Code Review Defect List

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|  | | Reviewer:  Maxwell Heller-mhheller\_\_\_\_\_\_\_\_\_ | | GH Repo: \_mhheller\_review\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |  |
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| **ID #** | **Location** | | **Problem Description** | | Problem | | |
| **File and Line Number** | | **Category** | **Severity** | |
| 1 | All source files -  Lines 3~6 | | No source files have a proper file header. Some have an incomplete header, but most have none. | | CG1 | LOW | |
| 2 | SortDemo.java  Line 84, 92, 96 | | Methods in SortDemo.java do not have proper method headers | | CG3 | LOW | |
| 3 | SortDemoTest.java  Line 11-12 | | Class SortDemoTest is missing proper class header | | CG2 | LOW | |
| 4 | SortDemoData.java  Line 9-10 | | Variables myArray and algo are declared public when all class attributes should be private. | | CG5 | LOW | |
| 5 | SortDemoData.java  Line 88 | | Switch statement used | | CS3 | LOW | |
| 6 | SortDemoData.java  Lines 19, 53-69 | | initializeArray method does not remove duplicates properly, therefore does not initialize arrays properly. | | FD | BR | |
| 7 | SortAlgos.java  Line 20-36 | | Bubblesort does not properly sort if the last element in the array is the minimum element. | | FD | BR | |
| 8 | SortDemoTest.java  Lines 49, 60, 71, 83 | | Method names do not follow lower camelCase | | CG4 | LOW | |
| 9 | Item.java  Lines 1-10 | | Class does too little. The class only holds a single int variable, as-is the class is redundant. | | CS5 | MJ | |
| 10 | Item.java  Line 4 | | Class member variable is pubic and in the wrong order (before constructor) | | CG7  CG5 | LOW | |
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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.