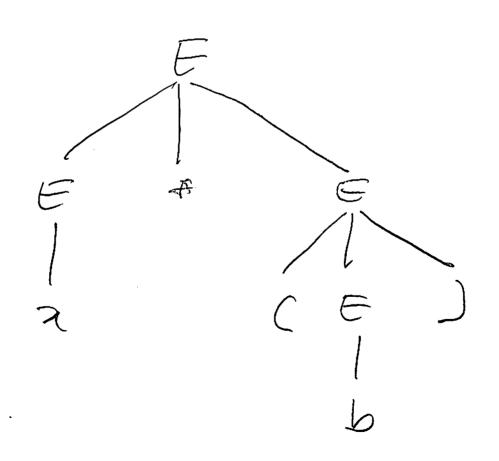
PARSE TREES

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TO a 16/Fa/FI

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- Chowsky Dopmal Ferry x + Cb

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Ambiguity 2 + 6 + a

A STRILL W 13

dounded ambiguous(x 1)

CFG G 15 17 has

TOLO OR MORE DIFFORMA

leftmost demonstrates,

Gramman C 15 Run biguous

If 17 generator some strike

Ambiguously

FORM ACKY

4

CEFT MOST DERU USTIONS AT Dry Step replace the leftmost variable by one of it's productions 2+6+0 E => Ex E => E+E *E => 2+ E+E 2x+6+6 >2+6+a EDETED 2+E => a + G * E D 2+6+E

一 atb*ス

5

DISAM bisuatiliON EDTIETT T=>FIT#F F=> 1 (F) I => Same 2+ 6 4 2 E=) E+T シェナナシキャアシエナア 2) x + T) a + T + F =) 2+ F + F =) コーナサチョマナレザドシ

Datb#I = a+b#2

6

CFG
$$\Rightarrow$$
 PDA
INPUT $G = (V, E, R, S)$
OUTPUT $P = (Q, E, \Gamma, 8, qood 20, F)$
D. Convert into GNE
 $A \Rightarrow b$
 A

ACAG

$$P = (\xi_{q}^{3}, \xi_{3}b^{3}, \xi_{5}, \chi_{,a,b}^{3}, \chi_{,a,b}^{3},$$

Section 2.3 Pumping Cenna For CFL'S

FEA 15 a CFC, ther them is a number of Comprision) where if s is pay steins in A af longth at least p, then 5 may be divided (NO 5 PIECES 5-UVWKY

52+158/15 !

- 1) for oach i 70 oviwxiy eA 2), 15x170
- 3), $1 r w \times 1 \leq P$

JUX Camuat contain

both 0/5 # Z'S

- Since / vux / & u

- Since / vux / & u

- Since / vux / > u

/ vux / > u

- Case I VWY has no Z'S -VX 15 only 0'S \$ I'S - VX 15 only 0'S \$ I'S - VX 1 > 0 at Forse on of thom - VWY must have u 2'5 Only possible if Seven that h Ols on u I's.

- Case 12 VWY has UC 015 -UWY has u 4'5 so Semen -han 4 I's ar 2's.