

and operators I differently (semantics) AST — Possless represent n.

Program P — AST — Program Program Program P = P'

(Syntactically they remain the same) AST is used for socto soc combilation. If we coeste prog from 3AC then it bloses syntax. Jouly semantically reme 3AC -> Sementically same AST -> Sementically + Syntactically Grammar is not 21(1) but X LLCI) L(G) is an V L L (1) LL (1) long. L(G) is LL(1) if 3 G' St L(G) = L(G')and G' = LL(1) (G'is an LL(1)

grammar) State of the parsen= ST, a

look ahead current look

Non ferminal ahead

Which we can Symbol

expand to produce - Cons. Parse Table First set > if a Sentential form is nulbble

then \(\xi \in \text{First set of that sent:} \)

form $A \rightarrow BC$ $B \rightarrow E$ $C \rightarrow C$ then $E \notin FS(A)$ FS(A) = SCS $A \rightarrow BC$ $B \rightarrow \varepsilon / b$ $C \rightarrow c$ $FS(B) = \{b, \varepsilon\}$ $FS(A) = \{b, c\}$ $A \rightarrow BC$ $E \rightarrow E/B$ $E \rightarrow C/E$ $FS(A) = \{b, c, E\}$ $FS(B) = \{b, E\}$ Follow Set E & Follow Set of any Sent Form

(chalin of ebsilons go to

S -> B C D S

first Set of C

first Set of C if first cet (C) has €, then incl first cet

of D and if it also has € then

incl \$

first set can
have epsilon.
First set can't have
\$.
Follow set: \(\xi\) Greek - sentential form Capital - Non terminal Small - terminal