An SSN is a 9-digit number with zeroes allowed in every position.

1. How many SSNs are there?

\[10^9\]

2. How many SSNs (when thought of as an integer) are a multiple of 5?

\[10^9/5\]

3. How many SSNs are there that have only two distinct digits and all the occurrences of the same digit are consecutive? (such as 111333333 or 555555552)?

\[10 \times 9 \times 8\] (Choose first, choose second, choose how many of the first)