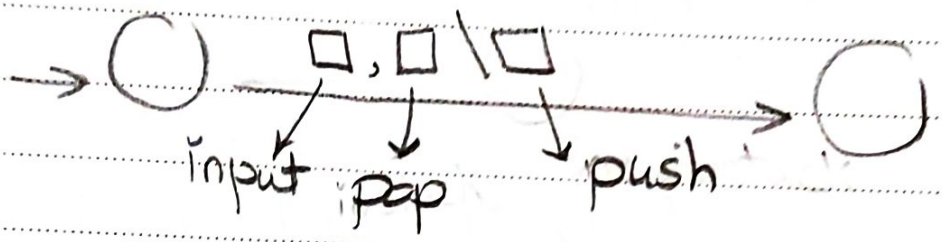
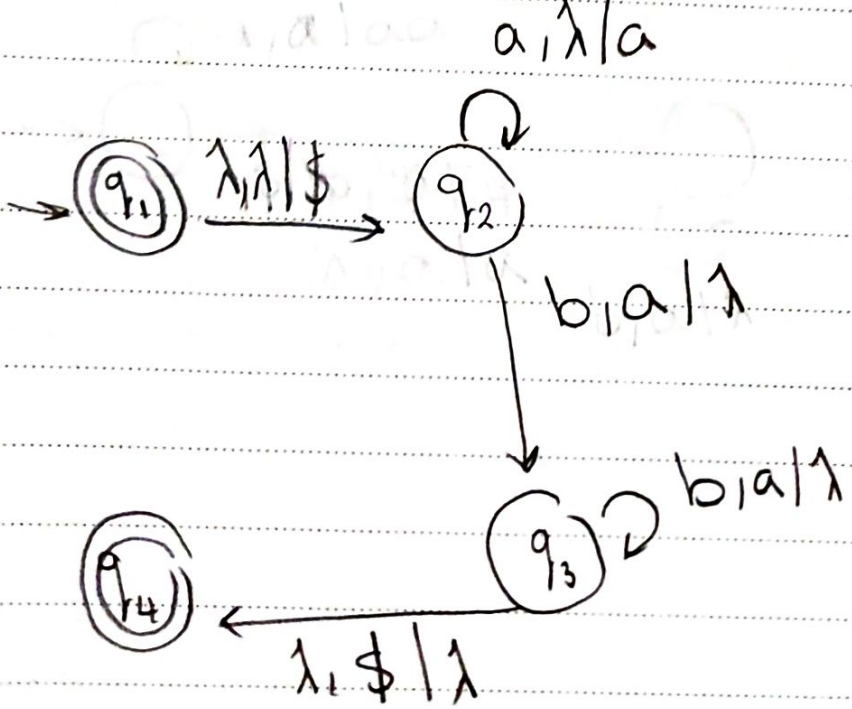
Theory section 6 - General.

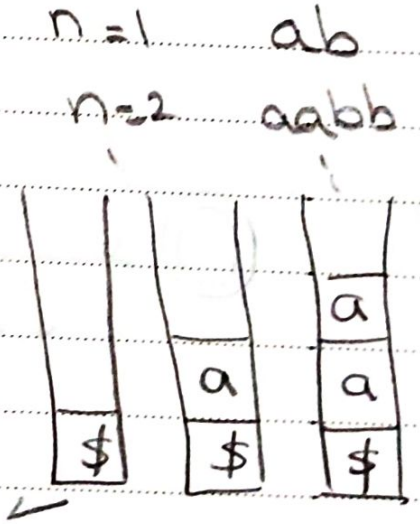
→ Non deterministic pushdown automaton is like an NFA, except it has a stack.
(Last-in - first-out)

