

Menu Input Tests:				
Test #	Test Case:	Input Values:	Expected Output:	Observed
1	Input too low.	Input = 0	Informs user of invalid input and re-prompts user.	Same as expected.
2	Input too high.	Input = 4 (greater than MAX_CHOICE)	Informs user of invalid input and re-prompts user.	Same as expected.
3	Input not a number.	Input = abcd	Informs user of invalid input and re-prompts user.	Repeats invalid input message 3X, but does re-prompt correctly.
4	Input long string of non-numbers with # at the beginning.	Input = 1abcd	Informs user of invalid input and re-prompts user.	Proceeds to menu option 1, and then throws invalid input message for # of columns (1 <sup>st</sup> param user is supposed to enter in menu option 1). See next table for fixes.
5	Input long string with number at the end.	Input = abcd1	Informs user of invalid input and re-prompts user.	Throws 2X invalid input messages, then proceeds to menu option 1. See next table for fixes.

Menu Input Test Fixes				
Test #	Fix 1	Outcome	Fix 2	Outcome
4	Added options to cin.ignore statement that is called after cin. WAS cin.ignore() IS cin.ignore(1000, '\n')	Proceeds to menu option 1, but Does not enter anything into parameter prompt.	Use the input validation function that was originally intended just the parameter inputs.	Retested #'s 1-5. All inform user of invalid input and re-prompt user.
5	Same as above fix.	Informs user of invalid input and re-prompts user.	See above fix.	See above fix.