

<b>Test Case ID</b>	R1	<b>Description</b>	centralValueShouldBeZero - check the central value of the range of [-1, 1]		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	R2	<b>Description</b>	centralValueShouldBeOnePointFive - check the central va		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not e</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

value of the range of [1, 2]
1.0

--


Executed / Suspended

<b>Test Case ID</b>	R3	<b>Description</b>	centralValueShouldBeNegOnePointFive - check the centr		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirement
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

al value of the range of [-2, -1]
1.0

--

<b>s</b>

<b>t executed / Suspended</b>

<b>Test Case ID</b>	R4	<b>Description</b>	central/ValueShouldNotBeAboveZero - check the central v		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirer</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

value of the range of [-1, 1] is not above 0
1.0

--

nents

/ Not executed / Suspended

<b>Test Case ID</b>	R5	<b>Description</b>	centralValueShouldNotBeBelowZero - check the central v		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Require</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass



alue of the range of [-1, 1] is not below 0
1.0


ments

/ Not executed / Suspended

<b>Test Case ID</b>	R6	<b>Description</b>	centralValueShouldBeFiveHundMil - check the central val		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requ</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass /</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

ue of the range of [-1000000000, 2000000000]
1.0


irements

Fail / Not executed / Suspended

<b>Test Case ID</b>	R7	<b>Description</b>	upperBoundShouldBeOne - check the upper bound of the range of [-1, 1]		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	R8	<b>Description</b>	upperBoundShouldNotBeAboveOne - check the upper bo		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requiremen
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail /
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

und of the range of [-1, 1] is not above 1
1.0

--

ments

/ Not executed / Suspended

<b>Test Case ID</b>	R9	<b>Description</b>	upperBoundShouldNotBeBelowOne - check the upper bo		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Require
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fai
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

und of the range of [-1, 1] is not below 1
1.0

--

ments

1 / Not executed / Suspended



<b>Test Case ID</b>	R10	<b>Description</b>	upperBoundShouldBeTwoBil - check the upper bound of t		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Require</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

the range of [-1000000000, 2000000000]
1.0


ments

/ Not executed / Suspended

<b>Test Case ID</b>	R11	<b>Description</b>	lowerBoundShouldBeNegOne - check the lower bound of the range of [-1, 1]		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	R12	<b>Description</b>	lowerBoundShouldNotBeAboveNegOne - check the lower		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requi</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / F</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

bound of the range of [-1, 1] is not above -1
1.0


rements

ail / Not executed / Suspended

<b>Test Case ID</b>	R13	<b>Description</b>	lowerBoundShouldNotBeBelowNegOne - check the lower		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requi</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / F</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

bound of the range of [-1, 1] is not below -1
1.0

--

rements

ail / Not executed / Suspended

<b>Test Case ID</b>	R14	<b>Description</b>	lowerBoundShouldBeNegOneBil - check the lower bound		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requir
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fa
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass



of the range of [-1000000000, 2000000000]
1.0


ements

ail / Not executed / Suspended

<b>Test Case ID</b>	R15	<b>Description</b>	rangeShouldContainZeroPointNine - check value is contained in the range of [-1, 1]		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	R16	<b>Description</b>	rangeShouldContainNegZeroPointNine - check value is contained in the range of [-1, 1]		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	R17	<b>Description</b>	rangeShouldNotContainValHigherThanOne - check value		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail /
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

is not contained in the range of [-1, 1]
1.0

--

ents

Not executed / Suspended

<b>Test Case ID</b>	R18	<b>Description</b>	rangeShouldNotContainValLowerThanNegOne - check va		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Require</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

value is not contained in the range of [-1, 1]
1.0

--

ments

/ Not executed / Suspended

<b>Test Case ID</b>	R19	<b>Description</b>	neitherBoudryIsNaN - check if the range [-1, 1] is NaN		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass



