## **Guilherme Poças 60236**

Code Smells

1. Dead Code

*private final* Action[] myDelegates;

myDelegates = delegates;

Location: ganttproject\src\main\java\net\sourceforge\ganttproject\action\ArtefactAction.java

The variable myDelegates stores an array of Action type objects, but it is never read from, only assigned values, so it serves no purpose and only clutters the code.

Solution: delete the variable.

1. Speculative generality

*public static* List<MutableTreeTableNode> breadthFirstSearch(MutableTreeTableNode rootNode) {  
 *final* List<MutableTreeTableNode> result = Lists.newArrayList();  
 breadthFirstSearch(rootNode, *new* Predicate<Pair<MutableTreeTableNode,MutableTreeTableNode>>() {  
 *public boolean* apply(Pair<MutableTreeTableNode, MutableTreeTableNode> parent\_child) {  
 result.add(parent\_child.second());  
 *return true*;  
 }  
 });  
 *return* result;  
}

Location: ganttproject/src/main/java/net/sourceforge/ganttproject/TreeUtil.java

This method for Tree breadth first searching is never used, so it’s not currently needed, and it doesn’t help the code.

Solution: if there is no use for the method, delete it.

1. Data Class

*public class* Pair<F, S>

*private final* F myFirst;  
*private final* S mySecond;

Location: ganttproject/src/main/java/net/sourceforge/ganttproject/util/collect/Pair.java

This class serves only to save two values of different types, and only has two getter methods, and one creation method, so it has no real functionality or necessity.

Solution: Instead of using this class, utilize two different variables, or if they’re the same type, an array.