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```
1.001 /* This is a comment. */
                                                 1.001 /* This is a comment. */
 2.002 // So is this.
                                                 2.002 // So is this.
 3.003
                                                 3.003
 4.004 /* Here's a comment
                                                 4.004 /* Here's a comment
          that spans several
 5.005
                                                 5.005
                                                           that spans several
 6.006
          source lines. */
                                                 6.006
                                                           source lines. */
                                                 7.007
 7.007
 8.008 Two/*comments in*//***a row***/ here.
                                                 8.008 Two/*comments in*//***a row***/ here.
 9.>>> IDENTIFIER
                                                                        line=008, pos= 0, tex
                        line=008, pos= 0, tex
                                                 9.>>> IDENTIFIER
   t="Two"
                                                    t="Two"
                        line=008, pos=32, tex
10. >>> IDENTIFIER
                                                10. >>> IDENTIFIER
                                                                        line=008, pos=32, tex
                                                    t="here"
   t="here"
11. >>> DOT
                        line=008, pos=36, tex
                                                11. >>> DOT
                                                                        line=008, pos=36, tex
   t="."
                                                    t="."
12.009 /* This is /* not a nested comment.
                                                12.009 /* This is /* not a nested comment.
                                                     */
13.010 // Nor is /* this */ one.
                                                13.010 // Nor is /* this */ one.
14.011
                                                14.011
15.012 { Not a comment. }
                                                15. 012 { Not a comment. }
                        line=012, pos= 0, tex
                                                16. >>> LEFT_BRACE
                                                                        line=012, pos= 0, tex
16. >>> LEFT_BRACE
   t="{"
                                                    t="{"
                        line=012, pos= 2, tex
                                                                        line=012, pos= 2, tex
17. >>> IDENTIFIER
                                                17. >>> IDENTIFIER
   t="Not"
                                                    t="Not"
                        line=012, pos= 6, tex
                                                18. >>> IDENTIFIER
                                                                        line=012, pos= 6, tex
18. >>> IDENTIFIER
   t="a"
                                                    t="a"
                        line=012, pos= 8, tex
                                                                        line=012, pos= 8, tex
19. >>> IDENTIFIER
                                                19. >>> IDENTIFIER
   t="comment"
                                                    t="comment"
20. >>> DOT
                        line=012, pos=15, tex
                                                20. >>> DOT
                                                                        line=012, pos=15, tex
   t="."
                                                    t="."
                        line=012, pos=17, tex
                                                                        line=012, pos=17, tex
21. >>> RIGHT BRACE
                                                21. >>> RIGHT_BRACE
   t="}"
                                                    t="}"
22.013
                                                22.013
23. 014 // Word tokens
                                                23. 014 // Word tokens
24.015 Hello world
                                                24.015 Hello world
25. >>> IDENTIFIER
                                                25. >>> IDENTIFIER
                        line=015, pos= 0, tex
                                                                        line=015, pos= 0, tex
   t="Hello"
                                                    t="Hello"
                                                                        line=015, pos= 6, tex
26. >>> IDENTIFIER
                                                26. >>> IDENTIFIER
                        line=015, pos= 6, tex
   t="world"
                                                    t="world"
27.016 Abstract abstract ABSTRACT aBsTrAcT
                                                27.016 Abstract abstract ABSTRACT aBsTrAcT
28. >>> IDENTIFIER
                                                                        line=016, pos= 0, tex
                        line=016, pos= 0, tex
                                                28. >>> IDENTIFIER
   t="Abstract"
                                                    t="Abstract"
29. >>> ABSTRACT
                        line=016, pos= 9, tex
                                                29. >>> ABSTRACT
                                                                        line=016, pos= 9, tex
   t="abstract"
                                                    t="abstract"
30. >>> IDENTIFIER
                        line=016, pos=18, tex
                                                30. >>> IDENTIFIER
                                                                        line=016, pos=18, tex
   t="ABSTRACT"
                                                    t="ABSTRACT"
31.>>> IDENTIFIER
                        line=016, pos=27, tex
                                                31. >>> IDENTIFIER
                                                                        line=016, pos=27, tex
                                                    t="aBsTrAcT"
   t="aBsTrAcT"
```

```
32. 017 What?
                                                 32.017 What?
33.>>> IDENTIFIER
                        line=017, pos= 0, tex
                                                 33.>>> IDENTIFIER
                                                                         line=017, pos= 0, tex
   t="What"
                                                     t="What"
                        line=017, pos= 4, tex
                                                 34.>>> QUESTION MARK
                                                                         line=017, pos= 4, tex
34. >>> QUESTION MARK
   t="?"
                                                     t="?"