→ in stack: $ → Means empty stack
ε, λ → Means No change

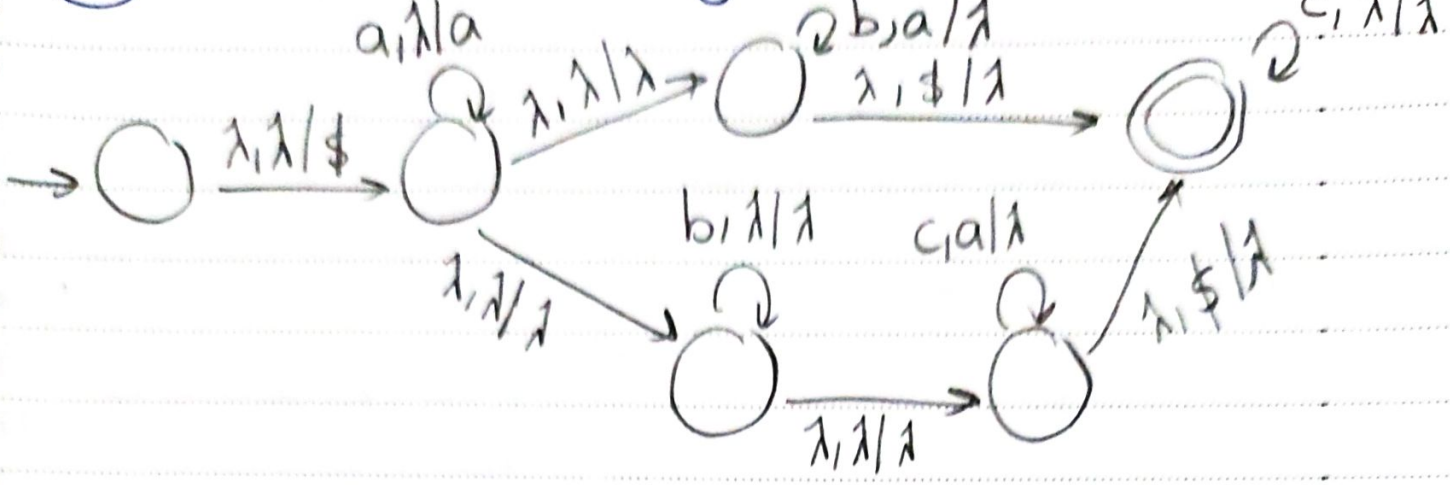


① $L = \{a^n b^n : n \geq 0\}$



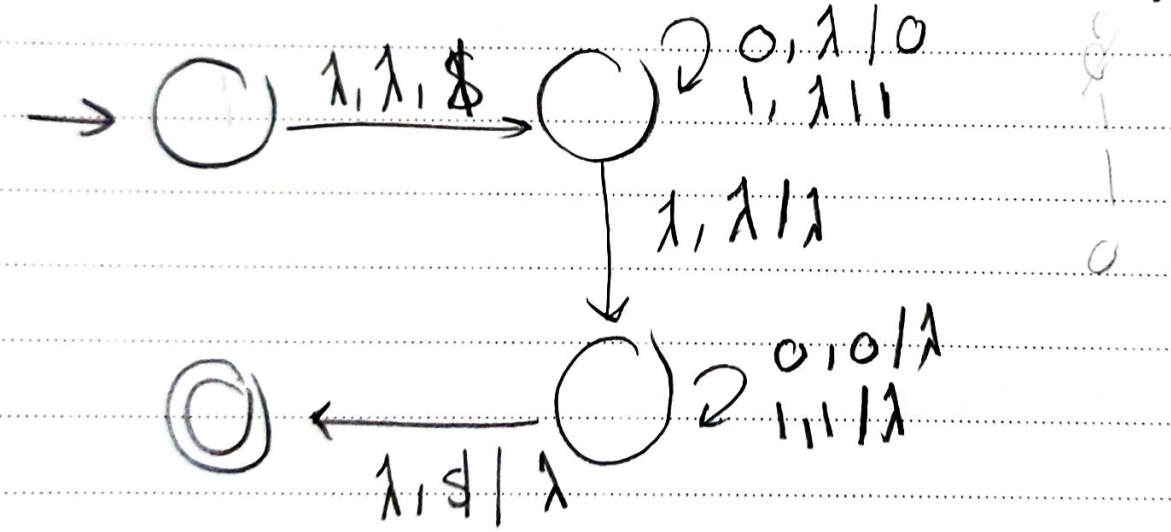


