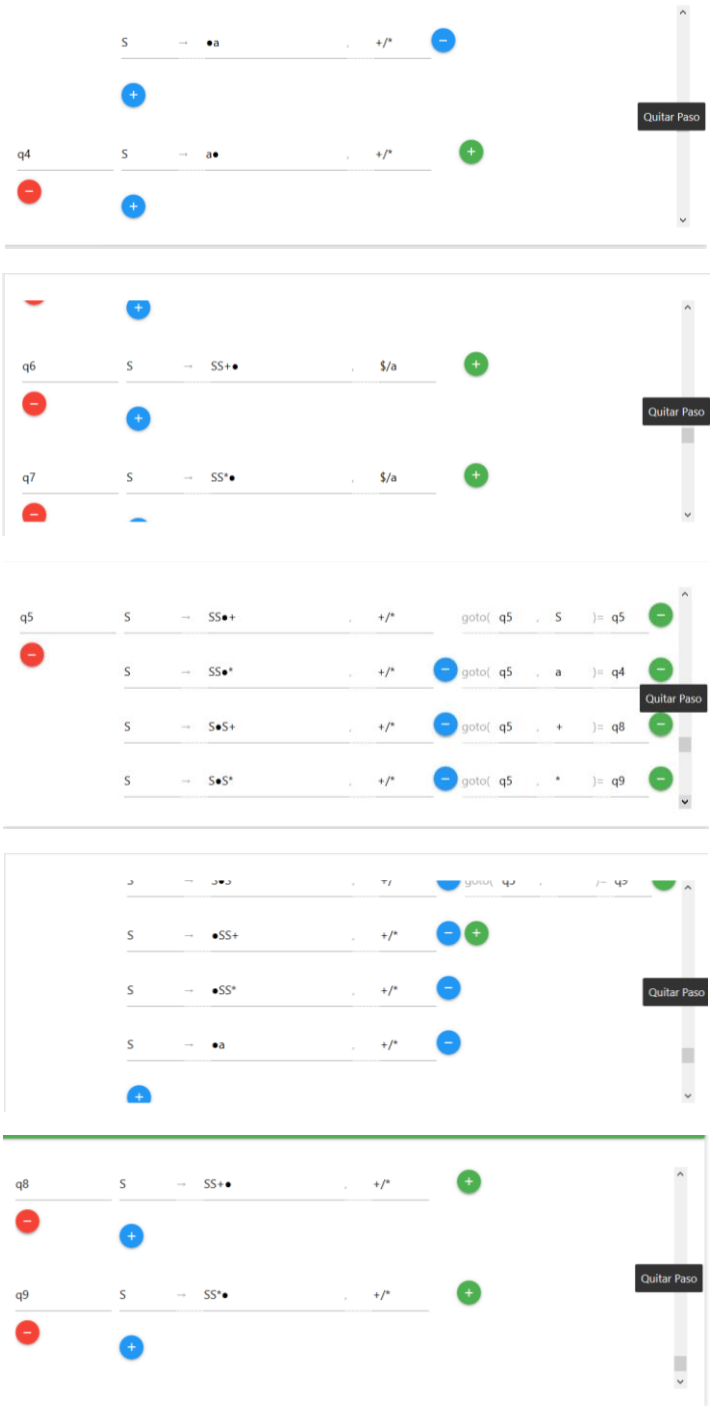
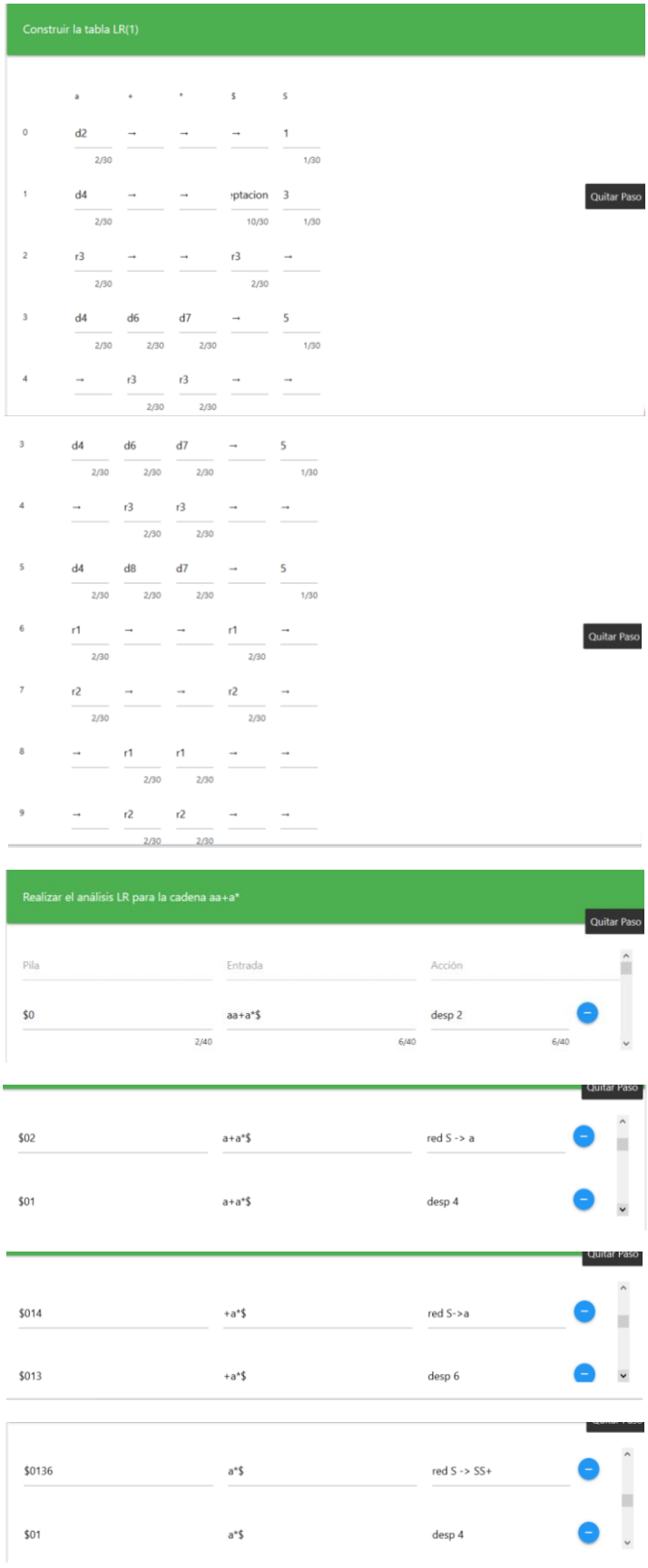
