CS 1632 – DELIVERABLE 5: Static Analysis

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<https://github.com/mikeoles/Deliverable5.git>

Summary

Before adding the code for prime monkey pass, we ran checkstyle and Findbugs on the existing code. By fixing the issues found by these static analysis tools before modifying the functionality of the code, we hoped to minimize confusion and engineering effort of fixing such issues after the prime monkey pass was to be added. One issue we encountered when running checkstyle involved WhiteSpaceAround warnings. These seemed to be violations of the style guide with respect to white space around brackets ({}) or operators (=, &&)—violations which we found to be ambiguous and difficult to correct. One way we were able to solve this issue was to run the Format command in NetBeans IDE, which also fixed some more minor stylistic infractions, such as indentation, not necessarily included explicitly in the style guide. When running Findbugs, we were getting the warning that the Monkey constructor was writing to a static field when incrementing monkeyNum. We initially just made monkeyNum not static; however, this caused MonkeySim to crash and our Unit Tests to fail. We finally solved the issue by creating a static void incrementMonkeyNum() mutator method which would be called in the Monkey constructor to increment monkeyNum.

Screenshots of Final Findbugs and Checkstyle Output