

Universidade Federal de Alagoas  
Instituto de Computação  
*Ciência da Computação*

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Nova - Lexer

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# Sumário

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# 1 Outputs

## 1.1 Fibonacci

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```
1 [(Sequence: int, Token Category: 23, Position: 0)
2  , (Sequence: fibonacci, Token Category: 1, Position: 3)
3  , (Sequence: (, Token Category: 30, Position: 12)
4  , (Sequence: int, Token Category: 23, Position: 13)
5  , (Sequence: n, Token Category: 1, Position: 16)
6  , (Sequence: ), Token Category: 31, Position: 17)
7  , (Sequence: {, Token Category: 32, Position: 18)
8  , (Sequence: int, Token Category: 23, Position: 20)
9  , (Sequence: f1, Token Category: 1, Position: 23)
10 , (Sequence: =, Token Category: 5, Position: 25)
11 , (Sequence: 0, Token Category: 3, Position: 26)
12 , (Sequence: ;, Token Category: 29, Position: 27)
13 , (Sequence: int, Token Category: 23, Position: 29)
14 , (Sequence: f2, Token Category: 1, Position: 32)
15 , (Sequence: =, Token Category: 5, Position: 34)
16 , (Sequence: 1, Token Category: 3, Position: 35)
17 , (Sequence: ;, Token Category: 29, Position: 36)
18 , (Sequence: int, Token Category: 23, Position: 38)
19 , (Sequence: fi, Token Category: 1, Position: 41)
20 , (Sequence: =, Token Category: 5, Position: 43)
21 , (Sequence: 0, Token Category: 3, Position: 44)
22 , (Sequence: ;, Token Category: 29, Position: 45)
23 , (Sequence: int, Token Category: 23, Position: 48)
24 , (Sequence: Out, Token Category: 1, Position: 51)
25 , (Sequence: (, Token Category: 30, Position: 54)
26 , (Sequence: 0, Token Category: 3, Position: 55)
27 , (Sequence: ), Token Category: 31, Position: 56)
28 , (Sequence: ;, Token Category: 29, Position: 57)
29 , (Sequence: string, Token Category: 26, Position: 59)
30 , (Sequence: Out, Token Category: 1, Position: 65)
31 , (Sequence: (, Token Category: 30, Position: 68)
32 , (Sequence: ",", Token Category: 4, Position: 69)
33 , (Sequence: ), Token Category: 31, Position: 72)
34 , (Sequence: ;, Token Category: 29, Position: 73)
35 , (Sequence: int, Token Category: 23, Position: 75)
36 , (Sequence: Out, Token Category: 1, Position: 78)
37 , (Sequence: (, Token Category: 30, Position: 81)
```

38 , (Sequence: 1, Token Category: 3, Position: 82)  
 39 , (Sequence: ), Token Category: 31, Position: 83)  
 40 , (Sequence: ;, Token Category: 29, Position: 84)  
 41 , (Sequence: **if**, Token Category: 18, Position: 87)  
 42 , (Sequence: (, Token Category: 30, Position: 89)  
 43 , (Sequence: n, Token Category: 1, Position: 90)  
 44 , (Sequence: =, Token Category: 5, Position: 91)  
 45 , (Sequence: =, Token Category: 5, Position: 92)  
 46 , (Sequence: 0, Token Category: 3, Position: 93)  
 47 , (Sequence: **or**, Token Category: 16, Position: 94)  
 48 , (Sequence: n, Token Category: 1, Position: 96)  
 49 , (Sequence: =, Token Category: 5, Position: 97)  
 50 , (Sequence: =, Token Category: 5, Position: 98)  
 51 , (Sequence: 1, Token Category: 3, Position: 99)  
 52 , (Sequence: ), Token Category: 31, Position: 100)  
 53 , (Sequence: {, Token Category: 32, Position: 101)  
 54 , (Sequence: shoot, Token Category: 20, Position: 103)  
 55 , (Sequence: 1, Token Category: 3, Position: 108)  
 56 , (Sequence: ;, Token Category: 29, Position: 109)  
 57 , (Sequence: }, Token Category: 33, Position: 111)  
 58 , (Sequence: **while**, Token Category: 21, Position: 114)  
 59 , (Sequence: (, Token Category: 30, Position: 119)  
 60 , (Sequence: fi, Token Category: 1, Position: 120)  
 61 , (Sequence: <, Token Category: 6, Position: 122)  
 62 , (Sequence: n, Token Category: 1, Position: 123)  
 63 , (Sequence: ), Token Category: 31, Position: 124)  
 64 , (Sequence: {, Token Category: 32, Position: 125)  
 65 , (Sequence: fi, Token Category: 1, Position: 127)  
 66 , (Sequence: =, Token Category: 5, Position: 129)  
 67 , (Sequence: f1, Token Category: 1, Position: 130)  
 68 , (Sequence: +, Token Category: 12, Position: 132)  
 69 , (Sequence: f2, Token Category: 1, Position: 133)  
 70 , (Sequence: ;, Token Category: 29, Position: 135)  
 71 , (Sequence: f1, Token Category: 1, Position: 137)  
 72 , (Sequence: =, Token Category: 5, Position: 139)  
 73 , (Sequence: f2, Token Category: 1, Position: 140)  
 74 , (Sequence: ;, Token Category: 29, Position: 142)  
 75 , (Sequence: f2, Token Category: 1, Position: 144)  