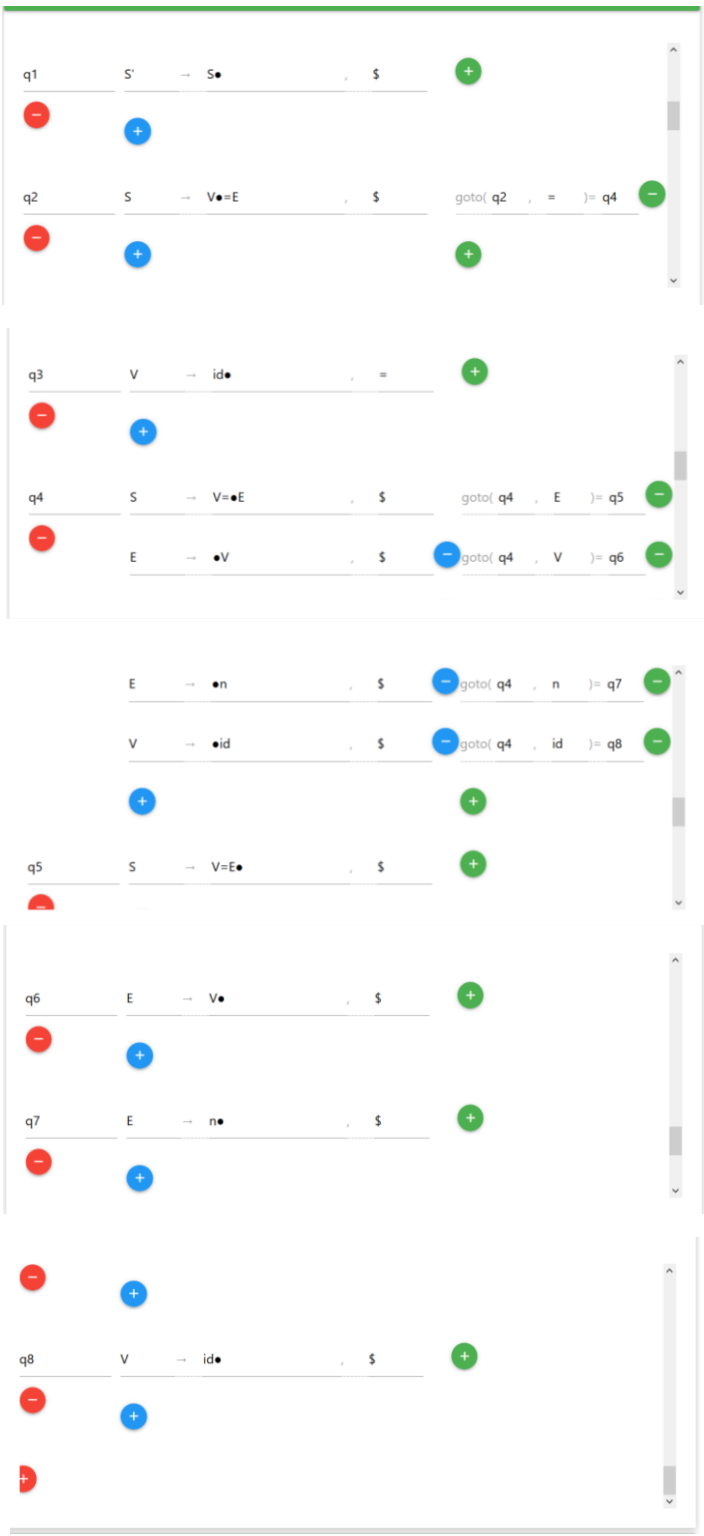
Gramatica 6a

