

Homework 1 – Due Sep. 16th 23:59, Korea time (GMT+9)

Instructions: Complete the program and a report (if any) and turn it in before the due date. Any deviations from the instructed deliverable format will result in a deduction of grade. No late submission for this assignment will be accepted. DO NOT COPY OTHER'S WORKS!

As your first programming assignment, you will create a very simple and crude data structure on your own. In particular, you will read in a file containing lines of student records. Each line will be a space-separated string in the format of "<STUDENT_NAME> <STUDENT_MAJOR> <STUDENT_ID>". The purpose of this assignment is to help you understand what it means to manage data in an OOP fashion without the help of existing data structures. As such, you must not use any external packages other than the one we're providing for file reading. Doing so will result in a zero credit.

The file reading part is implemented for you. Your task is to store that information into the internal `rawData` array and implement methods that provide access and modification to `rawData`. For the behaviors of each method that you need to implement, please refer to the comment headers in the source file. Carefully read all the 'TODO' comments in the code.

You will be graded on correctness and cleanliness of your code. The former states that all of your implementation must exhibit correct behavior, and the latter states that you should write intuitive and clean code. If you are not sure about the level of cleanliness, supply your code with comments that detail your approach and intention.

Files

- HW1.java – Initial skeleton code for your submission. Complete this and turn it in.
- HW1Test.java – A class designed to facilitate test. You may freely modify this class for your own convenience, but do not turn it in. The TAs will use their own versions to grade your works.
- db.txt – A sample input file. You may also freely modify this according to the syntax, but we'll use our own to grade your submission. This file MUST be in the same directory as the final class files you're executing are at.

Deliverables

- A single HW1.java file containing your name and SBU ID in the top-most comment. Do NOT use any package structures (i.e., no package declaration in the top).