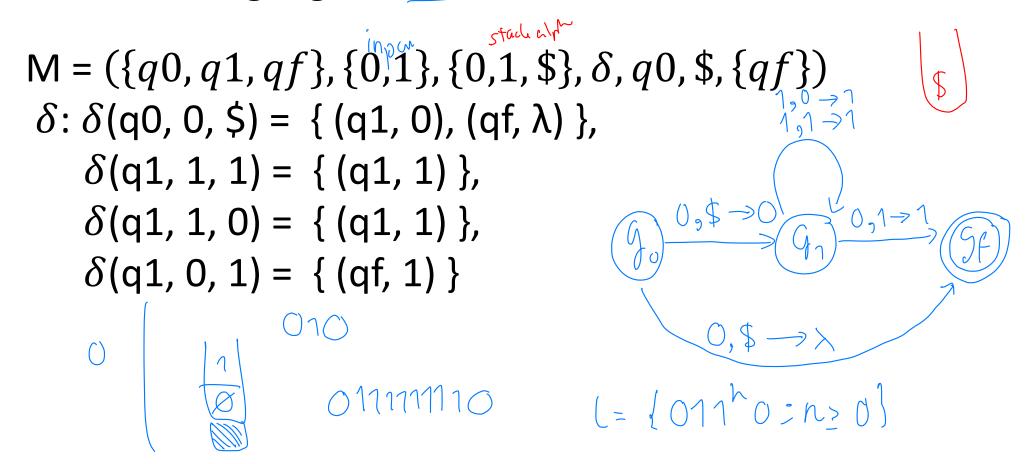
Theory of Computation

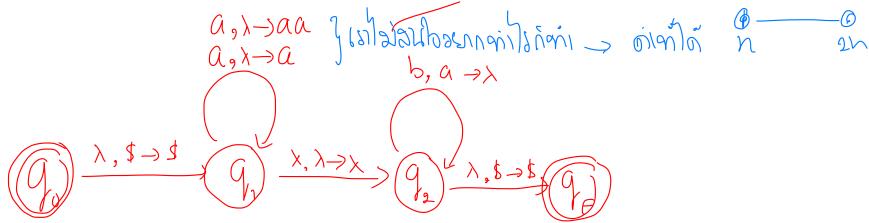
Exercise 11_12: (Pushdown Automata & Properties of CFL)

1. Find the language of NPDA M.



2. Find PDA for the language L2.

$$L2 = \{a^n b^m : n \le m \le 2n\}$$



*3. Prove that the language L is CFL by <u>using properties</u> (Submit 9) of CFL (DO NOT draw PDA or CFG).

L3 =
$$\{0^{i}1^{j}2^{k}: j=i+k\}$$