**CPTS 422 - Deliverable 2**

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**Coverage metric defined as statement coverage.**

**Halstead Checks**

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| **Tested Class Name** | **Coverage Percentage** | **Reason** |
| *HalsteadLengthCheck* | 70.8% | *FinishTree* not covered, due to *log* function |
| *HalsteadVolumeCheck* | 93.3% | *FinishTree* not covered, due to *log* function |
| *HalsteadDifficultyCheck* | 89.8% | *FinishTree* not covered, due to *log* function |
| *HalsteadVocabularyCheck* | 67.5% | *FinishTree* not covered, due to *log* function |
| *HalsteadEffortCheck* | 68.4% | *FinishTree* not covered, due to *log* function |

**Tokens**

|  |  |  |
| --- | --- | --- |
| **Tested Class Name** | **Coverage Percentage** | **Reason** |
| *Operands* | 94.8% | Class is never instanced. |
| *Operators* | 98.4% | Class is never instanced. |

**B-list Checks**

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| --- | --- | --- |
| **Tested Class Name** | **Coverage Percentage** | **Reason** |
| *ExpressionCheck* | 0.0% | No idea; Junit refuses to run test covering this check, and no error codes are logged. |
| *LoopingStatementsCheck* | 0.0% | No idea; Junit refuses to run test covering this check, and no error codes are logged. |
| *GetOperatorsCheck* | 61.5% | *FinishTree* not covered, due to *log* function |
| *GetOperandsCheck* | 63.6% | *FinishTree* not covered, due to *log* function |
| *GetCommentsCheck* | 67.0% | *FinishTree* not covered, due to *log* function |

**Extras Checks**

|  |  |  |
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| **Tested Class Name** | **Coverage Percentage** | **Reason** |
| *VariableDeclarationsCheck* | 60.4% | *FinishTree* not covered, due to *log* function |

**Summary**

All instances of *FinishTree* are ignored due to the complexities of the *AbstractCheck.log* function; the remainder of the classes tested are fully covered. Testing checks are particularly difficult since they operate within an Eclipse environment on source code, compared to other, less recursed classes. The test and checks likely contain errors not caught due to this complexity and time constraints.