## JLhs.java

```
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1
2
3
    package jminusminus;
4
5
     * The type of any expression that can appear on the lhs of an assignment
6
     * statement, i.e., JVariable, JFieldSelection, JArrayExpression.
7
8
9
10
   interface JLhs {
11
12
         * Analyze the lhs of an assignment. This is very much like analyze() but
13
14
           perhaps a little more selective here and there.
15
         * @param context
16
17
                      context in which names are resolved.
         * @return the analyzed (and possibly rewritten) AST subtree.
18
19
20
        public JExpression analyzeLhs(Context context);
21
22
23
         * The up front code necessary for implementing an assignment; it generates
24
         * code to load onto the stack any part of the lhs variable that must be
26
          there. For example, in a[i] = x, code must be generated to load the array
27
                         ment Project Exam Help
28
29
           @param output
                      the code emitter (basically an abstraction for producing the
                   https://powcoder.com
31
        public void codegenLoadLhsLvalue(CLEmitter output);
34
         ** Add WeChat powcoder
* Generate the code required for tolding an Rvalue for this variable, as in
37
         * a +=.
39
         * @param output
40
                      the code emitter (basically an abstraction for producing the
41
42
                       .class file).
         */
43
44
        public void codegenLoadLhsRvalue(CLEmitter output);
45
46
        /**
47
         * Generate the code required for duplicating the Rvalue that is on the
48
         * stack becuase it is to be used in a surrounding expression, as in a[i] =
49
         * x = \langle expr \rangle or x = y - -.
50
51
         * @param output
52
                      the code emitter (basically an abstraction for producing the
54
                       .class file).
         */
57
        public void codegenDuplicateRvalue(CLEmitter output);
58
59
         * Generate the code required for doing the actual assignment.
61
62
           @param output
63
                      the code emitter (basically an abstraction for producing the
64
                       .class file).
65
         */
66
```

```
67     public void codegenStore(CLEmitter output);
68
69 }
```

## Assignment Project Exam Help https://powcoder.com Add WeChat powcoder