

JavaScript is disabled on your browser.

- [Prev Class](#)
- [Next Class](#)

- [Frames](#)
- [No Frames](#)

- [All Classes](#)

- [Summary:](#)
- [Nested |](#)
- [Field |](#)
- [Constr |](#)
- [Method](#)

- [Detail:](#)
- [Field |](#)
- [Constr |](#)
- [Method](#)

jminusminus

Class JNegateOp

- [java.lang.Object](#)
- [jminusminus.AST](#)
- [jminusminus.JStatement](#)
- [jminusminus.JExpression](#)
- [jminusminus.JUnaryExpression](#)
- [jminusminus.JNegateOp](#)

.

Add WeChat powcoder

```
class JNegateOp
extends JUnaryExpression
```

The AST node for a unary negation (-) expression.

- **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

```
JNegateOp(int line, JExpression arg)
```

Construct an AST node for a negation expression given its line number, and the operand.

- **Method Summary**

Methods

**Modifier and
Type**

Method and Description

<code>JExpression</code>	<code>analyze</code> (<code>Context</code> context) Analyzing the negation operation involves analyzing its operand, checking its type and determining the result type.
<code>void</code>	<code>codegen</code> (<code>CLEmitter</code> output) Generating code for the negation operation involves generating code for the operand, and then the negation instruction.

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

`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**

- **`JNegateOp`**

`public JNegateOp(int line,
JExpression arg)`

Construct an AST node for a negation expression given its line number, and the operand.

Parameters:

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

- **Method Detail**

- **`analyze`**

`public JExpression analyze(Context context)`

Analyzing the negation operation involves analyzing its operand, checking its type and determining the result type.

Specified by:

`analyze` in class `JExpression`

Parameters:

`context` - context in which names are resolved.

Returns:

Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder

the analyzed (and possibly rewritten) AST subtree.

- **codegen**

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

Generating code for the negation operation involves generating code for the operand, and then the negation instruction.

Specified by:

`codegen` in class `JAST`

Parameters:

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

- **Prev Class**
- **Next Class**

- Frames
- No Frames

- All Classes

- Summary:
- Nested |
- Field |
- Constr |
- Method

- Detail:
- Field |
- Constr |
- Method

Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder