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jminusminus

Class JBinaryExpression

- java.lang.Object
 - jminusminus.AST
 - jminusminus.JStatement
 - jminusminus.JExpression
 - jminusminus.JBinaryExpression
- Direct Known Subclasses:
 - JAssignment, JBooleanBinaryExpression, JMultiplyOp, JPlusOp, JStringConcatenationOp, JSubtractOp

```
abstract class JBinaryExpression
extends JExpression
```

The AST node for a binary expression. A binary expression has an operator and two operands: a lhs and a rhs.

- **Field Summary**

Fields	
Modifier and Type	Field and Description
protected JExpression	lhs The lhs operand.
protected String	operator The binary operator.
protected JExpression	rhs The rhs operand.

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

Constructors

Modifier

Constructor and Description

`JBinaryExpression`(`int` line, `String` operator, `protected JExpression` lhs, `JExpression` rhs)
Construct an AST node for a binary expression given its line number, the binary operator, and lhs and rhs operands.

- **Method Summary**

Methods

Modifier and Type

Method and Description

`void` **`writeToStdOut`**(`PrettyPrinter` p)
Write the information pertaining to this AST to STDOUT.

- **Methods inherited from class `jminusminus.JExpression`**
`analyze`, `codegen`, `isStatementExpression`, `type`
- **Methods inherited from class `jminusminus.JAST`**
`codegen`, `line`, `partialCodegen`
- **Methods inherited from class `java.lang.Object`**
`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

- **Field Detail**

- **`operator`**

`protectedString` operator

The binary operator.

- **`lhs`**

`protectedJExpression` lhs

The lhs operand.

- **`rhs`**

`protectedJExpression` rhs

The rhs operand.

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- **Constructor Detail**

- **JBinaryExpression**

```
protectedJBinaryExpression(intline,  
                             Stringoperator,  
                             JExpressionlhs,  
                             JExpressionrhs)
```

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

Parameters:

line - line in which the binary expression occurs in the source file.
operator - the binary operator.
lhs - the lhs operand.
rhs - the rhs operand.

- **Method Detail**

- **writeToStdOut**

```
publicvoidwriteToStdOut(PrettyPrinterp)
```

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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