# Assignment 5

**Due** Oct 26 by 7pm     **Points** 120

## Project 5.a

Modify the **selection sort** function presented in chapter 9 so it sorts an array of C++ strings (std::string) instead of an array of ints.  It should take two parameters, an array of strings, and the size of the array.  If you use the built-in string comparison, "Zebra" would come before "alligator" because in ASCII capital letters have lower numbers than lower-case letters.  **Your sort, however, should be case-insensitive**, so that "alligator" would come before "Zebra".  Hint: you can make your own string comparison function that uses toupper() together with the built-in string comparison, but don't change the original strings.  Your function must be named *stringSort*.

The file must be called **stringSort.cpp**

## Project 5.b

Modify the **bubble sort** function presented in chapter 9 so that it sorts an array of Boxes **from greatest volume to least volume** (use your Box.hpp and Box.cpp from Project 3.a).  It should take two parameters, an array of Boxes, and the size of the array.  Your function must be named *boxSort*.

The files must be named **Box.hpp**, **Box.cpp** and **boxSort.cpp**