< Lecture 19 >

Thm 2.20.

CFL is equivalent to PDA in expressive power

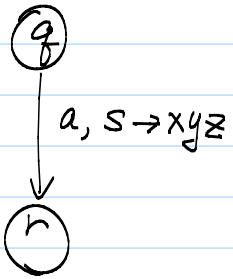
Lemma 2.21

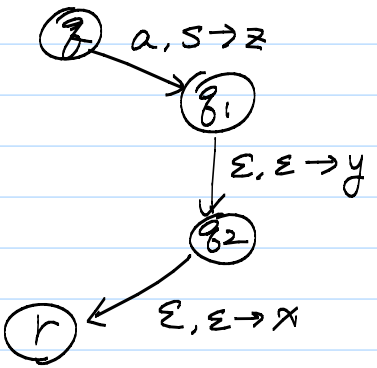
Every CFL is recognized by a PDA

Lemma 2.27

Every PDA recognizes a CFL

Abbreviation :

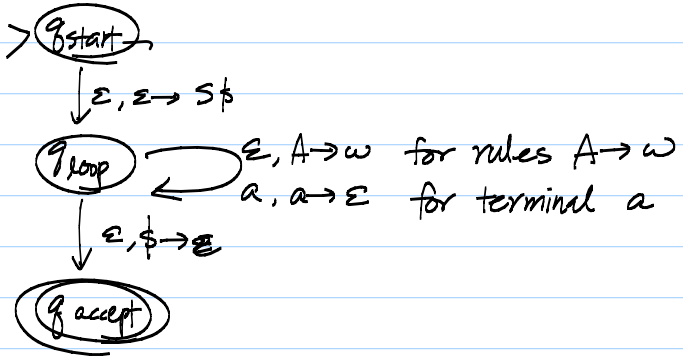




On reading a from input and S from stack, push xyz onto stack (x on top)

Lemma 2.21

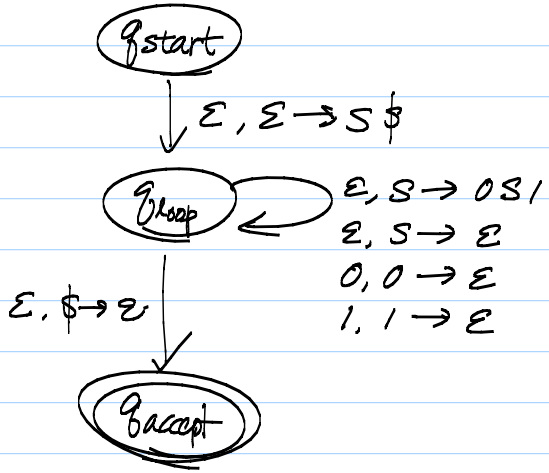
Every CFL is recognized by a PDA

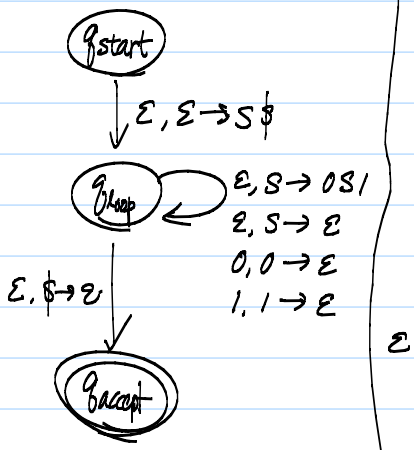
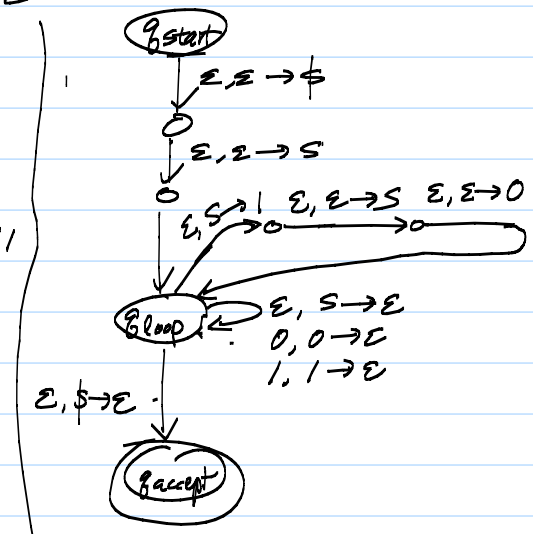


Example

$S \to 0S1 \mid \varepsilon$

0011 ?



Example

$S \rightarrow 0S1 \mid \varepsilon$