G. The Fraction

time limit per test: 1 second memory limit per test: 256 megabytes

input: standard input output: standard output

Periodic decimal fraction is usually written as: [entire_part.non-periodic_part (period)]. Any simple fraction can be represented as a periodic decimal fraction and vice versa. For example, the decimal fraction 0.2(45) corresponds to a fraction 27/100. Your task is to convert the periodic fraction to a simple periodic fraction.

Input

The first line contains the periodic decimal fraction x ($0 \le x \le 1$) in the format described in the statement. The total number of digits in the period and non-periodic part of the fraction does not exceed 8. Non-periodic part may be absent, the periodic part can't be absent (but it can be equal to any non-negative number).

Output

Print the representation of the fraction x as a simple fraction p / q, where p and q are mutually prime integers.

Examples

output

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input	
0.2(45)	
output	
27/110	
input 0.75(0)	
0.75(0)	