1. Study Nguyen, Chapter 4.1, 4.2 subsections Abstract sorter class, Implementation of ASorter, Implementation of a sort application, Implementation of MergeSorter.

2. Do Nguyen, Exercise 4–2 to implement the join() method of MergeSorter.
   The main program is in the SortInt project, and it includes file MergeSorter.hpp, which is in the ASorter project. The main program in the SortInt project is the one you should build and run. It will prompt you for a file name of data to sort. You can use data from the files
   i050.txt
   i100.txt
   i200.txt
   i400.txt
   i600.txt
   i800.txt
   which contain 50, 100, 200, 400, 600, and 800 random integer values respectively. Remember to change the working directory in CLion for the SortInt project.
   Hand in only
   MergeSorter.hpp
   electronically with the file name prefixed with your two-digit course ID number.