

CSCI 15 Lab #6 – Template functions – due 11/8/18

Create template functions to calculate and return the absolute value of any numeric type and to find the minimum and maximum of two values of any same and comparable type (e.g., 2 C++ strings are OK, 2 arrays are not comparable). Then extend your two-parameter minimum and maximum template functions to take three parameters, using the template functions for the two-value minimum and maximum functions as helpers. You will have five template functions.

Create a test program to declare variables of several different data types and to demonstrate the templates with various data types and values.

Then create a little class type with operator `<` and `>` methods (as appropriate to your comparators in the template function) and add this to the test program to show that the template functions work with the class type, too. A simple wrapper class around a numeric (scalar) type is fine for this class. Do not make this class a template class.

Send me the final version of the program and output from several tests.