co assignment-6

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Syntax dixected declaration

Annotated parse tree for int a,6,0?

Production semontic

Nules

Nules

D-STL Linher=T-type

T-sint T-type=int

T-sfloat T-type=float

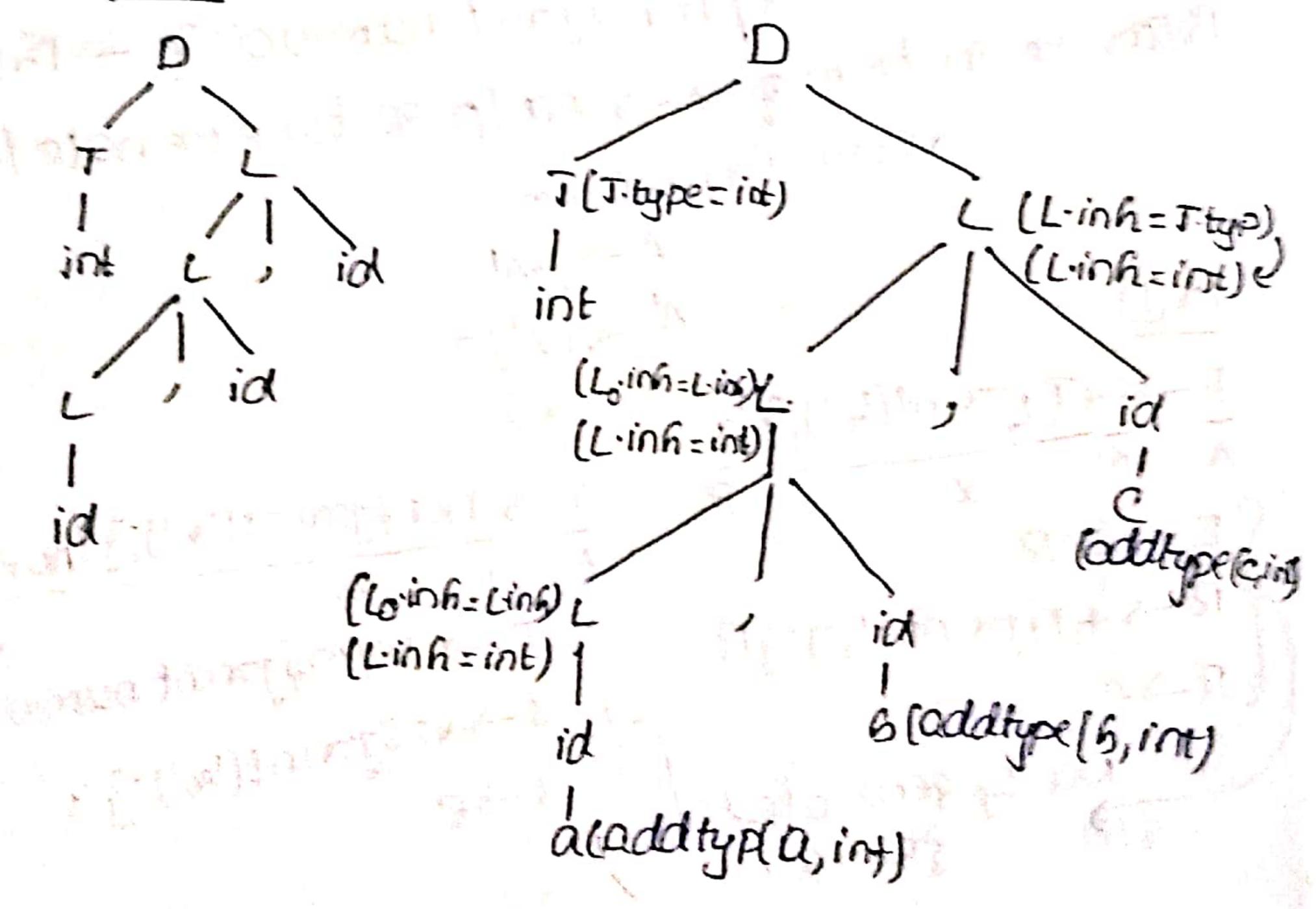
L->Lo, id Loinher= Linher

add type(id-entry, Linher)

L->id

add type(id-entry, Linher)

Annetoted parse tree



2) Syntop Directed technique that translotes infip to postip Frpression = 3×445×2 Production sem onticrale A Table of E-> E+T {jorint(1+1);} T-STXF & Jonid (1x1).} 1 E 2 Daw Elain van. notif E-> E+1 {12xint(1+1):3/1 -> D&D Farm ton a franchista T->T*E{print(,*,),3/ ram frint naminal;3, -> be@ Both one in form of A -> Aa/B so to exemenate left recursian we do A' JOA'/C E->E+7 {print(41);3/1 T-> T*F&Jorint['*'); Inum{Emtrup -> voing brint vamon of 38 R->+T{Joxint['+');4R マーメトミンをいった(,*,);33 Dewly generated of ispaint 1471 R \$ 10x10t('x'); 31) 8) num 34* 52x + post-fix expression

 $1 \cdot i = 0$ $2 \cdot gum = 0$

 $2 \cdot gum = 0$ $3 \cdot if i \ge 10 goto = 7$

While (iz 10)

BUW=0

4. t= Sum +1

8um += ;

J. Sumit

6 90to 3

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3) quadriple, triple, indirect triple of x=y+2*w/u-v

result

quadruple

Three address cools $t_1 = 2*\omega$ $t_2 = t_1/\omega$ $t_3 = 4+t_2$

t4=t3-0
2=t4

triple

50				
	OP	argi	10002	1
(0)	- ×	2	w	1.
(1)	1	(0)	u	
(2)	+	y	(1)	100
(3)		£2)	U	4
(4)	2	~	121	

Indixect triplet

18tatements (0) 14 (1) 15 (2) 16 (3) 17 (6) 18

, +	OP	argi	1 arg 2
(14)	*	2	0
(15)	1	(14)	u
(16)	+	4	(11)
(18)		(16)	U
ופיו	71	X	[17]