Day 2: Gift Shop

The ranges are separated by commas (`,`); each range gives its **first ID** and **last ID** separated by a dash (`-`).

Since the young Elf was just doing silly patterns, you can find the **invalid IDs** by looking for any ID which is made only of some sequence of digits repeated twice. So, `55` (`5` twice), `6464` (`64` twice), and `123123` (`123` twice) would all be invalid IDs.

None of the numbers have leading zeroes; `0101` isn't an ID at all. (`101` is a **valid** ID that you would ignore.)

What do you get if you add up all of the invalid IDs?

Answer: 20223751480

Part Two

Now, an ID is invalid if it is made only of some sequence of digits repeated **at least** twice. So, `12341234` (`1234` two times), `123123123` (`123` three times), `1212121212` (`12` five times), and `1111111` (`1` seven times) are all invalid IDs.

What do you get if you add up all of the invalid IDs using these new rules?

Answer: 30260171216