

Simple Expression Grammar and Tables for LR parsing (Cooper & Torczon, *Engineering a Compiler*):

1. Goal → E
2. E → E + T
3. E → E - T
4. E → T
5. T → T * F
6. T → T / F
7. T → F
8. F → (E)
9. F → num
10. F → ident

state	action								goto			
	\$	+	-	*	/	()	num	ident	E	F	T
0							s4	s5	s6	1	2	3
1	acc	s7	s8									
2	r4	r4	r4	s9	s10							
3	r7	r7	r7	r7	r7					11	12	13
4						s14	s15	s16				
5	r9	r9	r9	r9	r9							
6	r10	r10	r10	r10	r10							
7						s4	s5	s6		17	3	
8						s4	s5	s6		18	3	
9						s4	s5	s6				19
10						s4	s5	s6				20
11		s21	s22				s23					
12		r4	r4	s24	s25		r4					
13		r7	r7	r7	r7		r7					
14						s14	s15	s16		26	12	13
15		r9	r9	r9	r9		r9					
16		r10	r10	r10	r10		r10					
17	r2	r2	r2	s9	s10							
18	r3	r3	r3	s9	s10							
19	r5	r5	r5	r5	r5							
20	r6	r6	r6	r6	r6							
21						s14	s15	s16		27	13	
22						s14	s15	s16		28	13	
23	r8	r8	r8	r8	r8							
24						s14	s15	s16				29
25						s14	s15	s16				30
26		s21	s22				s31					
27		r2	r2	s24	s25		r2					
28		r3	r3	s24	s25		r3					
29		r5	r5	r5	r5		r5					
30		r6	r6	r6	r6		r6					
31		r8	r8	r8	r8		r8					