 76 , (Sequence: =, Token Category: 5, Position: 146)  
 77 , (Sequence: fi, Token Category: 1, Position: 147)  
 78 , (Sequence: ;, Token Category: 29, Position: 149)

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79 , (Sequence: string , Token Category: 26, Position: 151)
80 , (Sequence: Out, Token Category: 1, Position: 157)
81 , (Sequence: (, Token Category: 30, Position: 160)
82 , (Sequence: ", Token Category: 4, Position: 161)
83 , (Sequence: ), Token Category: 31, Position: 164)
84 , (Sequence: ;, Token Category: 29, Position: 165)
85 , (Sequence: int, Token Category: 23, Position: 167)
86 , (Sequence: Out, Token Category: 1, Position: 170)
87 , (Sequence: (, Token Category: 30, Position: 173)
88 , (Sequence: fi, Token Category: 1, Position: 174)
89 , (Sequence: ), Token Category: 31, Position: 176)
90 , (Sequence: ;, Token Category: 29, Position: 177)
91 , (Sequence: }, Token Category: 33, Position: 179)
92 , (Sequence: shoot, Token Category: 20, Position: 182)
93 , (Sequence: fi, Token Category: 1, Position: 187)
94 , (Sequence: ;, Token Category: 29, Position: 189)
95 , (Sequence: }, Token Category: 33, Position: 191)
96 , (Sequence: voidmain, Token Category: 1, Position: 194)
97 , (Sequence: (, Token Category: 30, Position: 202)
98 , (Sequence: ), Token Category: 31, Position: 203)
99 , (Sequence: {, Token Category: 32, Position: 204)
100 , (Sequence: int, Token Category: 23, Position: 206)
101 , (Sequence: n, Token Category: 1, Position: 209)
102 , (Sequence: ;, Token Category: 29, Position: 210)
103 , (Sequence: int, Token Category: 23, Position: 212)
104 , (Sequence: In, Token Category: 1, Position: 215)
105 , (Sequence: (, Token Category: 30, Position: 217)
106 , (Sequence: n, Token Category: 1, Position: 218)
107 , (Sequence: ), Token Category: 31, Position: 219)
108 , (Sequence: ;, Token Category: 29, Position: 220)
109 , (Sequence: int, Token Category: 23, Position: 223)
110 , (Sequence: fib, Token Category: 1, Position: 226)
111 , (Sequence: =, Token Category: 5, Position: 229)
112 , (Sequence: fibonacci, Token Category: 1, Position: 230)
113 , (Sequence: (, Token Category: 30, Position: 239)
114 , (Sequence: n, Token Category: 1, Position: 240)
115 , (Sequence: ), Token Category: 31, Position: 241)
116 , (Sequence: ;, Token Category: 29, Position: 242)
117 , (Sequence: #dosomethingwithfib, Token Category: 38, Position: 244)
118 , (Sequence: }, Token Category: 33, Position: 264)
119 ]

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## 1.2 ShellSort

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1 [(Sequence: voidmain, Token Category: 1, Position: 0)
2  , (Sequence: (, Token Category: 30, Position: 8)
3  , (Sequence: ), Token Category: 31, Position: 9)
4  , (Sequence: {, Token Category: 32, Position: 10)
5  , (Sequence: int, Token Category: 23, Position: 12)
6  , (Sequence: size, Token Category: 1, Position: 15)
7  , (Sequence: ;, Token Category: 29, Position: 19)
8  , (Sequence: int, Token Category: 23, Position: 21)
9  , (Sequence: In, Token Category: 1, Position: 24)
10 , (Sequence: (, Token Category: 30, Position: 26)
11 , (Sequence: size, Token Category: 1, Position: 27)
12 , (Sequence: ), Token Category: 31, Position: 31)
13 , (Sequence: ;, Token Category: 29, Position: 32)
14 , (Sequence: int, Token Category: 23, Position: 35)
15 , (Sequence: vet, Token Category: 1, Position: 38)
16 , (Sequence: ::, Token Category: 39, Position: 41)
17 , (Sequence: size, Token Category: 1, Position: 43)
18 , (Sequence: ;, Token Category: 29, Position: 47)
19 , (Sequence: for, Token Category: 22, Position: 49)
20 , (Sequence: (, Token Category: 30, Position: 52)
21 , (Sequence: int, Token Category: 23, Position: 53)
22 , (Sequence: i, Token Category: 1, Position: 56)
23 , (Sequence: =, Token Category: 5, Position: 57)
24 , (Sequence: 0, Token Category: 3, Position: 58)
25 , (Sequence: ;, Token Category: 29, Position: 59)
26 , (Sequence: i, Token Category: 1, Position: 60)
27 , (Sequence: <, Token Category: 6, Position: 61)
28 , (Sequence: size, Token Category: 1, Position: 62)
29 , (Sequence: ;, Token Category: 29, Position: 66)
30 , (Sequence: i, Token Category: 1, Position: 67)
31 , (Sequence: =, Token Category: 5, Position: 68)
32 , (Sequence: i, Token Category: 1, Position: 69)
33 , (Sequence: +, Token Category: 12, Position: 70)
34 , (Sequence: 1, Token Category: 3, Position: 71)
35 , (Sequence: ), Token Category: 31, Position: 72)
36 , (Sequence: {, Token Category: 32, Position: 73)
```



