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

QA Tester's Log

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

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

Test Case ID	R2	Description	centralValueShouldBeOnePointFive - check the central value of the range of [1, 2]		
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

Test Case ID	R3	Description	centralValueShouldBeNegOnePointFive - check the central value of the range of [-2, -1]		
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

Test Case ID	R4	Description	centralValueShouldNotBeAboveZero - check the central value of the range of [-1, 1] is not above 0		
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

Test Case ID	R5	Description	centralValueShouldNotBeBelowZero - check the central value of the range of [-1, 1] is not below 0
Created By	Michele Esercitato	Reviewed By	Dylan Mah	**Version**	1.0

QA Tester's Log

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

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

Test Case ID	R6	Description	centralValueShouldBeFiveHundMil - check the central value of the range of [-1000000000, 2000000000]	
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

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

QA Tester's Log

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

Test Case ID	R8	Description	upperBoundShouldNotBeAboveOne - check the upper bound of the range of [-1, 1] is not above 1		
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

Test Case ID	R9	Description	upperBoundShouldNotBeBelowOne - check the upper bound of the range of [-1, 1] is not below 1
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

Test Case ID	R10	Description	upperBoundShouldBeTwoBil - check the upper bound of the range of [-1000000000, 2000000000]
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version		1.0

QA Tester's Log

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

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

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

QA Tester's Log

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

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

Test Case ID	R12	Description	lowerBoundShouldNotBeAboveNegOne - check the lower bound of the range of [-1, 1] is not above -1		
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

Test Case ID	R13	Description	lowerBoundShouldNotBeBelowNegOne - check the lower bound of the range of [-1, 1] is not below -1		
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

Test Case ID	R14	Description	lowerBoundShouldBeNegOneBil - check the lower bound of the range of [-1000000000, 2000000000]
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

Test Case ID	R17	Description	rangeShouldNotContainValHigherThanOne - check value is not contained in the range of [-1, 1]		
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

Test Case ID	R18	Description	rangeShouldNotContainValLowerThanNegOne - check value is not contained in the range of [-1, 1]
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

Test Case ID	R21	Description	lowerBoundryIsNaNUpperBoudryIsNotNaN - check if the range [-1, Double.NaN] is NaN		
Created By	Michele Esercitato	Reviewed By	Dylan Mah	Version	1.0

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

Tester's Name	Dylan Mah	**Date Tested**	Feb. 5, 2022	**Pass/Fail/Not Executed**	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

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

QA Tester's Log	

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

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

Test Conditions	Verify if calculateColumnTotal works for a filled table

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

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

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

QA Tester's Log

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

Test Case ID	D20	Description	nullValuesShouldRaiseIllegalArgumentException - See if an		
Created By	Cheyenne Goh	Reviewed By	Faisal Hossain	Version	1.0

QA Tester's Log

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

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

Test Case ID	D21	Description	Checks if calculateColumnTotal works for 5 rows and one column		
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

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

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

Test Case ID	D22	Description	Verify that DataUtilities.equal method works		
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

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

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

Test Case ID	D23	Description	Verify that DataUtilities.equal method works for Null Arrays		
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

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

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

Test Conditions   Check that two null 2D arrays are equal using the DataUtilities.equal method

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

Test Case ID	D24	Description	Verify that DataUtilities.equal method works for NaN arrays		
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

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

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

Test Conditions   Check that two 2D NaN arrays are equal using the DataUtilities.equal method

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

Test Case ID	D25	Description	Verify that DataUtilities.equal method works for empty arrays		
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

Tester's Name	Faisal Hossain	Date Tested	Feb. 5, 2022	Pass/Fail/Not Executed	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   Check that DataUtilities.equal method works for two 2D empty arrays

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

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

QA Tester's Log

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

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

Test Conditions   Verify that DataUtilities.equal method works for two different 2D arrays

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

Test Case ID	D27	Description	Verify that DataUtilities.createNumberArray method works		
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

Tester's Name	Faisal Hossain	Date Tested	Feb. 5, 2022	Pass/Fail/Not Executed	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   Verify that DataUtilities.createNumberArray method works for two Number arrays of [1,2]

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

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

QA Tester's Log

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

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

Test Conditions   Verify that DataUtilities.createNumberArray method works for two different arrays by comparing the first index

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

Test Case ID	D29	Description	Verify that DataUtilities.createNumberArray method works for big		
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

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

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

Test Conditions — Verify that DataUtilities.createNumberArray method works for values like 10000000000000000000

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

Test Case ID	D30	Description	Verify that DataUtilities.createNumberArray method works for big		
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

Tester's Name	Faisal Hossain	Date Tested	Feb. 5, 2022	Pass/Fail/Not Executed	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   Verify that DataUtilities.createNumberArray method works values like -10000000

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

Test Case ID	D31	Description	Verify that DataUtilities.createNumberArray method works for decimal
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

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

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

Test Conditions check that DataUtilities.createNumberArray array equals to a double decimal array

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

Test Case ID	D32	Description	Verify that DataUtilities.createNumberArray method works for large
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

Tester's Name	Faisal Hossain	Date Tested	Feb. 5, 2022	Pass/Fail/Not Executed	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   Verify that DataUtilities.createNumberArray method works for large array sizes like 2000

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

Test Case ID	D33	Description	Verify that DataUtilities.createNumberArray method checks for null
Created By	Faisal Hossain	Reviewed By	Cheyanne Goh	Version	1.0

QA Tester's Log

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

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

Test Conditions   Verify that DataUtilities.createNumberArray method checks for null arrays via IllegalArgumentException

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

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

QA Tester's Log

Tester's Name	Faisal Hossain	Date Tested	Feb. 5, 2022	Pass/Fail/Not Executed	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	Verify that DataUtilities.createNumberArray method checks for double arrays with the minimum positive double values

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