JavaScript is disabled on your browser.

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jminusminus

Class JInstanceOfOp

· java.lang.Object Project Exam Help

jminusminus.JStatement*

• jminusminus.JExpression

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class JInstanceOfOp
extends JExpression

The AST node for an instanceof expression, having two arguments: an expression and a reference type.

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

Constructors

Constructor and Description

JInstanceOfOp(int line, JExpression expr, Type typeSpec) Construct an AST node for an instanceof expression given its line number, the relational expression and reference type.

Method Summary

Modifier and

Type

Methods

	Турс	
	JInstanceOfOp	<pre>analyze(Context context) Analysis of an instanceof operation requires analyzing the expression to be tested, resolving the type was are testing for, and determining if the test is legal, or if the answer can be determined at compile time.</pre>
	void	<pre>codegen(CLEmitter output) Generate code for the type test.</pre>
	void	<pre>codegen(CLEmitter output, String targetLabel, boolean onTrue) Short-circuiting branching for instanceof.</pre>
	void	<pre>writeToStdOut(PrettyPrinter p) Write the information pertaining to this AST to STDOUT.</pre>

Method and Description

Methods inherited from class jminusminus.JExpression

isStatementExpression, type

Assignmenti-Broject ExamisHelp

line, partialCodegen

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

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Constructor Detail

JInstanceOfOp

Construct an AST node for an instanceof expression given its line number, the relational expression and reference type.

Parameters:

line - the line in which the instanceof expression occurs in the source file

expr - the expression denoting the value to be tested.

typeSpec - the reference type we are testing for.

Method Detail

analyze

publicJInstanceOfOpanalyze(Contextcontext)

Analysis of an instanceof operation requires analyzing the expression to be tested, resolving the type was are testing for, and determining if the test is legal, or if the answer can be determined at compile time.

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 type test.

Specified by:

codegen in class JAST

Parameters:

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

codegen

publicvoidcodegen(CLEmitteroutput, StringtargetLabel, booleanonTrue)

Short-circuiting branching for instanceof.

Overrides:

codegen in class JExpression Assignment Project Exam Help

output - code emitter.

targetLabel - the label to which we should branch.

ttps://powcoder.com writeToStdOut

publicvoidwriteToStdOut(PrettyPrinterp)

Add WeChat powcoder 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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