

Lab 8 Answers

1. Metrics outside of optimal range:
 - a. Number of Parameters – TwitterClient
2. Putting some of the parameters into a list would decrease the number of parameters being specifically entered into the initialization.
3. Yes. The Cyclomatic complexity for this code is about 2.478.
4. backOff has 3 independent paths.

The conditions that would lead to these independent paths are as follows:

 - a. `backOffMillis` is equal to 0.
 - b. `backOffMillis` is not equal to 0, and is greater than `capMillis`.
 - c. `backOffMillis` is not equal to 0, and is not greater than `capMillis`.
5. Afferent Coupling measures the number of other packages that depend on a package.
Efferent Coupling measures the number of other packages that a package depends on.
6. Effectiveness of Top Level Design = $(806 / (928 + 154)) * 100 = 74.49\%$
7. Effectiveness of Low Level Design = $(761 / (948 + 928 + 154 - 806)) * 100 = 62.17\%$
8. Overall defect removal effectiveness = $(1 - (126 / 3526)) * 100 = 96.4\%$