

CSSE 376 LAB #8

1. The only metric that is exceeded is number of parameters per method. The TwitterClient constructor in the TwitterClient.java file.
2. You could have a struct or class which contains all of those objects that you need in the constructor, or you can have setter methods which should be called separately to set different members.
3. This code does meet that heuristic.
4. There are three different paths through the code. One is caused by having a value for backOffMillis of 0, one is caused by having a value of backOffMillis > capMillis, and a third path in which backOffMillis <= capMillis.
5. Afferent Coupling is the number of other packages which depend on a given class, while efferent coupling is the opposite, the number of packages which a given package depends on.

6. The effectiveness of the top level design inspection is as follows:

$$\frac{\text{Defects found and removed in phase}}{\text{Defects existing before phase or injected during phase}} = \frac{806}{928 + 154} = \frac{806}{1082} = 74.49\%$$

7. The effectiveness of the low level design inspection is as follows:

$$\frac{\text{Defects found and removed in phase}}{\text{Defects existing before phase or injected during phase}} = \frac{761}{948 + 928 + 154 - 806} = \frac{761}{1224} = 62.17\%$$

8. The effectiveness of the overall development process is as follows:

$$\frac{\text{Defects found and removed overall} - \text{those found in the field}}{\text{All defects which exist}} = \frac{806 + 761 + 1144 + 346 + 267 + 76}{928 + 154 + 948 + 1469 + 12 + 10 + 2 + 3} = \frac{3400}{3526} = 96.43\%$$