38. Count and Say

```
Description
                      Hints
                               Solution
                                                 Discuss
   The count-and-say sequence is the sequence of integers with the first five terms as following:
   1.
        1
   2.
        11
        21
   3.
        1211
   4.
   5.
         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 term of the count-and-say sequence.
  Note: Each term of the sequence of integers will be represented as a string.
第一个数是1,因为数出来为11,所以第二个数为11,数出来为21,第三个数为21,数出来为1211,第四个数为1211.
public class L38 {
     public String countAndSay(int n) {
          if(n <= 0)
              return null;
          String result = "1";
          int i = 1;
           * 每次循环计算出下一个的值,然后一直迭代。
          while (i < n) {
             StringBuilder sb = new StringBuilder();
             int count = 1;
             for(int j = 1; j < result.length(); j++) {</pre>
                 if(result.charAt(j) == result.charAt(j - 1)) {
                     count ++;
                 }else {
                      sb.append(count);
                      sb.append(result.charAt(j - 1));
                     count = 1;
                 }
             sb.append(count);
             sb.append(result.charAt(result.length() - 1));
             result = sb.toString();
             i ++;
          return result;
     }
}
```