JavaScript is disabled on your browser.

jminusminus

Class JWhileStatement

- java.lang.Object
  - jminusminus.JAST
    - jminusminus.JStatement
      - jminusminus.JWhileStatement

```
class JWhileStatement
extends JStatement
```

The AST node for a while-statement.

- **Field Summary**

- **Fields inherited from class jminusminus.JAST**

  compilationUnit, line

- **Constructor Summary**

  Constructors

  Constructor and Description

  JWhileStatement(int line, JExpression condition, JStatement body)
  Construct an AST node for a while-statement given its line number, the test expression, and the body.

- **Method Summary**

  Methods

Modifier and Type	Method and Description

JWhileStatement	**analyze**(Context context) Analysis involves analyzing the test, checking its type and analyzing the body statement.
void	**codegen**(CLEmitter output) Generate code for the while loop.
void	**writeToStdOut**(PrettyPrinter p) Write the information pertaining to this AST to STDOUT.

- **Methods inherited from class jminusminus.JAST**

  line, partialCodegen

- **Methods inherited from class java.lang.Object**

  clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

- **Constructor Detail**

  - **JWhileStatement**

  publicJWhileStatement(intline,
                JExpressioncondition,
                JStatementbody)

Construct an AST node for a while-statement given its line number, the test expression, and the body.

Parameters:

line - line in which the while-statement occurs in the source file.

condition - test expression.

body - the body.

- **Method Detail**

  - **analyze**

  publicJWhileStatementanalyze(Contextcontext)

Analysis involves analyzing the test, checking its type and analyzing the body statement.

Specified by:

analyze in class JAST

Parameters:

context - context in which names are resolved.

Returns:

the analyzed (and possibly rewritten) AST subtree.

  - **codegen**

  publicvoidcodegen(CLEmitteroutput)

Generate code for the while loop.

Specified by:

codegen in class JAST

Parameters:

output - the code emitter (basically an abstraction for producing the .class file).

- **writeToStdOut**

```
publicvoidwriteToStdOut(PrettyPrinterp)
```

Description copied from class: JAST

Write the information pertaining to this AST to STDOUT.

Specified by:

writeToStdOut in class JAST

Parameters:

p - for pretty printing with indentation.