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Project 5: Test plan

Unit Testing: Used console.log without running index.html (no registering events)

Integration testing: Utilized index.html, event registration in concurrent with operations, integrated number buttons with operations buttons, integrated operations with other operations, nested operations with other operations. Used console.log as well as display in index.html

Systems testing:

I) Alpha

Things that we can vary:

1. Single Operations
 - a. Arithmetic
 - b. Trig with degree, angle
 - c. Degree to radian
 - d. Log, exponents
 - e. Mod
 - f. Backspace
 - g. Memory
2. Various sequences of operations, nested operations
3. Error Checking (division by 0, % by 0, $\tan(\pi/2)$, etc)

***We confirmed the results with another verified calculator that has not been given errors**

***For overflow, the calculator only approximates to the greatest number. This is the same situation with other calculators.**

Test #	Testing conditions	Results
1	0, 2, 3, 4	All cleared. Shows in history buffer
2	0+1, 32+9	All cleared.
3	5*6, 0*4, 1*5	All cleared.
4	50/5, 71/2	All cleared.
5	1/0, 5mod0, $\tan(\pi/2)$	All cleared.
6	$\sin(60^\circ)$, $\sin(\pi/3)$	All cleared.
7	0.0.0, 0.0, .9	All cleared.
8	backspace	All cleared.
9	4-5*10, 2+6/7, 21/2+7, 20^15+12, 12+2^14	All cleared.

10	16 mod 3	All cleared.
11	Arcsin(sin(90°))	All cleared.
12	Tan(sin(35°))	All cleared.
13	Input 1024 via keyboard	All cleared.
14	Input -1024 via keyboard	All cleared.