Group D4 Coding Style Guide

# Selected Coding Standard

The development team will be primarily adhering to the Google Java Style Guide, which can be found at <https://google.github.io/styleguide/javaguide.html> .

Important departures from this style guide, additional rules, and a list of the most crucial style rules are detailed below. All section numbers refer to sections of the Google Java Style Guide.

# Changes to the Guide

**Section 4.2**

The indentation of each block will be equal to one tab, not two spaces as described in the guide. This change applies to Section 4.8.4.1 as well.

**Section 4.8.6.1**

When using multi-line star comments (/\* ... \*/), the open and closing comment marks will be aligned at the beginning of their lines. Placing the closing \*/ at the end of a line in a multi-line comment is not permitted.

**Section 7.1.3**

Javadoc clauses will be used in the order specified, with the addition of @precondition and @postcondition. The final order will be @precondition, @params, @postcondition, @return, @throws, @deprecated.

# Additions to the Guide

This section serves as a quick, at-a-glance guide for those coding style rules deemed fundamental by the development team not captured in the Google Java Style Guide.

* After the beginning of a comment (“//” or “/\*”), team members will indent two spaces.
* Class names will be expressed as singular nouns (eg. “Team”), and methods as verbs (eg. “getTeamColour()”).
* All names will contain whole words and no abbreviations (eg. “studentNumber”, not “stNum”).
* No single-letter variable names are permitted, except:
  + as standard iterators in single-nested loops. Nested loops should use descriptive names for condition variables where possible (“row” and “column” instead of “i” and “j”).
  + in cases where the single letter has a commonly understood meaning, such as “x” and “y” as coordinate variables.
* Blocks will be indented by one tab character, where one tab character represents 4 space characters. Each group member must ensure that their IDE settings are set to insert the proper amount of whitespace before coding on the project officially begins.
* For every try…catch block, a matching finally block must be provided, even if it is empty.
* Javadoc comments are not necessary for obvious methods like accessors and mutators.
* At the top of each file, the group will maintain a block comment describing the purpose of the file, its creation, and some revision history. This block will be placed before any lines of code, including imports. It will be formatted in the following manner:

/\* filename

\* Created by: [name]

\* Purpose:

\* Revision History:

\* MM/DD/YYYY - [name] : ...

\* MM/DD/YYYY - [name] : ...

\* MM/DD/YYYY - [name] : ...

\* MM/DD/YYYY - [name] : ...

\* MM/DD/YYYY - [name] : ...

\*/

Each entry in the revision history will include the name of the person who made the revision, what was revised, and the date. The most recent revision will be placed at the top of the revision history. Revisions will be documented for substantial changes, including bug fixes, addition or removal of code, or refactoring. Revisions will not be documented for minor comment revisions, or cosmetic changes. Only the 5 most recent entries in the revision history need to be maintained.