

## 38. Count and Say

题目描述: <https://leetcode.com/problems/count-and-say/>

第一个值“1” 第二个值是第一个值得读数。一个一 = “11” 下一个数是上一个数的读数 两个一 == “21”，依次类推

```
"1"  
"11"  
"21"  
"1211"  
...  

```

解题思路:

初始值为1，一个一个的求

代码:

```
class Solution {  
public:  
    string getSay(string n){  
        string res;  
        while (n.length() >= 0){  
            char now = n.at(n.length() - 1);  
            int nowc = 1;  
            string nextN = n.erase(n.length() - 1, 1);  
            while(nextN.at(-1) == now){  
                nowc++;  
                nextN = nextN.erase(nextN.length() - 1,1);  
            }  
            res = now + res;  
            res = to_string(nowc) + res;  
            n = nextN;  
        }  
        return res;  
    }  
    string countAndSay(int n) {  
        string start = "1";  
        string res;  
        for(int i = 1; i < n; i++){  
            res = getSay(start);  
            start = res;  
        }  
        return start;  
    }  
};
```