<b>Test Case ID</b>	R20	<b>Description</b>	lowerBoundryIsNaNUpperBoundryIsNaN - check if the range [Double.NaN, 1] is NaN		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	R21	<b>Description</b>	lowerBoundryIsNaNUpperBoudryIsNotNaN - check if the		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requiremen
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / No
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

range [-1, Double.NaN] is NaN
1.0

--

ts

ot executed / Suspended

<b>Test Case ID</b>	R22	<b>Description</b>	rangeBoundriesAreNaN - check if the range [Double.NaN, Double.NaN] is NaN		
<b>Created By</b>	Michele Esercitato	<b>Reviewed By</b>	Dylan Mah	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Michele Esercitato	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D1	<b>Description</b>	Check if calculateColumnTotal can sum 0 columns		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D2	<b>Description</b>	See if calculateColumnTotal can correctly sum positive integers		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D3	<b>Description</b>	See if calculateColumnTotal can correctly sum negative integers		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D4	<b>Description</b>	See if calculateColumnTotal can correctly sum positive and negative integers		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass



<b>Test Case ID</b>	D5	<b>Description</b>	See if calculateColumnTotal can correctly sum positive decimals		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D6	<b>Description</b>	See if calculateColumnTotal can correctly sum negative decimals		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D7	<b>Description</b>	See if calculateColumnTotal can correctly sum positive and negative decimals		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

<b>QA Tester's Log</b>	
------------------------	--

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>	<b>S #</b>	<b>Requirements</b>
1	Downloaded test class	1	
2	Downloaded JFreeChart	2	
3	Downloaded JUnit	3	
4	Downloaded hamcrest core	4	
5	Downloaded JMock	4	

<b>Test Conditions</b>	Verify if calculateColumnTotal works for a filled table
------------------------	---

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D8	<b>Description</b>	Check if calculateRowTotal can sum 0 rows		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D9	<b>Description</b>	Check if calculateRowTotal can correctly sum positive integers		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D10	<b>Description</b>	Check if calculateRowTotal can correctly sum negative integers		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D11	<b>Description</b>	See if calculateRowTotal can correctly sum positive and negative integers		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D12	<b>Description</b>	See if calculateRowTotal can correctly sum positive decimals		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass



<b>Test Case ID</b>	D13	<b>Description</b>	See if calculateRowTotal can correctly sum negative decimals		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D14	<b>Description</b>	See if calculateRowTotal can correctly sum positive and negative decimals		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	-----------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D15	<b>Description</b>	cumulativePercentageAtZeroShouldBeTenPercent - See if cumulative percentage at index 0 is calculated correctly		
<b>Created By</b>	Cheyenne Goh	<b>Reviewed By</b>	Faisal Hossain	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Cheyenne Goh	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D16	<b>Description</b>	cumulativePercentageAtOneShouldBeOneHundredPercent - See if cumulative percentage at index 1 is calculated correctly		
<b>Created By</b>	Cheyenne Goh	<b>Reviewed By</b>	Faisal Hossain	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Cheyenne Goh	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D17	<b>Description</b>	keyAtZeroShouldBeEleven - See if key at index 0 is copied correctly.		
<b>Created By</b>	Cheyenne Goh	<b>Reviewed By</b>	Faisal Hossain	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Cheyenne Goh	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D18	<b>Description</b>	keyAtOneShouldBeTwentyTwo - See if key at index 1 is copied correctly.		
<b>Created By</b>	Cheyenne Goh	<b>Reviewed By</b>	Faisal Hossain	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Cheyenne Goh	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D19	<b>Description</b>	cumulativePercentageAtZeroShouldBeNegTenPercent - See if the cumulated percentage is calculated correctly with negative values		
<b>Created By</b>	Cheyenne Goh	<b>Reviewed By</b>	Faisal Hossain	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Cheyenne Goh	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
4	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D20	<b>Description</b>	nullValuesShouldRaiseIllegalArgumentException - See if an IllegalArgumentException is raised if a null KeyedValues object is provided		
<b>Created By</b>	Cheyenne Goh	<b>Reviewed By</b>	Faisal Hossain	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Cheyenne Goh	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	--------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
4	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass



