JavaScript is disabled on your browser.

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

jminusminus

Class JNewOp

· java.lang.Object Project Exam Help

jminusminus.JStatement

jminusminus.JExpression

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class JNewOp
extends JExpression

The AST node for a "new" expression. It keeps track of its type, the Constructor representing the expression, its arguments and their types.

- Field Summary
- Fields inherited from class jminusminus.JExpression isStatementExpression, type
- Fields inherited from class jminusminus.JAST compilationUnit, line
- Constructor Summary

Constructors

Constructor and Description

JNewOp(int line, Type type,
ArrayList<JExpression> arguments)
Construct an AST node for a "new" expression.

Method Summary

Modifier and

Type

Methods

JExpression	analyze (Context context) To analyze the new operation, we (1) resolve the type, (2) analyze its arguments, (3) check accessibility of the type, (3) find the appropriate Constructor.
void	codegen(CLEmitter output) Generating code for a new operation involves generating the NEW instruction for creating the object on the stack, then gnerating the code for the actual arguments, and then code for invoking the constructor (the initialization method).
void	<pre>writeToStdOut(PrettyPrinter p)</pre>

Write the information pertaining to this AST to STDOUT.

Method and Description

Methods inherited from class jminusminus. JExpression

codegen, isStatementExpression, type

· Methods inherited from class jminusminus. JAST Assignment Project Exam Help

Methods inherited from class java.lang.Object

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JNewOp

Construct an AST node for a "new" expression.

Parameters:

line - the line in which the "new" expression occurs in the source file. type - the type being constructed. arguments - arguments to the constructor.

Method Detail

analyze

publicJExpressionanalyze(Contextcontext)

To analyze the new operation, we (1) resolve the type, (2) analyze its arguments, (3) check accessibility of the type, (3) find the appropriate Constructor.

Specified by:

analyze in class JExpression

Parameters:

context - context in which names are resolved.

Returns:

the analyzed (and possibly rewritten) AST subtree.

codegen

publicvoidcodegen(CLEmitteroutput)

Generating code for a new operation involves generating the NEW instruction for creating the object on the stack, then gnerating the code for the actual arguments, and then code for invoking the constructor (the initialization method).

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

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