1. 001 /* This is a comment. */
2. 002 // So is this.
3. 003
4. 004 /* Here's a comment
5. 005   that spans several
6. 006   source lines. */
7. 007
8. 008 Two/*comments in*//***a row***/ here.
9. >>> IDENTIFIER   line=008, pos= 0, tex
   t="Two"
10. >>> IDENTIFIER   line=008, pos=32, tex
   t="here"
11. >>> DOT   line=008, pos=36, tex
   t="."
12. 009 /* This is /* not a nested comment.
    */
13. 010 // Nor is /* this */ one.
14. 011
15. 012 { Not a comment. }
16. >>> LEFT_BRACE   line=012, pos= 0, tex
   t="{"
17. >>> IDENTIFIER   line=012, pos= 2, tex
   t="Not"
18. >>> IDENTIFIER   line=012, pos= 6, tex
   t="a"
19. >>> IDENTIFIER   line=012, pos= 8, tex
   t="comment"
20. >>> DOT   line=012, pos=15, tex
   t="."
21. >>> RIGHT_BRACE   line=012, pos=17, tex
   t="}"
22. 013
23. 014 // Word tokens
24. 015 Hello world
25. >>> IDENTIFIER   line=015, pos= 0, tex
   t="Hello"
26. >>> IDENTIFIER   line=015, pos= 6, tex
   t="world"
27. 016 Abstract abstract ABSTRACT aBsTrAcT
28. >>> IDENTIFIER   line=016, pos= 0, tex
   t="Abstract"
29. >>> ABSTRACT   line=016, pos= 9, tex
   t="abstract"
30. >>> IDENTIFIER   line=016, pos=18, tex
   t="ABSTRACT"
31. >>> IDENTIFIER   line=016, pos=27, tex
   t="aBsTrAcT"

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   t="ABSTRACT"
31. >>> IDENTIFIER   line=016, pos=27, tex
   t="aBsTrAcT"

Left column:

```
32.  017 What?
33.  >>> IDENTIFIER       line=017, pos= 0, tex
     t="What"
34.  >>> QUESTION_MARK    line=017, pos= 4, tex
     t="?"
35.  018
36.  019 // Character tokens
37.  020 'x' 'A' '\'' 'a' '\n' '\t' '\\'
38.  >>> CHAR             line=020, pos= 0, tex
     t="'x'"
39.  >>>                  value='x'
40.  >>> CHAR             line=020, pos= 4, tex
     t="'A'"
41.  >>>                  value='A'
42.  >>> CHAR             line=020, pos= 8, tex
     t="'\''"
43.  >>>                  value='''
44.  >>> CHAR             line=020, pos=13, tex
     t="'a'"
45.  >>>                  value='a'
46.  >>> CHAR             line=020, pos=17, tex
     t="'\n'"
47.  >>>                  value='
48.  '
49.  >>> CHAR             line=020, pos=22, tex
     t="'\t'"
50.  >>>                  value='      '
51.  >>> CHAR             line=020, pos=27, tex
     t="'\\'"
52.  >>>                  value='\'
53.  021
54.  022 // String tokens
55.  023 "Hello, world."
56.  >>> INTEGER          line=023, pos= 0, tex
     t="Hello, world."
57.  >>>                  value=Hello, world.
58.  024 "Hello,\tworld!"
59.  >>> INTEGER          line=024, pos= 0, tex
     t="Hello,\tworld!"
60.  >>>                  value=Hello,   world!
61.  025 "Hello,\n\"world!\""
62.  >>> INTEGER          line=025, pos= 0, tex
     t="Hello,\n\"world!\""
63.  >>>                  value=Hello,
64.  "world!"
65.  026 "It's Friday!"
66.  >>> INTEGER          line=026, pos= 0, tex
     t="It's Friday!"
67.  >>>                  value=It's Friday!
68.  027 ""  "\""
69.  >>> INTEGER          line=027, pos= 0, tex
     t=""
70.
```

