HalsteadLengthCheckTest

▼ ⑤ HalsteadLengthCheck		94.0 %	235	15	250
finishTree(DetailAST)		28.6 %	6	15	21
getAcceptableTokens()		100.0 %	3	0	3
getDefaultTokens()		100.0 %	67	0	67
getNumOperands()		100.0 %	3	0	3
getNumOperators()		100.0 %	3	0	3
getRequiredTokens()		100.0 %	3	0	3
isOperand(DetailAST)		100.0 %	29	0	29
isOperator(DetailAST)	1	100.0 %	5	0	5
setNumOperands(int)		100.0 %	4	0	4
setNumOperators(int)		100.0 %	4	0	4
visitToken(DetailAST)		100.0 %	22	0	22

Testing the finishTree method is challenging because it uses Checkstyle's logging system, which produces side effects rather than a testable return value. This makes verifying logs difficult, as tools like Mockito struggle with internal framework methods. Additionally, reaching finishTree requires simulating a full code tree, complicating direct output verification in a unit test.

NumOfCommentsCheck

67 13
12
13
3
3
11
3
2
4
22

Testing finishTree is difficult due to its reliance on Checkstyle's protected log method in the AbstractCheck superclass. Standard mocking methods, like using a spy or stubbing log, can disrupt class behavior and reduce coverage. Additionally, finishTree resets commentCount after logging, making isolated testing challenging. This issue often arises when testing framework-specific logging that's hard to decouple.