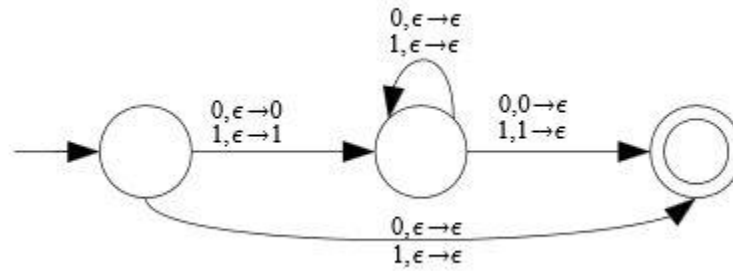
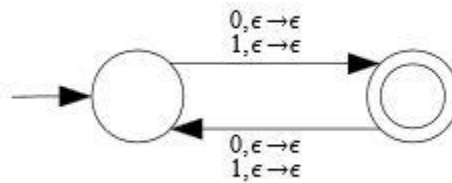


Selected Solutions to the PDA Problems Based on Section 2.2

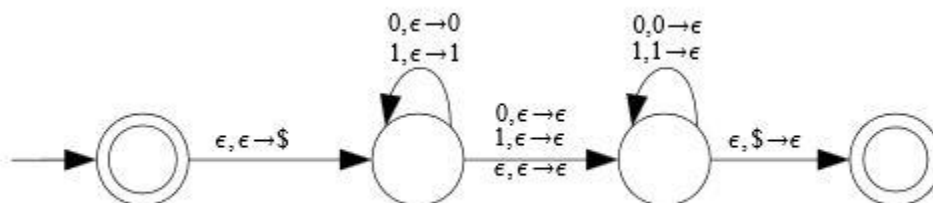
- 2.4(b) w starts and ends with the same symbol



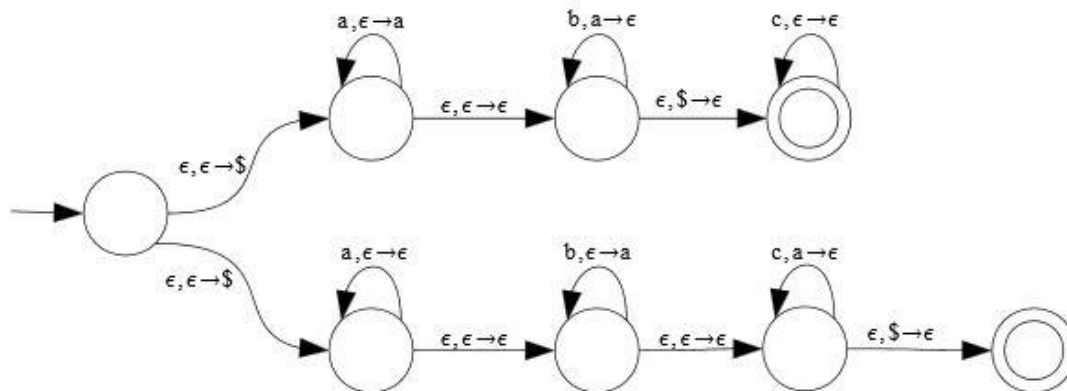
- 2.4 (c) the length of w is odd



- 2.4(e) $w = w^R$



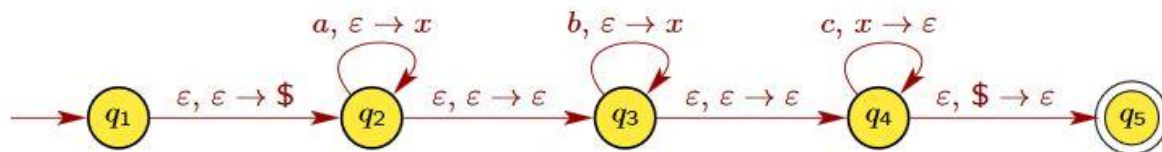
- 2.9 $A = \{a^i b^j c^k \mid i = j \text{ or } j = k \text{ where } i, j, k \geq 0\}$



- Problem shown in the picture.

(e) $E = \{a^i b^j c^k \mid i, j, k \geq 0 \text{ and } i + j = k\}$

Answer:



- Problem shown in the picture.

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

Answer:

