



1)  $S \rightarrow L_1.L_1$ 

5. Val = L1. Val + Lr. Val / Lr. \$

2)  $5 \rightarrow L$ 

S. Val = L. Val

3) L -> LIB

- L. Val = L1. Val \* Y+ B. Val
- L. 7 = L1. + \* Y

4)  $l \rightarrow B$ 

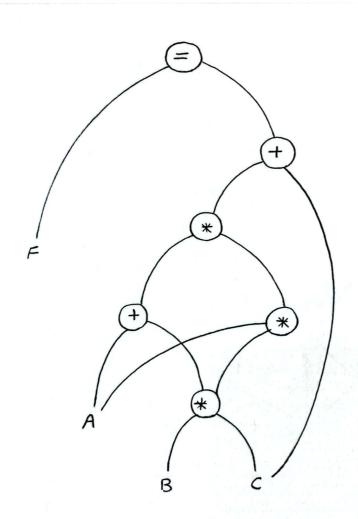
- L. Val = B. Val
- L. 7 = Y

5)  $B \rightarrow 1$ 

B. Val = 1

6) B→6

B. Val = 0





## Triple:

a ddress	operation	arg1	arg 2
0	+	Z	2
1	para m	(0)	
2	Param	×	
3	Call	+	2
4	**	C	٦
5	[] =	Ь	Ĺ
6		(5)	(4)
7	+	(6)	(3)
8	[]=	a	i
9	=	(8)	(7)

## Quadruple:

address	operation	arg 1	arg 2	result
0	+	Z	2	t1
1	param	±1		
2	Param	X		
3	Call	7	2	t2
4	*	C	d	t3
5	[]=	Ь	i	t4
6	_	<b>t</b> 4	t3	t5
7	+	t5	t2	t6
8	[]=	a	i	t7
9	=	<b>t</b> 6		±7

الن) Lr: if x>0 goto Lx

gotoLI

Lx: if x<100 goto Ly

goto Li

Lp: x = x +1

Lw: if x> 10 goto 14

goto LV

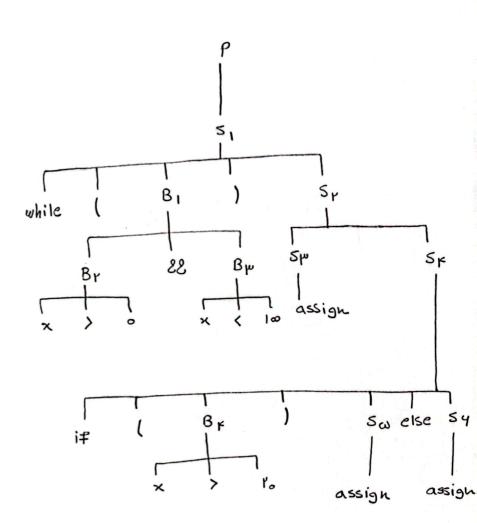
L4: X = X + Y

gstonep

Lv: x = x+"

goto Ly

LI:



ب) begin = newlabel ()

B. true = begin

B. False = S. next

S. code = label (begin) || si.code || B.code || gen ('goto' begin)

$$T_r = A[t_i]$$

$$dP = dP + t\omega$$