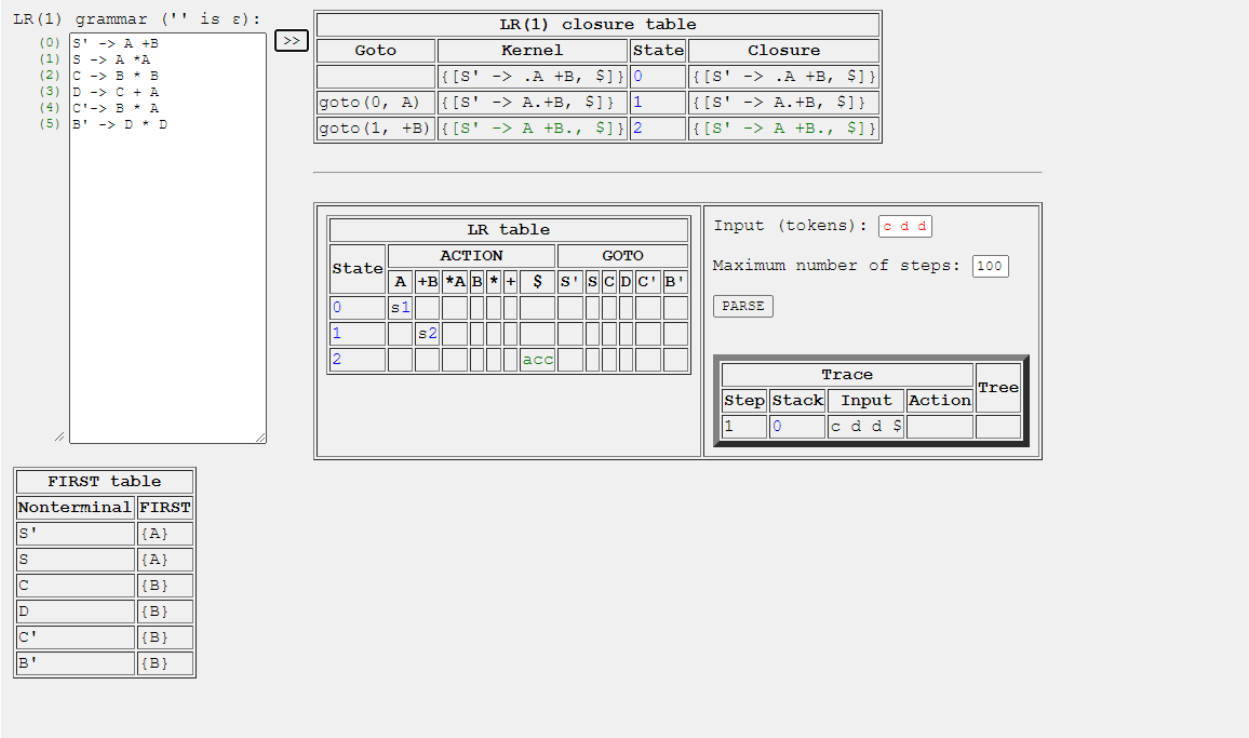
Test Case:

If the test case 2 + 1, the code would come out with [Int: 2 , Plus, Int: 1]
If the test case d + 1, the code would come out with Incorrect character d

LR(1) Praser Table



LR(1) grammar ('' is ε):

(0) S' -> A +B
(1) S -> A *A
(2) C -> B * B
(3) D -> C + A
(4) C'-> B * A
(5) B' -> D * D

>>

LR(1) closure table

Goto	Kernel	State	Closure
	{[S' -> .A +B, $]}	0	{[S' -> .A +B, $]}
goto(0, A)	{[S' -> A.+B, $]}	1	{[S' -> A.+B, $]}
goto(1, +B)	{[S' -> A +B., $]}	2	{[S' -> A +B., $]}

LR table

State	ACTION						GOTO					
	A	+B	*A	B	*	+	$	S'	S	C	D	C'	B'
0	s1												
1		s2											
2							acc						

Input (tokens): c d d

Maximum number of steps: 100

PARSE

Trace				Tree
Step	Stack	Input	Action	
1	0	c d d $		

FIRST table

Nonterminal	FIRST
S'	{A}
S	{A}
C	{B}
D	{B}
C'	{B}
B'	{B}