② $L = \{a^i b^j c^k \mid i=j \text{ or } i=k \text{ and } i,j,k \geq 0\}$

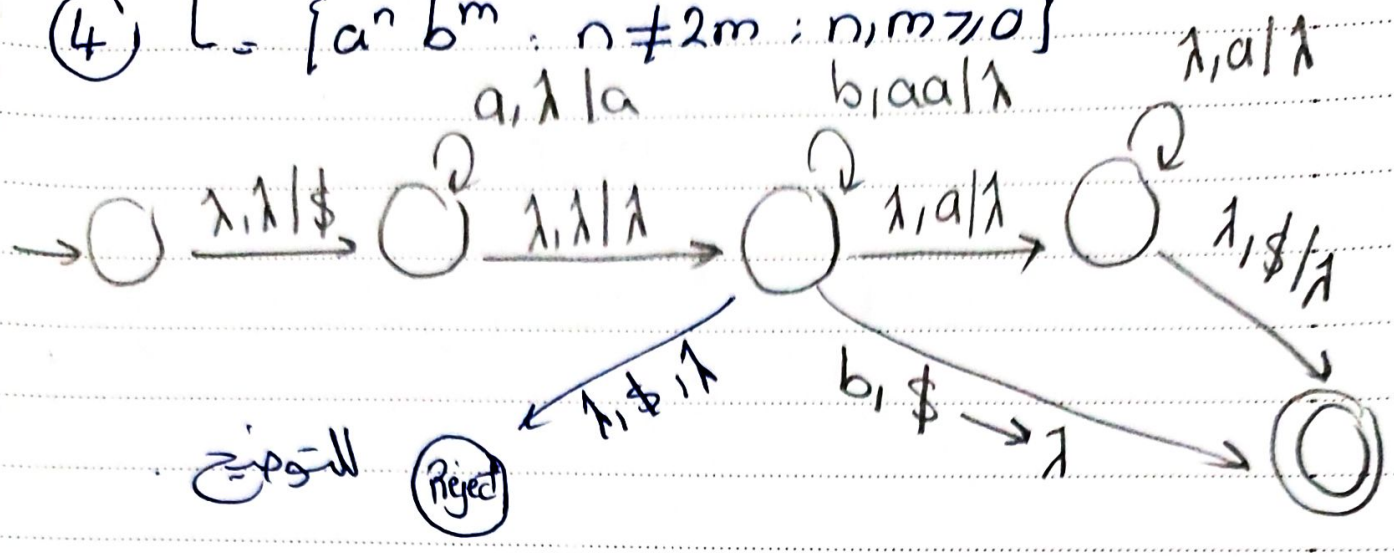


③ $L = \{ww^R \mid w \in \{0,1\}^*\}$

