Lecture 29: PDA from CFG; "Cleaning" up CFGs; Chomsky Normal Form CFGs; Pumping Lemma
for CFLs
5 → C.5 (E S → A B
$C \rightarrow A.B$
A -> OAI GI
$\beta \rightarrow 1B \mid \xi$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$C \sim \lambda C C$
$\frac{S}{A} \rightarrow A \cdot $
A A AI O AI OI
E, S/A.S () E, S/E
$\sum = \{0,1\}$ $1,X/\xi$
T = \{\infty, A, X_0, X_1\} 0, \(\delta \) \\ \(\delta \) \(\delta
2, A/AXI
E, A/Xo A XI
€, */ *o *,
O SI COMPANY
$S \rightarrow \frac{0D}{0A} \frac{(S)}{D}$
VA > 01 140 10
150
$S \rightarrow X_0 S_1$
$S_1 \rightarrow SX_1$ D $\rightarrow \langle bAD bAS \rangle$ B
S -> X ₀ S X ₁ X ₀ D X ₁ X ₀ A X ₁ X ₀ X ₁
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
y = 7 × 8 y × 1 × 7 × 7 × 7 × 7 × 7 × 7 × 7 × 7 × 7



