## 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 $\mathbf{1 0}^{\mathbf{9}} \mathbf{+ 7}$ (1000000007).

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]): $1 \leq|\mathbf{s}| \leq$ $2^{*} 10^{6}$

## 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

