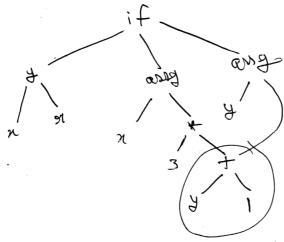


Lon level (Tanget language) + three de code



If a < b then n= + = the p- z+ sh anventing to three address cale.

Oif act then goto 3 @ goto <u>\$</u>
@ yoto <u>\$</u>
@ x=1;
@ x=1;
@ 12= Z+ 7

(b) p= 12

while (a < b) do \$ X = 413

three address code:

1) if a < 6 goto 3

(1) de goto (1)

3 (1 = 415

5 go to 1

@ Next instruction outside to loop

for (i=1; i <20; i++) | three address code 91= H+ Z

(2) fis20 goto (7)

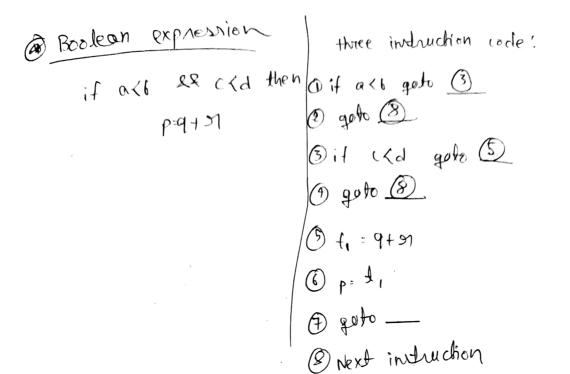
(5) 1= \$1.

(7) 1= 4+Z

(§) γ: ★,

1 goto (9)

@ next instruction outer ontride the loop



AKB ON CKD and PKS

three address code:

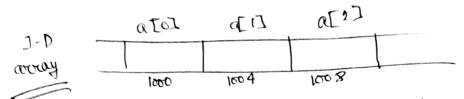
O; f AKB goto \$\frac{9}{3}\$

O; f CKD goto \$\frac{6}{3}\$

O; f PKS goto \$\frac{9}{3}\$

O; of the body

O; out the body



bare address - address of first element width - number of \$164ter occupied by each element

$$t_1 = n + W$$

t_= nx W

Twee address code for this
operation.

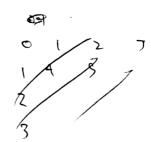
ALION [9]

HOR it shower in memory

<i>{</i> ;) stoke) in well and		4	4		
	atoscoz		a Egit 2]	a tops]	2011130	a Eilli
					,	
-	1000	1009	8001	1012		

B

$$\frac{2}{3}$$
 2 = 1000+ 9[9×3+2]
 $\frac{1500}{4}$ + 9× 14

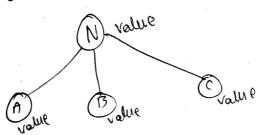


syntar linected Definition:

Content free + attailable + sules gramman

Attributes

syntherized - syntherized attributer of Node N in defined in term of attributed value of ded children of N and itself.



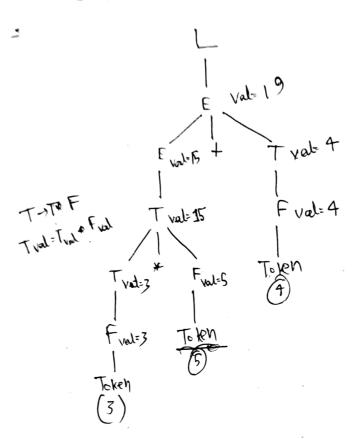
Nvalue = Avalue + Bvalue + Cvalue

N-) ABC

Inherited attributer -

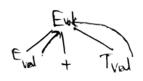
Annoted Parke tree - Park +

Example



Dependency Gooph: -

It is a took for determining the evaluation order of the attributer in a pare tree



SDD in two categorier!

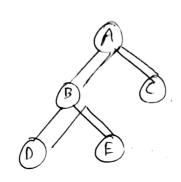
SDD desification

s-attributed SDD i-attributed SDD

Scanned with CamScanner

(s-attributed SDD

- attributer will be synthesized



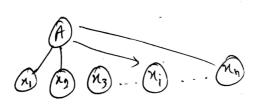
- Bottom up paining

(i) L-attributed SDD

- synthesized

- Inherited

A -> X, X2, 18,000, Xn



Application of SDD

- Type checking

- Intermediate con code generation

- Construction of Syntax 12186.