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- **Prev Class**
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- Frames
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- All Classes

- Summary:
- Nested |
- Field |
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- Method

- Detail:
- Field |
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- Method

jminusminus

Class JBooleanBinaryExpression

- java.lang.Object
  - jminusminus.JAST
    - jminusminus.JStatement
      - jminusminus.JExpression
        - jminusminus.JBinaryExpression
          - jminusminus.JBooleanBinaryExpression

- Direct Known Subclasses:
  JComparison, JEqualityOperation, JLogicalAndOp

```
abstract class JBooleanBinaryExpression
extends JBinaryExpression
```

Most binary expressions that return booleans can be recognized by their syntax. We take advantage of this to define a common codegen(), which relies on the short-circuiting code generation for control and puts either a 1 or a 0 onto the stack.

- **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

Modifier	Constructor and Description
protected	**JBooleanBinaryExpression**(int line, String operator, JExpression lhs, JExpression rhs) Construct an AST node for a boolean binary expression.

- **Method Summary**

Methods

Modifier and Type	Method and Description
void	**codegen**(CLEmitter output) Generate code for the case where we actually want a boolean value (true or false) computed onto the stack, eg for assignment to a boolean variable.

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

  writeToStdOut

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

  analyze, codegen, isStatementExpression, type

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

  line, partialCodegen

- **Methods inherited from class java.lang.Object**

  clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

- **Constructor Detail**

  - **JBooleanBinaryExpression**

  protectedJBooleanBinaryExpression(intline,
                       Stringoperator,
                       JExpressionlhs,
                       JExpressionrhs)

  Construct an AST node for a boolean binary expression.
  Parameters:
  　　line - line in which the boolean binary expression occurs in the source file.
  　　operator - the boolean binary operator.
  　　lhs - lhs operand.
  　　rhs - rhs operand.

- **Method Detail**

  - **codegen**

  publicvoidcodegen(CLEmitteroutput)

  Generate code for the case where we actually want a boolean value (true or false) computed onto the stack, eg for assignment to a boolean variable.
  Specified by:

codegen in class JAST

Parameters:

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