37 , (Sequence: **int**, Token Category: 23, Position: 75)  
 38 , (Sequence: x, Token Category: 1, Position: 78)  
 39 , (Sequence: ;, Token Category: 29, Position: 79)  
 40 , (Sequence: **int**, Token Category: 23, Position: 81)  
 41 , (Sequence: In, Token Category: 1, Position: 84)  
 42 , (Sequence: (, Token Category: 30, Position: 86)  
 43 , (Sequence: x, Token Category: 1, Position: 87)  
 44 , (Sequence: ), Token Category: 31, Position: 88)  
 45 , (Sequence: ;, Token Category: 29, Position: 89)  
 46 , (Sequence: add, Token Category: 1, Position: 91)  
 47 , (Sequence: (, Token Category: 30, Position: 94)  
 48 , (Sequence: vet, Token Category: 1, Position: 95)  
 49 , (Sequence: ,, Token Category: 29, Position: 98)  
 50 , (Sequence: x, Token Category: 1, Position: 99)  
 51 , (Sequence: ), Token Category: 31, Position: 100)  
 52 , (Sequence: ;, Token Category: 29, Position: 101)  
 53 , (Sequence: }, Token Category: 33, Position: 103)  
 54 , (Sequence: **int**, Token Category: 23, Position: 106)  
 55 , (Sequence: value, Token Category: 1, Position: 109)  
 56 , (Sequence: ;, Token Category: 29, Position: 114)  
 57 , (Sequence: **int**, Token Category: 23, Position: 116)  
 58 , (Sequence: gap, Token Category: 1, Position: 119)  
 59 , (Sequence: =, Token Category: 5, Position: 122)  
 60 , (Sequence: 1, Token Category: 3, Position: 123)  
 61 , (Sequence: ;, Token Category: 29, Position: 124)  
 62 , (Sequence: **while**, Token Category: 21, Position: 126)  
 63 , (Sequence: (, Token Category: 30, Position: 131)  
 64 , (Sequence: gap, Token Category: 1, Position: 132)  
 65 , (Sequence: <, Token Category: 6, Position: 135)  
 66 , (Sequence: size, Token Category: 1, Position: 136)  
 67 , (Sequence: ), Token Category: 31, Position: 140)  
 68 , (Sequence: {, Token Category: 32, Position: 141)  
 69 , (Sequence: gap, Token Category: 1, Position: 143)  
 70 , (Sequence: =, Token Category: 5, Position: 146)  
 71 , (Sequence: 3, Token Category: 3, Position: 147)  
 72 , (Sequence: \*, Token Category: 14, Position: 148)  
 73 , (Sequence: gap, Token Category: 1, Position: 149)  
 74 , (Sequence: +, Token Category: 12, Position: 152)  
 75 , (Sequence: 1, Token Category: 3, Position: 153)  
 76 , (Sequence: ;, Token Category: 29, Position: 154)  
 77 , (Sequence: }, Token Category: 33, Position: 156)