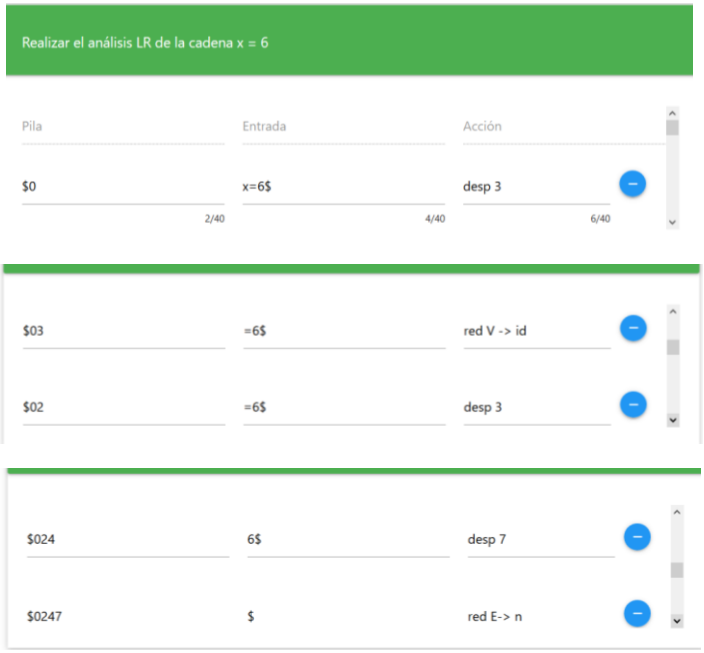

S → •a , +/*
Quitar Paso
q4 S → a• , +/*
q6 S → SS+• , $/a
Quitar Paso
q7 S → SS*• , $/a
q5 S → SS•+ , +/* goto(q5 , S)= q5
S → SS•* , +/* goto(q5 , a)= q4
Quitar Paso
S → S•S+ , +/* goto(q5 , +)= q8
S → S•S* , +/* goto(q5 , *)= q9
S → •SS+ , +/*
S → •SS* , +/*
Quitar Paso
S → •a , +/*
q8 S → SS+• , +/*
Quitar Paso
q9 S → SS*• , +/*