Right column:

```
32.  017 What?
33.  >>> IDENTIFIER       line=017, pos= 0, tex
     t="What"
34.  >>> QUESTION_MARK    line=017, pos= 4, tex
     t="?"
35.  018
36.  019 // Character tokens
37.  020 'x' 'A' '\'' 'a' '\n' '\t' '\\'
38.  >>> CHAR             line=020, pos= 0, tex
     t="'x'"
39.  >>>                  value='x'
40.  >>> CHAR             line=020, pos= 4, tex
     t="'A'"
41.  >>>                  value='A'
42.  >>> CHAR             line=020, pos= 8, tex
     t="'\''"
43.  >>>                  value='''
44.  >>> CHAR             line=020, pos=13, tex
     t="'a'"
45.  >>>                  value='a'
46.  >>> CHAR             line=020, pos=17, tex
     t="'\n'"
47.  >>>                  value='
48.  '
49.  >>> CHAR             line=020, pos=22, tex
     t="'\t'"
50.  >>>                  value='      '
51.  >>> CHAR             line=020, pos=27, tex
     t="'\\'"
52.  >>>                  value='\'
53.  021
54.  022 // String tokens
55.  023 "Hello, world."
56.  >>> STRING           line=023, pos= 0, tex
     t=""Hello, world.""
57.  >>>                  value="Hello, world."
58.  024 "Hello,\tworld!"
59.  >>> STRING           line=024, pos= 0, tex
     t=""Hello,\tworld!""
60.  >>>                  value="Hello,      w
     orld!"
61.  025 "Hello,\n\"world!\""
62.  >>> STRING           line=025, pos= 0, tex
     t=""Hello,\n\"world!\"""
63.  >>>                  value="Hello,
64.  "world!""
65.  026 "It's Friday!"
66.  >>> STRING           line=026, pos= 0, tex
     t=""It's Friday!""
67.  >>>                  value="It's Friday!"
68.  027 ""  "\""
69.  >>> STRING           line=027, pos= 0, tex
     t="""""
70.
```

```
        >>>                   value=                        >>>                   value=""
71.     >>> INTEGER           line=027, pos= 4, tex   71.  >>> STRING            line=027, pos= 4, tex
        t="\""                                             t=""\"""
72.     >>>                   value="                 72.  >>>                   value="""
73.     028                                           73.  028
74.     029 // Special symbol tokens                  74.  029 // Special symbol tokens
75.     030 + - * / := . , ; : = <> < <= >= > ( )     75.  030 + - * / := . , ; : = <> < <= >= > ( )
            [ ] { } } ^ ..                                     [ ] { } } ^ ..
76.     >>> PLUS              line=030, pos= 0, tex   76.  >>> PLUS              line=030, pos= 0, tex
        t="+"                                              t="+"
77.     >>> MINUS             line=030, pos= 2, tex   77.  >>> MINUS             line=030, pos= 2, tex
        t="-"                                              t="-"
78.     >>> MULT              line=030, pos= 4, tex   78.  >>> MULT              line=030, pos= 4, tex
        t="*"                                              t="*"
79.     >>> SLASH             line=030, pos= 6, tex   79.  >>> SLASH             line=030, pos= 6, tex
        t="/"                                              t="/"
80.     >>> COLON             line=030, pos= 8, tex   80.  >>> COLON             line=030, pos= 8, tex
        t=":"                                              t=":"
81.     >>> EQUALS            line=030, pos= 9, tex   81.  >>> EQUALS            line=030, pos= 9, tex
        t="="                                              t="="
82.     >>> DOT               line=030, pos=11, tex   82.  >>> DOT               line=030, pos=11, tex
        t="."                                              t="."
83.     >>> COMMA             line=030, pos=13, tex   83.  >>> COMMA             line=030, pos=13, tex
        t=","                                              t=","
84.     >>> SEMICOLON         line=030, pos=15, tex   84.  >>> SEMICOLON         line=030, pos=15, tex
        t=";"                                              t=";"
85.     >>> COLON             line=030, pos=17, tex   85.  >>> COLON             line=030, pos=17, tex
        t=":"                                              t=":"
86.     >>> EQUALS            line=030, pos=19, tex   86.  >>> EQUALS            line=030, pos=19, tex
        t="="                                              t="="
87.     >>> LESS_THAN         line=030, pos=21, tex   87.  >>> LESS_THAN         line=030, pos=21, tex
        t="<"                                              t="<"
88.     >>> GREATER_THAN      line=030, pos=22, tex   88.  >>> GREATER_THAN      line=030, pos=22, tex
        t=">"                                              t=">"
89.     >>> LESS_THAN         line=030, pos=24, tex   89.  >>> LESS_THAN         line=030, pos=24, tex
        t="<"                                              t="<"
90.     >>> LESS_EQUALS       line=030, pos=26, tex   90.  >>> LESS_EQUALS       line=030, pos=26, tex
        t="<="                                             t="<="
91.     >>> GREATER_EQUALS    line=030, pos=29, tex   91.  >>> GREATER_EQUALS    line=030, pos=29, tex
        t=">="                                             t=">="
92.     >>> GREATER_THAN      line=030, pos=32, tex   92.  >>> GREATER_THAN      line=030, pos=32, tex
        t=">"                                              t=">"
93.     >>> LEFT_PAREN        line=030, pos=34, tex   93.  >>> LEFT_PAREN        line=030, pos=34, tex
        t="("                                              t="("
94.     >>> RIGHT_PAREN       line=030, pos=36, tex   94.  >>> RIGHT_PAREN       line=030, pos=36, tex
        t=")"                                              t=")"
95.     >>> LEFT_BRACKET      line=030, pos=38, tex   95.  >>> LEFT_BRACKET      line=030, pos=38, tex
        t="["                                              t="["
96.     >>> RIGHT_BRACKET     line=030, pos=40, tex   96.  >>> RIGHT_BRACKET     line=030, pos=40, tex
        t="]"                                              t="]"
97.     >>> LEFT_BRACE        line=030, pos=42, tex   97.  >>> LEFT_BRACE        line=030, pos=42, tex
        t="{"                                              t="{"
98.     >>> RIGHT_BRACE       line=030, pos=44, tex   98.  >>> RIGHT_BRACE       line=030, pos=44, tex
        t="}"                                              t="}"
```

```
 99. >>> RIGHT_BRACE      line=030, pos=46, tex
     t="}"
100. >>> HAT              line=030, pos=48, tex
     t="^"
101. >>> DOT              line=030, pos=50, tex
     t="."
102. >>> DOT              line=030, pos=51, tex
     t="."
103. 031 <<=   >>=
104. >>> LEFTSHIFT_AND_ASSIGN line=031, pos=
     0, text="<<="
105. >>> RIGHTSHIFT_AND_ASSIGN line=031, pos=
     5, text=">>="
106. 032 :=<>=<==>>===
107. >>> COLON            line=032, pos= 0, tex
     t=":"
108. >>> EQUALS           line=032, pos= 1, tex
     t="="
109. >>> LESS_THAN        line=032, pos= 2, tex
     t="<"
110. >>> GREATER_EQUALS   line=032, pos= 3, tex
     t=">="
111. >>> LESS_EQUALS      line=032, pos= 5, tex
     t="<="
112. >>> EQUALS           line=032, pos= 7, tex
     t="="
113. >>> RIGHTSHIFT_AND_ASSIGN line=032, pos=
     8, text=">>="
114. >>> EQUAL            line=032, pos=11, tex
     t="=="
115.                 32 source lines.
116.                  0 syntax errors.
117.               0.00 seconds total parsin
     g time.
118.                  0 instructions generat
     ed.
119.               0.00 seconds total code g
     eneration time.
120. Add Comment
```

```
 99. >>> RIGHT_BRACE      line=030, pos=46, tex
     t="}"
100. >>> HAT              line=030, pos=48, tex
     t="^"
101. >>> DOT              line=030, pos=50, tex
     t="."
102. >>> DOT              line=030, pos=51, tex
     t="."
103. 031 <<=   >>=
104. >>> LSHIFT_EQUALS     line=031, pos= 0, tex
     t="<<="
105. >>> RSHIFT_EQUALS     line=031, pos= 5, tex
     t=">>="
106. 032 :=<>=<==>>===
107. >>> COLON            line=032, pos= 0, tex
     t=":"
108. >>> EQUALS           line=032, pos= 1, tex
     t="="
109. >>> LESS_THAN        line=032, pos= 2, tex
     t="<"
110. >>> GREATER_EQUALS   line=032, pos= 3, tex
     t=">="
111. >>> LESS_EQUALS      line=032, pos= 5, tex
     t="<="
112. >>> EQUALS           line=032, pos= 7, tex
     t="="
113. >>> RSHIFT_EQUALS     line=032, pos= 8, tex
     t=">>="
114. >>> EQUAL_EQUALS     line=032, pos=11, tex
     t="=="
```

