Look And Say - 40 points (Coding)

Let's define a function "Look and Say" as follow: read off the digits of the input, counting the number of digits in groups of same digit. Here are some examples of this function

- `LookAndSay(1) = 11` because 1 is read off as "one 1" or 11.
- `LookAndSay(11) = 21` because 11 is read off as "two 1s" or 21.
- `LookAndSay(21) = 1211` because 21 is read off as "one 2, then one 1" or 1211.
- `LookAndSay(1211) = 111221` because 1211 is read off as "one 1, then one 2, then two 1s" or 111221.
- `LookAndSay(111221) = 312211` because 111221 is read off as "three 1s, then two 2s, then one 1" or 312211.

We then define a "Look and Say" sequence as repeatedly called the "Look and Say" function on its output.
Given a number `start` and a number of iteration `n`, **calculate** the `n`th number in a "Look and Say" sequence starting with `start`.

Reusing the previous example with start = 11 and n = 2, `LookAndSay(11, 2) = 1211` because `LookAndSay(LookAndSay(11)) = 1211`

Since this sequence grows quickly we will use a string representation for the number in the sequence to avoid number overflow.

YOUR ANSWER

Java

```java
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {

/*
 * Complete the function below.
 */

    static String LookAndSay(String start, int n) {


    }


```

```
19      public static void main(String[] args) throws
    IOException{
20          Scanner in = new Scanner(System.in);
21          final String fileName =
    System.getenv("OUTPUT_PATH");
22          BufferedWriter bw = new BufferedWriter(new
    FileWriter(fileName));
23          String res;
24          String _start;
25          try {
26              _start = in.nextLine();
27          } catch (Exception e) {
28              _start = null;
29          }
30
31          int _n;
32          _n = Integer.parseInt(in.nextLine());
33
34          res = LookAndSay(_start, _n);
35          bw.write(res);
36          bw.newLine();
37
38          bw.close();
39      }
40  }
```

Line: 12 Col: 1

Test against custom input

Run Code

Submit code & Continue

Download sample testcases *The input/output files have Unix line endings. Do not use Notepad to edit them on windows.*