
Rational numbers (2)

P84584_en

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

```
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

```
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

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