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Blackbox Test Homework

Test plan for sortable()

**JUnit testing**

In the program, there are two JUnit tests included. One that creates a 3X3 table with sorted rows and unsorted columns and then calls the sortable() method to return the sorted table. The second test creates a 10X10 table with unsorted rows and unsorted columns.

Both tests should successfully sort and display the table in ascending order by rows and by columns.

To run these tests, run the TableTest class included in the package.

**Additional testing**

To test incorrect input values:

-Table1.txt: containing a non-square number of integers separated by spaces (ex. 4 7 3 1 8 9 )

To run test:

Table t = getTable(“Table1.txt”) System.out.println(t); t.sortable()

System.out.println(t);

-Table2.txt: containing a square number of double values separated by spaces (ex. 2.1 3.4 7.0 9.7)

To run test:

Table t = getTable(“Table2.txt”) System.out.println(t); t.sortable()

System.out.println(t);

To test Table size boundaries:

Table3.txt: containing a total number of integer values separated by spaces equal to 2,147,302,921 (the last perfect square before reaching Integer.MAX\_VALUE), i.e. to create a 46339 X 46339 table.

To run test:

Table t = getTable(“Table3.txt”) System.out.println(t); t.sortable()

System.out.println(t);