

Fraction Action

Problem Description

Many advanced calculators have a fraction feature that will simplify fractions for you.

You are to write a program that will accept for input a non-negative integer as a numerator and a positive integer as a denominator.

If invalid input is provided at a prompt, the prompt should be repeated.

Your program should output a mixed fraction in lowest terms.

That is, the fraction cannot be reduced any further, and the numerator will be less than the denominator.

Sample Input/Output Sessions – (user input is in **bold**)

```
Numerator?  
apples  
Numerator?  
28  
Denominator?  
7  
The result is:  
4
```

```
Numerator?  
13  
Denominator?  
5  
The result is:  
2 3/5
```

```
Numerator?  
0  
Denominator?  
7  
The result is:  
0
```

```
Numerator?  
55  
Denominator?  
10  
The result is:  
5 1/2
```