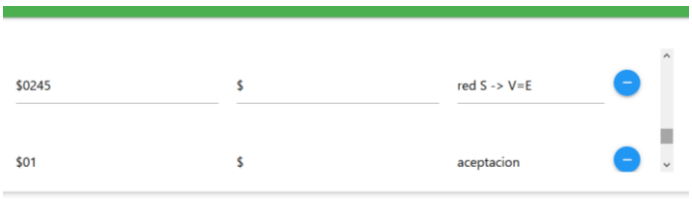

Construir la tabla LR(1)
a + * $ S
0 d2 → → → 1
2/30 1/30
1 d4 → → ɔptacion 3
2/30 10/30 1/30
Quitar Paso
2 r3 → → r3 →
2/30 2/30
3 d4 d6 d7 → 5
2/30 2/30 2/30 1/30
4 → r3 r3 → →
2/30 2/30
3 d4 d6 d7 → 5
2/30 2/30 2/30 1/30
4 → r3 r3 → →
2/30 2/30
5 d4 d8 d7 → 5
2/30 2/30 2/30 1/30
6 r1 → → r1 →
2/30 2/30
Quitar Paso
7 r2 → → r2 →
2/30 2/30
8 → r1 r1 → →
2/30 2/30
9 → r2 r2 → →
2/30 2/30
Realizar el análisis LR para la cadena aa+a*
Quitar Paso
Pila Entrada Acción
$0 aa+a*$ desp 2
2/40 6/40 6/40
Quitar Paso
$02 a+a*$ red S -> a
$01 a+a*$ desp 4
Quitar Paso
$014 +a*$ red S->a
$013 +a*$ desp 6
$0136 a*$ red S -> SS+
$01 a*$ desp 4

Gramatica 6b

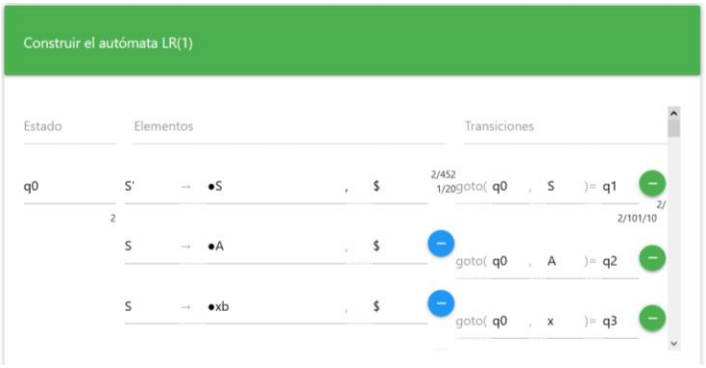

q1 S' → S• , $
q2 S → V•=E , $ goto(q2 , =)= q4
q3 V → id• , =
q4 S → V=•E , $ goto(q4 , E)= q5
E → •V , $ goto(q4 , V)= q6
E → •n , $ goto(q4 , n)= q7
V → •id , $ goto(q4 , id)= q8
q5 S → V=E• , $
q6 E → V• , $
q7 E → n• , $
q8 V → id• , $


Construir la tabla LR(1)
id = n $ S E V
0 → → d3 → 1 → 2
2/30 1/30 1/30
1 → → → tacion → → →
10/30
2 d4 → → → → → →
2/30
3 r4 → → → → → →
2/30
4 → d7 d8 → → 5 6
2/30 2/30 1/30 1/30
5 → → → → r1 → →
2/30
6 → → → → r2 → →
2/30
7 → → → → r3 → →
2/30
8 → → → → r4 → →
2/30


