**Testplan 7423 Review (Testing Code 8618)**

Test plan 7423 does work as intended, but seems to have room for improvement. The test plan is very short and to the point, but it is not very descriptive.

The test plan does not mention how to set up the test plan code or process at all (e.g. creating a file to test with, how to create a table etc.), and relies on the tester to know these implementation details their selves in order to test. The tests do not even mention what method to call to return if the table is sorted or not or which method to call to sort it.

Some test cases have under expected output “Sort Table” which sounds like it may be a step, unless the test case writer had a particular implementation that printed that out, but that is not a specification of the assignment. One test case has what the matrix would look like sorted under expected output but never mentions to print the table.

Test T5 tests creating an empty table, with the expected output of the program exiting, but the output was an error. There was not a specification for the program to just exit automatically.

Test T6 tests using integers with more than one digit, but it could have been combined into another test such as T4. This would have been able to test negative integers and integers of more than one digit at the same time.

One test that may be important to include is sorting a matrix or isSorted with only one value. One value is still n x n and it may be interesting to see how the program would handle it.

It is not explicitly mentioned under “features to test” if rows are ascending and if columns are ascending as it is never mentioned under any of the tests, although the tests that sort a completely unsorted matrix to sorted do cover it.

Other tests seem to be missing. These tests include entering a double/float into the table, a NaN in the table (particularly : and / since they are ascii values near 0-9), or boundary values of integer values entered into a table.