jminusminus

Class JLiteralTrue

- java.lang.Object
  - jminusminus.JAST
    - jminusminus.JStatement
      - jminusminus.JExpression
        - jminusminus.JLiteralTrue

.


```
class JLiteralTrue
extends JExpression
```

The AST node for the boolean "true" literal.

- **Field Summary**
- **Fields inherited from class jminusminus.JExpression**
  `isStatementExpression, type`
- **Fields inherited from class jminusminus.JAST**
  `compilationUnit, line`
- **Constructor Summary**

Constructors

Constructor and Description

`JLiteralTrue(int line)`
Construct an AST node for a "true" literal given its line number.

- **Method Summary**

Methods

Modifier and Type	Method and Description
JExpression	**analyze**(Context context) Analyzing a boolean literal is trivial.
void	**codegen**(CLEmitter output) Generating code for a boolean literal means generating code to push it onto the stack.
void	**codegen**(CLEmitter output, String targetLabel, boolean onTrue) Generating branch code for a boolean literal is trivial; it's either empty or an unconditional branch.
void	**writeToStdOut**(PrettyPrinter p) Write the information pertaining to this AST to STDOUT.

- **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**

  - **JLiteralTrue**

```
publicJLiteralTrue(intline)
```

Construct an AST node for a "true" literal given its line number.

Parameters:

`line` - line in which the literal occurs in the source file.

- **Method Detail**

  - **analyze**

```
publicJExpressionanalyze(Contextcontext)
```

Analyzing a boolean literal is trivial.

Specified by:

`analyze` in class `JExpression`

Parameters:

`context` - context in which names are resolved (ignored here).

Returns:

the analyzed (and possibly rewritten) AST subtree.

  - **codegen**

```
publicvoidcodegen(CLEmitteroutput)
```

Generating code for a boolean literal means generating code to push it onto the stack.

Specified by:

`codegen` in class `JAST`

Parameters:

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

- **codegen**

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

Generating branch code for a boolean literal is trivial; it's either empty or an unconditional branch.

Overrides:

`codegen` in class `JExpression`

Parameters:

`output` - the code emitter (basically an abstraction for producing the .class file).
`targetLabel` - the label to which we should branch.
`onTrue` - do we branch on true?

- **writeToStdOut**

```
publicvoidwriteToStdOut(PrettyPrintWriterp)
```

Description copied from class: `JAST`

Write the information pertaining to this AST to STDOUT.

Specified by:

`writeToStdOut` in class `JAST`

Parameters:

`p` - for pretty printing with indentation.