How to Evalutate expression given one SDT and input And find autput ueith corresponding input. Question aadbc - Birf() S-> AS B-> AB -- Pf(2) \_ 3 --- Pf(3) A -> a - 9 - Pfla) B->6C  $B \rightarrow dB$ - Plo C> C - ples Top-Down-Approach CTholltor)\* imput + aadbc S->AS -0AB8  $\rightarrow aS$ -> aAB -> aab -> aa OB aadB 7 aad bC aadb c

Bottom-UpApp. ( WORK on reduction RHS reduced by LHS (NT)) S-> AS -> AAB -> AAdB -> AAd bC A Adbe A adbe aadbe

Ofp 3364521

(Para)

Syntase Derected Franslations Schomes SDT schomes ies similiar to 51950, except just the arder of evalution of the sementic Julis is this also a CFG in which semantic rules are embedded with the right side of production with, attributes are also associated with the grammer symbols. explicitly shown 1) Top - Down Approach (2) Böttom-lip 1, \* How to evaluate Agrithantic empression wants St. R. Action/Rule
S. R. S. R. S. R. Action/Rule E-> ERT & Eval = E.val \* T.val } / E E. val = T. val 3 T-TQF \ \ \ T.val = T.val - F. val \ \ \ ¿ Tival = f. val} F-> num & f.val = num} Input - 42 8@527@3

(60/-3)

Top-Down Approach

E TELT

DERTOR

TELTET

TETET

TETET

Tumftt

Tumften @ numf f@ f

num f mm @ num f num @ num

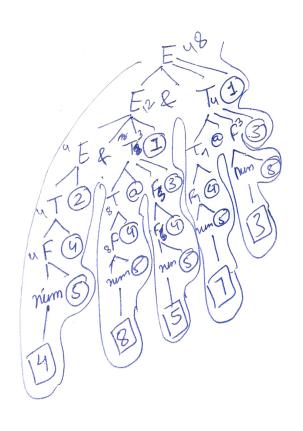
num f num @ num f num @ num

num f num @ num f num @ num

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input -> 448@52.7@3

E>ELT >ELTOF >ELTOF >ELTOFLEOF >ELTOFLEOF >ELFOPLEOF >TLFOFLEOF >TLFOFLEOF >TLFOFLEOF >FLFOFLEOF >TLFOFLEOF >FLFOFLEOF