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jminusminus

Class JNewArrayOp

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```
class JNewArrayOp
extends JExpression
```

The AST node for a "new" array operation. It keeps track of its base type and a list of its dimensions.

- **Field Summary**
- **Fields inherited from class jminusminus.JExpression**
[isStatementExpression](#), [type](#)
- **Fields inherited from class jminusminus.JAST**
[compilationUnit](#), [line](#)
- **Constructor Summary**

Constructors

Constructor and Description

```
JNewArrayOp(int line, Type typeSpec,
ArrayList<JExpression> dimExprs)
Construct an AST node for a "new" array operation.
```

- **Method Summary**

Methods	
Modifier and Type	Method and Description
<code>JExpression</code>	<code>analyze</code> (<code>Context</code> context) Analysis of a new array operation involves resolving its type and analyzing the array bounds and checking their types.
<code>void</code>	<code>codegen</code> (<code>CLEmitter</code> output) Generate code to push the bounds on the stack and then generate the appropriate array creation instruction.
<code>void</code>	<code>writeToStdOut</code> (<code>PrettyPrinter</code> 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**

- **`JNewArrayOp`**

```
public JNewArrayOp(int line,
    TypeSpec,
    ArrayList<JExpression> dimExprs)
```

Construct an AST node for a "new" array operation.

Parameters:

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

`typeSpec` - the type of the array being created.

`dimExprs` - a list of dimension expressions.

- **Method Detail**

- **`analyze`**

```
public JExpression analyze(Context context)
```

Analysis of a new array operation involves resolving its type and analyzing the array bounds and checking their types.

Specified by:

`analyze` in class `JExpression`

Parameters:

`context` - context in which names are resolved.

Returns:

the analyzed (and possibly rewritten) AST subtree.

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- **codegen**

```
public void codegen(CLEmitter output)
```

Generate code to push the bounds on the stack and then generate the appropriate array creation instruction.

Specified by:

`codegen` in class `JAST`

Parameters:

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

- **writeToStdOut**

```
public void writeToStdOut(PrettyPrinter p)
```

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.

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