78 , (Sequence: **while**, Token Category: 21, Position: 159)  
79 , (Sequence: (, Token Category: 30, Position: 164)  
80 , (Sequence: gap, Token Category: 1, Position: 165)  
81 , (Sequence: >, Token Category: 7, Position: 168)  
82 , (Sequence: 1, Token Category: 3, Position: 169)  
83 , (Sequence: ), Token Category: 31, Position: 170)  
84 , (Sequence: {, Token Category: 32, Position: 171)  
85 , (Sequence: gap, Token Category: 1, Position: 173)  
86 , (Sequence: =, Token Category: 5, Position: 176)  
87 , (Sequence: gap, Token Category: 1, Position: 177)  
88 , (Sequence: /, Token Category: 36, Position: 180)  
89 , (Sequence: 3, Token Category: 3, Position: 181)  
90 , (Sequence: ;, Token Category: 29, Position: 182)  
91 , (Sequence: **for**, Token Category: 22, Position: 184)  
92 , (Sequence: (, Token Category: 30, Position: 187)  
93 , (Sequence: **int**, Token Category: 23, Position: 188)  
94 , (Sequence: i, Token Category: 1, Position: 191)  
95 , (Sequence: =, Token Category: 5, Position: 192)  
96 , (Sequence: gap, Token Category: 1, Position: 193)  
97 , (Sequence: ;, Token Category: 29, Position: 196)  
98 , (Sequence: i, Token Category: 1, Position: 197)  
99 , (Sequence: <, Token Category: 6, Position: 198)  
100 , (Sequence: size, Token Category: 1, Position: 199)  
101 , (Sequence: ;, Token Category: 29, Position: 203)  
102 , (Sequence: i, Token Category: 1, Position: 204)  
103 , (Sequence: =, Token Category: 5, Position: 205)  
104 , (Sequence: i, Token Category: 1, Position: 206)  
105 , (Sequence: +, Token Category: 12, Position: 207)  
106 , (Sequence: 1, Token Category: 3, Position: 208)  
107 , (Sequence: ), Token Category: 31, Position: 209)  
108 , (Sequence: {, Token Category: 32, Position: 210)  
109 , (Sequence: value, Token Category: 1, Position: 212)  
110 , (Sequence: =, Token Category: 5, Position: 217)  
111 , (Sequence: getValue, Token Category: 1, Position: 218)  
112 , (Sequence: (, Token Category: 30, Position: 226)  
113 , (Sequence: vet, Token Category: 1, Position: 227)  
114 , (Sequence: ,, Token Category: 29, Position: 230)  
115 , (Sequence: i, Token Category: 1, Position: 231)  
116 , (Sequence: ), Token Category: 31, Position: 232)  
117 , (Sequence: ;, Token Category: 29, Position: 233)  
118 , (Sequence: **int**, Token Category: 23, Position: 235)

