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Assignment 3 Reflection

Understanding: I learned that a flag is needed to automatically assign the first number as the max and min. I had used similar code in other languages but had never heard of it being referred to as a flag until I read about it in the textbook. Also, I accidentally used the assignment operator instead of the equality operator in the test condition of the while loop. So the first few times I ran the program, both the reported max and min returned the most recently entered number. I found my mistake by using “cout” to output the current max and min after each iteration of the “for” loop.

Testing Plan: At first, most of my tests failed (the 1st and 5th tests passed) because of my mistake with the assignment operator. After changing the assignment operator to an equality operator, all of my tests succeeded. I think my planned tests were pretty complete in testing different scenarios that may arise.

Design: My initial design was fine. I have programming experience so I knew how to design the program. My one mistake had to do with syntax. I can’t think of anything that needed to be added or altered.

Implementation: The only issue I encountered during implementation was the assignment operator/equality operator mistake I have already referred to. I was able to solve my problem by using the “cout” statement to output the current max and min at the end of each iteration of the “for” loop. I saw that the most recent input was being assigned to both the max and min on every run (instead of being compared to them) so that told me that the problem had to do with the assignment operator. Everything else worked as expected. I didn’t need to consult any outside sources other than the textbook for syntax and my own programming knowledge for program design.

Improvement: Pay closer attention to the syntax in my test conditions (and just in general). The mistake I made was just a result of typing my code too quickly. Paying close attention to details is an essential skill in programming so that’s definitely something I could work on.