Code Review Checklist – Java

1. Initialization and Declarations

- All local and global variables initialized before use.

- Variables and class members of the correct type and appropriate mode.

- Variables declared in the proper scope..

- There are a few redundant statements.

- Variable names are spelled correctly and consistently.

- Primitive data types are not set to null or empty.

2. Method Calls

- Parameters presented in the correct order.

- Parameters of the proper type for the method being called.

3. Output Format

- No spelling or grammatical errors in displayed output.

- The output formatted correctly in terms of line stepping and spacing.

4. Computation, Comparisons and Assignments

- All statements end with a semicolon.

- The proper relational and logical operators are used.

- The error condition is not really reasonable when leaving one of the two numbers a or b blank.

- There is a case where the calculation will give wrong results.

5. Exceptions

- Not all relevant exceptions caught (when leaving one of the two numbers a or b blank)

6. Flow of Control

- Nested if statements don't have “dangling else” problems.

- Open-close parentheses and brace pairs properly situated and matched.

- Logical expressions evaluate to the correct true and false value.