

Define a class named Rational with two integer member variables: numerator and denominator. Define accessors, mutators, input and output functions, a default constructor, and a constructor which may receive one or two arguments.

Notes:

- The denominator cannot be set to zero, setDenomionator function will set the Denominator to 1 if the argument passed to this function is zero.
- The input function asks the user to re-enter the denominator if the user enters zero for the denominator.
- the numerator and denominator in a Rational object are reduced to their lowest terms. To reduce a rational number to its lowest terms, you need to find the greatest common divisor (GCD) of the absolute values of its numerator and denominator and then divide both numerator and denominator by this value.
- If the numerator and denominator are negative, both must be converted to positive. If the denominator is negative and the numerator is positive, both must be negated.

In the main function, Define three rational numbers:

Rational a, b(6), c(-6, -8), d(9,-6);

a is stored as 0/1, b is stored as 6/1, c is stored as 3/4, d is stored as -3/2.