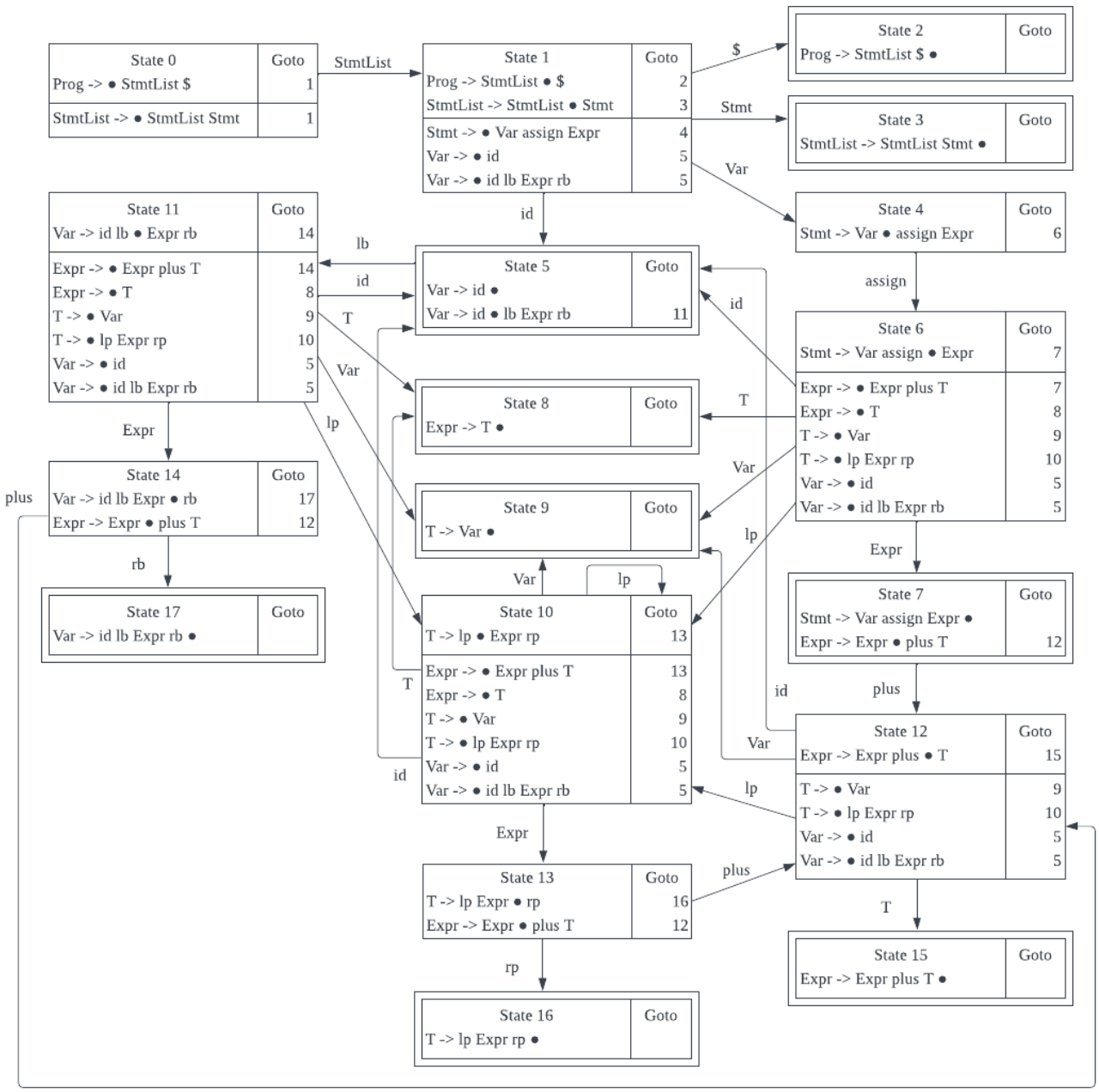
Build the CFSM for the following grammar:

1	*Prog*	→	*StmtList* $
2	*StmtList*	→	*StmtList Stmt*
3	*Stmt*	→	*Var assign Expr*
4	*Var*	→	*id*
5		|	*id lb Expr rb*
6	*Expr*	→	*Expr plus T*
7		|	*T*
8	*T*	→	*Var*
9		|	*lp Expr rp*

Show the SLR(1) parse table for the CFSM constructed in the above problem.



2.

State	assign	id	lb	rb	plus	lp	rp	$	Prog	StmtList	Stmt	Var	Expr	T
0									accept	1				
1		5						2			3	4		
2								1						
3		2						2						
4	6													
5	4	4	11	4	4		4	4						
6		5				10						9	7	8
7		3			12			3						
8		7		7	7		7	7						
9		8		8	8		8	8						
10		5				10						9	13	8
11		5				10						9	14	8
12		5				10						9		15
13					12		16							
14				17	12									
15		6		6	6		6	6						
16		9		9	9		9	9						
17	5	5		5	5		5	5						