LR(0) & SLR(1) Parsing

3 de junho de 2024

2. Parse input string "baab" using following resources:

0) S'-> S

1) S -> XX 2) X -> aX 3) X -> b

State on	Action			Goto	
top of stack	a	b	\$	S	Х
0	s 3	s4		1	2
1			acc		
2	s6	s7			5
3	s 3	s4			8
4	r3	r3			
5			r1		
6	s6	s7			9
7			r3		
8	r2	r2			
9			r2		

			\sim 1 \sim 1
Stack	Input	Action	Stays the same with reduce
0	baab\$	-	With rudue
0b4	aab\$	Shift 4	
0X2 (popped top of the stack until b)	aab\$	Reduce by X -> b	-> State 0 => 2
0X2a6	ab\$	Shift 6	I why y
0X2a6a6	b\$	Shift 6	•
0X2a6a6b7	\$	Shift 7	
0X2a6a6X9	\$	Reduce by X -> b	
0X2a6X9	\$	Reduce by X -> aX	
0X2X5	\$	Reduce by X -> aX	
0S1	\$	Reduce by S -> XX	
		Accept !	