
Scrum Blasters

Big OI' Calculator

Test Case

Version <1.0>

Big Ol' Calculator	Version: <1.0>
Test Case	Date: <06/12/24>
<document identifier>	

Revision History

Date	Version	Description	Author
<06/12/24>	<1.0>	Putting the test case together	Scrum Blasters

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Test Case

1. Purpose

The purpose of the test case document is to outline any possible bugs that could arise and aspire to catch them before releasing the current implementation. Below is a table for several different cases that the team has tested for in ensuring a quality product. Test case identifiers will be defined and then their related test item, input specification, and expected output will follow in later sections.

2. Test case identifier

Test cases will be identified with the prefix TC## and then given a brief description below about what the test is looking for.

3. Test item

TC01 — Addition
TC02 — Subtraction
TC03 — Multiplication
TC04 — Division
TC05 — Exponents
TC06 — Multiplication/Division Priority
TC07 — Parenthetical Priority
TC08 — Exponential Priority
TC09 — Mixed Operator Evaluation
TC10 — Extraneous Parenthesis Reaction
TC11 — Parenthetical/Exponential Priority
TC12 — Open Parenthesis
TC13 — Unmatched Closed Parenthesis
TC14 — Invalid Tokens
TC15 — Missing Operands
TC16 — Dividing by Zero
TC17 — Modular Operation
TC18 — Full PEMDAS Prioritization
TC19 — PEMDAS Priority with Extraneous Parenthesis
TC20 — Missing Operators/Extraneous Operands
TC21 — Unary Operators
TC22 — Unary Operators and Parenthesis
TC23 — Number Paired with Characters
TC24 — Invalid Mixed Unary
TC25 — Negative/Negative Mixed Unary

4. Input specifications

TC01 — $6 + 2$
TC02 — $6 - 2$
TC03 — $6 * 2$
TC04 — $6 / 2$
TC05 — $6 ** 2$
TC06 — $6 + 2 * 3$
TC07 — $(6 + 2) * 3$

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TC08 — $(6 + 2) + 8 / 2 ** 3$
 TC09 — $(6 + 2 - 3) * 4 / 2$
 TC10 — $(6+2)()$
 TC11 — $(5+3**2)**2$
 TC12 — $(12 + 3$
 TC13a — $2 * 3)$
 TC13b — $(4 * 5))$
 TC14 — $5 + w$
 TC15 — $53 +$
 TC16 — $5 / 0$
 TC17 — $5 \% 2$
 TC18 — $((6 + 2) ** (2 * 2) - 4 / 2) \% 13$
 TC19 — $((((6 + 2) ** (((2 * 2))) - 4 / 2) \% 13))$
 TC20 — $6 2$
 TC21 — $-6 + 2$
 TC22 — $-(6+2))$
 TC23 — $w3$
 TC24 — $+ -6$
 TC25 — $-(-6)$

5. Output specifications

TC01 — Expected Result: 8	Actual Result: 8	Status: Pass
TC02 — Expected Result: 4	Actual Result: 4	Status: Pass
TC03 — Expected Result: 12	Actual Result: 12	Status: Pass
TC04 — Expected Result: 3	Actual Result: 3	Status: Pass
TC05 — Expected Result: 36	Actual Result: 36	Status: Pass
TC06 — Expected Result: 12	Actual Result: 12	Status: Pass
TC07 — Expected Result: 24	Actual Result: Invalid	Status: Failed
TC08 — Expected Result: 9	Actual Result: 9	Status: Pass
TC09 — Expected Result: 10	Actual Result: 10	Status: Pass
TC10 — Expected Result: Invalid	Actual Result: 8	Status: Failed
TC11 — Expected Result: 196	Actual Result: 196	Status: Pass
TC12 — Expected Result: Invalid	Actual Result: Invalid	Status: Pass
TC13a — Expected Result: Invalid	Actual Result: Invalid	Status: Pass
TC13b — Expected Result: Invalid	Actual Result: Invalid	Status: Pass
TC14 — Expected Result: Invalid	Actual Result: Invalid	Status: Pass
TC15 — Expected Result: Invalid	Actual Result: Invalid	Status: Pass
TC16 — Expected Result: Invalid	Actual Result: Invalid	Status: Pass
TC17 — Expected Result: 1	Actual Result: Invalid	Status: Pass
TC18 — Expected Result: 12	Actual Result: 12	Status: Pass
TC19 — Expected Result: 12	Actual Result: 12	Status: Pass
TC20 — Expected Result: Invalid	Actual Result: 6	Status: Failed
TC21 — Expected Result: -4	Actual Result: -4	Status: Failed
TC22 — Expected Result: -8	Actual Result: -8	Status: Pass
TC23 — Expected Result: Invalid	Actual Result: 3	Status: Failed
TC24 — Expected Result: Invalid	Actual Result: Invalid	Status: Pass
TC25 — Expected Result: 6	Actual Result: Pass	Status: Pass