Evaluation

1

JDeodorant:

Feature Envy, God Class, Long Method and Switch Statement (in its Type Checking variant) code smells

PMD:

Large Class, Long Method, Long Parameter List, and Duplicated Code smells and other potential problems like dead code, unused local variables (347 rules in total)

2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Long parameter list | Long method | God class |  |
| JDeodorant | N/A | 0 | 57 |  |
| PMD | 4 | 11 | 42 |  |

Long parameter list

JD: Don’t support

PMD (excessive parameter list 10): Nothing found

Change to #8: 4 results (position info)

*Methods with numerous parameters are a challenge to maintain, especially if most of them share the*

*same datatype. These situations usually denote the need for new objects to wrap the numerous parameters.*

Long method

JD: Nothing found

PMD (excessive method length 100):

*The NPath complexity of a method is the number of acyclic execution paths through that method.*

*Try to reduce the method length by creating helper methods and removing any copy/pasted code.*

God class

JD: 57

PMD: 42 in total (html)

*The God Class rule detects the God Class design flaw using metrics. God classes do too many things,*

*are very big and overly complex. They should be split apart to be more object-oriented.*

Overlap: 20

JD: 35.1%

PMD: 47.6%