

C++ Programming Lab #6

Valparaiso University CS Department

April 20, 2023

Learning Objectives: Understand how templates work in C++.

Turn-In Instructions: Submit a screenshot of your code's output and copy that into a word document. Below the output, copy and paste your code.

Helpful Context: Think back to using ArrayLists in Java. When you create an ArrayList, you can choose to specify what data types it handles. You can force it to exclusively hold integers, doubles, Strings, or any other data type. Templates in C++ function in a very similar fashion, but they are far more versatile and useful.

1. Create a sorting method of your choice using templates in C++. Once it is created, demonstrate in your main method how you can sort any data type using your method. Try sorting integers, doubles, and character data types.

Hint: You will want to use template `<class T>`