# Ada and Expenses

Ada the Ladybug has just returned from her trips. She noted all her expenses. Sadly, she only had a small piece of paper so she had to keep it in a compressed form. The compressed form is just a very long number. To restore the expenses, simply sum all contigous subsequences of the number. Since this number might be pretty big, you only have to output it modulo **10<sup>9</sup>+7** (100000007).

Can you help her to restore the number?

#### Input

The first and the only line of input containts the compressed sequence of digits ([0..9]):  $1 \le |s| \le 2*10^6$ 

## Output

Print the sum of all contigous subsequences

## **Example Input**

123

#### **Example Output**

164

#### **Example Input 2**

001

## **Example Output 2**

3

#### **Example Input 3**

105004400

#### **Example Output 3**

127807548

#### **Example Input 4**

4774

## **Example Output 4**

## **Example Input 5**

4369383968

# Example Output 5

353343059

## Example Input 6

447723168365033648256648424988

#### **Example Output 6**

42233771