





SDT Part-2

Complete Course on Compiler Design

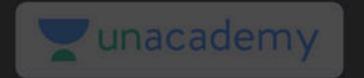
unacademy

Syntan Directed Translation (SDT)

$$E \longrightarrow E, f = a$$

$$= E \cdot \text{lyre} = E_a \cdot \text{lyre}$$

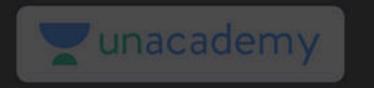
$$= \text{lyre}$$



Attoibutes

Synthalired altoibute 5-7ABCZ S.S = f(A.S | B.S | d.S)} S.s = { A.s & B.s } A: 5 B. 5 E. 5

Inherited attributed 5-7 ABd Bi=f(si|A·i|d·i) 3.1= A.1+C.1 & S.1



S-atto:betud Defin lino

1) It work Synkakned attributes.

SDT

- (9) 9t Follows Bottom-UP evelution (8) Palmed Evelu
 - (3) Semantic actions will be placed on RHI Rmr

L-attoibetud Définérion

- 1) It week byon 78 Inhand = P, Ly
- (2) It follows Lest to Right Depth FIRM WAY
- 3) somewhil actions will be placed any who in RH



applications of SDT

- 1) Arthamelic exprellivon Evelton
- - Binary Decimal"
 - (3) Type check (3) intermedite dode gennel

- (b) Syntan Toule (80ction)
- (3) " (rehind " Symbol Table
 - Overling & no. B reductions

1/21: 1.Vel (κ) Tid & F. val = it



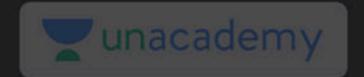
consider He & Moung SDT

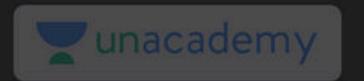
1/p=8#284#16812#48

F-> num { F.val = mum>

0/p = 512

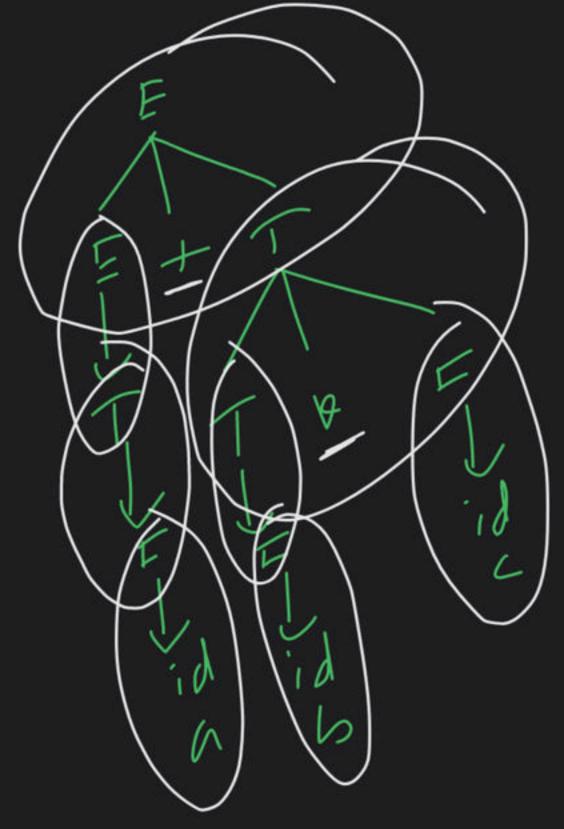
(a) f=) \$ (b) f=> + (c) q=-1 (d) & None

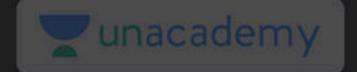




Constance SDT to convert given Intix expression indo puffin Expoulling

T-)TOF { PX(b) } F-) id dr8(id)





F-)id of rollid)

