4/23/2018 Homework 07

Homework 07

Re-submit Assignment

Due Mar 16 by 11:59pm **Points** 10 **Submitting** a file upload

In HW5, we have developed a class called **USLength** that is an abstract data type (ADT) for a length. In this HW, we modify the class.

- Divide your class code into two parts:
 - USLength class header file USLength.h
 - USLength class implementation file USLength.cpp
- Determine namespace name as you like. (ex. your name, your initial...)
 - Define your **USLength** class under the namespace.
- Add following overloaded operators.
 - operator + to compute (USLength object) + (USLength object)
 - operator += to compute (USLength object) += (USLength object)
 - operator * to compute (USLength object) * (int)
 - operator * to compute (int) * (USLength object)
 - operator / to compute (USLength object) / (int)
 - operator *= to compute (USLength object) *= (int)
 - operator /= to compute (USLength object) /= (int)
 - operator < to evaluate (USLength object) < (USLength object)
 - operator <= to evaluate (USLength object) <= (USLength object)
 - operator > to evaluate (USLength object) > (USLength object)
 - operator >= to evaluate (USLength object) >= (USLength object)
 - operator == to evaluate (USLength object) == (USLength object)
 - operator << to perform (ostream object) << (USLength object)
- Use call-by-referece for **input arguments** if possible.
- Add "const" modifier for input arguments that are not modified in function body.
- Add "const" modifier to member functions that do not change member variables.
- Develop main.cpp to test your USLength class.
- · You will have three files to upload.

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