Pair Programming 9 Activities

* **Always use the pair programming tests to ensure your program works properly. Evaluation is based primarily upon correct execution. Activities without test screen shots and/or code will be earned. Both must be included.**
* **Take a screen shot with a white background of each execution in the tests.**
* **Download the source code file for inclusion in the turn in document.**
* **Turn in pair programming activities using the pair programming turn in document.**
* **It is each individual’s responsibility to turn in the assignment and pair programming is graded individually so make sure you share the work you and your partner did together as you go.**
* **Do not share work with your partner that you did not do together.**
* **Pair Programming is group work, but you can only work with your assigned partner. If you do not work with your partner, you can only earn 50% of pair programming points.**
* **Make sure you have your partner’s name, username and contact information such as Pellissippi WebMail.**

9a. (5 points) Create a new workspace/project in the IDE called pp9a. Create two NEW files (don’t add exiting ones) book.cpp and book.h to this project. Copy the code from main9a.cpp, book.h, and book.cpp from the Pair Programming assignment and paste it into these files. Read through main.cpp so you understand the output it should generate since it is the driver to test your template functions. Create a file myPair.h that has the code for the MyPair template class. Create file myAlgorithms.h and write the following template functions in it. Use the Pair Programming tests to test these functions.

* mySwap: has two parameters and swaps their actual values
* myMin: has two parameters and returns the smallest. Pre-condition: operator< has been overloaded to compare the two parameters
* mySort: has two parameters, an array and the number of elements in the array. Sorts the elements. Calls mySwap above. Pre-condition: overloaded operator< in parameter class.
* mySearch: has three parameters, an array, the number of elements in the array and a key to find in the array. Returns the index found or -1 if the key isn’t found in the array. Pre-condition: overloaded operator== in parameter class.

See the Lecture Notes for further instructions and help with the pair programming.

Use the pair programming test cases to test your program. Make corrections if the program output does not match the tests. Capture screen shots of each correct execution.

9b. (5 points) Create workspace/project in the IDE called pp9b. This Pair Programming assignment creates a templated linked list class complete with templated node and iterator classes. As described in the Lecture Notes, complete files node.h, iterator.h, and linkedList.h with all functions whose declarations are included in the class definitions. Add the input file b1.txt from the Pair Programming Assignment to your project. Copy the code from main9b.cpp and paste it into main.cpp. Read through this main function to understand what it will test. Complete, link, and execute the entire project using the assignment test cases to verify the program’s correctness.

See the Lecture Notes for further instructions and help with the pair programming.

Use the pair programming test cases to test your program. Make corrections if the program output does not match the tests. Capture screen shots of each correct execution.