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jminusminus

Class JLessEqualOp

- [java.lang.Object](#)
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.

```
class JLessEqualOp  
extends JComparison
```

The AST node for a less-than-or-equal-to (`<=`) expression. Implements short-circuiting branching.

- **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

JLessEqualOp(int line, JExpression lhs, JExpression rhs)
Construct an AST node for a less-than-or-equal-to expression given its line number, and the lhs and rhs operands.

- **Method Summary**

Methods

**Modifier and
Type**

Method and Description

void

codegen(CLEmitter output, String targetLabel, boolean onTrue)
Branching code generation for <= operation.

- **Methods inherited from class jminusminus.JComparison**

analyze

- **Methods inherited from
class jminusminus.JBooleanBinaryExpression**

codegen

Methods inherited from class jminusminus.JBinaryExpression

writeToStdOut

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

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**

- **JLessEqualOp**

```
public JLessEqualOp(int line,  
                    JExpression lhs,  
                    JExpression rhs)
```

Construct an AST node for a less-than-or-equal-to expression given its line number, and the lhs and rhs operands.

Parameters:

line - line in which the less-than-or-equal-to expression occurs in the source file.

lhs - lhs operand.

rhs - rhs operand.

- **Method Detail**

- **codegen**

```
public void codegen(CLEmitter output,  
                  String targetLabel,  
                  boolean onTrue)
```

Branching code generation for <= operation.

Overrides:

codegen in class JExpression

Parameters:

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

targetLabel - target for generated branch instruction.

onTrue - should we branch on true?

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- Detail:
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