

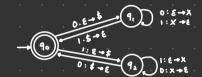
Context Free Languages 3 of 3

Definition: Deterministic PDA (DPDA)

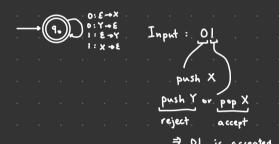
A PDA for which on every input, there's exactly one computation

Ex. (8.5, on pg. 253) (of a DPDA)

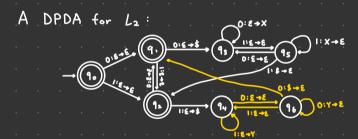
L, = { x & {0,1}* : # (x) = #, (x) }

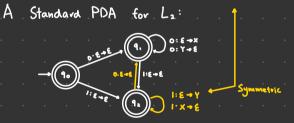


Ex 2 Of a non-deterministic/standard PDA for L,



Ex 3: L2 = {x + (0,1)* : #00(x) = #11(x)}





Theorem: The BIG Result Part 2

Let L be a language. Then:

L = J(G) for some CFG G iff L = J(M) for some PDA M

There are two variations of a PDA: Accept by - state / Accept by - stack / Two stack PDA