Write a procedure

```c
void read_rational (int& num, int& den);
```

to read a rational number given in the form “numerator”/“denominator”, and store these two values in `num` and `den`, respectively. Additionally, you must remove all common factors from `num` and `den`. For instance, if the input has

\[ \frac{66}{12} \]

the values after the call must be `num = 11` and `den = 2`.

**Precondition**

\[ 1 \leq num \leq 10^9 \text{ and } 1 \leq den \leq 10^9 \]

**Observation**

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

**Problem information**

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