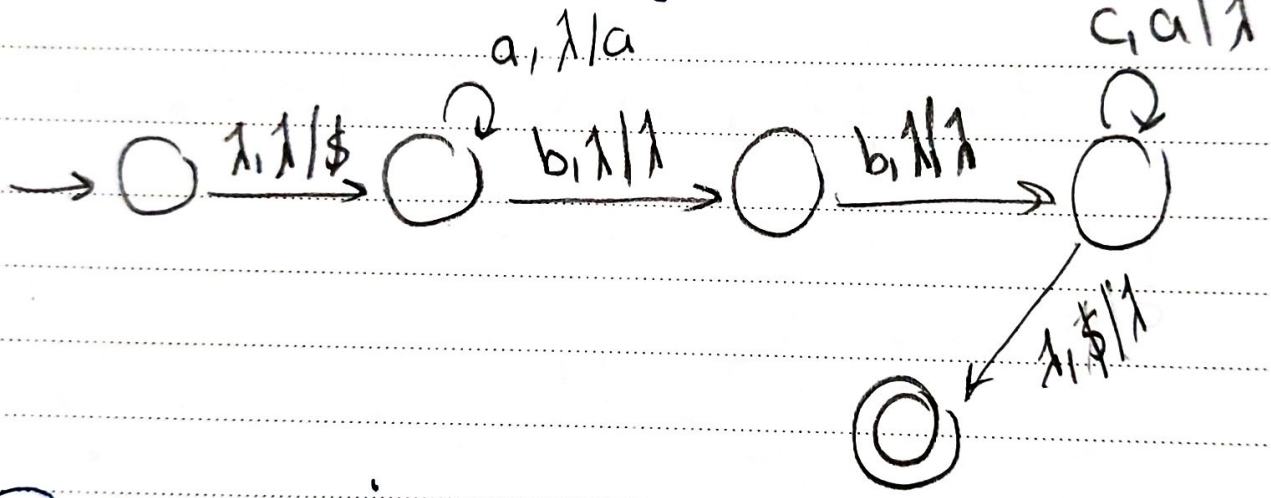
$\{0110, 1001, 01100110, \ldots\}$



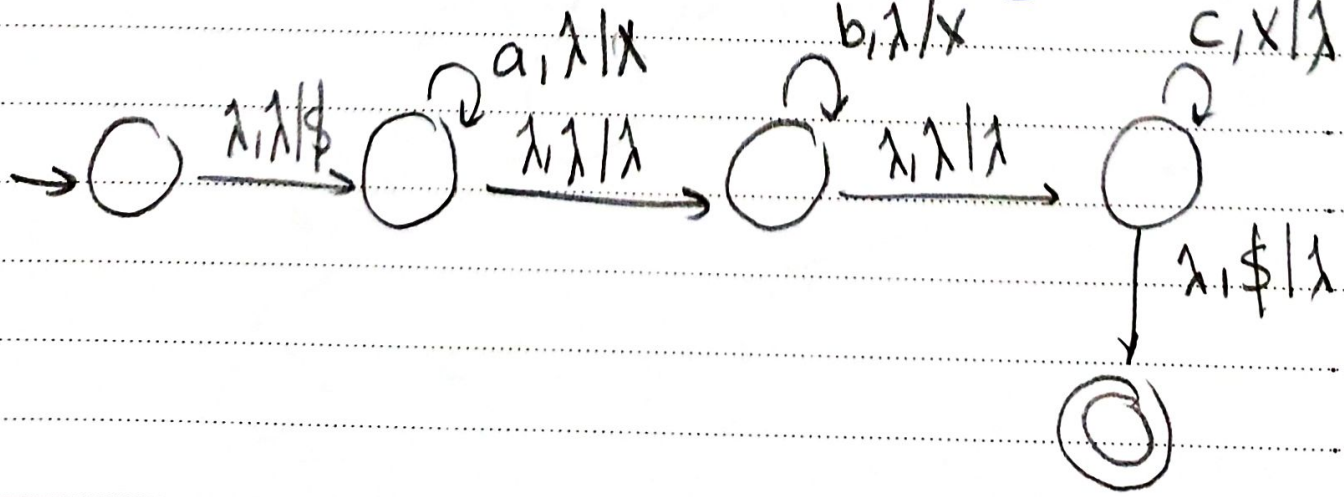
④ $L = \{a^n b^m : n \neq 2m ; n,m \geq 0\}$



