1. <GS, ^>
2. <NS, ^>
3. <INT, 1>
4. <';', ^>
5. <INT, 2>
6. <';', ^>
7. <INT, 3>
8. <';', ^>
9. <INT, 4>
10. <NE, ^>
11. <ES, ^>
12. <'(', ^>
~~13. <',', ^>~~
~~14.~~
13. <INT, 1>
14. <',', ^>
15. <INT, 2>
16. <')', ^>
17. <',', ^>
18. <'(', ^>
19. <INT, 1>
20. <',', ^>
21. <INT, 3>
22. <')', ^>
23. <',', ^>
24. <'(', ^>
25. <INT, 2>
26. <',', ^>
27. <INT, 3>
28. <')', ^>
29. <',', ^>
30. <'(', ^>
31. <INT, 3>
32. <',', ^>
33. <INT, 4>
34. <')', ^>
35. <EE, ^>
36. <GE, ^>

~~INT → digit digit' | digit~~
~~digit → 0|1|2 .... |9~~
~~digit' →~~

~~INT → AB~~
~~INT → digit ext~~

GS → <graph>
NS → <node>
NE → </node>
ES → <edge>
EE → </edge>
GE → </graph>

INT → digit | digit ext
digit → 1|2|3|4|5|6|7|8|9
ext → ext' ext | ext'
ext' → digit | 0

G → GS NL EL GE
NL → NS N NE
N → INT OEN
OEN → , INT OEN | ^
EL → ES E EE
E → ED OEE
OEE → , ED OEE | ^
ED → (INT, INT)

Note: G = graph, GS = graph start, NL = node list, EL = edge list, GE = graph end, NS = node start, NE = node end, N = node, OEN = optional node extension, OEE = optional edge extension

Token-lexeme definitions

Keywords :

1. Graph : (GS, ^) , (GE, ^)
2. Node : (NE, ^) , (NS, ^)
3. Edge : (ES, ^) , (EE, ^)

Other important tokens :

1. Bracket : ('(', ^) , (')', ^)
2. Comma : (',', ^)
3. ~~Integer : (INT, A~~
3. Integer : (INT, x) where is any positive integer greater than 0.