35.018
                                                 35.018
36.019 // Character tokens
                                                 36.019 // Character tokens
37.020 'x' 'A' '\'' 'a' '\n' '\t' '\\'
                                                 37.020 'x' 'A' '\'' 'a' '\n' '\t' '\\'
38. >>> CHAR
                        line=020, pos= 0, tex
                                                 38. >>> CHAR
                                                                         line=020, pos= 0, tex
   t="'x'"
                                                    t="'x'"
                        value='x'
                                                                         value='x'
39.>>>
                                                 39. >>>
40. >>> CHAR
                        line=020, pos= 4, tex
                                                 40. >>> CHAR
                                                                          line=020, pos= 4, tex
   t="'A'"
                                                    t="'A'"
                        value='A'
                                                                         value='A'
41. >>>
                                                 41. >>>
42. >>> CHAR
                        line=020, pos= 8, tex
                                                 42. >>> CHAR
                                                                         line=020, pos= 8, tex
   t="'\'"
                                                     t="'\'"
                        value='''
                                                                         value='''
43. >>>
                                                 43. >>>
44. >>> CHAR
                        line=020, pos=13, tex
                                                 44. >>> CHAR
                                                                         line=020, pos=13, tex
   t="'a'"
                                                    t="'a'"
                        value='a'
                                                                         value='a'
45. >>>
                                                 45. >>>
                        line=020, pos=17, tex
                                                                          line=020, pos=17, tex
46. >>> CHAR
                                                 46. >>> CHAR
   t="'\n'"
                                                    t="'\n'"
                        value='
                                                                         value='
47. >>>
                                                 47. >>>
48. '
                                                 48. '
49. >>> CHAR
                        line=020, pos=22, tex
                                                 49. >>> CHAR
                                                                         line=020, pos=22, tex
   t="'\t'"
                                                     t="'\t'"
50. >>>
                        value='
                                                 50. >>>
                                                                          value='
51. >>> CHAR
                        line=020, pos=27, tex
                                                 51. >>> CHAR
                                                                          line=020, pos=27, tex
   t="'\\'"
                                                     t="'\\'"
52. >>>
                        value='\'
                                                 52.>>>
                                                                         value='\'
53. 021
                                                 53. 021
54.022 // String tokens
                                                 54.022 // String tokens
55.023 "Hello, world."
                                                 55.023 "Hello, world."
56. >>> INTEGER
                                                 56. >>> STRING
                        line=023, pos= 0, tex
                                                                          line=023, pos= 0, tex
                                                     t=""Hello, world.""
   t="Hello, world."
57. >>>
                        value=Hello, world.
                                                 57. >>>
                                                                          value="Hello, world."
58.024 "Hello,\tworld!"
                                                 58.024 "Hello,\tworld!"
59. >>> INTEGER
                                                 59. >>> STRING
                        line=024, pos= 0, tex
                                                                          line=024, pos= 0, tex
   t="Hello,\tworld!"
                                                     t=""Hello,\tworld!""
60. >>>
                        value=Hello,
                                        world!
                                                 60. >>>
                                                                          value="Hello,
                                                                                               W
                                                     orld!"
61.025 "Hello,\n\"world!\""
                                                 61.025 "Hello,\n\"world!\""
62. >>> INTEGER
                         line=025, pos= 0, tex
                                                 62. >>> STRING
                                                                          line=025, pos= 0, tex
                                                     t=""Hello,\n\"world!\"""
   t="Hello,\n\"world!\""
63. >>>
                         value=Hello,
                                                 63. >>>
                                                                          value="Hello,
                                                 64. "world!""
64. "world!"
65.026 "It's Friday!"
                                                 65.026 "It's Friday!"
                                                 66. >>> STRING
66. >>> INTEGER
                         line=026, pos= 0, tex
                                                                          line=026, pos= 0, tex
                                                     t=""It's Friday!""
   t="It's Friday!"
67. >>>
                        value=It's Friday!
                                                 67. >>>
                                                                          value="It's Friday!"
68. 027 "" "\""
                                                 68. 027 ""
                                                            "\""
69. >>> INTEGER
                         line=027, pos= 0, tex
                                                 69. >>> STRING
                                                                          line=027, pos= 0, tex
                                                     t=""""
   t=""
70.
                                                 70.
```

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```
value=""
   >>>
                         value=
                                                     >>>
71. >>> INTEGER
                         line=027, pos= 4, tex
                                                 71. >>> STRING
                                                                           line=027, pos= 4, tex
                                                     t=""\"""
   t="\""
                                                                          value="""
                         value="
                                                 72. >>>
72. >>>
73.028
                                                 73.028
74.029 // Special symbol tokens
                                                 74.029 // Special symbol tokens
75.030 + - * / := . , ; : = \langle \rangle < \langle = \rangle = \rangle ( )
                                                 75.030 + - * / := . , ; : = <> < <= >= > ( )
     []{}} ...
                                                      []{}} ...
