	Input	Expected	Actual - MathPackage.java	Actual - Commit.java	Actual - Fixed.java		ava Commit.jav	
andomTest:	Generate 1000 arrays using the random function	all values contained within [a,b]	all values contained within [a,b]	all values contained within [a,b]	all values contained within [a,b]	PASS	PASS	PASS
naxTest	Generate 1000 arrays, sort them and compare the last element with the return value of max	last element of array == max	last element of array == max	last element of array == max	last element of array == max	PASS	PASS	PASS
ninTest	Generate 1000 arrays, sort them and compare the first element with the return value of min	first element of array == min	first element of array == min	first element of array == min	first element of array == min	PASS	PASS	PASS
ormalizeTest	[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]		[0, -0.1, -0.2, -0.3, -0.4, -0.5, -0.6, -0.7, -0.8, -0.9, -1.0]	·	· ·		PASS	PASS
	[0, 33, 66, 100]	[0, 0.33, 0.66, 1.0]	[0, -0.33, -0.66, -1.0]	[0, 0.33, 0.66, 1.0]	[0, 0.33, 0.66, 1.0]	FAIL	PASS	PASS
	Generate 1000 arrays, compare the sum against							
umTest	Java's built in method for calculating sum	sum	sum	sum	sum	PASS	PASS	PASS
stddev	[0.8448535275473217, 0.7356655820407797, 0.9431584337138527, 0.98850933684, 0.26752295318703023, 0.30118478380150293, 0.5614795756611817, 0.27410185661451103, 0.37273085266194511, 0.9350197461150006, 0.3430515987014403, 0.14325655442623153, 0.09474732578722389, 0.8118925398379901, 0.7889524243808093, 0.6174482765472112, 0.08282552694523304, 0.9906861613488818, 0.1006718689597883, 0.070769829827551981	0.33383429942515 +/- 1e-10	0.33383429942515 +/- 1e-11	0.33383429942515 +/- 1e-12	0.33383429942515 +/- 1e-13	FAIL	FAIL	FAIL
	[24.35187979482766, -1.23690809600006045, 21.33618933268294, 38.4070888177998, 81.07224984081901, 14.777395426428706, -23.465737641671126, -29.74766797865162, -80.53273274920562, 26.69835022556401, 16.765612733609586, 85.27325420746189, -25.58642729615137, -86.15677250342885, 91.14866661682103, 47.56747687575623, 71.62517118559902, 26.285337092658247, -78.61956099645022, -18.809917650844213, 31.415431556119216, 15.021802528535659, 45.50777659561043, 76.15463035088838, 71.73129701754698, 42.00719896644702, 98.93219072662015, 29.9113613793866946, -7.304486822031862, 72.46129116466469, 25.1728725753399, 6.610331737331364, 42.67027445622745, 45.01219466707613, -11.329038630356479, -23.23001985807364, 33.03020689451988, 59.205372568877974, -8.495612401158435, 83.741104890003406, 80.19371195739095, 70.17088288687546, -27.756415190854483, 67.22645204084466, 2.237307845125258, 9.0639389363338696, 13.57518281518089, 66.0876889384611, -30.1366615029317, -20.084766272685243, 10.62213430500914, 70.12939720918465, -53.319292944066813, -84.43071331549132, -53.3081375843498, 36.7569136083863, 48.117488201666, 99.23026437856967, 28.481208229172694, 4.041593290473799, -19.144188062781325, 71.48911820023875, -97.3407210733165, -82.95697886617639, -52.01935623363, -55.2468203975, -74.891820023875, -97.3407210733165, -82.95697886617639, -52.9195793965, -20.75249600534157, -21.307237959879, -20.75249600534157, -21.307237959879, -20.75249600534157, -21.307237959879, -20.98960940502, -30.432552466301396, -51.16117165251921, -7.21.307237959879, -72.946965731591, -42.6565996523383, -14.49688737726953, -14.26659996523383, -14.49688737726953, -14.26659996523383, -14.49688737726953, -14.2665996582546, 53.26248250936096, -26.007936605144735, -86.50512849109, -76.8602148399742, -14.39552206147399, -15.26659956582546, 53.26248250936096, -26.0079366051444735, -86.50512849109, -76.8602148399742, -14.39552206147399, -21.3035661651074, -6.363254915974139, -24.56599656254846, -2.7564296582546, -2.25649683311550684, -57.59964296582546, -2.25649683							
