7.11

$ID(q_1, 0|0, Z_0)$

$\vdash ID(q_1, 10, Z_0)$

$\vdash ID(q_1, 0, Z_0)$ or $ID(q_2, 0, Z_0)$

$\vdash ID(q_1, \varepsilon, Z_0)$ or $ID(q_3, \varepsilon, 0Z_0)$

都不被接收

(2). $ID(q_1, 101, Z_0)$

$\vdash ID(q_1, 01, Z_0)$ or $ID(q_2, 01, Z_0)$

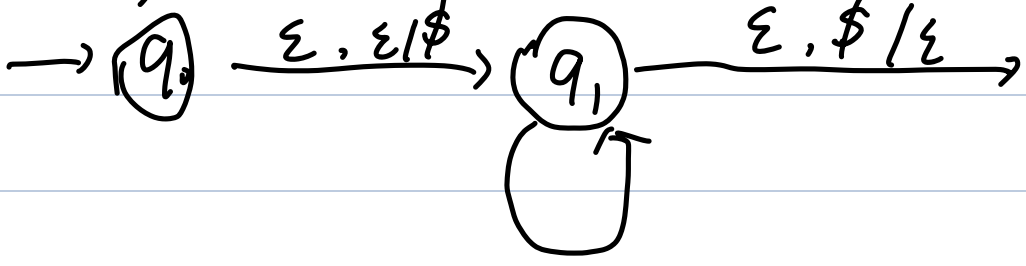
$\vdash ID(q_1, 1, Z_0)$ or $ID(q_3, 1, 0Z_0)$

$\vdash ID(q_1, \varepsilon, Z_0)$ or $ID(q_2, \varepsilon, Z_0)$

or $ID(q_4, \varepsilon, 0Z_0)$ or $ID(q_5, \varepsilon, 0Z_0)$

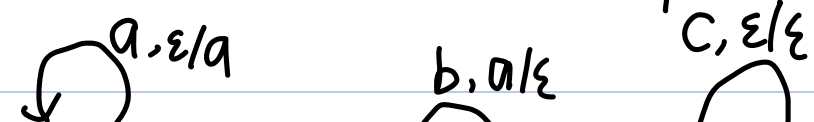
均不是成功路线

7.2 (a)

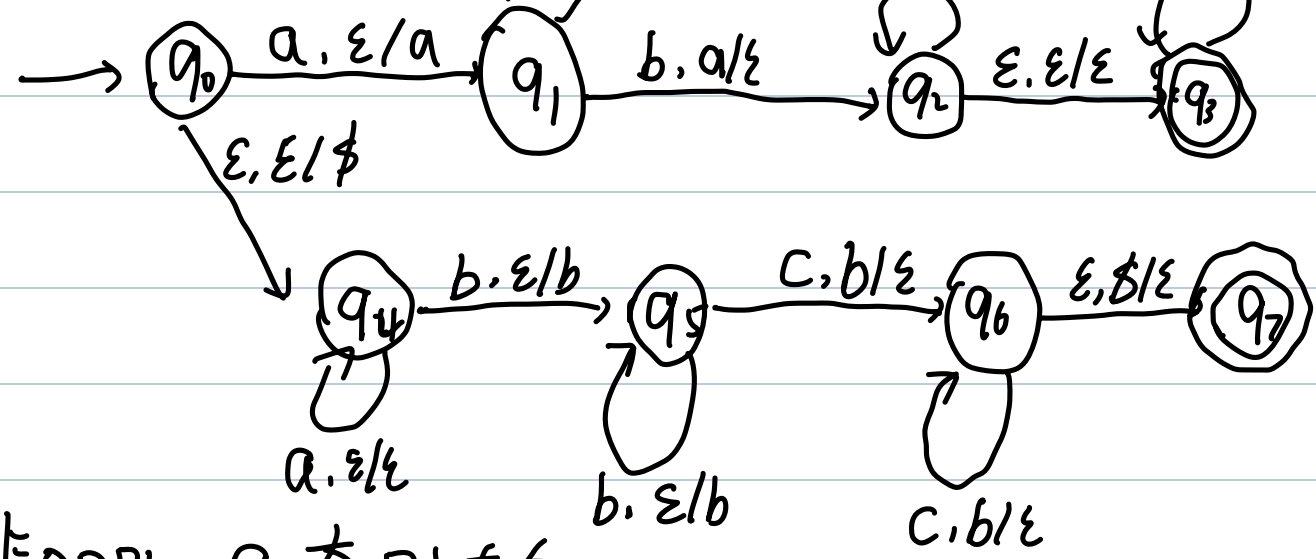


非 DPDA

$\begin{cases} 0, \varepsilon/0 \\ 0, 1/\varepsilon \end{cases}$ 当 $(q_1, 0, 1)$ 有两种以上后续选择

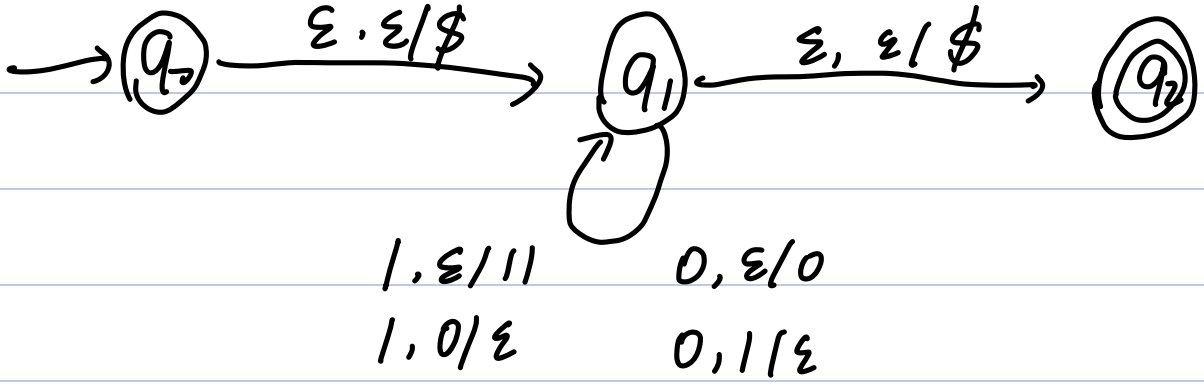


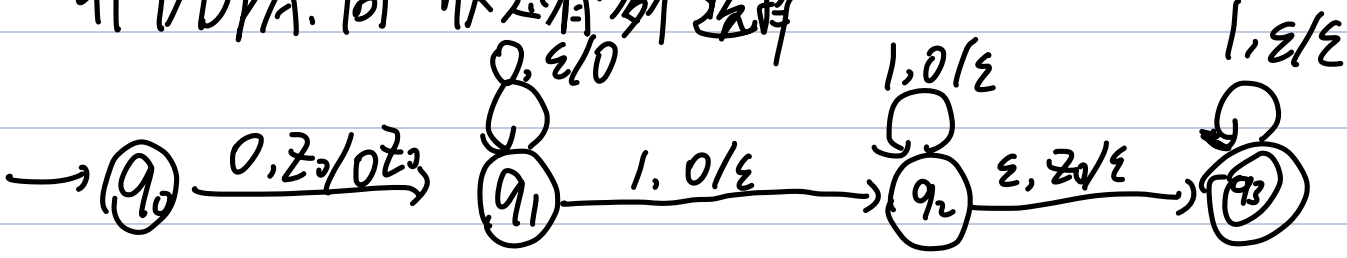
(b)



非DDPA，q_0态时有多种转移

(C)



非DDPA. 同一状态有多个选择

7.3