Code Review Defect List

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| Reviewer: Kevin Nolf | | GH Repo: knolf\_review | | |
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| **ID #** | **Location** | | **Problem Description** | | Problem | | |
| **File and Line Number** | | **Category** | **Severity** | |
| 1 | SortAlgos.java- ln 3  SortDemo.java- ln 4  SortDemoData.java- ln 4  Item.java- ln 2  InvalidOperationException.java- ln 3  Main.java- ln 7 | | No File banner present or banner not filled out in file and others | | CG 1 | Low | |
| 2 | SortDemo.java- ln 21 | | No Class Banner present and filled out for SortDemo Class | | CG 2 | Low | |
| 3 | SortDemoData.java-ln 19 | | No Method Banner present and filled out for initializeArray(String) method in SortDemoData.java | | CG 3 | Low | |
| 4 | SortAlgos.java- ln 100 | | Private Method findInsPosition(Item [], int, int) is not prefixed with an underscore | | CG 4d | Low | |
| 5 | Item.java- ln 4 | | Class member variable int key is not declared as private | | CG 5 | MJ | |
| 6 | SortDemo.java- ln 28 | | Private String Literal ‘helpStr’ is not declared as final | | CG 6 | Low | |
| 7 | SortDemoData.java- ln 88 | | Switch Statement Used | | CS 3 | MJ | |
| 8 | SortAlgos.java- all | | Large Class- Class contains every sorting method in program. Contains ~350 lines of code; could be broken into different class files | | CS 2 | Low | |
| 9 | SortDemoData.java- ln 27 | | Identifier too short. Int ‘n’ is the length og myArray but is too short and lacks description in variable name | | CS 11 | Low | |
| 10 | SortAlgos.java- ln 24 | | Bubble sort does not look to last number in array to sort it, it just keeps it in the last position of the output. If last int input isn’t highest number, output will be incorrect. Int n needs to equal the size of the whole vector, not vector – 1. | | 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.