<b>Test Case ID</b>	D21	<b>Description</b>	Checks if calculateColumnTotal works for 5 rows and one column		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D22	<b>Description</b>	Verify that DataUtilities.equal method works		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D23	<b>Description</b>	Verify that DataUtilities.equal method works for Null Arrays		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D24	<b>Description</b>	Verify that DataUtilities.equal method works for NaN arrays		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D25	<b>Description</b>	Verify that DataUtilities.equal method works for empty arrays		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D26	<b>Description</b>	Verify that DataUtilities.equal method works for two not equal arrays		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D27	<b>Description</b>	Verify that DataUtilities.createNumberArray method works		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D28	<b>Description</b>	Verify that DataUtilities.createNumberArray method works for two different arrays		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass



<b>Test Case ID</b>	D29	<b>Description</b>	Verify that DataUtilities.createNumberArray method works for big positive values		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
4	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D30	<b>Description</b>	Verify that DataUtilities.createNumberArray method works for big negative values		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
4	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D31	<b>Description</b>	Verify that DataUtilities.createNumberArray method works for decimal values		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D32	<b>Description</b>	Verify that DataUtilities.createNumberArray method works for large array sizes		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
4	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D33	<b>Description</b>	Verify that DataUtilities.createNumberArray method checks for null arrays		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
4	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D34	<b>Description</b>	Verify that DataUtilities.createNumberArray method checks for the minimum double values		
<b>Created By</b>	Faisal Hossain	<b>Reviewed By</b>	Cheyenne Goh	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Faisal Hossain	<b>Date Tested</b>	Feb. 5, 2022	<b>Pass/Fail/Not Executed</b>	Pass
----------------------	----------------	--------------------	--------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
4	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Pass

<b>Test Case ID</b>	D35	<b>Description</b>	Check if calculateColumnTotal works on a column with a negative index		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	February 9, 2022	<b>Pass/Fail/Not Executed</b>	Fail
----------------------	-----------	--------------------	------------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Fail

<b>Test Case ID</b>	D35	<b>Description</b>	Check if calculateColumnTotal works on a column out of bounds		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	February 9, 2022	<b>Pass/Fail/Not Executed</b>	Fail
----------------------	-----------	--------------------	------------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Fail



<b>Test Case ID</b>	D37	<b>Description</b>	Check if calculateRowTotal works on a column with a negative		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	February 9, 2022	<b>Pass/Fail/Not Executed</b>	Fail
----------------------	-----------	--------------------	------------------	-------------------------------	------

S #	Prerequisites
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

S #	Requirements
1	
2	
3	
4	
5	

#### Test Conditions

Step	Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Fail

<b>Test Case ID</b>	D38	<b>Description</b>	Check if calculateColumnTotal works on a column out of bounds		
<b>Created By</b>	Dylan Mah	<b>Reviewed By</b>	Michele Esercitato	<b>Version</b>	1.0

#### QA Tester's Log

<b>Tester's Name</b>	Dylan Mah	<b>Date Tested</b>	February 9, 2022	<b>Pass/Fail/Not Executed</b>	Fail
----------------------	-----------	--------------------	------------------	-------------------------------	------

<b>S #</b>	<b>Prerequisites</b>
1	Downloaded test class
2	Downloaded JFreeChart
3	Downloaded JUnit
4	Downloaded hamcrest core
5	Downloaded JMock

<b>S #</b>	<b>Requirements</b>
1	
2	
3	
4	
5	

#### Test Conditions

<b>Step</b>	<b>Details</b>	<b>Expected Results</b>	<b>Actual Results</b>	<b>Pass / Fail / Not executed / Suspended</b>
1	Open program	IDE can open .java file	IDE opened .java file	Pass
2	Run program	JUnit test runs without errors	JUnit test ran without errors	Pass
3	Check results	Test passed	Test passed	Fail