CS 31 Project 1 Report

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1. Inputs introduced in Step 5:

Using normal, nonzero integer inputs that are not equal, the program runs as intended, and there are no issues. Inputting negative integers of respective magnitudes also leads to no errors. However, in cases where all the inputs are 0, or equal to each other, the program will not make an exception or throw an error. If inputs are equal, the program will erroneously state “most of you are Gen Z”. If all inputs are 0, the program displays the percentage value as ‘nan%’, and says “most of you are Gen Z” where it is evidently not the case.

1. Logic Error

A logic error can be produced by replacing the conditional operators ‘&&’ (and), with the operator ‘||” (or). This does not cause a compile error, but it does cause the program to return incorrect results for the final statement of which generation is the most common in the sample, because the ‘or’ statement will only check if one of the comparison booleans is true, and not both, which is necessary to find out which integer is the largest of the three.

1. Compile Error

First, I replaced the else statement with an else if (), with no qualifying expression. This causes a compile error: ‘compile\_error.cpp:41:14: error: expected expression’ because an else if statement requires a boolean to be passed to it as a parameter.

Second, I deleted a semicolon at the end of one of the print statements, which also causes a compile error: ‘compile\_error.cpp:43:59: error: expected ';' after expression’ because this is a syntax error.