CPSC501 Refactoring Report

October 9, 2015

From just a quick glance at the code, we can instantly pick up on several “bad smells”. The entire program is written inside of main and it is much too long to keep track of. It is also very hard to test. We can also see a couple of vaguely declared variables, and undesirable switch statements.

The first thing I did was rename the vaguely declared variables with something easier to understand. I used *Rename Method*.

The second thing I did was to pull out the very large for loops and create functions. This will make the main code easier to read. I used *Extract Method*.

The third thing I was to ‘switch’ from switch statements to if/else statements. With switch statements, it is difficult to catch errors with input. Although it’s not technically a refactoring method, switch statements are rare in good OO code.