Problem K. Keyword and Numeral

Input file:	*standard input*
Output file:	*standard output*
Time limit:	1 second
Memory limit:	1024 mebibytes

You are given an expression of the form $a = b + c$, where a is a keyword (a non-empty string of digits and lowercase or uppercase English letters, starting with a letter), and b and c can be either a keyword or a positive integer numeral in decimal notation (a non-empty string of digits from 0 to 9, starting with a non-zero digit).

You need to place apostrophes in all numerals in the expression, if they are present. The first apostrophe is placed between the third rightmost and fourth rightmost digits (if both digits are present), the second between the sixth rightmost and seventh rightmost (if both digits are present), in general, the k-th apostrophe is placed between the $3k$-th rightmost and $3k + 1$-th rightmost digits (if both digits are present).

Input

The input consists of a single line of the form a=b+c, where a is a non-empty string composed of lowercase and uppercase English letters and digits, starting with a letter, and each of b and c is either a non-empty string composed of lowercase and uppercase Latin letters and digits, starting with a letter, or a non-empty string of digits starting with a non-zero digit. The length of each of the strings a, b, and c does not exceed 1000 characters. There are no spaces between the strings and the characters `+` and `=`.

Output

Output the expression obtained from the original by inserting apostrophes into the numerals. No other changes (such as inserting spaces) are allowed.

Examples

standard input	*standard output*
mrc2024=mrcq+20241117	mrc2024=mrcq+20'241'117
success=skill+luck	success=skill+luck