Problem 1

Test Scenarios:

- Integer Inputs

- 1. No integers given
 - a. $(=> !0, \rightarrow NOT ENOUGH INPUT)$
- 2. Only 1 integer given
 - a. $(=> !0, \rightarrow NOT ENOUGH INPUT)$
- 3. 1 positive integer given
 - a. $(=> !0, \rightarrow NOT ENOUGH INPUT)$
- 4. 1 negative integer given
 - a. $(=> !0, \rightarrow NOT ENOUGH INPUT)$
- 5. Input 1 is positive && Input 2 is positive
 - a. $(=> !0, \rightarrow NOT ENOUGH INPUT)$
- 6. Input 1 is positive && Input 2 is negative
 - a. $(=> !0, \rightarrow NOT ENOUGH INPUT)$
- 7. Input 1 is negative && Input 2 is positive
 - a. $(=> !0, \rightarrow NOT ENOUGH INPUT)$
- 8. Input 1 is negative && Input 2 is negative
 - a. $(=> !0, \rightarrow NOT ENOUGH INPUT)$
- 9. More than 2 positive integers given
 - a. $(=> !0, \rightarrow ?)$
- 10. More than 2 negative integers given
 - a. $(=> !0, \rightarrow ?)$
- Non-Integer Input Combinations
 - 1. Input 1 is not an integer && No input 2 given
 - a. $(=> !0, \rightarrow BAD INPUT)$
 - 2. Input 1 is not an integer && input 2 is a positive integer
 - a. $(=> !0, \rightarrow BAD INPUT)$
 - 3. Input 1 is not an integer && input 2 is a negative integer
 - a. $(=> !0, \rightarrow BAD INPUT)$
 - 4. Input 2 is not an integer && Input 1 is a positive integer
 - a. $(=> !0, \rightarrow BAD INPUT)$
 - 5. Input 2 is not an integer && Input 1 is a negative integer
 - a. $(=> !0, \rightarrow BAD INPUT)$
 - 6. Both inputs 1 and 2 are non-integers
 - a. $(=> !0, \rightarrow BAD INPUT)$
 - 7. More than 2 non-integers given
 - a. $(=> !0, \rightarrow BAD INPUT)$
- Out of Scope
 - 1. Input 1 is less than -512 && Input 2 is a positive integer
 - a. $(=> !0, \rightarrow TOO BIG)$

- 2. Input 1 is less than -512 && Input 2 is a negative integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 3. Input 1 is less than -512 && Input 2 is a non-integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 4. Input 1 is less than -512 && Input 2 is not given
 - a. $(=> !0, \rightarrow TOO BIG)$
- 5. Input 1 is greater than 512 && Input 2 is a positive integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 6. Input 1 is greater than 512 && Input 2 is a negative integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 7. Input 1 is greater than 512 && Input 2 is a non-integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 8. Input 1 is greater than 512 && Input 2 is not given
 - a. $(=> !0, \rightarrow TOO BIG)$
- 9. Input 2 is less than -512 && Input 1 is a positive integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 10. Input 2 is less than -512 && Input 1 is a negative integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 11. Input 2 is less than -512 && Input 1 is a non-integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 12. Input 2 is greater than 512 && Input 1 is a positive integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 13. Input 2 is greater than 512 && Input 1 is a negative integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 14. Input 2 is greater than 512 && Input 1 is a non-integer
 - a. $(=> !0, \rightarrow TOO BIG)$
- 15. Input 1 and Input 2 are both less than -512
 - a. $(=> !0, \rightarrow TOO BIG)$
- 16. Input 1 and Input 2 are both greater than 512
 - a. $(=> !0, \rightarrow TOO BIG)$

Problem 2

If this were an assignment given to me in the real world, with real world implications, I would probably contact my supervisor and get a clearer understanding of what the expectations are. It might be a waste of company time to check this particular case. However, for this assignment, I will be checking what happens if more than 2 integers are given. It (the number of inputs provided) is a reasonable dimension that may be pushed accidentally during its use, and thus it would be beneficial to have an expectation of (and perhaps change) the behavior in such a scenario.