**Test Plan Review of #0144**

**Review Criteria:**

Spelling mistakes – makes reading the test plan harder to understand

Grammar – being able to interpret the test plan

Template format – Ease to follow test plan

Functionality – Do the tests actually tell me something about functionality.

**Review of plan:**

1st paragraph: I assume this is the setup paragraph (it is not marked). It was clear how to set up the tests but it could have been formatted better for ease of understanding the different steps.

2nd paragraph: This paragraph was a little confusing since there were spelling and grammar errors. It explains that each test has some kind of error and each test depends on the previous one. This is bad practice as each test should not depend on others.

3rd paragraph: four tests are grouped into this paragraph. It is a little unclear what is being tested here besides the sorting and handling of negative numbers. Minor grammar errors

4th paragraph: two tests are grouped into this paragraph that tests larger tables and duplicates

5th paragraph: two tests are grouped into this paragraph that tests there is no data loss for a 0 to 255 values in a table and checks something called Sortedrevs to test sorting in reverse to ensure no data loss. It is unclear why this test is included

6th paragraph: the last test is to check a table that is 255 x 255 in size. However, I was unable to locate this test in the junit file.

**Conclusion:**

**Spelling, Grammar, Format:**

There were only a few misspelling errors that made it a little difficult to understand what was being said. Grammar mistakes made it more difficult to understand what the tests were actually doing. The format could have been much better to organize the information and could have possibly made it more tester friendly.

**Functionality:**

It was difficult to figure out what the tests were actually testing for. However, both of his tests passed. Each test was grouped into a larger test and by the document if one failed it would print a message saying which failed. I would recommend splitting the tests up to be individual as if one test fails the rest of the tests do not execute. The coverage of requirements, by reading the test plan, is good as it covers most functionalities I would also have tested. One problem with the tests is the output below. I get this stack trace and I cannot find the source of this trace making confusing to whether the tests actually passed or not.

starting testjava.lang.NullPointerException

at TableSorter.isRowSorted(TableSorter.java:204)

at TableSorter.isSorted(TableSorter.java:48)

at TableSorterTest.isSorted(TableSorterTest.java:16)

at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)

at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)

at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)

at java.base/java.lang.reflect.Method.invoke(Method.java:567)

at org.junit.platform.commons.util.ReflectionUtils.invokeMethod(ReflectionUtils.java:675)

at org.junit.jupiter.engine.execution.MethodInvocation.proceed(MethodInvocation.java:60)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain$ValidatingInvocation.proceed(InvocationInterceptorChain.java:125)

at org.junit.jupiter.engine.extension.TimeoutExtension.intercept(TimeoutExtension.java:132)

at org.junit.jupiter.engine.extension.TimeoutExtension.interceptTestableMethod(TimeoutExtension.java:124)

at org.junit.jupiter.engine.extension.TimeoutExtension.interceptTestMethod(TimeoutExtension.java:74)

at org.junit.jupiter.engine.execution.ExecutableInvoker$ReflectiveInterceptorCall.lambda$ofVoidMethod$0(ExecutableInvoker.java:115)

at org.junit.jupiter.engine.execution.ExecutableInvoker.lambda$invoke$0(ExecutableInvoker.java:105)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain$InterceptedInvocation.proceed(InvocationInterceptorChain.java:104)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain.proceed(InvocationInterceptorChain.java:62)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain.chainAndInvoke(InvocationInterceptorChain.java:43)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain.invoke(InvocationInterceptorChain.java:35)

at org.junit.jupiter.engine.execution.ExecutableInvoker.invoke(ExecutableInvoker.java:104)

at org.junit.jupiter.engine.execution.ExecutableInvoker.invoke(ExecutableInvoker.java:98)

at org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.lambda$invokeTestMethod$6(TestMethodTestDescriptor.java:202)

at org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCollector.java:73)

at org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.invokeTestMethod(TestMethodTestDescriptor.java:198)

at org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTestDescriptor.java:135)

at org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTestDescriptor.java:69)

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at org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCollector.java:73)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$7(NodeTestTask.java:125)

at org.junit.platform.engine.support.hierarchical.Node.around(Node.java:135)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$8(NodeTestTask.java:123)

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at org.junit.platform.engine.support.hierarchical.NodeTestTask.executeRecursively(NodeTestTask.java:122)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.execute(NodeTestTask.java:80)

at java.base/java.util.ArrayList.forEach(ArrayList.java:1507)

at org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorService.invokeAll(SameThreadHierarchicalTestExecutorService.java:38)

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at org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorService.submit(SameThreadHierarchicalTestExecutorService.java:32)

at org.junit.platform.engine.support.hierarchical.HierarchicalTestExecutor.execute(HierarchicalTestExecutor.java:57)

at org.junit.platform.engine.support.hierarchical.HierarchicalTestEngine.execute(HierarchicalTestEngine.java:51)

at org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:229)

at org.junit.platform.launcher.core.DefaultLauncher.lambda$execute$6(DefaultLauncher.java:197)

at org.junit.platform.launcher.core.DefaultLauncher.withInterceptedStreams(DefaultLauncher.java:211)

at org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:191)

at org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:137)

at org.eclipse.jdt.internal.junit5.runner.JUnit5TestReference.run(JUnit5TestReference.java:89)

at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:41)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:541)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:763)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:463)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:209)

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at TableSorter.isRowSorted(TableSorter.java:204)

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