Task 1

Size

- 1.22539
- 2. HTMLEditor.java at 2144 LOC
- 3. It appears that the Metrics tool isn't counting comments or whitespace.

Cohesion

- 1. You would draw a MAG test, that is to draw a diagram with a class' methods and attributes, drawing lines from which method accesses which attributes. E = the number of edges in the diagram, n = the number of methods, and a = the number of attributes. The equation is then: 1 e/(n*a).
- 2. LinkDialogue.java, it has many attributes but not many methods.

Complexity

- 1.42
- 2. Finder.java with 5.5

3.

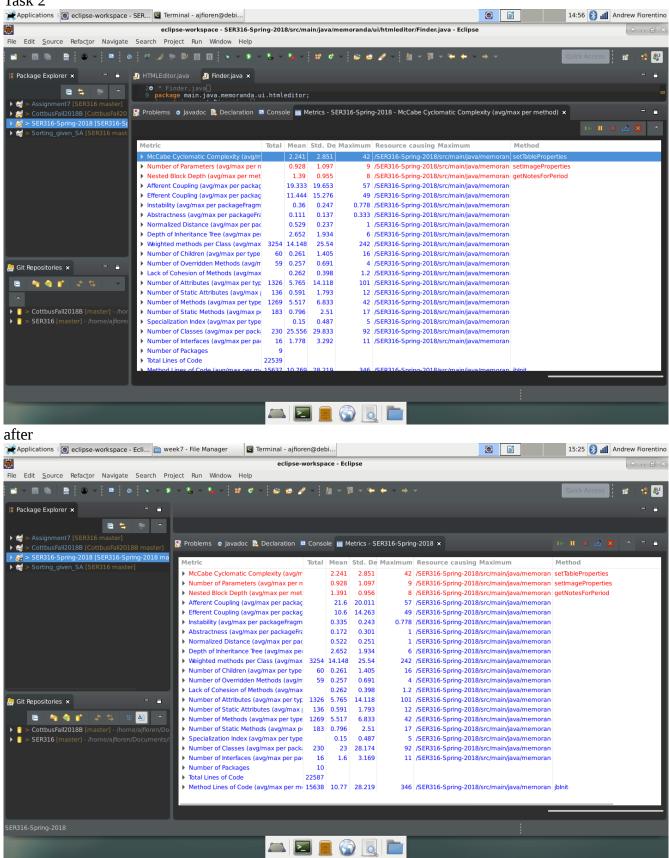
Package-level Coupling

- 1. The number of classes in other packages that depend on classes within the package is afferent coupling, whereas efferent coupling is the number of classes in other packages that the classes in the package depend on.
- 2. main.java.memoranda.util has the worst afferent coupling, 57
- 3. main.java.memoranda.ui has the worst efferent coupling, 49

Worst quality

I think that the worst class is the Finder.java class. It has the highest average Cyclomatic Complexity because it's trying to do too much. This class is difficult to read and traverse logically..

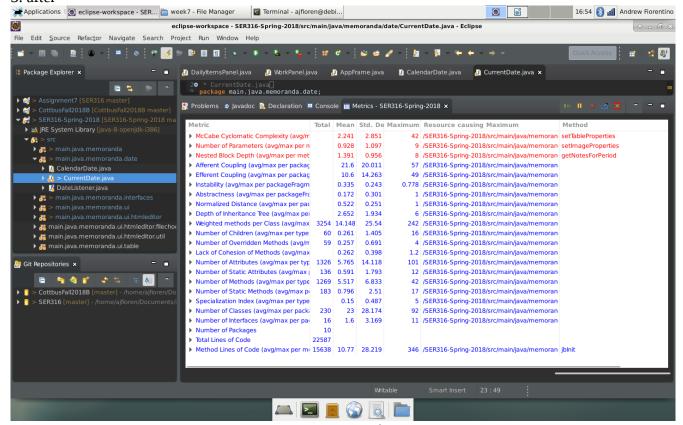




8. Afferent and Efferent coupling changed, which make sense. Since some of the classes that were dependent on classes in the package were moved out of the package.

Task 3

- 1. In EventsManager.java the class getStickers creates a number of elements, but the identifiers for them start to get sloppy. I simply changed the name of a few of them to be more meaningful (and easier to read).
- 2. In CurrentDate.java there is a getter method that isn't very descriptive.
- 3. after



4. The metrics appear to be the same, which isn't much of a surprise. Changing variable names will likely have no impact on performance, but will have an effect on readability.