Rational numbers (3)   P53361_en

Using the same definition of the rational numbers as in problem P85696, write the functions

> *Rational sum*(**const** *Rational*& *a*, **const** *Rational*& *b*);
> *Rational substraction* (**const** *Rational*& *a*, **const** *Rational*& *b*);
> *Rational product* (**const** *Rational*& *a*, **const** *Rational*& *b*);
> *Rational division* (**const** *Rational*& *a*, **const** *Rational*& *b*);

that returns respectively the sum, the substraction, the product and the division of two rational numbers given, "normalized" according to the same convention that in the exercise : "".

Write also the procedure

> **void** *adds_one*(*Rational*& *r*);

that adds an unit to the rational number *r*.

Precondition

The rational numbers *a* and *b* are correct and normalized. In the case of division, $b \neq 0$.

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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