2858 - Parsing Binary Strings

Description

A string composed only by ones, ceros, and lowercase letters between 'a' to 'z' is given. The ones and ceros are grouped in segments of length between 1 and 10000, there will be no two consecutive groups and we call them binary segments.

You must develop a program for converting all binary segments to their decimal values. As this numbers can be very big, you must print them modulated by 1000000007 (10^9 + 7).

Input specification

A non-empty string of at most 10000 characters: composed only by ones, ceros, and lowercase letters between 'a' to 'z'.

Output specification

The given string, but with all binary segments converted to their decimal values (modulated if needed).

Sample input

```
welcometothe101acmicpcctcweexpecttohave11101110011010110010100110101 1editionsmore
```

Sample output

```
welcometothe5acmicpcctcweexpecttohave100editionsmore
```

Hint(s)

Source	Yonny Mondelo Hernández
Added by	**ymondelo20**
Addition date	2014-04-28
Time limit (ms)	25000
Test limit (ms)	1000

Memory limit (kb)	256000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text