⑤ $L = \{a^n bbc^n : n \geq 0\}$



⑥ $L = \{a^i b^j c^k \mid i,j,k \geq 0 \text{ and } i+j = k\}$



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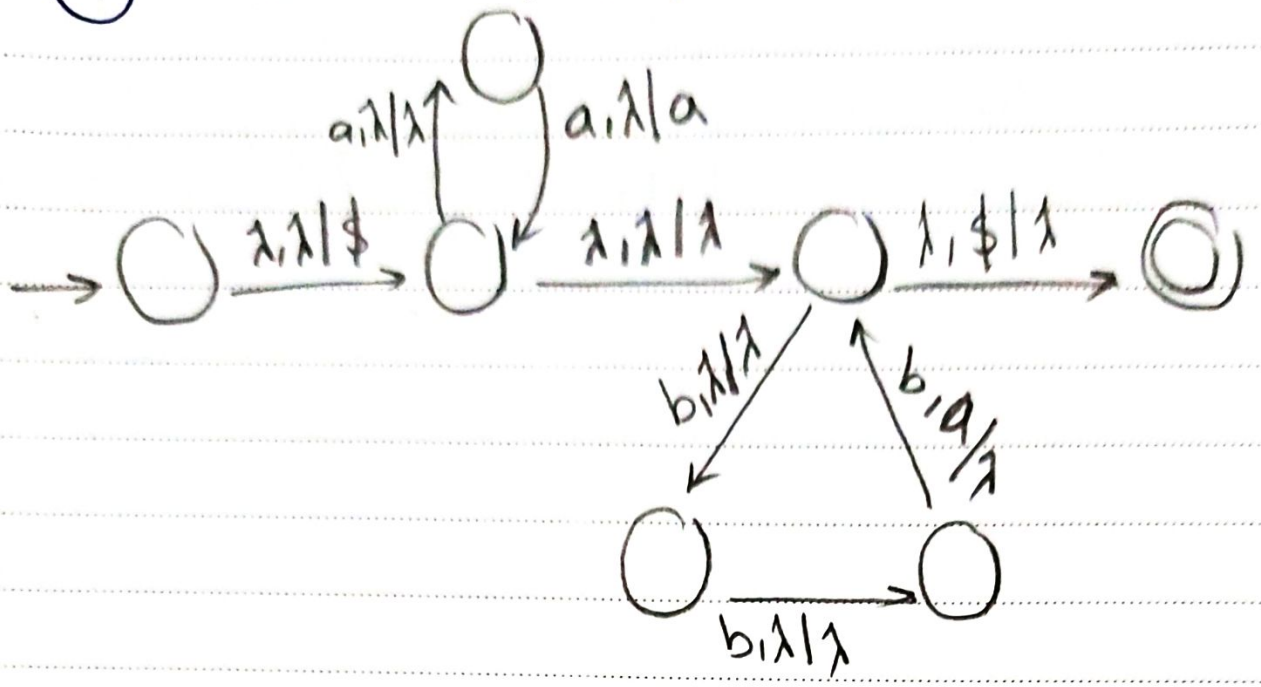