119 , (Sequence: j, Token Category: 1, Position: 238)  
 120 , (Sequence: =, Token Category: 5, Position: 239)  
 121 , (Sequence: i, Token Category: 1, Position: 240)  
 122 , (Sequence: -, Token Category: 13, Position: 241)  
 123 , (Sequence: gap, Token Category: 1, Position: 242)  
 124 , (Sequence: ;, Token Category: 29, Position: 245)  
 125 , (Sequence: **while**, Token Category: 21, Position: 248)  
 126 , (Sequence: (, Token Category: 30, Position: 253)  
 127 , (Sequence: j, Token Category: 1, Position: 254)  
 128 , (Sequence: >, Token Category: 7, Position: 255)  
 129 , (Sequence: =, Token Category: 5, Position: 256)  
 130 , (Sequence: 0, Token Category: 3, Position: 257)  
 131 , (Sequence: **and**, Token Category: 15, Position: 258)  
 132 , (Sequence: value, Token Category: 1, Position: 261)  
 133 , (Sequence: <, Token Category: 6, Position: 266)  
 134 , (Sequence: getValue, Token Category: 1, Position: 267)  
 135 , (Sequence: (, Token Category: 30, Position: 275)  
 136 , (Sequence: vet, Token Category: 1, Position: 276)  
 137 , (Sequence: ,, Token Category: 29, Position: 279)  
 138 , (Sequence: j, Token Category: 1, Position: 280)  
 139 , (Sequence: ), Token Category: 31, Position: 281)  
 140 , (Sequence: ), Token Category: 31, Position: 282)  
 141 , (Sequence: {, Token Category: 32, Position: 283)  
 142 , (Sequence: setValue, Token Category: 1, Position: 285)  
 143 , (Sequence: (, Token Category: 30, Position: 293)  
 144 , (Sequence: vet, Token Category: 1, Position: 294)  
 145 , (Sequence: ,, Token Category: 29, Position: 297)  
 146 , (Sequence: j, Token Category: 1, Position: 298)  
 147 , (Sequence: +, Token Category: 12, Position: 299)  
 148 , (Sequence: gap, Token Category: 1, Position: 300)  
 149 , (Sequence: ,, Token Category: 29, Position: 303)  
 150 , (Sequence: getValue, Token Category: 1, Position: 304)  
 151 , (Sequence: (, Token Category: 30, Position: 312)  
 152 , (Sequence: vet, Token Category: 1, Position: 313)  
 153 , (Sequence: ,, Token Category: 29, Position: 316)  
 154 , (Sequence: j, Token Category: 1, Position: 317)  
 155 , (Sequence: ), Token Category: 31, Position: 318)  
 156 , (Sequence: ), Token Category: 31, Position: 319)  
 157 , (Sequence: ;, Token Category: 29, Position: 320)  
 158 , (Sequence: j, Token Category: 1, Position: 322)  
 159 , (Sequence: =, Token Category: 5, Position: 323)

160 , (Sequence: j, Token Category: 1, Position: 324)  
161 , (Sequence: -, Token Category: 13, Position: 325)  
162 , (Sequence: gap, Token Category: 1, Position: 326)  
163 , (Sequence: ;, Token Category: 29, Position: 329)  
164 , (Sequence: }, Token Category: 33, Position: 331)  
165 , (Sequence: setValue, Token Category: 1, Position: 334)  
166 , (Sequence: (, Token Category: 30, Position: 342)  
167 , (Sequence: vet, Token Category: 1, Position: 343)  
168 , (Sequence: ,, Token Category: 29, Position: 346)  
169 , (Sequence: j, Token Category: 1, Position: 347)  
170 , (Sequence: +, Token Category: 12, Position: 348)  
171 , (Sequence: gap, Token Category: 1, Position: 349)  
172 , (Sequence: ,, Token Category: 29, Position: 352)  
173 , (Sequence: value, Token Category: 1, Position: 353)  
174 , (Sequence: ), Token Category: 31, Position: 358)  
175 , (Sequence: ;, Token Category: 29, Position: 359)  
176 , (Sequence: }, Token Category: 33, Position: 361)  
177 , (Sequence: }, Token Category: 33, Position: 363)  
178 , (Sequence: }, Token Category: 33, Position: 365)  
179 ]

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