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

- Frames
- No Frames

- All Classes

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

- Detail:
- Field |
- Constr |
- Method

jminusminus

Class JGreaterThanOp

- java.lang.Object

  - jminusminus.JAST
    - jminusminus.JStatement
      - jminusminus.JExpression
        - jminusminus.JBinaryExpression
          - jminusminus.JBooleanBinaryExpression
            - jminusminus.JComparison
              - jminusminus.JGreaterThanOp

```
class JGreaterThanOp
extends JComparison
```

The AST node for a greater-than (>) 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

JGreaterThanOp(int line, JExpression lhs, JExpression rhs)
Construct an AST node for a greater-than 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**

  - **JGreaterThanOp**

  ```
  publicJGreaterThanOp(intline,
              JExpressionlhs,
              JExpressionrhs)
  ```

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

  Parameters:
  - line - line in which the greater-than expression occurs in the source file.
  - lhs - lhs operand.
  - rhs - rhs operand.

- **Method Detail**

  - **codegen**

```
publicvoidcodegen(CLEmitteroutput,
        StringtargetLabel,
        booleanonTrue)
```

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?