JavaScript is disabled on your browser.

- Prev Class
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- Summary:
- Nested |
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- Detail:
- Field |
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- Method

jminusminus

Class JStringConcatenationOp

· java.lang.Object Project Exam Help

jminusminus.JStatement*

jminusminus.JExpression

https://ponings.jstringeoncatenationOp

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class JStringConcatenationOp
extends JBinaryExpression

The AST node for a string concatenation operation. Nodes of this type are not produced by the parser but by analysis of a + operation where the arguments are strings. Such operations are rewritten to be string concatenation operations.

- 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

JStringConcatenationOp(int line, JExpression lhs,
JExpression rhs)

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

Method Summary

Methods

Modifier and Type

Method and Description

Analysis is simple here.

codegen(CLEmitter output)

Code generation generates code for creating a StringBuilder atop the runtime stack, appending the operands (which might contain nested concatenations; these are handled by cascadingCodegen()), and then for converting the StringBuilder to a String.

nestedCodegen(CLEmitter output)

(package nestedCodegen(CLEmitter output

- MttpSinhepQWGQGGhiGolihus.JBinaryExpression
 writeToStdOut
- Mathe in red in the transfer of the texpression codegen, is Statement Expression, type
- 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
 - JStringConcatenationOp

Construct an AST node for a string concatenation expression given its line number, and the lhs and rhs operands. An expression of this sort is created during the analysis of a (overloaded) + operation (and not by the Parser).

Parameters:

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

lhs - lhs operand.

rhs - rhs operand.

Method Detail

analyze

publicJExpressionanalyze(Contextcontext)

Analysis is simple here. The operands have already been analyzed (in JPlusOp) so we simply set 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)

Code generation generates code for creating a StringBuilder atop the runtime stack, appending the operands (which might contain nested concatenations; these are handled by cascadingCodegen()), and then for converting the StringBuilder to a String.

Specified by:

codegen in class JAST

Assignment Project Exam Help output - the code emitter (basically an abstraction for producing

the .class file).

https://powcoder.com voidnestedCodegen(CLEmitteroutput)

Live alcode (1) (2) but we needn't (and should 1) create a StringBuilder nor convert the result to a String, as that will be done in a parent.

Parameters:

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

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