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ADS2 – Assessed Exercise 1

How to run code:  
Three Java files provided, Algorithm.java, TimeSortingAlgorithm.java and TestSortingAlgorithm.java

As long as the test files, provided by AE1 (int10.txt, int50.txt, int100.txt, int1000.txt, int20k.txt, int500k.txt, intBig.txt, dutch.txt), are all in the same file directory as the java project then this will run.

Instructions:

* Open folder as java project in Eclipse/IntelliJ (IDE).
* Open TestSortingAlgorithm.java.
* Make any adjustments to main method as desired
* Run program.

The main method contains the instructions and has extra commented-out code for other variations. It is currently set up to test all main sorting algorithms, bar insertion sort.

The compareAlgorithms method (in TimeSortingAlgorithm) is comprised of other private static methods, which are primarily the other sorting algorithms (which can be commented out and will not cause errors. Note that 1 is the output for an untimed algorithm).

Each algorithm contains a check to ensure that if an array is not correctly sorted then an InterruptedException will be thrown (with a stack trace which shows which array did not sort).

Findings: