Eclipse Variation

**TASK 1**

**Size**

1. 2187 Total LOC found is java.main.memoranda
2. EventsManager.java
3. Takes every non blank and non commented line as a line of code

**Cohesion**

1. It’s a way to calculate cohesion of the class lower number being the better its calculated by

* m being the number of methods in the code
* a being the number of variables
* mA being the number of methods that access a variable

LOCOM2 = 1 – sum(mA)/(m\*a)

1. The highest Cohesion of Methods is TaskListImpl I think its partially to do with the large amount of coding needed just to create tasks or calculate tasks and the amount of gets and sets used in the code while. This would make it look like that I’m not accessing the variable of the code when I actually am in a different way.

**Complexity**

1. Mean 1.746 Std. Dev. 1.547 Max 16
2. EventsManager.java has the worst because in most of the functions you have 1 or more if statements that create new branches in the code to follow
3. Couldn’t find any way to reduce compliexity think its an issue with how eclipse is seeing the metrics

**Package-level Coupling**

1. Deffintions
   1. Afferent coupling: The amount of other packages relying on the specific package
   2. Efferent coupling: The amount of packages the current package is reliant on
2. java.main.memoranda.util has the worst afferent Coupling at a value of 57
3. java.main.memoranda.ui has the worst efferent coupling at a value 49

**TASK 2**

**Initial Screenshot**

