

## Code Review Defect List

Reviewer: **Gabriel Martinez**

GH Repo: [https://github.com/master-of-null/gmart53\\_review](https://github.com/master-of-null/gmart53_review)

ID #	Location	Problem Description	Problem	
	File and Line Number		Category	Severity
1	Main.java: file header	File header for Main.java does not adhere to company file banner standards	CG	LOW
2	RandomNumber.java: 21-26	Private constants not prefixed with an underscore	CG	LOW
3	SortDemoData.java: 89-117	{ bracket should be at the end of the line, there is code after in all the case statements	CG	LOW
4	SortDemoData.java: 46-52	Indentation is not consistent. There is double indent for all of the lines in the for loop	CG	LOW
5	SortDemoData.java: 47-49	Brackets not used for do-while loop.	CG	LOW
6	Item.java Whole class	Lazy Class: not sure why this class is necessary at all. All it contains is a Item class object with a int 'key' instance variable. Not necessary.	CS	BR
7	SortAlgos.java: 225	quickSort() method is very long. Should be refactored	CS	LOW
8	SortDemoData.java	Initializing an array with duplicate data does not produce correct result	FD	MJ
9	SortAlgos.java: 157	mergeSort() doesn't need that many parameters. This data can be calculated within the method	CS	BR
10	SortDemoData.java 19	initializeArray() doesn't have the proper method header description	CG	LOW
11	SortDemoData.java: 89-117	Switch statements can be ugly	CS	BR

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.