JavaScript is disabled on your browser.

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- Summary:
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- Field |
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**jminusminus** 

### **Class JExpression**

java.lang.Object

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jminusminus.JStatement

• jminusminus.JExpression

Direct Known https://powcoder.com

JArrayExpression, JArrayInitializer, JBinaryExpression, JCastOp, JFieldSelection, JInstanceOfOp, JLiteralChar, JLiteralFalse, JLiteralInt, JLiteralNull, JLiteralString, JLiteralTra, Offices (respondant) (Proposition) (Proposit

abstract class **JExpression** extends JStatement

The AST node for an expression. The syntax says all expressions are statements, but a semantic check throws some (those without a side-effect) out. Every expression has a type and a flag saying whether or not it's a statement-expression.

Field Summary

Fields

**Modifier and Type** 

**Field and Description** 

protected boolean isStatementExpression

Whether or not this expression is a

statement.

protected Type **type** 

Expression type.

• Fields inherited from class jminusminus.JAST

compilationUnit, line

• Constructor Summary

Constructors

Modifier

**Constructor and Description** 

protected

JExpression(int line)

Construct an AST node for an expression given its line number.

mannoon.

Method Summary

Methods

Modifier and Type

**Method and Description** 

abstract JExpression

analyze(Context context)

The analysis of any JExpression returns a JExpression.

codegen(CLEmitter output, String targetLabel, boolean onTrue)

Assignmer

Expression, given the code emitter, a target label, and whether we branch to that label on true or on false.

boole https://powetoder.com

Type

# Add WeChatepoweoder

• Methods inherited from class jminusminus.JAST

codegen, line, partialCodegen, writeToStdOut

Methods inherited from class java.lang.Object

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

- Field Detail
  - type

protectedType type

Expression type.

• isStatementExpression

protectedboolean isStatementExpression

Whether or not this expression is a statement.

### Constructor Detail

JExpression

protectedJExpression(intline)

Construct an AST node for an expression given its line number.

### Parameters:

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

### Method Detail

• type

publicTypetype()

Return the expression type.

#### Returns:

the expression type.

isStatementExpression

publicbooleanisStatementExpression()

Is this a statementRxpression?

### Returns:

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analyze

public abstractJExpressionanalyze(Contextcontext)

### https://powcoder.com

The analysis of any JExpression returns a JExpression. That's all this (re-)declaration of analyze() says.

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### **Parameters:**

context - context in which names are resolved.

#### Returns:

the analyzed (and possibly rewritten) AST subtree.

codegen

Perform (short-circuit) code generation for a boolean expression, given the code emitter, a target label, and whether we branch to that label on true or on false.

### Parameters:

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

targetLabel - the label to which we should branch.

onTrue - do we branch on true?

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