

EJEMPLO 1

Gramática

1 program: stmtlist

2 stmtlist: %empty

3 | stmtlist '\n'

4 | stmtlist exp '\n'

5 | stmtlist error '\n'

6 exp: NUMBER

7 | exp '+' exp

8 | exp '-' exp

9 | exp '*' exp

10 | exp '/' exp

11 | '(' exp ')'

TABLA DE ANÁLISIS SINTÁCTICO LALR

Estado	ACCIÓN										IR_A		
	\n	NUMBER	+	-	*	/	()	\$	error	program	stmtlist	exp
0	r 2	r 2	r 2	r 2	r 2	r 2	r 2	r 2	r 2	r 2	1	2	
1									d3				
2	d6	d5					d7		r1	d4			8
3	ACEPTAR	ACEPTAR	ACEPTAR	ACEPTAR	ACEPTAR	ACEPTAR	ACEPTAR	ACEPTAR	ACEPTAR	ACEPTAR			
4	d9												
5	r6	r6	r6	r6	r6	r6	r6	r6	r6	r6			
6	r3	r3	r3	r3	r3	r3	r3	r3	r3	r3			
7		d5					d7						10
8	d15		d11	d12	d13	d14							
9	r5	r5	r5	r5	r5	r5	r5	r5	r5	r5			
10			d11	d12	d13	d14		d16					
11		d5					d7						17
12		d5					d7						18
13		d5					d7						19
14		d5					d7						20
15	r4	r4	r4	r4	r4	r4	r4	r4	r4	r4			
16	r11	r11	r11	r11	r11	r11	r11	r11	r11	r11			
17	r7	r7	r7	r7	d13	d14	r7	r7	r7	r7			
18	r8	r8	r8	r8	d13	d14	r8	r8	r8	r8			
19	r9	r9	r9	r9	r9	r9	r9	r9	r9	r9			
20	r10	r10	r10	r10	r10	r10	r10	r10	r10	r10			

EJEMPLO DE ANÁLISIS SINTÁCTICO

PILA	ENTRADA	ACCIÓN
0	NUMBER + NUMBER * NUMBER \n \$	r 2: stmtlist \rightarrow ϵ
0 stmtlist 2	NUMBER + NUMBER * NUMBER \n \$	d 5
0 stmtlist 2 NUMBER 5	+ NUMBER * NUMBER \n \$	r 6: exp \rightarrow NUMBER
0 stmtlist 2 exp 8	+ NUMBER * NUMBER \n \$	d 11
0 stmtlist 2 exp 8 + 11	NUMBER * NUMBER \n \$	d 5
0 stmtlist 2 exp 8 + 11 NUMBER 5	* NUMBER \n \$	r 6: exp \rightarrow NUMBER
0 stmtlist 2 exp 8 + 11 exp 17	* NUMBER \n \$	d 13
0 stmtlist 2 exp 8 + 11 exp 17 * 13	NUMBER \n \$	d 5
0 stmtlist 2 exp 8 + 11 exp 17 * 13 NUMBER 5	\n \$	r 6: exp \rightarrow NUMBER
0 stmtlist 2 exp 8 + 11 exp 17 * 13 exp 19	\n \$	r 9: exp \rightarrow exp '*' exp
0 stmtlist 2 exp 8 + 11 exp 17	\n \$	r 7: exp \rightarrow exp '+' exp
0 stmtlist 2 exp 8	\n \$	d 15
0 stmtlist 2 exp 8 \n 15	\$	r 4: stmtlist \rightarrow stmtlist exp '\n'
0 stmtlist 2	\$	r 1: program \rightarrow stmtlist
0 program 1	\$	d 3
0 program 1 \$ 3		Aceptar