CS 1632 – DELIVERABLE 5:

Static Analysis

James Hahn and Ahmed Abdelsalam

Summary

As far as static analysis for this deliverable went, they were fairly minor fixes. For checkstyle, there were simple spacing fixes for if statements (a space after the if and before the curly brace) that followed for try-catches, for loops, while loops, and functions. In addition, there were fixes for spacing between the arithmetic and their operands (- / + \*). Then, there were simple naming convention fixes such as always use camel-case for methods and making sure variable names are at least 3 characters long. There were also unexpected style-checks, such as using a Javadoc for every method, and make sure @param and @return were used correctly. Perhaps the most surprising style-check was making sure there were no lines that exceeded more than 100 characters; this showed to be very evident in the testing files, as well as lines that contained many string concatenations. Finally, there were imports that had to be organized in a specific order, and none of them could use the \* import, which was interesting because typically people don’t worry about those kinds of things in typical programs.

In findbugs, there were very minor issues, such as naming conventions of methods, removing unused variables, always storing return values of functions in variables, and throwing a runtime exception instead of using System.exit(). Perhaps the most significant change was making the monkeyNum variable non-static, so we had to add a setter and call that independently from just incrementing it in the constructors.

There were no issues when statically analyzing this code. It was pretty straightforward.

\* You can view our new unit tests for deliverable 5 in PrimeMonkeySimTests.java

Code: <https://github.com/kingsman142/MonkeySim>

Screenshots



