Count and Say

Question: The count-and-say sequence is the sequence of integers beginning as follows:

1, 11, 21, 1211, 111221, ...

1 is read off as "one 1" or 11.

11 is read off as "two 1s" or 21.

21 is read off as "one 2, then one 1" or 1211.

Given an integer n, generate the nth sequence.

Note: The sequence of integers will be represented as a string.

Solutions:

```
class Solution:
    # @return a string
    def countAndSay(n):
        result = "1"
        if n == 0:
            return None
        else:
            print ( "1" )
            for i in range(n-1):
                temp = ""

                current = result[0]
                currentCount = 1
```

```python
        for item in result[1:]:
            if item == current:
                currentCount += 1
            else:
                temp += str(currentCount) + current
                current = item
                currentCount = 1
        temp += str(currentCount) + current
        result = temp
        print ( result )

Solution.countAndSay(8)
```