Samantha and Sam are playing a numbers game. Given a number as a string, no leading zeros, determine the sum of all integer values of substrings of the string. For example, if the string is $42$, the substrings are $4, 2$ and $42$. Their sum is $48$.

Given an integer as a string, sum all of its substrings cast as integers. As the number may become large, return the value modulo $10^9 + 7$.

**Function Description**

Complete the *substrings* function in the editor below. It should return the sum of the integer values of all substrings in a string representation of a number, modulo $10^9 + 7$.

substrings has the following parameter(s):

- *n*: the string representation of an integer

**Input Format**

A single line containing an integer as a string without leading zeros.

**Constraints**

- $1 \leq n \leq 2 \times 10^5$

**Output Format**

A single line which is sum of the substrings, $T\%(10^9 + 7)$

**Sample Input 0**

```
16
```

**Sample Output 0**

```
23
```

**Explanation 0**

The substring of number `16` are `16, 1` and `6` which sums to `23`.

**Sample Input 1**

```
123
```

**Sample Output 1**

```
164
```

**Explanation 1**

The sub-strings of `123` are `1, 2, 3, 12, 23, 123` which sums to `164`.