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 1   Lab 8 – Metrics
 2   Arda C. Tugay
 3   Steven Moyes
 4
 5   Q1: The number of parameters (avg/max per method) is outside of optimal range. The
     constructor for the TwitterClient class is responsible for this with 7 total parameters.
 6
 7   Q2: The constructor can be refactored into methods that assign the given values to
     their respective variables. For example, this.credentials can be assigned in
     createCredentials(...) and authScope can be assigned in createAuthScope(...).
 8
 9   Q3: Yes, this code meets the cyclomatic complexity requirements with a mean of 2.478.
     Further, the maximum for McCabe Cycolomatic Complexity is 10, which is well below the
     heuristic 15.
10
11   Q4: There are 3 independent paths. The first path occurs in the first if statement, and
     occurs when backOffMillis is equal to 0. The second path occurs in the else statement,
     if the backOffMillis is greater than capMillis. The third path also occurs in the else
     statement, but happens if backOffMillis is not greater than capMillis.
12
13   Q5: Afferent coupling describes the number of external packages that have dependencies
     with the current package. It indicates a package's responsibility.
14   Efferent coupling describes the number of external packages that the classes in the
     current package depend on. It indicates a package's independence.
15   In project analysis, both types of coupling outline the degree in which classes rely on
     other classes.
16
17   Q6: (53+753)/(154+928) = 806/1082 * 100% = 74.49%
18
19   Q7: (3+65+693)/((1082–806)+948) = 761/1224 * 100% = 62.17%
20
21   Q8: 1 – (126/3526) * 100% = 96.43%
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