

*WORK IN PROGRESS. SOME OF THESE MIGHT BE REDUNDANT AND WILL NEED TO BE REMOVED (DOES PARENTHESES TESTING NEED TO BE DONE FOR *EVERY* OPERATOR? ETC.)

Test Case ID	Test Case Description	Test Data	Expected Results	Actual Results	Pass/Fail
Add-101	Test addition operator	$2 + 2$	4	4	Pass
Add-102	Test addition operator with parentheses (split)	$(2) + (2)$	4	4	Pass
Add-103	Test addition with parentheses	$(2+2)$	4	4	Pass
Add-104	Test addition with multiple parentheses	$(2+((2)))$	4	4	Pass
Add-105	Test addition with extra unary negation	$1 + --1$	2	2	Pass
Add-106	Test addition with extra unary negation with parenthesis	$1 + -(-1)$	2	2	Pass
Add-107	Test addition with extra unary addition	$1 + ++1$	2	2	Pass
Sub-101	Test subtraction operator	$10 - 5$	5	5	Pass
Sub-102	Test subtraction operator with parentheses (split)	$(10) - (5)$	5	5	Pass
Sub-103	Test subtraction operator with parentheses	$(10 - 5)$	5	5	Pass
Sub-104	Test subtraction operator with multiple parentheses	$((((10)) - (5)))$	5	5	Pass

Sub-105	Test negation operator	$-(13 + 2)$	-15	-15	Pass
Sub-106	Test negative values being added to positive values (no parentheses)	$-1 + 1$	0	0	Pass
Sub-107	Test negative values being added to positive values (inside parentheses)	$(-1) + 1$	0	0	Pass
Sub-108	Test negative values being added to positive values (outside parentheses)	$-(1) + 1$	0	0	Pass
Sub-109	Test negative values subtracted from negative values (with parentheses)	$(-(12) - (6))$	-18	-18	Pass
Sub-110	Test negative values subtracted from negative values (no parentheses)	$-12 - 6$	-18	-18	Pass
Sub-111	Test subtraction operator with extra unary negation	$1 - --1$	0	0	Pass
Multi-101	Test multiplication operator	$15 * 2$	30	30	Pass
Multi-102	Test multiplication operator (inside parentheses)	$(15 * 2)$	30	30	Pass
Multi-103	Test multiplication operator (outside parentheses)	$(15) * 2$	30	30	Pass
Multi-104	Test negative value times negative value = positive value	$-4 * -4$	16	16	Pass
Multi-105	Test negative value times negative value = positive value (with parentheses)	$(-4) * (-4)$	16	16	Pass
Multi-106	Test multiplication times 0	$15 * 0$	0	0	Pass
Div-101	Test division operator	$100 / 25$	4	4	Pass

Div-102	Test division operator (inside parentheses)	$(100 / 25)$	4	4	Pass
Div-103	Test division operator (split parentheses)	$(100) / 25$	4	4	Pass
Div-104	Test divide by zero error	$1 / 0$	Error	Error	Pass
Div-105	Test divide by zero error (with parentheses)	$(44) / 0$	Error	Error	Pass
Div-106	Test divide by fraction (in parentheses)	$(10) / (\frac{1}{2})$	20	20	Pass
Div-107	Test divide by fraction (no parentheses)	$10 / \frac{1}{2}$	20	20	Pass
Div-108	Test multiply by division	$30 * (\frac{1}{2})$	15	15	Pass
Div-109	Test divide with unary negation	$30 / -3$	-10	-10	Pass
Mod-101	Test modulo operator	$10 \% 3$	1	1	Pass
Mod-102	Test modulo fraction	$100 \% (\frac{9}{2})$	1	1	Pass
Mod-103	Test modulo fraction (no parentheses)	$100 \% \frac{1}{2}$	0	0	Pass
Mod-104	Test modulo operator with unary negation	$100 \% -3$	-2	-2	Pass
Mod-105	Test modulo operator with unary addition	$100 \% +3$	1	1	Pass
Exp-101	Test exponentiation operator	$2 ^ 3$	8	8	Pass

Exp-102	Test exponentiation operator with power in parenthesis	$2 ^ { (3)}$	8	8	Pass
Exp-103	Test exponentiation operator with base in parenthesis	$(2) ^ 3$	8	8	Pass
Exp-104	Test exponentiation operator with unary negation	$2 ^ -3$.125	.125	Pass
Exp-105	Test exponentiation operator with unary negation in parenthesis	$2 ^ {(-3)}$.125	.125	Pass
Exp-106	Test exponentiation operator with unary addition	$2 ^ +3$	8	8	Pass
Exp-107	Test exponentiation operator with unary addition with parenthesis	$2 ^ {(+3)}$	8	8	Pass