























Category A










HalsteadLengthCheckTest

| | | | | | | |
|---|-----------------------|---|---------|-----|---|-----|
| ▼  | HalsteadLengthCheck |  | 100.0 % | 250 | 0 | 250 |
| | finishTree(DetailAST) |  | 100.0 % | 21 | 0 | 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) |  | 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 |











HalsteadVocabularyCheck

| | | | | | | |
|---|-------------------------|---|---------|-----|---|-----|
| ▼  | HalsteadVocabularyCheck |  | 100.0 % | 213 | 0 | 213 |
| | finishTree(DetailAST) |  | 100.0 % | 23 | 0 | 23 |
| | getAcceptableTokens() |  | 100.0 % | 2 | 0 | 2 |
| | getDefaultTokens() |  | 100.0 % | 67 | 0 | 67 |
| | getRequiredTokens() |  | 100.0 % | 2 | 0 | 2 |
| | getUniqueOperands() |  | 100.0 % | 3 | 0 | 3 |
| | getUniqueOperators() |  | 100.0 % | 3 | 0 | 3 |
| | visitToken(DetailAST) |  | 100.0 % | 23 | 0 | 23 |

HalsteadVolumeCheck

| | | | | | | |
|---|-----------------------|---|---------|-----|---|-----|
| ▼  | HalsteadVolumeCheck |  | 100.0 % | 238 | 0 | 238 |
| | finishTree(DetailAST) |  | 100.0 % | 33 | 0 | 33 |
| | getAcceptableTokens() |  | 100.0 % | 2 | 0 | 2 |
| | getDefaultTokens() |  | 100.0 % | 83 | 0 | 83 |
| | getProgramLength() |  | 100.0 % | 3 | 0 | 3 |
| | getRequiredTokens() |  | 100.0 % | 2 | 0 | 2 |
| | getVocabularySize() |  | 100.0 % | 4 | 0 | 4 |
| | visitToken(DetailAST) |  | 100.0 % | 23 | 0 | 23 |

HalsteadDifficultyCheck

| | | | | | | |
|---|---------------------------|---|---------|-----|---|-----|
| ▼  | HalsteadDifficultyCheck |  | 100.0 % | 246 | 0 | 246 |
| | finishTree(DetailAST) |  | 100.0 % | 40 | 0 | 40 |
| | getAcceptableTokens() |  | 100.0 % | 3 | 0 | 3 |
| | getDefaultTokens() |  | 100.0 % | 67 | 0 | 67 |
| | getRequiredTokens() |  | 100.0 % | 3 | 0 | 3 |
| | getTotalOperands() |  | 100.0 % | 3 | 0 | 3 |
| | getUniqueOperandsCount() |  | 100.0 % | 4 | 0 | 4 |
| | getUniqueOperatorsCount() |  | 100.0 % | 4 | 0 | 4 |
| | visitToken(DetailAST) |  | 100.0 % | 29 | 0 | 29 |

HalsteadEffortCheck

| | | | | | |
|-----------------------------|------------------------|---------|-----|---|-----|
| ▼ C HalsteadEffortCheck | <div><div></div></div> | 100.0 % | 347 | 0 | 347 |
| ● finishTree(DetailAST) | <div><div></div></div> | 100.0 % | 73 | 0 | 73 |
| ● getAcceptableTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getDefaultTokens() | <div><div></div></div> | 100.0 % | 67 | 0 | 67 |
| ● getHalsteadEffort() | <div><div></div></div> | 100.0 % | 53 | 0 | 53 |
| ● getRequiredTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getTotalOperands() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getTotalOperators() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getUniqueOperands() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getUniqueOperandsCount() | <div><div></div></div> | 100.0 % | 4 | 0 | 4 |
| ● getUniqueOperatorsCount() | <div><div></div></div> | 100.0 % | 4 | 0 | 4 |
| ● visitToken(DetailAST) | <div><div></div></div> | 100.0 % | 35 | 0 | 35 |

Category B

NumOfCommentsCheck

| | | | | | |
|----------------------------|------------------------|---------|----|---|----|
| ▼ C NumOfCommentsCheck | <div><div></div></div> | 100.0 % | 67 | 0 | 67 |
| ● finishTree(DetailAST) | <div><div></div></div> | 100.0 % | 13 | 0 | 13 |
| ● getAcceptableTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getCommentCount() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getDefaultTokens() | <div><div></div></div> | 100.0 % | 11 | 0 | 11 |
| ● getRequiredTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● isCommentNodesRequired() | <div><div></div></div> | 100.0 % | 2 | 0 | 2 |
| ● setCommentCount(int) | <div><div></div></div> | 100.0 % | 4 | 0 | 4 |
| ● visitToken(DetailAST) | <div><div></div></div> | 100.0 % | 22 | 0 | 22 |

NumOfLinesOfCommentsCheck

| | | | | | |
|-------------------------------|------------------------|---------|----|---|----|
| ▼ C NumOfLinesOfCommentsCheck | <div><div></div></div> | 100.0 % | 75 | 0 | 75 |
| ● beginTree(DetailAST) | <div><div></div></div> | 100.0 % | 4 | 0 | 4 |
| ● finishTree(DetailAST) | <div><div></div></div> | 100.0 % | 9 | 0 | 9 |
| ● getAcceptableTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getCommentLinesCount() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getDefaultTokens() | <div><div></div></div> | 100.0 % | 11 | 0 | 11 |
| ● getRequiredTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● isCommentNodesRequired() | <div><div></div></div> | 100.0 % | 2 | 0 | 2 |
| ● visitToken(DetailAST) | <div><div></div></div> | 100.0 % | 34 | 0 | 34 |

