Using the same definition of the rational numbers as in problem P85696, write a function with two output parameters:

```cpp
void read_rational (Rational &r, bool &end);
```

that tries to read a rational number represented by two integer numbers (the numerator and the denominator), returns the corresponding “normalized” rational according to the same convention that in the exercise, and prints if the two integer have been read. `end` must be `true` if and only if have not been read (because the input has finished). The value of `r` is irrelevant when `end` is true.

**Precondition**

None of the read denominators will be 0.

Write also a procedure

```cpp
void print_rational (const Rational &r);
```

that prints the rational `r` with the format `r.num/r.den`, unless the denominator is 1, case in which print only the numerator. Do not print any intermediate space nor any jump line at the end.

**Precondition**

The rational `r` is correct and it is already normalized.

**Observation**

You only need to submit the required classes; your main program will be ignored. Strictly obey the type definitions of the statement.

**Problem information**

Author : Salvador Roura  
Translator : Carlos Molina  
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