count))
            current_term.append(prev_term[i])
        prev_term = "".join(current_term)
    return prev_term
a=4
print(countAndSay(a))
OUTPUT:
```



TIME COMPLEXITY: O(2ⁿ)