NumOfLoopingStatementsCheck

| | | | | | |
|---------------------------------|------------------------|---------|----|---|----|
| ▼ C NumOfLoopingStatementsCheck | <div><div></div></div> | 100.0 % | 49 | 0 | 49 |
| ● finishTree(DetailAST) | <div><div></div></div> | 100.0 % | 12 | 0 | 12 |
| ● getAcceptableTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getDefaultTokens() | <div><div></div></div> | 100.0 % | 15 | 0 | 15 |
| ● getLoopCount() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● getRequiredTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| ● visitToken(DetailAST) | <div><div></div></div> | 100.0 % | 7 | 0 | 7 |

NumOfOperatorsCheck

| | | | | | | |
|-----|-----------------------|------------------------|---------|-----|---|-----|
| ▼ C | NumOfOperatorsCheck | <div><div></div></div> | 100.0 % | 137 | 0 | 137 |
| | finishTree(DetailAST) | <div><div></div></div> | 100.0 % | 12 | 0 | 12 |
| | getAcceptableTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | getDefaultTokens() | <div><div></div></div> | 100.0 % | 47 | 0 | 47 |
| | getRequiredTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | getTotalOperators() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | visitToken(DetailAST) | <div><div></div></div> | 100.0 % | 14 | 0 | 14 |

NumOfOperandsCheck

| | | | | | | |
|-----|-----------------------|------------------------|---------|----|---|----|
| ▼ C | NumOfOperandsCheck | <div><div></div></div> | 100.0 % | 93 | 0 | 93 |
| | finishTree(DetailAST) | <div><div></div></div> | 100.0 % | 12 | 0 | 12 |
| | getAcceptableTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | getDefaultTokens() | <div><div></div></div> | 100.0 % | 23 | 0 | 23 |
| | getRequiredTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | getTotalOperands() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | visitToken(DetailAST) | <div><div></div></div> | 100.0 % | 14 | 0 | 14 |

NumOfExpressionsCheck










| | | | | | | |
|-----|-----------------------|------------------------|---------|-----|---|-----|
| ▼ C | NumOfExpressionsCheck | <div><div></div></div> | 100.0 % | 125 | 0 | 125 |
| | finishTree(DetailAST) | <div><div></div></div> | 100.0 % | 12 | 0 | 12 |
| | getAcceptableTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | getDefaultTokens() | <div><div></div></div> | 100.0 % | 91 | 0 | 91 |
| | getRequiredTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | getTotalExpressions() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | visitToken(DetailAST) | <div><div></div></div> | 100.0 % | 7 | 0 | 7 |

Extra Credit












NumOfVariableDeclarationsCheck

| | | | | | | |
|-----|--------------------------------|------------------------|---------|----|---|----|
| ▼ C | NumOfVariableDeclarationsCheck | <div><div></div></div> | 100.0 % | 45 | 0 | 45 |
| | finishTree(DetailAST) | <div><div></div></div> | 100.0 % | 12 | 0 | 12 |
| | getAcceptableTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | getDefaultTokens() | <div><div></div></div> | 100.0 % | 11 | 0 | 11 |
| | getRequiredTokens() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | getTotalVariableDeclarations() | <div><div></div></div> | 100.0 % | 3 | 0 | 3 |
| | visitToken(DetailAST) | <div><div></div></div> | 100.0 % | 7 | 0 | 7 |

NumOfExternalMethodReferencesCheck

| | | | | | |
|---|---|---------|-----|---|-----|
| ▼  NumOfExternalMethodReferencesCh |  | 100.0 % | 107 | 0 | 107 |
| ● finishTree(DetailAST) |  | 100.0 % | 15 | 0 | 15 |
| ● getAcceptableTokens() |  | 100.0 % | 3 | 0 | 3 |
| ● getCurrentClassName() |  | 100.0 % | 3 | 0 | 3 |
| ● getDefaultTokens() |  | 100.0 % | 11 | 0 | 11 |
| ● getExternalMethodReferences() |  | 100.0 % | 3 | 0 | 3 |
| ● getRequiredTokens() |  | 100.0 % | 3 | 0 | 3 |
| ● isExternalMethodReference(Detail |  | 100.0 % | 26 | 0 | 26 |
| ● setCurrentClassName(String) |  | 100.0 % | 4 | 0 | 4 |
| ● visitToken(DetailAST) |  | 100.0 % | 30 | 0 | 30 |

NumOfLocalMethodReferencesCheck

| | | | | | |
|--|---|---------|-----|---|-----|
| ▼  NumOfLocalMethodReferencesCh |  | 100.0 % | 105 | 0 | 105 |
| ● finishTree(DetailAST) |  | 100.0 % | 15 | 0 | 15 |
| ● getAcceptableTokens() |  | 100.0 % | 3 | 0 | 3 |
| ● getCurrentClassName() |  | 100.0 % | 3 | 0 | 3 |
| ● getDefaultTokens() |  | 100.0 % | 11 | 0 | 11 |
| ● getLocalMethodReferences() |  | 100.0 % | 3 | 0 | 3 |
| ● getRequiredTokens() |  | 100.0 % | 3 | 0 | 3 |
| ● isLocalMethodReference(DetailAS |  | 100.0 % | 24 | 0 | 24 |
| ● setCurrentClassName(String) |  | 100.0 % | 4 | 0 | 4 |
| ● visitToken(DetailAST) |  | 100.0 % | 30 | 0 | 30 |