**Code Review Defect List**

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| **Reviewer: Anthony Kowalczyk** | | | | **GH Repo: nnelson9\_review** | | | |
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| **ID #** | **Location** | | **Problem Description** | | **Problem** | | |
| **File and Line Number** | | **Category** | **Severity** | |
| 1 | Main.java 1 | | Does not include the date, discription,methods,inputs etc | | CG | LOW | |
| 2 | SortAlgos.java 143 | | mergeSort merely does one check then calls another method, it can just use that method to do the check | | CS | LOW | |
| 3 | SortAlgos.java 1 | | SortAlgos is a large class that can be separated into smaller classes that specifically cater to each sorting algorithm | | CS | LOW | |
| 4 | SortDemo.java 37,92,96 | | SortDemo methods all do not have banner detailing the public method | | CG | LOW | |
| 5 | SortAlgos.java 100,128,158,198,226,288, 319 | | All private methods in SortAlgos are not prefixed with an underscore | | CG | LOW | |
| 6 | Item.java 4 | | The class member variable key is not private. I know that this would break a large portion of the program as a lot of it uses .key to get the value in key. However this does fall under the CG 5 category. A getter for key would have to be implemented | | CG | LOW | |
| 7 | SortAlgos.java 100,128,158,198,226,288, 319 | | Private methods are not in the correct positioning according to the CG 7 | | CG | LOW | |
| 8 | SortAlgos.java 108,111, 114 | | } not separated into its on line breaking CG 8a | | CG | LOW | |
| 9 | SortAlgos.java 131 | | Prints unnecessarily when an item is inserted into an array | | FD | MJ | |
| 10 | SortDemo.java 106 | | Time is not reset of array was initialized | | FD | MJ | |
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Category: **CS –** Code Smell defect**. CG –** Violation of a coding guideline. Provide the guideline number. **FD** – Functional defect. Code will not produce the expected result. **MD –** Miscellaneous defect, for all other defects.

Severity: **BR** - Blocker, must be fixed asap. **MJ** – Major, of high importance but not a Blocker **LOW** – Low.