CSCI 2134 Code Review Checklist[[1]](#footnote-1)

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| Participants: | Muaad Alrawhani B00538563(Moderator and Scribe) | | Howard Le B00799284  (Reviewer) |
| Sabrina Dasilva b00796952  (reviewer) | | Julia Olmstead B00780639 (Moderator, reader, and scribe) |
| Date: | 01/28/2020 | Project: | TimBot |
| Files: | TimBot.java | | |

**Rating**: (**A**) Occasional occurrence (**B**) Frequent occurrence (**C**) Pervasive (really bad)

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| **Hygiene and understandability** | Rating | Locations if present (File/Line #) |
| * Commented-out code fragments | N/A |  |
| * Magic numbers (instead of constants) | N/A |  |
| * Improper or inconsistent naming convention |  |  |
| **Formatting (adheres to code guidelines)** | Rating | Locations if present (File/Line #) |
| * Inconsistent indentation | N/A |  |
| * Inconsistent horizontal spacing: between operators, keywords | N/A |  |
| * Inconsistent vertical spacing between methods, blocks, classes, etc | N/A |  |
| **Comments** | Rating | Locations if present (File/Line #) |
| * Needless or redundant comments | B | * Line 90 - 95, “If it does not wish to move” indicating a change in location status; however, the timbot never moves according to the method * Line 162-167: indicates an ability to fire at certain locations however the method doesn’t (i.e. returns null) * Line 37 - 38: line 25 states the id is between 0 and 99; however 37-38 says 1 or greater |
| * No method headers to document parameters and functional dependencies | A | * Line 148-151: needs parameter comments |
| * Inconsistent in format and level of detail | A | * Spelling mistakes   + line 24 “tibot”   + line 79 “ospresso”   + line 136 “enery”   + line 180 “shoud” * Lines 78-82 & Lines 27-28: doesn’t follow Javadoc guidelines (inconsistent formatting) |
| **Error Handling** | Rating | Locations if present (File/Line #) |
| * Confusing or incomplete error messages | N/A |  |
| * Unhandled boundary and edge cases (null, 0, negative) | N/A |  |
| * Unvalidated use of parameters or inputs | N/A |  |
| **Code Decisions** | Rating | Locations if present (File/Line #) |
| * Redundant code present | N/A |  |
| * Inappropriate accessibility (public, private, etc.) | N/A |  |
| * Unnecessary or redundant classes or objects | A | * Missing District class, unable to determine if unnecessary or redundant. |
| * Variables not in lowest scope |  |  |
| **Logic** | Rating | Locations if present (File/Line #) |
| * Out of bounds array indexes | N/A |  |
| * Incorrect conditions in conditional statements and loops | A | * Line 156 “if( energyLevel < 99 )” should be “if( energyLevel > 99 )” |
| * Loops may not terminate | N/A |  |
| * Division by zero possible | N/A |  |

# Comments:

Briefly list the top three issues with the codebase being reviewed and describe what remediations you would recommend.

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| Either add the code that allows the abilities for change in location or fix the comment to not say you can change location at all. This applies for the firing of the cannon method as well.  Keep a consistent formatting and way to comment parameters for methods – preferably javadocs.  Make sure conditions and conditional statements are fixed so the code will work properly. The energy will not exceed the cap amount.  Make clear in the comment the proper bounds for the ID of the timbot – either 0-99 or 1 and greater  We believe that fixing these core problems will increase the code quality and decrease the amount of issues for the future. These are the recommendations that we decided upon in Lab 2 8:30 am session. |

1. Based on <https://courses.cs.washington.edu/courses/cse403/12wi/sections/12wi_code_review_checklist.pdf> [↑](#footnote-ref-1)