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--- Day 20: Firewall Rules ---

You'd like to set up a small hidden computer here so you can
use it to get back into the network later. However, the
corporate firewall only allows communication with certain
external IP addresses.

You've retrieved the list of blocked IPs from the firewall,
but the list seems to be messy and poorly maintained, and
it's not clear which IPs are allowed. Also, rather than being
written in dot-decimal notation, they are written as plain
32-bit integers, which can have any value from 0 through
4294967295, inclusive.

For example, suppose only the values 0 through 9 were valid, and that you
retrieved the following blacklist:

```
5-8
0-2
4-7
```

The blacklist specifies ranges of IPs (inclusive of both the start and end
value) that are not allowed. Then, the only IPs that this firewall allows
are 3 and 9, since those are the only numbers not in any range.

Given the list of blocked IPs you retrieved from the firewall (your puzzle
input), what is the lowest-valued IP that is not blocked?

Your puzzle answer was 32259706.

--- Part Two ---

How many IPs are allowed by the blacklist?

Your puzzle answer was 113.

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.

If you still want to see it, you can get your puzzle input.

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