Sam and substrings

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 $10^9 + 7$.

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`.