JavaScript is disabled on your browser.

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

jminusminus

Class JPlusOp

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

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class JPlusOp
extends JBinaryExpression

The AST node for a plus (+) expression. In j--, as in Java, + is overloaded to denote addition for numbers and concatenation for Strings.

- Field Summary
- Fields inherited from class jminusminus.JBinaryExpression lhs, operator, rhs
- **Fields inherited from class jminusminus.JExpression** isStatementExpression, type
- Fields inherited from class jminusminus.JAST compilationUnit, line
- Constructor Summary

Constructors

Constructor and Description

JPlusOp(int line, JExpression lhs, JExpression rhs)

Construct an AST node for an addition expression given its line number, and the lhs and rhs operands.

Method Summary

Methods

Modifier and Type

Method and Description

JExpression analyze(Context context)

Analysis involves first analyzing the operands.

codegen(CLEmitter output)

void

Any string concatenation has been rewritten as a JStringConcatenationOp (in analyze()), so code generation here involves simply generating code for loading the operands onto the stack and then generating the appropriate add instruction.

- Methods inherited from class jminusminus.JBinaryExpression writeToStdOut
- Methods inherited from class jminusminus.JExpression

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- Methods inherited from class jminusminus.JAST
- https://powcoder.com Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, nAiddlWethatwoowetoder

- Constructor Detail
 - JPlusOp

Construct an AST node for an addition expression given its line number, and the lhs and rhs operands.

Parameters:

line - line in which the addition expression occurs in the source file.

lhs - the lhs operand.

rhs - the rhs operand.

- Method Detail
 - analyze

publicJExpressionanalyze(Contextcontext)

Analysis involves first analyzing the operands. If this is a string concatenation, we rewrite the subtree to make that explicit (and analyze that). Otherwise we check the types of the addition operands and compute the result type.

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)

Any string concatenation has been rewritten as a JStringConcatenationOp (in analyze()), so code generation here involves simply generating code for loading the operands onto the stack and then generating the appropriate add instruction.

Specified by:

codegen in class JAST

Parameters:

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

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- Summary:
- Nested |
- Field |
- Constr I
- Method
- Detail:
- Field I
- 7 1010 1
- Constr |
- Method