Write a procedure

    bool read_rational (int& num, int& den);

that tries to read a rational number given in the form “numerator”/“denominator”, and stores these two values in `num` and `den`, respectively. Additionally, you must remove all common factors from `num` and `den`. Furthermore, if the input had a rational number, you must return `true`; otherwise you must return `false`. For instance, this code

    int num, den;
    while (read_rational (num, den)) cout << num << ' ' << den << endl;

with this input

    66/12
    100/100

should print

    11 2
    1 1

**Precondition**

$1 \leq num \leq 10^9$ and $1 \leq den \leq 10^9$

**Observation**

You only need to submit the required procedure; your main program will be ignored.

**Problem information**

Author : Salvador Roura
Translator : Salvador Roura
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