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jminusminus

## Class JMultiplyOp

- [java.lang.Object](#)
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- [jminusminus.JBinaryExpression](#)
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```
class JMultiplyOp
extends JBinaryExpression
```

The AST node for a multiplication (\*) expression.

- **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

```
JMultiplyOp(int line, JExpression lhs, JExpression rhs)
```

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

- **Method Summary**

Methods	
Modifier and Type	Method and Description
<code>JExpression</code>	<b><code>analyze</code></b> ( <code>Context</code> context) Analyzing the * operation involves analyzing its operands, checking types, and determining the result type.
<code>void</code>	<b><code>codegen</code></b> ( <code>CLEmitter</code> output) Generating code for the * operation involves generating code for the two operands, and then the multiplication instruction.

- **Methods inherited from class `jminusminus.JBinaryExpression`**

`writeToStdOut`

- **Methods inherited from class `jminusminus.JExpression`**

`codegen`, `isStatementExpression`, `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**

- **`JMultiplyOp`**

```
publicJMultiplyOp(intline,
                  JExpressionlhs,
                  JExpressionrhs)
```

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

**Parameters:**

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

`lhs` - the lhs operand.

`rhs` - the rhs operand.

- **Method Detail**

- **`analyze`**

```
publicJExpressionanalyze(Contextcontext)
```

Analyzing the \* operation involves analyzing its operands, checking types, and determining the result type.

**Specified by:**

`analyze` in class `JExpression`

**Parameters:**

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context - context in which names are resolved.

**Returns:**

the analyzed (and possibly rewritten) AST subtree.

- **codegen**

```
public void codegen(CLEmitter output)
```

Generating code for the \* operation involves generating code for the two operands, and then the multiplication instruction.

**Specified by:**

`codegen` in class `JAST`

**Parameters:**

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

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- Detail:
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