# Test TableSorter

<<The purpose of this section is to:

* document test input, specific test procedures, and outcomes.
* establish test methods,
* explain the nature and extent of each test >>

<< for each test case, complete the following: >>

## Test Invalid character

**Objective: Test invalid characters as input in the TableSorter Program**

**Notes:** To test this, input non-integer characters in the input file for the TableSorter Program

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 1 | | | | Current Status: Passed | | |
| Test title: Detecting invalid characters as an input | | | | | | |
| Testing approach: For this test, we are using the TableSorter java file to prove that the invalid input character is being detected. In this test I run the file in Visual Studio code and input characters that are non-integers. | | | | | | |
| STEP  1 | OPERATOR ACTION  On the file File.txt, the user inputs 9 values, combination of integers and non-integers | PURPOSE  The purpose of this step was to establish the characters being tested in the sorting algorithm, and see if it detects the invalid character | | | EXEPCTED RESULTS  The expected result from this test was catching an exception on the character when calling the file. | COMMENTS |
| Concluding Remarks:  The invalid character was detected by the software as an exception and does not let the program continue if it is detected. | | | | | | |
| Testing Team: | | | Date Completed:  2/11/2020 | | | |

## Test Zero Bound Integer

**Objective: Test the boundary of the value of zero as an input for the TableSorter program**

**Notes:** To test this, input all zero values as input

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 2 | | | | Current Status: Passed | | |
| Test title: Testing the limit bound of integer input | | | | | | |
| Testing approach: For this test, we are using the TableSorter java file to prove that there is no bound limit or issue with using the number zero for all integer inputs | | | | | | |
| STEP  1 | OPERATOR ACTION  On the file File.txt, the user inputs 9 values, all values being zeros | PURPOSE  The purpose of this is to test the boundary that TableSorter program has when working with one specific boundary, this case, being zero. | | | EXEPCTED RESULTS  The expected result from this test was to not affect the result of the sorted table. Accepting all zeros as inputs with no given errors. | COMMENTS |
| Concluding Remarks:  Using all zeros as all values for the input file did not affect the TableSorter results, only giving the arrangement in a proper way due to all values being the same. | | | | | | |
| Testing Team: | | | Date Completed:  2/11/2020 | | | |

## Test Negative Bound Integer

**Objective: Test negative input in TableSorter Program**

**Notes:** To test this, input only negative characters in the input file for the TableSorter Program

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 3 | | | | Current Status: Passed | | |
| Test title: Detecting negative values as inputs and handling them correctly | | | | | | |
| Testing approach: For this test, we are using the TableSorter java file to prove that negative numbers used as input in the program will be handled in the appropriate way, arrange in increasing order. | | | | | | |
| STEP  1 | OPERATOR ACTION  On the file File.txt, the user inputs 9 negatives integers that are being used in the Table | PURPOSE  The purpose of this step was to establish that the program can handle negative numbers and still arrange them in the correct order as the program is intended | | | EXEPCTED RESULTS  The expected result for this input will be increasing table of values even if the values are negatives | COMMENTS |
| Concluding Remarks:  Using all negative numbers we determine that in this particular program to order number in ascending order, the case of having negative number, it is no trouble, and it can sort negatives as well. | | | | | | |
| Testing Team: | | | Date Completed:  2/11/2020 | | | |

## Test No Input

**Objective: Test negative input in TableSorter Program**

**Notes:** To test this, input only negative characters in the input file for the TableSorter Program

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 4 | | | | Current Status: Passed | | |
| Test title: Determine no user input and handling | | | | | | |
| Testing approach: For this test, we are using the TableSorter java file to prove that no input will create an appropriate response on the program. | | | | | | |
| STEP  1 | OPERATOR ACTION  On the file File.txt, the user inputs no characters. | PURPOSE  The purpose of this step was to establish that the program can handle a scenario where the user does not input any characters. | | | EXEPCTED RESULTS  The expected results would be that the program will catch that the file is empty so it will give an exception. | COMMENTS  For this tests, if there is an exception, I believe that it will be better to have a warning and not stop the program when this is met. |
| Concluding Remarks:  Having a user not making any input breaks the program and it stops it. It would be better for the program to give a warning for any given exception for this specific scenario and have the user input the next values necessary. | | | | | | |
| Testing Team: | | | Date Completed:  2/11/2020 | | | |

## Test Single Number Input

**Objective: Test negative input in TableSorter Program**

**Notes:** To test this, input only negative characters in the input file for the TableSorter Program

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 5 | | | | Current Status: Passed | | |
| Test title: Testing against single input on Table | | | | | | |
| Testing approach: For this test, we are using the TableSorter java file to test how a single input will be handled by the program. | | | | | | |
| STEP  1 | OPERATOR ACTION  On the file File.txt, the user inputs 1 single integer. | PURPOSE  The purpose of this step was to establish how the program will handle only one single character as an input. | | | EXEPCTED RESULTS  The expected result for this test would be a returned table with only one single input, that has gone through the sorting algorithm. | COMMENTS |
| Concluding Remarks:  Using only a single input as the test, we determine that the program will handle the single input correctly, due to the fact that the number count is a square, and the input is an integer. | | | | | | |
| Testing Team: | | | Date Completed:  2/12/2020 | | | |