

--- 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` `1`s).

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 `1`s).
- `111221` becomes `312211` (three `1`s, two `2`s, 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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