```
Token: separator Lexeme: $$
1
    <Rat16F> -> $$ <Opt Function Definitions>
 2
    $$ <Opt Declaration List> <Statement List> $$
 3
    Token: separator Lexeme: $$
    <Opt Function Definitions> -> <Function Definitions> | <Empty>
6
    <Function Definitions> -> <Function> | <Function> <Function Definitions>
7
    <Function> -> function <Identifier> [ <Opt Parameter List> ] <Opt Declaration List> <Body>
8
9
10
    Token: separator Lexeme: {
    <Opt Declaration List> -> <Declaration List> | <Empty>
11
    <Declaration List> -> <Declaration> ; | <Declaration> ; <Declaration List>
12
    <Declaration> -> <Qualifier> <IDs>
13
    <Qualifier> -> integer | boolean | real
14
15
    <Statement List> -> <Statement> | <Statement> <Statement List>
    <Statement> -> <Compound> | <Assign> | <If> | <Return> | <Write> | <Read> | <While>
16
    <Compound> -> { <Statement List> }
17
18
19
    Token: identifier Lexeme: a
20
    <Statement List> -> <Statement> | <Statement> <Statement List>
21
    <Statement> -> <Compound> | <Assign> | <If> | <Return> | <Write> | <Read> | <While>
22
    <Compound> -> { <Statement List> }
23
    <Assign> -> <Identifier> := <Expression>;
24
25
    Token: operator Lexeme: :=
26
    Token: identifier Lexeme: b
27
    <Expression> -> <Term> <Expression Prime>
28
    <Term> -> <Factor> <Term Prime>
29
30
    <Factor> -> - <Primary> | <Primary>
    <Primary> -> <Identifier> | <Integer> | <Identifier> [<IDs>] | (<Expression>) | <Real> | true | false
31
32
33
    Token: operator Lexeme: +
34
    <Term Prime> -> * <Factor> <Term Prime> | / Factor <Term Prime> | epsilon
    <Expression Prime> -> +<Term> <Expression Prime> | -<Term> <Expression Prime> | epsilon
35
36
    Token: identifier Lexeme: c
37
    <Term> -> <Factor> <Term Prime>
38
    <Factor> -> - <Primary> | <Primary>
39
    <Primary> -> <Identifier> | <Integer> | <Identifier> [<IDs>] | (<Expression>) | <Real> | true | false
40
41
    Token: separator Lexeme: ;
42
    <Term Prime> -> * <Factor> <Term Prime> | / Factor <Term Prime> | epsilon
43
    <Expression Prime> -> +<Term> <Expression Prime> | -<Term> <Expression Prime> | epsilon
44
45
    Token: separator Lexeme: }
46
    <If> -> if (<Condition>) <Statement> endif |
47
    if (<Condition>) <Statement> else <Statement> endif
48
49
    <Return> -> return ; | return <Expression> ;
    <Write> -> print (<Expression>);
50
51
    <Read> -> read (<IDs>);
    <While> -> while (<Condition>) <Statement>
52
    <Statement> -> <Compound> | <Assign> | <If> | <Return> | <Write> | <Read> | <While>
53
    <Compound> -> { <Statement List> }
54
55
    <Assign> -> <Identifier> := <Expression>;
    <If> -> if (<Condition>) <Statement> endif |
56
57
    if (<Condition>) <Statement> else <Statement> endif
58
    <Return> -> return ; | return <Expression> ;
59
    <Write> -> print (<Expression>);
    <Read> -> read (<IDs>);
60
61
    <While> -> while (<Condition>) <Statement>
62
    Token: separator Lexeme: $$
63
    <Assign> -> <Identifier> := <Expression>;
64
    <If> -> if (<Condition>) <Statement> endif |
65
    if (<Condition>) <Statement> else <Statement> endif
66
    <Return> -> return ; | return <Expression> ;
67
```

```
<Write> -> print (<Expression>);
68
    <Read> -> read (<IDs>);
69
    <While> -> while (<Condition>) <Statement>
70
    <Statement> -> <Compound> | <Assign> | <If> | <Return> | <Write> | <Read> | <While>
71
    <Compound> -> { <Statement List> }
72
    <Assign> -> <Identifier> := <Expression>;
73
74
    <If> -> if (<Condition>) <Statement> endif |
    if (<Condition>) <Statement> else <Statement> endif
75
    <Return> -> return ; | return <Expression> ;
76
77
    <Write> -> print (<Expression>);
    <Read> -> read (<IDs>);
78
79
    <While> -> while (<Condition>) <Statement>
80
81
    Token: Lexeme:
```