

OOP244EF Workshop 5B

Focus: Helper Functions as Friends of a C++ Class.

You are going to re-work the Fraction class from Workshop 5. You need to modify **Fraction.h** and **Fraction.cpp** that you have completed in Workshop 5.

Part A: In-Lab (due at the end of the computer lab time). [30%]

Convert the implementation of the operator + (a member operator function) into a **helper function** that is a friend of the Fraction class. Here is the function prototype:

Fraction operator+ (const Fraction& rhs, const Fraction& lhs).

Upload your code to matrix. Compile Fraction.h, Fraction.cpp and w5_in_lab.cpp on matrix. You should get the same output as in the in-lab part of Workshop 5.

Take a screenshot of the correct output on matrix.

Submit the screenshot, Fraction.h and Fraction.cpp to **Blackboard**. (Click the **Assignments** link and **W5B1**.)

Note: You will receive a zero if your Blackboard submission is late.

Part B: At-Home (due on two days before the next scheduled lab). [70%]

Convert the implementations of operator == and operator != into **helper functions** that are friends of the Fraction class. You need to declare the correct function prototypes first.

Upload your code to matrix. Compile Fraction.h, Fraction.cpp and w5_at_home.cpp on matrix. You should get the same output as in the at-home part of Workshop 5.

Take a screenshot of the correct output on matrix.

Submit the screenshot, Fraction.h and Fraction.cpp to **Blackboard**. (Click the **Assignments** link and **W5B2**.)

Note: You will receive a zero if your Blackboard submission is late.