

LR(0) Parser Analysis Result

Is LR(0)? **NO X**

Number of States: 19

Number of Conflicts: 2

Conflicts Details:

State	Symbol	Conflict Type	Action 1	Action 2
3	ID	shift-reduce	r8	s1
3	"for"	shift-reduce	r8	s7

Production #	Non-Terminal	Production
0	programBar	programBar \rightarrow program
1	arg	arg \rightarrow NUMBER
2	arg	arg \rightarrow STRING
3	args	args \rightarrow arg ("," arg)*
4	call_stmt	call_stmt \rightarrow ID "(" args? ")" ";"
5	for_stmt	for_stmt \rightarrow "for" ID "=" NUMBER "to" NUMBER ";"
6	program	program \rightarrow stmt_list
7	stmt	stmt \rightarrow for_stmt
8	stmt	stmt \rightarrow call_stmt
9	stmt_list	stmt_list \rightarrow stmt
10	stmt_list	stmt_list \rightarrow stmt stmt_list

State	LR(0) Items
	[call_stmt → · ID "(" args? ")" ";" ;] [for_stmt → · "for" ID "=" NUMBER "to" NUMBER ";" ;] [program → · stmt_list] [programBar → · program] [stmt → · call_stmt] [stmt → · for_stmt] [stmt_list → · stmt stmt_list] [stmt_list → · stmt]
State 0	
State 1	[call_stmt → ID · "(" args? ")" ";" ;]
State 2	[program → stmt_list ·] [call_stmt → · ID "(" args? ")" ";" ;] [for_stmt → · "for" ID "=" NUMBER "to" NUMBER ";" ;] [stmt → · call_stmt] [stmt → · for_stmt] [stmt_list → stmt · stmt_list] [stmt_list → stmt ·] [stmt_list → · stmt stmt_list] [stmt_list → · stmt]
State 3	
State 4	[stmt → call_stmt ·]
State 5	[programBar → program ·]
State 6	[stmt → for_stmt ·]
State 7	[for_stmt → "for" · ID "=" NUMBER "to" NUMBER ";" ;]
State 8	[call_stmt → ID "(" · args? ")" ";" ;]
State 9	[stmt_list → stmt stmt_list ·]
State 10	[for_stmt → "for" ID · "=" NUMBER "to" NUMBER ";" ;]
State 11	[call_stmt → ID "(" args? · ")" ";" ;]
State 12	[for_stmt → "for" ID "=" · NUMBER "to" NUMBER ";" ;]
State 13	[call_stmt → ID "(" args? ")" · ";" ;]
State 14	[for_stmt → "for" ID "=" NUMBER · "to" NUMBER ";" ;]
State 15	[call_stmt → ID "(" args? ")" ";" ·]
State 16	[for_stmt → "for" ID "=" NUMBER "to" · NUMBER ";" ;]
State 17	[for_stmt → "for" ID "=" NUMBER "to" NUMBER · ";" ;]
State 18	[for_stmt → "for" ID "=" NUMBER "to" NUMBER ";" ·]

[illegible]

State	arg	args	call_stmt	for_stmt	program	programBar	stmt	stmt_list
0	-	-	4	6	5	-	3	2
1	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-
3	-	-	4	6	-	-	3	9
4	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-

From State	Symbol	To State
0	"for"	7
0	ID	1
0	call_stmt	4
0	for_stmt	6
0	program	5
0	stmt	3
0	stmt_list	2
1	"("	8
3	"for"	7
3	ID	1
3	call_stmt	4
3	for_stmt	6
3	stmt	3
3	stmt_list	9
7	ID	10
8	args?	11
10	"="	12
11	")"	13
12	NUMBER	14
13	","	15
14	"to"	16
16	NUMBER	17
17	","	18