

Theorm: Alanguage is context Free if some

pushdown Automata recognizes d.

Proof! past1: given CFG1, Show how to construct PDA

That recognize d.

past2: given PDA, show how to construct CFG2

given granmes S-185 A

A-00A | C

B-> BB1 | 2

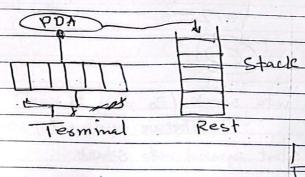
Find left most Desivablow

-> S-> BS-> BB15-> 2815-> 2218

-> 221A-> 2216-> 221

we can write general Fam: aaa Ba BC

Termal Rest

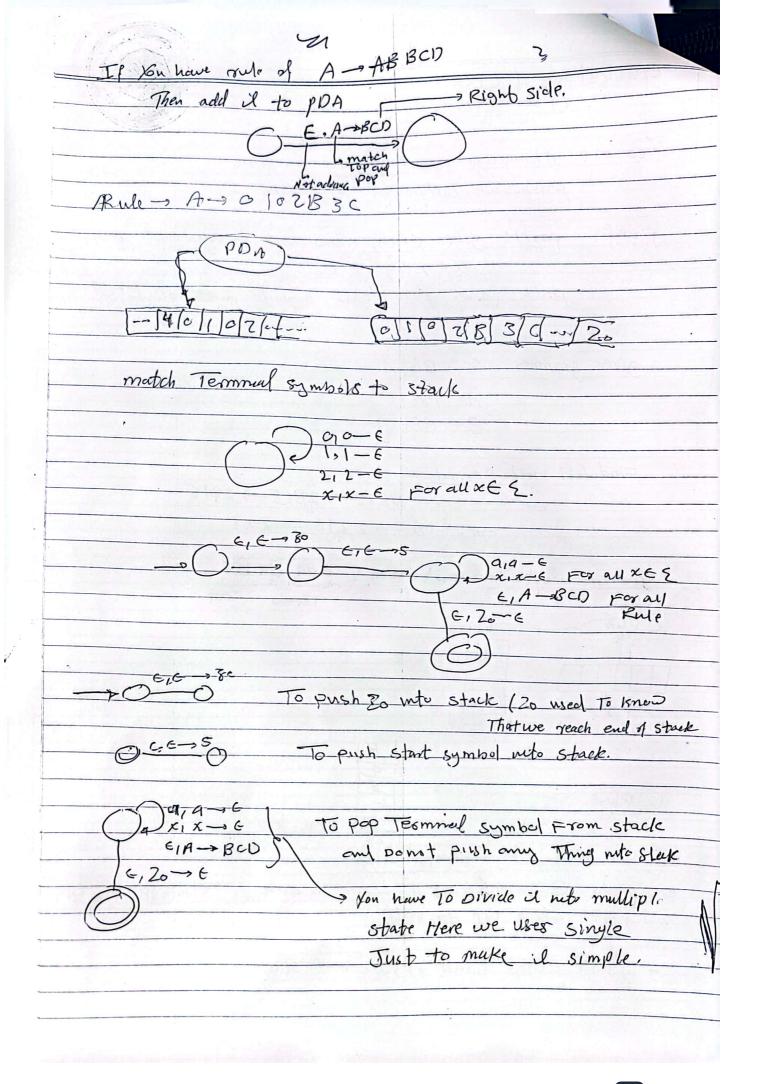


PDA C 20 Stack

ex Rule 13 - ASAXBA - a a a a a A SAXBATA SC match Stack Top to rule

- pop stack

- push Right hand of rule onto stack



Convert PDA to CFO given PDA - s construct/build CFGI by Following; Simplifed PDA 2) bulid CFG1.