Realizar el análisis LR de la cadena x = 6
Pila Entrada Acción
$0 x=6$ desp 3
2/40 4/40 6/40
$03 =6$ red V -> id
$02 =6$ desp 3
$024 6$ desp 7
$0247 $ red E-> n



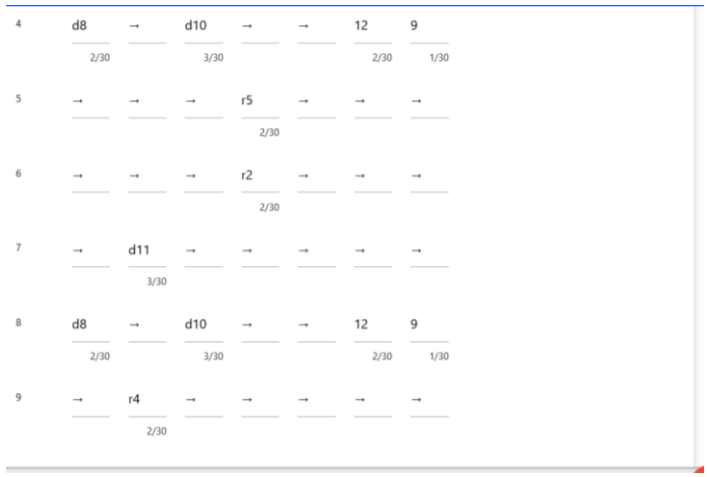
Gramatica 6c




A → •aAb , b goto(q4 , a)= q8
A → •B , b goto(q4 , b)= q9
B → •x , b goto(q4 , x)= q10
q5 A → B• , $
q6 S → xb• , $
q7 A → aA•b , $ goto(q7 , b)= q11
q8 A → a•Ab , b goto(q8 , A)= q12
A → •aAb , b goto(q8 , a)= q8
A → •B , b goto(q8 , B)= q9
B → •x , b goto(q8 , x)= q10
q9 A → B• , b
q10 B → x• , b
q11 A → aAb• , $


q12 A → aA•b , b goto(q12 , b)= q13
q13 A → aAb• , b


Construir la tabla L(1)
a b x $ S A B
0 →d4 3/30 → d3 2/30 → 1 1/30 2 1/30 5 1/30
1 → → → ɔtacion 10/30 → → →
2 → → → r1 2/30 → → →
3 → d6 → r5 → → →


4 d8 2/30 → d10 3/30 → → 12 2/30 9 1/30
5 → → → r5 2/30 → → →
6 → → → r2 2/30 → → →
7 → d11 3/30 → → → → →
8 d8 2/30 → d10 3/30 → → 12 2/30 9 1/30
9 → r4 2/30 → → → → →


9 → r4 2/30 → → → → →
10 → r5 2/30 → → → → →
11 → → → r3 2/30 → → →
12 → d13 3/30 → → → → →
13 → r3 2/30 → → → → →

