**Numerical Overflows**

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**Overflows**

**A picture containing text, plaque

Description automatically generated**

**Underflows**

**Text

Description automatically generated**

**Summery**

To start figuring out what was causing the program to spit out wrong values I first ran the program to see if it would at least compile. Once it did, I was better able to see why there were some errors going on. Then I added an if loop to check for various reasons that a value might overflow or underflow. Once I found out how to make sure none of the values overflowed or underflowed, then I had to find a nice way to format the output. I decided to make all the values that caused issues match the start value, because the only way that the start value could be the same as the end value is if we added or subtracted 0 times. Once the bad values were set to the start values it was easy enough to write adjust the printed value to say underflow or overflow detected if there was an issue found.