Code Review Defect List

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| Reviewer: Vaniya Agrawal | | GH Repo: https://github.com/vsagrawal0/vsagraw2\_review.git | | |
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| **ID #** | **Location** | | **Problem Description** | | Problem | | |
| **File and Line Number** | | **Category** | **Severity** | |
| 1 | SortDemoData.java, 0 | | Source code is missing file banner comment | | CG1 | LOW | |
| 2 | Item.java, 0 | | Public class is missing class banner comment | | CG2 | LOW | |
| 3 | SortDemoData.java, 72 | | Public method, runAlgo, banner comment is present but is not filled in sufficiently (missing method name and description) | | CG3 | LOW | |
| 4 | SortAlgos.java, 128 | | Private method insertAtPosition is not named properly, needs to be prefixed by an underscore | | CG4d | LOW | |
| 5 | Item.java, 4 | | key attribute is public, needs to be private | | CG5 | MJ | |
| 6 | SortAlgos.java, 100 | | Private methods (findInsPosition, insertAtPosition, merge, mergeSort, quickSort, heapify, and createHeap) should be listed after the last public method (heapSort) | | CG7 | LOW | |
| 7 | SortDemoData.java, 88 | | Switch statement is present | | CS3 | MJ | |
| 8 | Item.java | | Item class is just a wrapper for an integer, provides no functionality | | CS5 | LOW | |
| 9 | SortDemoData.java, 19 | | initializeArray is a long method, can potentially be reduced or broken up | | CS9 | LOW | |
| 10 | SortDemoData.java, 46 | | initializeArray allows for duplicates within a set | | FD | BR | |
| 11 | SortAlgos, 24 | | bubbleSort does not sort last item in array | | FD | BR | |
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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.