## CSE 4256: Homework 9 - Due Monday, July 5

1. The "look and say" sequence is defined as follows: beginning with the term 1, each subsequent term visually describes the digits appearing in the previous term. The first few terms are shown below:

As an example, the fourth term is 1211, since the third term consists of one 2 and one 1.

Write a function named look and say(n) that takes a positive integer as an argument and returns the n th term in the sequence.

2. Write a function named shortest path(s) that takes an absolute pathname as an argument and returns the shortest standardized path. The pathname may have . or .. as part of it. A "." indicates the current directory; a ".." means move up one directory.

For example, given "/usr/bin/../bin/./scripts/../", return "/usr/bin/".

Hint: Consider using the split() method.