Report on project 2

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a.

A brief description of notable obstacles I overcame:

One of the notable obstacles I encountered is that when I switch data type from, for example, double to string, the input into the program does not work correctly. It sometimes lose a character or does not take input completely. It turns out that when the words are entered into the program, it get put into a buffer and it includes “enter” as well. Therefore, when switch data type, the program get characters from the buffer and it gets the character “enter” every time. I learn in order to prevent this from happening, I have to use cin.ignore(expression) to fix it. The position to put cin.ignore is important as well.

b.

The program runs/compiles fine when enter a large number, e.g. “613846870123674081273417283641782364” for annual sale.

List of input and output:

The report for each test run results look like this:

Condition (annual sale, industry, number of employees, money can borrow in trillions grubnicks)

Annual sale larger than 900(1000, advertising, 800, 151.00)

Annual sale larger than 900(1451, mud, 700, 183.53)

Annual sale smaller than 500 (211.98, phishing, 25, 42.40)

Annual sale smaller than 500 (0.025 marketing, 8000, 0.01)

Annual sale between 500 and 900 (715.12345, mud, 1500, 147.27)

Annual sale between 500 and 900 (0.0001, insurance, 3, 0.00)

Annual sale 500 (500, phishing, 300, 100.00)

Annual sale 500 (500, phishing, 12000, 100.00)

Annual sale 900 (900, advertising, 250, 162.50)

Annual sale 700 (700, phishing, 800, 138.00)

The difference that number of employees makes is taken into account in the above test runs.