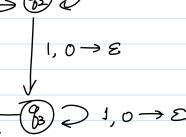
## 2.2 Pushdown Automata

10" 1" | n ≥0 }

- · How does a stack help to recognize the language
- · FA has only "finite" memory. stack is an unlimited memory

 $> (g_1)$   $\varepsilon, \varepsilon \rightarrow 0$ 

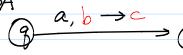


FA:



in State g, if a is read, then go to state g'

PDA

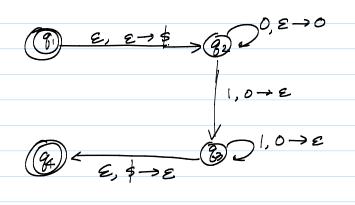


a, b > c in state q if a is read, then go to state q and replace b on top of the stack by c.

b=C=E : no change in stack

$$b=2$$
,  $C\in \Gamma$ : push

Example 2.1/



0011?