	-5.991562076158388, 82.91883854718108] Generate 1000 * 2 arrays with the same length.	54.00891607	54.00891607	54.00891607	54.00891607	PASS	PASS	PASS
arrayAddTestSameLength	Compare the result against an alternative way to sum the arrays using Java 8 lambdas	element-wise sum	element-wise sum	element-wise sum	element-wise sum	PASS	PASS	PASS
arrayAddDifferentLength	d1: [10, 9, 8, 7, 6, 5, 4, 3, 2, 1] d2: [1, 2, 3, 4, 5, 6]	Assertion error different lengths	[11, 11, 11, 11, 11]	[11, 11, 11, 11, 11]	Assertion error different lengths	FAIL	FAIL	PASS
-	d1: [1, 2, 3, 4, 5, 6] d2: [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]		IndexOutOfBoundsException	IndexOutOfBoundsException	Assertion error different lengths	FAIL	FAIL	PASS
	Generate 1000 arrays, and negate them,			array negation, but 1 is also subtracted from				
egateTest	compare against return result	array negation	array negation	each element	array negation	PASS	FAIL	PASS

arraySubtractTestSameLength	Generate 1000 * 2 arrays with the same length. Compare the result against an alternative way to subtract the arrays using Java 8 lambdas	element-wise subtraction	n/a	element-wise subtraction	element-wise subtraction	PASS	PASS
arraySubtractTestDifferentLengt h	d1: [10, 9, 8, 7, 6, 5, 4, 3, 2, 1] d2: [1, 2, 3, 4, 5, 6]	Assertion error different lengths	n/a	[-9, -7, -5, -3, -1, 1]	Assertion error different lengths	FAIL	PASS
	d1: [10, 9, 8, 7, 6, 5, 4, 3, 2, 1] d2: [1, 2, 3, 4, 5, 6]	Assertion error different lengths	n/a	[9, 7, 5, 3, 1, -1]	Assertion error different lengths	FAIL	PASS
distanceTest	d1 or d2 are not of length 2	Assertion error different lengths	n/a		Assertion error different lengths	FAIL	PASS
	d1: [-1, -2] d2: [3, 4]	7.211102551	n/a		0 7.211102551	FAIL	PASS
	d1: [6, 7] d2: [-8,-9]	21.26029163	n/a		0 21.26029163	FAIL	PASS
arrayDeviationTest	[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]	[-4.5, -3.5, -2.5, -1.5, -0.5, 0.5, 1.5, 2.5, 3.5, 4.5]	n/a	null	[-4.5, -3.5, -2.5, -1.5, -0.5, 0.5, 1.5, 2.5, 3.5, 4.5]	FAIL	PASS
	[4, 8, 1, 3, 9, 5, 10, 2, 7, 6]	[-1.5, 2.5, -4.5, -2.5, 3.5, -0.5, 4.5, -3.5, 1.5, 0.5]	n/a	null	[-1.5, 2.5, -4.5, -2.5, 3.5, -0.5, 4.5, -3.5, 1.5, 0.5]	FAIL	PASS
	input	expected	actual				
reverseTest	[1, 2, 3, 4, 5, 6, 7, 8, 9]	[9, 8, 7, 6, 5, 4, 3, 2, 1]	[9, 8, 7, 6, 5, 4, 3, 2, 1]	PASS			
uniqueTest	-	[1, 2, 3, 4, 5, 6, 7, 8, 9]	[1, 2, 3, 4, 5, 6, 7, 8, 9]	PASS			
intersectionTest	a: [1, 2, 3, 4, 5, 6, 7, 8, 9] b: [3, 4, 5]	[3, 4, 5]	[3, 4, 5]	PASS			
unionTest		[1, 2, 3, 4, 5, 6, 7, 8, 9]	[1, 2, 3, 4, 5, 6, 7, 8, 9]	PASS			
indexOfTest	a: [1, 2, 3, 4, 5, 6, 7, 8, 9, null] b: 5	4	[,, _, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,	4 PASS			
	a: [1, 2, 3, 4, 5, 6, 7, 8, 9, null] b: null	10		10 PASS			
withoutTest	array: [1,2,3,4, 4,5,6,7,8,9], remove: [3, 4, 5, 10]	[1, 2, 6, 7, 8, 9]	[1, 2, 6, 7, 8, 9]	PASS			
withoutTestRemoveTwo	array: [1,2,3,4,5,6,7,8,9], remove: [3, 4, 4, 5, 10]	[1, 2, 6, 7, 8, 9]	[1, 2, 4, 6, 7, 8, 9]	FAIL			
withoutTestRemoveFirstElement	array: [1,2,3,4,5,6,7,8,9], remove: [1, 3, 4, 5]	[2, 6, 7, 8, 9]	[1, 2, 6, 7, 8, 9]	FAIL			
intersectionTestDuplicate	a: [1, 2, 2, 3, 4] b: [2, 2, 3, 4]	[2, 2, 3, 4]	IndexOutOfBoundsException	FAIL			