JavaScript is disabled on your browser.

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

jminusminus

Class JPostDecrementOp

· java.lang.Object Project Exam Help

jminusminus.JStatement*

jminusminus.JExpression

https://pigusminus.didireExpression

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class JPostDecrementOp
extends JUnaryExpression

The AST node for an expr--.

- 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 node for an expr-- expression given its line number, and the operand.

Method Summary

Methods

Modifier and Type

Method and Description

JExpression

analyze(Context context)

Analyze the operand as a lhs (since there is a side effect),

check types and determine the type of the result.

void

codegen(CLEmitter output)

In generating code for a post-decrement operation, we treat simple variable (JVariable) operands specially since the JVM

has an increment instruction.

 Methods inherited from class jminusminus.JUnaryExpression writeToStdOut

• Methods inherited from class jminusminus.JExpression

codegen, isStatementExpression, type

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line, partialCodegen

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

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- Constructor Detail
 - JPostDecrementOp

Construct an AST node for an expr-- expression given its line number, and the operand.

Parameters:

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

- Method Detail
 - analyze

publicJExpressionanalyze(Contextcontext)

Analyze the operand as a lhs (since there is a side effect), check types and determine the type of the result.

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)

In generating code for a post-decrement operation, we treat simple variable (JVariable) operands specially since the JVM has an increment instruction. Otherwise, we rely on the JLhs code generation support for generating the proper code. Notice that we distinguish between expressions that are statement expressions and those that are not; we insure the proper value (before the decrement) is left atop the stack in the latter case.

Specified by:

codegen in class JAST

Parameters:

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

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