JavaScript is disabled on your browser.

- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

iminusminus

Class JReturnStatement

- java.lang.Object
 - Assignment Project Exam Help
 - · jminusminus.JStatement
 - jminusminus.JReturnStatement

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extends JStatement

The AST node for a return-statement. If the enclosing method in non-void, then there is a value to return, so we keep track of the expression denoting that value and its type.

- Field Summary
- Fields inherited from class jminusminus.JAST

compilationUnit, line

Constructor Summary

Constructors

Constructor and Description

JReturnStatement(int line, JExpression expr)

Construct an AST node for a return-statement given its line number, and the expression that is returned.

Method Summary

Methods

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JStatement	<pre>analyze(Context context) Analysis distinguishes between our being in a constructor or in a regular method in checking return types.</pre>
void	<pre>codegen(CLEmitter output) Generate code for the return statement.</pre>
void	<pre>writeToStdOut(PrettyPrinter p) Write the information pertaining to this AST to STDOUT.</pre>

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

• JReturnStatement

Assignment Porojectur Extern gland pe number, and the expression that is returned.

Parameters:

httine : In an which the return statement appears in the source file.

Method Detail

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publicJStatementanalyze(Contextcontext)

Analysis distinguishes between our being in a constructor or in a regular method in checking return types. In the case of a return expression, analyze it and check types. Determine the (possibly void) return type.

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 return statement. In the case of void method types, generate a simple (void) return. In the case of a return expression, generate code to load that onto the stack and then generate the appropriate return instruction.

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.

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