JavaScript is disabled on your browser.

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- Summary:
- Nested |
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- Detail:
- Field |
- Constr I
- Method

jminusminus

Class JLogicalNotOp

· java.lang.Object Project Exam Help

jminusminus.JStatement*

jminusminus.JExpression

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class JLogicalNotOp
extends JUnaryExpression

The AST node for a logical NOT (!) expression.

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

Constructors

Constructor and Description

Construct an AST for a logical NOT expression given its line number, and the operand.

Method Summary

Modifier and

Methods

	Type	Method and Description
	JExpression	analyze(Context context) Analyzing a logical NOT operation means analyzing its operand, insuring it's a boolean, and setting the result to boolean.
	void	<pre>codegen(CLEmitter output) Generate code for the case where we actually want a boolean value (true or false) computed onto the stack, eg for assignment to a boolean variable.</pre>
	void	<pre>codegen(CLEmitter output, String targetLabel, boolean onTrue) The code generation necessary for branching simply flips the</pre>

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- Methods inherited from class jminusminus. JExpression https://powcoder.com
- Methods inherited from class jminusminus.JAST
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condition on which we branch.

Methods inherited from class java.lang.Object

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

Constructor Detail

JLogicalNotOp

Construct an AST for a logical NOT expression given its line number, and the operand.

Parameters:

line - line in which the logical NOT expression occurs in the source file.

arg - the operand.

Method Detail

analyze

publicJExpressionanalyze(Contextcontext)

Analyzing a logical NOT operation means analyzing its operand, insuring it's a boolean, and setting the result to boolean.

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)

Generate code for the case where we actually want a boolean value (true or false) computed onto the stack, eg for assignment to a boolean variable.

Specified by:

codegen in class JAST

Parameters:

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

codegen

publicvoidcodegen(CLEmitteroutput, StringtargetLabel, booleanonTrue)

Project Exam

The code generation necessary for branching simply flips the condition on which we branch.

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Parameters:

output - the code emitter (basically an abstraction for producing targetLabel - the label to which we should branch.

onTrue - do we branch on true?

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