

3031 - Mixed Fractions

Description

You are part of a team developing software to help students learn basic mathematics. You are to write one part of that software, which is to display possibly improper fractions as mixed fractions. A proper fraction is one where the numerator is less than the denominator; a mixed fraction is a whole number followed by a proper fraction. For example the improper fraction $27/12$ is equivalent to the mixed fraction $2 \frac{3}{12}$. You should not reduce the fraction (i.e. don't change $3/12$ to $1/4$).

Input specification

Input has one test case per line. Each test case contains two integers in the range $[1; 2^{31} - 1]$. The first number is the numerator and the second is the denominator. A line containing 0 0 will follow the last test case.

Output specification

For each test case, display the resulting mixed fraction as a whole number followed by a proper fraction, using whitespace to separate the output tokens.

Sample input

```
27 12
2460000 98400
3 4000
0 0
```

Sample output

```
2 3 / 12
25 0 / 98400
0 3 / 4000
```

Hint(s)

Caribbean Online Judge

Source	ACM-ICPC East Central North America Regional Programming Contest
Added by	ralcolea
Addition date	2014-10-29
Time limit (ms)	800
Test limit (ms)	400
Memory limit (kb)	65536000
Output limit (mb)	64
Size limit (bytes)	30000
Enabled languages	Bash C C# C++ C++11 Java JavaScript-NodeJS Pascal Perl PHP Prolog Python Ruby Text