Caribbean Online Judge

3093 - Remainder of Word

Description

Peter taught his little brother John how it works the remainder operator of the integer division. One week later, Peter told John: "Today, I'm going to teach you how to find the remainder of one word". John asked immediately to his brother: ¿How was it? Peter smiled and said: "Don't worry. You'll see that is not complicated". Right now, you know how to find the remainder of the division of two integer numbers. Now, you are going to find the remainder of one word. Actually, it is a process very simple. You only have to replace each letter of the word by a certain number. Finally, you multiply all the numbers just like you do with integer numbers and you find the remainder between the result and 26, because there are 26 letters in the English alphabet.

The replacing process is very easy too. The letter A is replaced by the number 1, the letter B by the number 2, and so on until the letter Z is replaced by 26. You are going to multiply only capital letters of the English alphabet. Below I show you the table you need to replace the letters. One last detail, the result always will have two digits. For example, if the remainder is a number higher than 9, there is no problem. But if the result has only one digit, you must print one leading zero to complete two digits. Easy, right?

Replacing table

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

Input specification

The input contains in the first line the word that John will use to compute the remainder. This word never has more than 100000 capital letters of the English alphabet.

Output specification

The output contains the remainder of the word given in the input with two decimal digits, just like Peter said.

Sample input

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ABCDEF
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Sample output

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18
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Hint(s)

Input Sample #2

AG

Output Sample #2

07