Fractions

You are sitting at your computer surfing the internet when a chance forum post stirs memories of an idyllic past. There were so many different ways of representing rational numbers back then - percentages, decimals, and of course the mixed fraction. There was always something so wonderful about mixed fractions - the way they quickly told you how big the number was yet still conveyed the subtleties of the fractional part. Such elegance... You shed a silent tear for days long gone.

In this task you are given a fraction in the form n/d, where 1 <= d < n <= 1,000,000,000. Your task is to find the two integers a and b, where 0 <= b < d and ad + b = n. You do not need to (and shouldn't) simplify the fraction.

Input

A single line containing the integers n and d separated by a space.

Output

If b is not 0, print a single line in the format a b/d. Otherwise, print a.

Sample Input 1

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22 6
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Sample Output 1

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3 4/6
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Sample Input 2

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49 7
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Sample Output 2

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7
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