76. >>> PLUS
                        line=030, pos= 0, tex
                                                 76. >>> PLUS
                                                                          line=030, pos= 0, tex
   t="+"
                                                     t="+"
                         line=030, pos= 2, tex
                                                                          line=030, pos= 2, tex
77. >>> MINUS
                                                 77. >>> MINUS
   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="="
                                                                          line=030, pos=11, tex
82. >>> DOT
                         line=030, pos=11, tex
                                                 82. >>> DOT
   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=";"
                                                                          line=030, pos=17, tex
                         line=030, pos=17, tex
                                                 85. >>> COLON
85. >>> COLON
   t=":"
                                                     t=":"
86. >>> EQUALS
                         line=030, pos=19, tex
                                                 86. >>> EQUALS
                                                                          line=030, pos=19, tex
   t="="
                                                     t="="
                                                                          line=030, pos=21, tex
87. >>> LESS THAN
                         line=030, pos=21, tex
                                                 87. >>> LESS THAN
   t="<"
                                                     t="<"
                        line=030, pos=22, tex
                                                 88.>>> GREATER_THAN
                                                                          line=030, pos=22, tex
88. >>> GREATER_THAN
   t=">"
                                                     t=">"
89. >>> LESS_THAN
                         line=030, pos=24, tex
                                                 89. >>> LESS_THAN
                                                                          line=030, pos=24, tex
   t="<"
                                                     t="<"
                                                                          line=030, pos=26, tex
90. >>> LESS_EQUALS
                         line=030, pos=26, tex
                                                 90. >>> LESS_EQUALS
   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="["
                                                                          line=030, pos=40, tex
96. >>> RIGHT BRACKET
                         line=030, pos=40, tex
                                                 96. >>> RIGHT BRACKET
   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="}"
```

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```
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 99.>>> RIGHT_BRACE
                         line=030, pos=46, tex
                                                  99. >>> RIGHT BRACE
                                                                          line=030, pos=46, tex
    t="}"
                                                     t="}"
100. >>> HAT
                         line=030, pos=48, tex 100.>>> HAT
                                                                          line=030, pos=48, tex
    t="^"
                                                     t="^"
101. >>> DOT
                         line=030, pos=50, tex 101. >>> DOT
                                                                          line=030, pos=50, tex
    t="."
                                                     t="."
                                                                          line=030, pos=51, tex
102. >>> DOT
                         line=030, pos=51, tex 102.>>> DOT
    t="."
                                                     t="."
103.031 <<= >>=
                                                103.031 <<= >>=
104. >>> LEFTSHIFT AND ASSIGN line=031, pos=
                                                104. >>> LSHIFT EQUALS
                                                                          line=031, pos= 0, tex
                                                      t="<<="
      0, text="<<="</pre>
105. >>> RIGHTSHIFT AND ASSIGN line=031, pos=
                                                105. >>> RSHIFT EQUALS
                                                                          line=031, pos= 5, tex
     5, text=">>="
                                                     t=">>="
                                                 106.032 :=<>===
106.032 :=<>=<=
107. >>> COLON
                         line=032, pos= 0, tex 107.>>> COLON
                                                                          line=032, pos= 0, tex
    t=":"
                                                     t=":"
                                                                          line=032, pos= 1, tex
108. >>> EQUALS
                         line=032, pos= 1, tex 108. >>> EQUALS
    t="="
                                                     t="="
                         line=032, pos= 2, tex 109. >>> LESS_THAN
                                                                          line=032, pos= 2, tex
109. >>> LESS THAN
    t="<"
                                                     t="<"
110. >>> GREATER EQUALS
                         line=032, pos= 3, tex 110.>>> GREATER_EQUALS
                                                                          line=032, pos= 3, tex
    t=">="
                                                     t=">="
                         line=032, pos= 5, tex 111.>>> LESS_EQUALS
                                                                          line=032, pos= 5, tex
111. >>> LESS_EQUALS
    t="<="
                                                     t="<="
                         line=032, pos= 7, tex 112.>>> EQUALS
112. >>> EQUALS
                                                                          line=032, pos= 7, tex
    t="="
                                                     t="="
113. >>> RIGHTSHIFT AND ASSIGN line=032, pos=
                                                                          line=032, pos= 8, tex
                                                113. >>> RSHIFT_EQUALS
     8, text=">>="
                                                      t=">>="
114. >>> EQUAL
                         line=032, pos=11, tex | 114. |>>> EQUAL_EQUALS
                                                                          line=032, pos=11, tex
    t="=="
                                                      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
```

## **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 \mid 001 \mid /* This is a comment. */
 2 002 // So is this.
 3 | 003
  004 /* Here's a comment
  005
          that spans several
 6 006
          source lines. */
  007
8 008 Two/*comments in*//***a
   row***/ here.
  >>> 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, pos=50, text="."

102 >>> DOT line=030, comment. */

103 031 <<= >>=

104 >>> LEFTSHIFT AND ASSIGN line=031.
```

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