* 1. Activity – Summary

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**My Process**

I did not understand fully what a numeric underflow or overflow was before I began this assignment. After doing some research I understood that a numeric underflow or overflow is when a data type goes above or below a minimum or maximum threshold. The next step was understanding how to add code to prevent this from happening but also notifying the test function that it had detected a failure when adding or subtracting various data types. I had to investigate how templates work in C++ and realized why they were there, and it helped write something very simple to produce the effect. The solution I used was numeric\_limits which allows templates as a parameter that is the same as calling INT\_MAX or INT\_MIN for an integer min/max except it works for all the datatypes that are used in this assignment.

**Console Output Screenshots**



