JLiteralChar.java

```
// Copyright 2013 Bill Campbell, Swami Iyer and Bahar Akbal-Delibas
1
2
3
   package jminusminus;
4
5
   import static jminusminus.CLConstants.*;
6
7
    * The AST node for a char literal.
8
9
10
11
   class JLiteralChar extends JExpression {
12
13
        /** String representation of the char. */
14
       private String text;
15
        /**
16
        * Construct an AST node for a char literal given its line number and text
17
         * representation.
18
19
20
        * @param line
                      line in which the literal occurs in the source file.
21
         * @param text
22
                      string representation of the literal.
23
         */
24
25
        public JLiteralChar(int line, String text) {
26
           ssignment Project Exam Help
27
28
        }
29
31
         * Analyzinhttps://powcoder.com
          @param context
                      context in which names are resolved (ignored here).
         * @return Aeddly W ed hat powe of the properties.
37
39
        public JExpression analyze(Context context) {
40
            type = Type.CHAR;
            return this;
41
42
        }
43
44
         * Generating code for a char literal means generating code to push it onto
45
         * the stack.
46
47
         * @param output
48
                      the code emitter (basically an abstraction for producing the
49
50
                      .class file).
         */
51
52
        public void codegen(CLEmitter output) {
54
            // Unescape the escaped escapes
            String s = Util.unescape(text);
            // The string representation is padded (by hand-written
            // and JavaCC scanner) with single quotes, so we extract
            // the char at 1
           char c = s.charAt(1);
           int i = (int) c;
61
           switch (i) {
62
63
            case 0:
                output.addNoArgInstruction(ICONST_0);
64
65
                break;
66
            case 1:
```

```
67
               output.addNoArgInstruction(ICONST_1);
68
               break;
69
           case 2:
               output.addNoArgInstruction(ICONST_2);
71
               break;
           case 3:
72
73
               output.addNoArgInstruction(ICONST_3);
74
               break;
75
           case 4:
76
               output.addNoArgInstruction(ICONST_4);
77
               break;
78
           case 5:
79
               output.addNoArgInstruction(ICONST_5);
               break;
           default:
81
               if (i >= 6 && i <= 127) {
                  output.addOneArgInstruction(BIPUSH, i);
84
               } else if (i >= 128 && i <= 32767) {
                  output.addOneArgInstruction(SIPUSH, i);
                  output.addLDCInstruction(i);
               }
           }
       }
        * @inheritDoc
94
                             pubAcsigneyn remeth
97
                  line(), ((type == null) ? "" : type.toString()), Util
                          .escapeSpecialXMLChars(text));
100
       }
                 https://powcoder.com
101
102 }
103
```

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