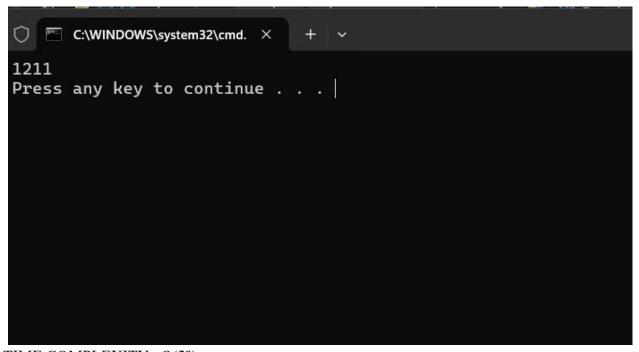
## 65)COUNT AND SAY

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(n1), 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):
                                                                             while
                                              current term = []
                                                                    i = 0
                                        while i + 1 < len(prev term) and
i < len(prev term):
                        count = 1
prev term[i] == prev term[i + 1]:
                                         count += 1
                                                      i += 1
      current term.append(str(count))
current_term.append(prev_term[i])
                                       i += 1
    prev term = "".join(current term)
  return prev term a=4
print(countAndSay(a))
OUTPUT:
```



TIME COMPLEXITY: O(2<sup>n</sup>)