JStatementExpression.java

```
// Copyright 2013 Bill Campbell, Swami Iyer and Bahar Akbal-Delibas
1
2
3
    package jminusminus;
4
5
     ^{\ast} The AST node for an expression that appears as a statement. Only the
6
     ^{\star} expressions that have a side-effect are valid statement expressions.
7
8
9
10
    class JStatementExpression extends JStatement {
11
12
         /** The expression. */
13
        <u>JExpression</u> expr;
14
15
         * Construct an AST node for a statement expression given its line number,
16
         * and expression.
17
18
          * @param line
19
20
                        line in which the expression occurs in the source file.
          * @param expr
21
22
                        the expression.
          */
23
24
25
        public JStatementExpression(int line, <u>JExpression</u> expr) {
26
             super(line);
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27
28
29
          * Analysis involves analyzing the entapsulated expression if indeed it is a * statement learness ion, DO.W.G.O.G.C.I sciO.ff \  \  \,
31
          * @param context
          * context in which names are resolved.

* @return Aed alyw ed respit pewer Aed respit pewer Aed respit pewer are resolved.

*/
37
39
        public JStatement analyze(Context context) {
40
             if (expr.isStatementExpression) {
41
                  expr = expr.analyze(context);
42
43
             return this;
         }
44
45
46
          * Generating code for the statement expression involves simply generating
47
          * code for the encapsulated expression.
48
49
          * @param output
                        the code emitter (basically an abstraction for producing the
51
                         .class file).
          */
54
        public void codegen(CLEmitter output) {
             expr.codegen(output);
          * @inheritDoc
61
62
         public void writeToStdOut(PrettyPrinter p) {
63
             p.printf("<JStatementExpression line=\"%d\">\n", line());
64
65
             p.indentRight();
66
             expr.writeToStdOut(p);
```

```
p.indentLeft();
p.printf("</JStatementExpression>\n");

p.printf("</JStatementExpression>\n");

p.printf("</JStatementExpression>\n");

p.printf("</JStatementExpression>\n");

p.printf("</JStatementExpression>\n");
```

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