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 **RACI1**, 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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