Code Review Defect List

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| Reviewer: Teresa Pino | | GH Repo: tmpino\_review | | |
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| **ID #** | **Location** | | **Problem Description** | | Problem | | |
| **File and Line Number** | | **Category** | **Severity** | |
| - | SortDemoTest  Line 8-9 | | Unused imports – unnecessary code | | MD | Low | |
| - | InvalidOperationException  Line 8 | | Serializable class needs serialVersionUID to verify sender/receiver have loaded compatible classes for serialization | | FD | Possible MJ | |
| 1 | Item.java | | File lacks class banner comment | | CG | Low | |
| 2 | AlgoTest.java | | File lacks file banner comment | | CG | Low | |
| 3 | SortDemoData.java  Line 92-120 | | Switch case | | CS | Low | |
| 5 | Item.java | | Lazy class – does too little | | CS | Low | |
| 8c | RandomNumber.java  Line 70-76 | | If statement doesn’t contain { } | | CG | Low | |
| 2 | SortAlgos.java | | Large class | | CS | Low | |
| 9 | SortDemoData.java  Line 18-75 | | Long method | | CS | Low | |
| 5 | SortDemoData.java  Line 9-10 | | Public variables should be private | | CG | Low | |
| 5 | InvalidOperationException – All lines | | This code does something, you could easily do with what Java has. | | CS | Low | |
| 4 | RandomNumber – All lines | | Uses many features of many classes throughout the short amount of code | | CS | Low | |
| 3 | SortDemoData – 90-120 | | Has a large switch statement | | CS | Low | |
| 2 | SortAlgos – All Lines | | Has many sorting algorithms that could have been better distributed in other classes | | CS | Low | |
| 9 | SortDemoData – 83-138 | | The method is pretty long because of the switch | | CS | Low | |
| 5 | SortDemoData – 9-10 | | Attributes should be private | | CG | Low | |
| 5 | Item – 4 | | Attribute should be private | | CG | Low | |
| 4 | SortDemo – All lines | | Pretty much uses only features from other classes. | | CS | Low | |
| 2 | SortDemoData – All lines | | Long class that could have separated functionality. | | CS | Low | |
| 8 | SortDemoData – All lines | | Code is not uniformly consistent | | CF | Low | |

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.