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--- Day 10: Elves Look, Elves Say ---

Today, the Elves are playing a game called look-and-say. They
take turns making sequences by reading aloud the previous
sequence and using that reading as the next sequence. For
example, 211 is read as "one two, two ones", which becomes
1221 (1 2, 2 1s).

Look-and-say sequences are generated iteratively, using the
previous value as input for the next step. For each step,
take the previous value, and replace each run of digits (like
111) with the number of digits (3) followed by the digit
itself (1).

For example:

  - 1 becomes 11 (1 copy of digit 1).
  - 11 becomes 21 (2 copies of digit 1).
  - 21 becomes 1211 (one 2 followed by one 1).
  - 1211 becomes 111221 (one 1, one 2, and two 1s).
  - 111221 becomes 312211 (three 1s, two 2s, and one 1).

Starting with the digits in your puzzle input, apply this
process 40 times. What is the length of the result?

Your puzzle answer was 329356.

--- Part Two ---

Neat, right? You might also enjoy hearing
John Conway talking about this sequence (that's Conway of Conway's Game of
Life fame).

Now, starting again with the digits in your puzzle input, apply this
process 50 times. What is the length of the new result?

Your puzzle answer was 4666278.

Both parts of this puzzle are complete! They provide two gold stars: **

At this point, you should return to your advent calendar and try another puzzle.

Your puzzle input was 3113322113.

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