

Design Plan

Problem 1: There are many ways calc can go wrong, and it is indeed impossible to check every combination of numbers to locate issues, but there are 3 easy things to check for right off the bat. First off, I will check to see if the input is actually an integer or not. I just need to do some basic type checking. Another key test will be to see if the user inputted 2 numbers, instead of only one. The final test will be to check if the integer values lie within the given range of -512 to 512.

Problem 2: No, considering that this is not the intended purpose for the program, nor our task at hand does not require us to do anything with regards to 3 inputs over two, it is not worth the time or energy to make that decision and implementation. In theory it should never be triggered anyways. CS is a game of picking your battles, and in this case it is not a worthy battle.