— Day 1: Not Quite Lisp —

Santa was hoping for a white Christmas, but his weather machine's "snow" function is powered by stars, and he's fresh out! To save Christmas, he needs you to collect `fifty stars` by December 25th.

Collect stars by helping Santa solve puzzles. Two puzzles will be made available on each day in the Advent calendar; the second puzzle is unlocked when you complete the first. Each puzzle grants `one star`. Good luck!

Here's an easy puzzle to warm you up.

Santa is trying to deliver presents in a large apartment building, but he can't find the right floor - the directions he got are a little confusing. He starts on the ground floor (floor `0`) and then follows the instructions one character at a time.

An opening parenthesis, `(`, means he should go up one floor, and a closing parenthesis, `)`, means he should go down one floor.

The apartment building is very tall, and the basement is very deep; he will never find the top or bottom floors.

For example:

- `(())` and `()()` both result in floor `0`.
- `(((` and `(()(()(` both result in floor `3`.
- `))(((((` also results in floor `3`.
- `())` and `))(` both result in floor `-1` (the first basement level).
- `)))` and `)())())` both result in floor `-3`.

To what floor do the instructions take Santa?

The first half of this puzzle is complete! It provides one gold star: *

— Part Two —

Now, given the same instructions, find the position of the first character that causes him to enter the basement (floor -1). The first character in the instructions has position 1, the second character has position 2, and so on.

For example:

```
) causes him to enter the basement at character position 1.
()()) causes him to enter the basement at character position 5.
```

What is the position of the character that causes Santa to first enter the basement?