1. <start> -> require "ifj21"<program>

2. <program> -> <fnc_dec> <program>
3. <program> -> <fnc_call> <program>
4. <program> -> <fnc_def> <program>
5. <program> -> ε

6. <fnc_dec> -> global <id_fnc> : function(<params_dec>) <return_type>
7. <id_fnc> -> identifikátor_funkce
8. <params_dec> -> ε
9. <params_dec> -> <data_type> <params_dec2>
10. <params_dec2> -> ε
11. <params_dec2> -> ,<data_type><params_dec2>
12. <return_type> -> : <data_type>
13. <return_type> -> ε
14. <data_type> -> integer
15. <data_type> -> number
16. <data_type> -> string

17. <fnc_call> -> <id_fnc> (<value>)
18. <value> -> ε
19. <value> -> <value_last> <value2>
20. <value2> -> ,<value_last> <value2>
21. <value2> -> ε
22. <value_last> -> <id_var>
23. <value_last> -> integer_value
24. <value_last> -> number_value
25. <value_last> -> string_value
26. <id_var> -> identifikátor_proměnné

27. <fnc_def> -> <fnc_head> <fnc_def2> end
28. <fnc_head> -> function <id_fnc>(<params_def>)
29. <fnc_def2> -> <fnc_body> <return_void>
30. <fnc_def2> -> : <data_type><fnc_body><return>
31. <params_def> -> ε
32. <params_def> -> <var_def> <params_def2>
33. <params_def2> -> ε
34. <params_def2> -> ,<var_def> <params_def2>
35. <var_def> -> <id_var> : <data_type>

36. `<return>` -> return `<expr>`

37. `<return_void>` -> return
38. `<return_void>` -> ε

39. `<fnc_body>` -> `<if>``<fnc_body2>`
40. `<fnc_body>` -> `<loop>``<fnc_body2>`
41. `<fnc_body>` -> `<statement>``<fnc_body2>`
42. `<fnc_body2>` -> ε
43. `<fnc_body2>` -> `<fnc_body>`

44. `<statement>` -> `<var_dec>`
45. `<statement>` -> `<id_var>` = `<var_assign>`
46. `<statement>` -> `<fnc_call>`

47. `<var_dec>` -> local `<var_def>` `<var_dec_init>`
48. `<var_dec_init>` -> = `<var_dec_init2>`
49. `<var_dec_init>` -> ε
50. `<var_dec_init2>` -> `<expr>`
51. `<var_dec_init2>` -> `<fnc_call>`

52. `<var_assign>` -> `<expr>`
53. `<var_assign>` -> `<fnc_call>`

54. `<if>` -> if `<expr>` then `<statements>` else `<statements>` end

55. `<loop>` -> while `<expr>` do `<statements>` end

56. `<statements>` -> ε
57. `<statements>` -> `<statement>` `<statements>`

POZN.: Slova a znaky psaná černě jsou neterminály.

POZN.2: Znak mezery v pravidlech je irelevantní a nic neznačí, slouží pouze k přehlednění