```
import java.io.FileWriter;
import java.io.IOException;
import java.util.ArrayList;
 * COMP215-Programming Project 3: 01 Knapsack Problem.
 * MULTIFILEWRITER is a wrapper for 3 other FileWriters.
 * TestResults are parsed and directed to their proper destination.
 * @author Andrew Parsons
 * @version 08 March 2017
class MultiFileWriter {
    /* --- INSTANCE VARIABLES --- */
   private FileWriter greedy;
   private FileWriter dynamic;
   private FileWriter bruteforce;
    /* --- METHODS --- */
     * (package-private) MULTIFILEWRITER is the constructor for this object.
     * The constructor instantiates an ArrayList of FileWriters, sets their output directories,
     * creates each file, and writes the CSV header row.
     * /
   MultiFileWriter() {
        ArrayList<FileWriter> fileWriters = new ArrayList<>();
        String greedyDIR = "output/greedy.csv";
        String dynamicDIR = "output/dynamic.csv";
        String bruteforceDIR = "output/bruteforce.csv";
        try {
            greedy = new FileWriter(greedyDIR);
            dynamic = new FileWriter(dynamicDIR);
            bruteforce = new FileWriter(bruteforceDIR);
            fileWriters.add(greedy);
            fileWriters.add(dynamic);
            fileWriters.add(bruteforce);
        } catch (IOException e) {
            e.printStackTrace();
        for (FileWriter fileWriter: fileWriters) {
            try {
                fileWriter.append("n");
                fileWriter.append(',');
                fileWriter.append("T(n)");
                fileWriter.append('\n');
                fileWriter.flush();
            } catch (IOException e) {
                e.printStackTrace();
        }
   }
     * (package-private) PROCESSTESTRESULT directs an incoming TestResult to the correct
    FileWriter, where it is parsed
     * and written to the CSV file.
```

```
* @param testResult the incoming TestResult from AlgorithmTester
 * @param solution the solution tested in AlgorithmTester
 * @throws Exception
void processTestResult(TestResult testResult, Solution solution) throws Exception {
   if (solution instanceof GreedySolution) {
       greedy.append(testResult.returnSizeOfArrayAsString());
       greedy.append(',');
       greedy.append(testResult.returnMeanTimeAsDoubleString());
       greedy.append(' \n');
       greedy.flush();
   }
   else if (solution instanceof DynamicSolution) {
       dynamic.append(testResult.returnSizeOfArrayAsString());
       dynamic.append(',');
       dynamic.append(testResult.returnMeanTimeAsDoubleString());
       dynamic.append('\n');
       dynamic.flush();
   }
   else if (solution instanceof BruteforceSolution) {
       bruteforce.append(testResult.returnSizeOfArrayAsString());
       bruteforce.append(',');
       bruteforce.append(testResult.returnMeanTimeAsDoubleString());
       bruteforce.append('\n');
       bruteforce.flush();
   }
```