Shaan Mathur

Stahl

CS31

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Project 2 Report

Some obstacles that came my way was deciding whether to use a loop or nested if statements. I briefly thought of a way I could use an array of constant tiers to find the appropriate total price, but I did not know how to form arrays in C++. Nested if statements seemed kind of tedious and slightly boring, but I figured that it was the only way expected of us at this time. Another obstacle was discovering that cout.precision(int n) did not always do what was expected due to floating point’s imprecise nature. Sometimes the rounding could be off by a decimal place, which could disrupt calculations. Professor Smallberg, however, said that the test data used for this program would not allow that to happen.

A list of test data that could be used to improve the program:

(“Shaan”, 13.5, “residential”) Program was case sensitive

(“Shaan”, 12.405, “Residential”) Double floating point imprecision would cause this the final price to potentially be rounded the wrong way.

(“134124”, 13.5, “Business”) Names should only be a string of letters, without any other type of characters.