ORIGINAL TEXT   CHANGED TEXT

```
 94 >>> RIGHT_PAREN       line=030,
    pos=36, text=")"

 95 >>> LEFT_BRACKET      line=030,
    pos=38, text="["
 96 >>> RIGHT_BRACKET     line=030,
    pos=40, text="]"
 97 >>> LEFT_BRACE        line=030,
    pos=42, text="{"
 98 >>> RIGHT_BRACE       line=030,
    pos=44, text="}"
 99 >>> RIGHT_BRACE       line=030,
    pos=46, text="}"
100 >>> HAT               line=030,
    pos=48, text="^"
```

```
 1 001 /* This is a comment. */
 2 002 // So is this.
 3 003
 4 004 /* Here's a comment
 5 005    that spans several
 6 006    source lines. */
 7 007
 8 008 Two/*comments in*//***a
   row***/ here.
 9 >>> IDENTIFIER        line=008, pos=
   0, text="Two"
10 >>> IDENTIFIER        line=008,
   pos=32, text="here"
11 >>> DOT               line=008,
   pos=36, text="."
```

```
101 >>> DOT                line=030,        12 009 /* This is /* not a nested
    pos=50, text="."                            comment. */
102 >>> DOT                line=030,        13 010 // Nor is /* this */ one.
    pos=51, text="."                        14 011
103 031 <<=  >>=                            15 012 { Not a comment. }
104 >>> LEFTSHIFT AND ASSIGN line=031,      16 >>> LEFT BRACE       line=012, pos=
```

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