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CS 405 Secure Coding

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4-1 Activity: Exceptions

Before code modifications:

The code without any modifications does not return any exceptions when it should. For example, one can’t be divided by zero and that should throw a logic exception error, but that does not occur.

Text

Description automatically generated with low confidence

After code Modification:

A picture containing graphical user interface

Description automatically generated

The goal was to make sure to throw any exception errors, so I implemented a runtime error stating that an exception was throws so it’s not occurring. Then doing a catch for the runtime error. I implemented an invalid argument exception that was derived from std::exception stating “Error! Invalid”. To address the dividing by zero issue, I implemented a runtime error again and just stated that when the user tries to divide by zero, the exception thrown by divide, and I used try, catch, if, else combination with grabbing the runtime error and looking at the numerator/denominator.