jminusminus

Class JLiteralString

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

.


```
class JLiteralString
extends JExpression
```

The AST node for a string 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

`JLiteralString``(int line, String text)`
Construct an AST node for a string literal given its line number and string representation.

- **Method Summary**

Methods

Modifier and Type	Method and Description
JExpression	**analyze**(Context context) Analyzing a String literal is trivial.
void	**codegen**(CLEmitter output) Generating code for a string literal means generating code to push it onto the stack.
void	**writeToStdOut**(PrettyPrinter p) Write the information pertaining to this AST to STDOUT.

- **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**

  - **JLiteralString**

```
publicJLiteralString(intline,
                     Stringtext)
```


  Construct an AST node for a string literal given its line number and string representation.

  Parameters:

  `line` - line in which the literal occurs in the source file.
  `text` - representation of the literal.

- **Method Detail**

  - **analyze**

```
publicJExpressionanalyze(Contextcontext)
```

  Analyzing a String 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 string 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).

- **writeToStdOut**

```
publicvoidwriteToStdOut(PrettyPrinterp)
```

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.