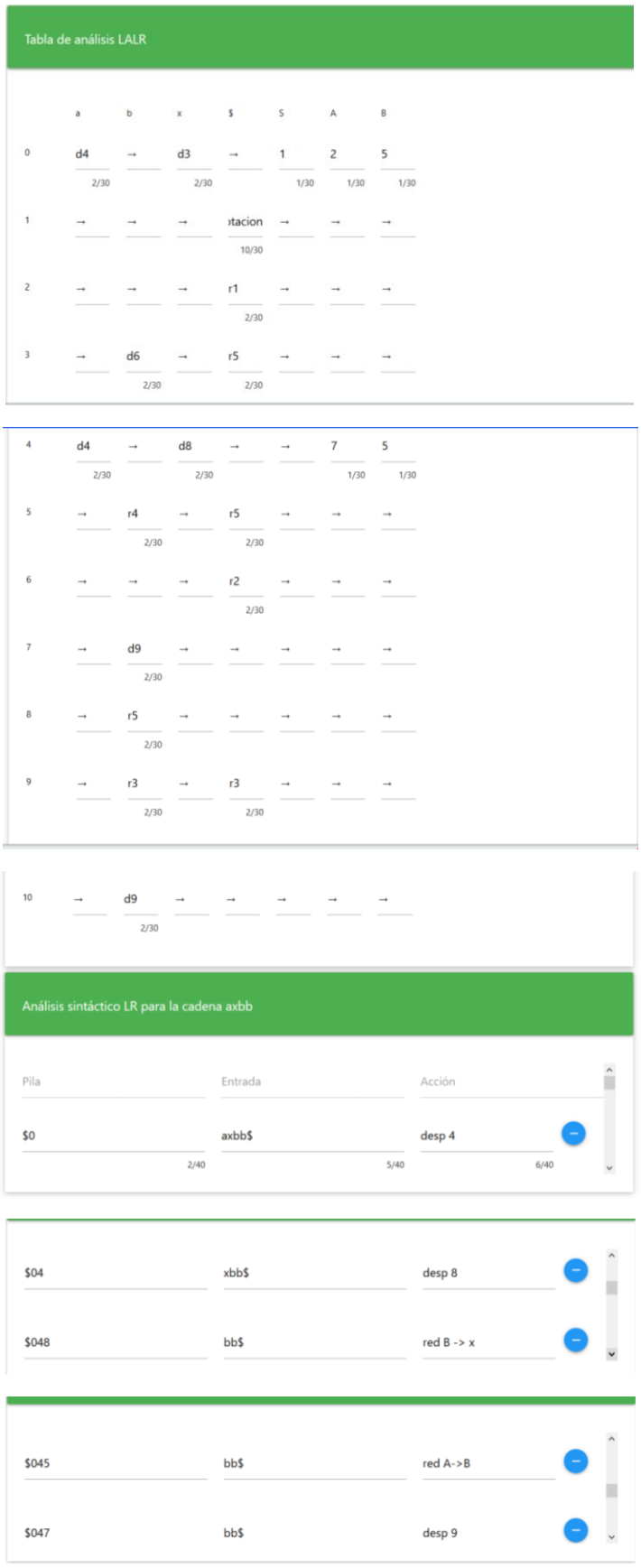
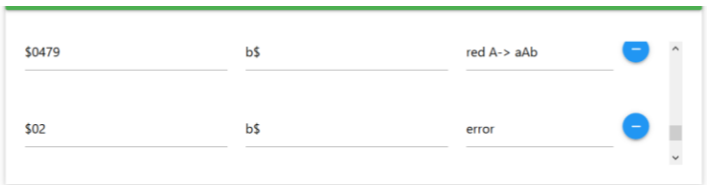
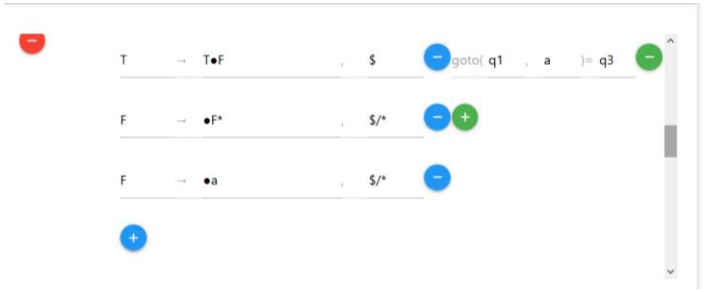
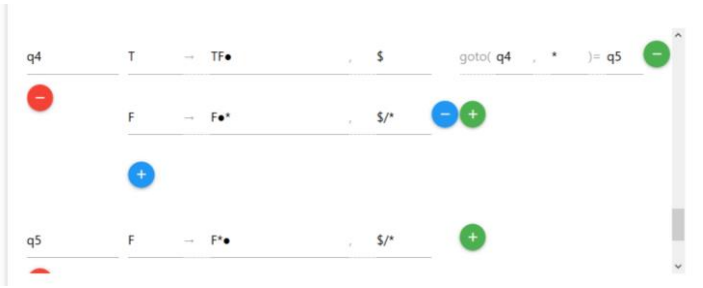