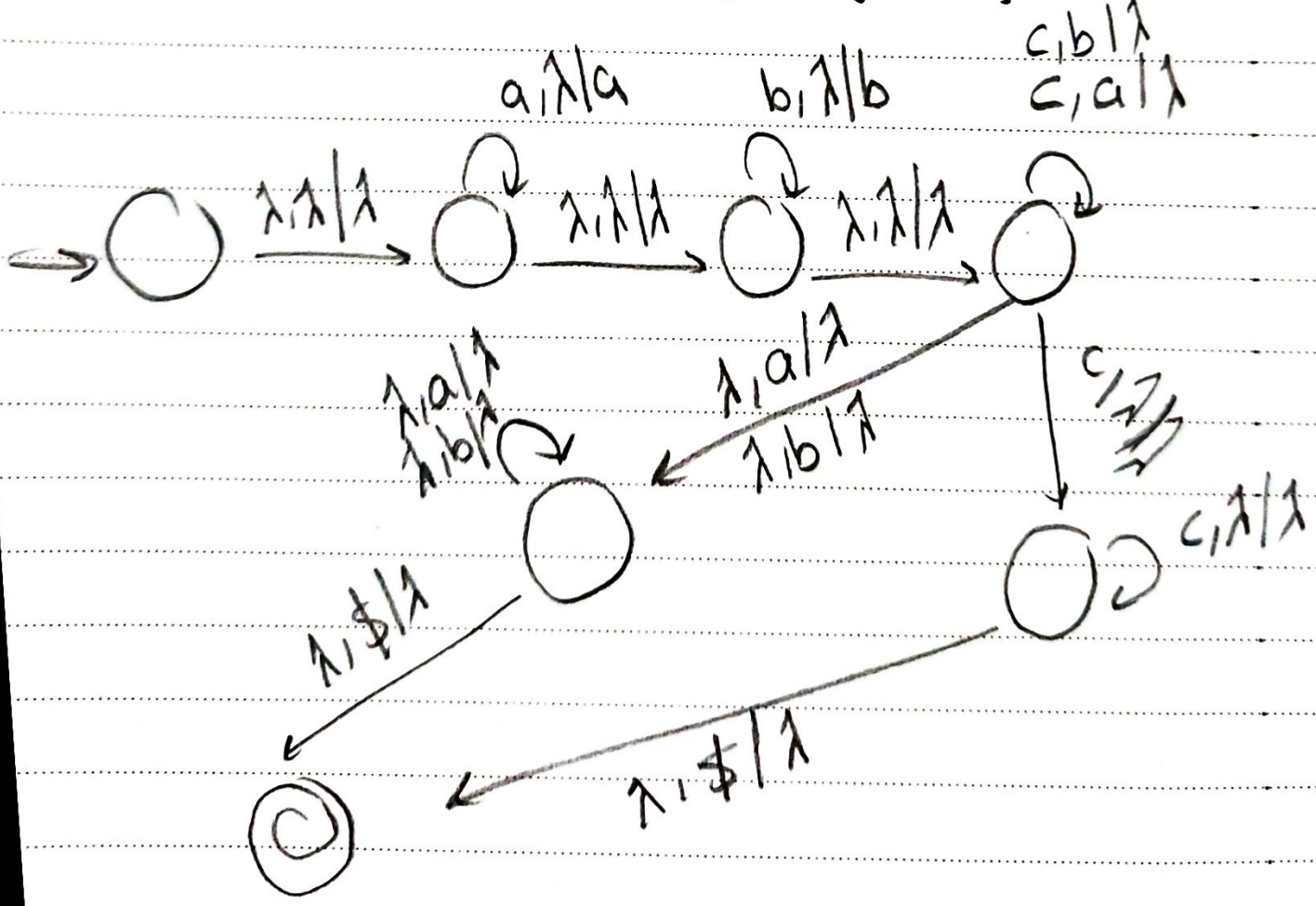
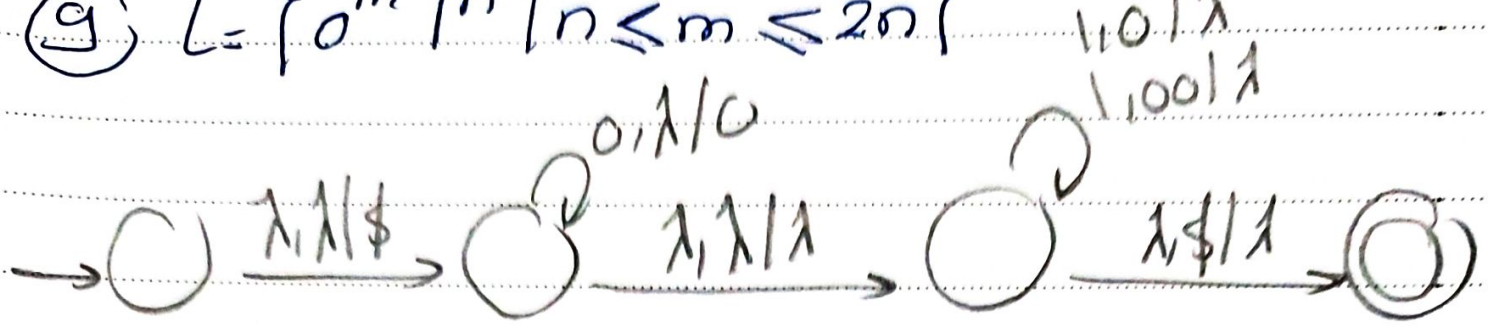
(7) $L = \{ a^{2n} b^{3n} \mid n \geq 0 \}$



(8) $L = \{ a^i b^j c^k : k \neq i+j \ , \ i,j,k \geq 0 \}$



(9) $L = \{0^m 1^n \mid n \leq m \leq 2n\}$