Problem G
Noonerized Spumbers

Everyone has heard of spoonerisms, named after William Archibald Spooner, an Oxford professor who had a habit of swapping prefixes of words, often with comical results. "May I show you to your seat?" became "May I sew you to your sheet?" and "a crushing blow" became "a blushing crow."

Just imagine him as a student of arithmetic, occasionally swapping the prefixes of the numbers he was calculating with and then wondering why his equations never made any sense. For instance, when he writes:

92 + 2 803 = 669 495

what he really intended to write was:

6 692 + 2 803 = 9 495

(He swapped prefixes "9" and "669" in the first and third numbers.) And when he writes:

6 891 * 723 = 4 979 753

what he really intended to write was:

7 291 * 683 = 4 979 753

(He swapped the prefix "72" with the prefix "68" in the first and second numbers.)

Grading homework from young Mr. Spooner is quite a challenge. Fleas pined a way to help!

Input

The input consists of a single line containing an expression of the form "$x + y = z$" or "$x * y = z$", where x, y, and z are positive integers less than 2^{31}. There will be single spaces surrounding the "$+$" and "$*$" operators and the "$=$" sign. The expression will not be a mathematically correct equation.

Output

Output a mathematically correct equation consisting of the input line modified by swapping proper prefixes of two of the three numbers x, y, z. (A proper prefix of a string s is a prefix that is neither empty nor equal to s.) Separate the numbers, operators, and the "$=$" sign with single spaces. All integers in the correct equation will be non-negative and less than 2^{31}. There is guaranteed to be only one possible correct equation that can be formed by swapping proper prefixes.

Sample Input 1	Sample Output 1
`92 + 2803 = 669495`	`6692 + 2803 = 9495`

Sample Input 2	Sample Output 2
`6891 * 723 = 4979753`	`7291 * 683 = 4979753`