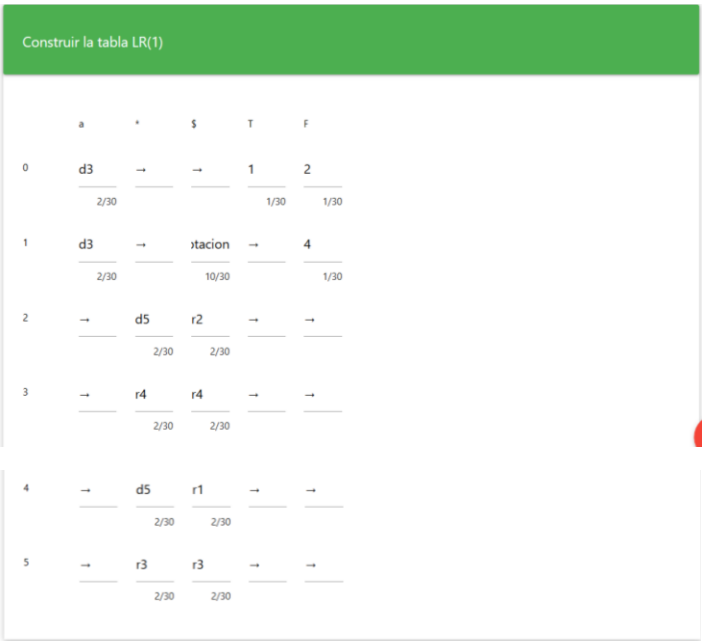
Tabla de análisis LALR
a b x $ S A B
0 d4 → d3 → 1 2 5
1 → → → tacion → → →
2 → → → r1 → → →
3 → d6 → r5 → → →
4 d4 → d8 → → 7 5
5 → r4 → r5 → → →
6 → → → r2 → → →
7 → d9 → → → → →
8 → r5 → → → → →
9 → r3 → r3 → → →
10 → d9 → → → → →
Análisis sintáctico LR para la cadena axbb
Pila Entrada Acción
$0 axbb$ desp 4
$04 xbb$ desp 8
$048 bb$ red B -> x
$045 bb$ red A->B
$047 bb$ desp 9

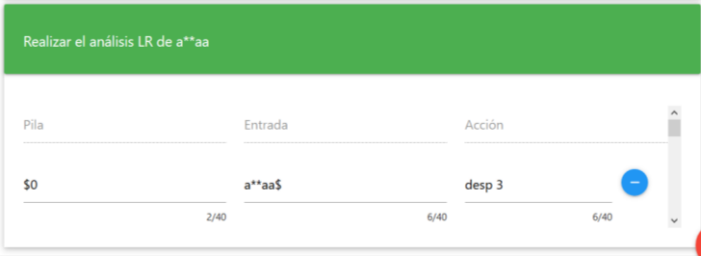


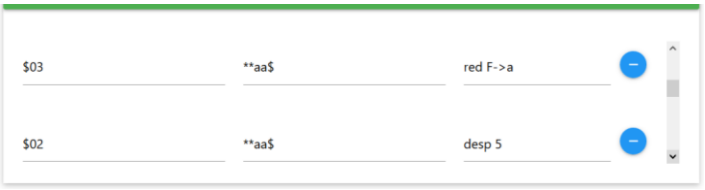
Gramatica 6d




q4 T → TF• , $ goto(q4 , *)= q5
F → F•* , $/*
q5 F → F*• , $/*


Construir la tabla LR(1)
a * $ T F
0 d3 → → 1 2
1 d3 → ıtacion → 4
2 → d5 r2 → →
3 → r4 r4 → →
4 → d5 r1 → →
5 → r3 r3 → →


Realizar el análisis LR de a**aa
Pila Entrada Acción
$0 a**aa$ desp 3


$03 **aa$ red F->a
$02 **aa$ desp 5


$025 *aa$ red F->F*
$02 *aa$ desp 5

Aguilar Castro Carlos Alfonso | Compiladores | Grupo: 2