

$$q_0 = \epsilon$$

$$q_1 = q_0 \epsilon = q_0 = \epsilon$$

$$q_2 = 0 q_1 = \epsilon 0 = 0$$

$$q_3 = q_0 \epsilon = q_0 = \epsilon$$

$$q_4 = q_3 \epsilon = q_3 = \epsilon$$

$$q_5 = q_2 \epsilon + q_4 \epsilon = q_2 + q_4 = 0 + \epsilon$$

$$q_6 = q_5 \epsilon = (0 + \epsilon) \epsilon = 0 + \epsilon$$

$$q_7 = q_6 \epsilon = (0 + \epsilon) \epsilon = 0 + \epsilon$$

$$q_8 = 1 q_7 = (0 + \epsilon) 1 = 0 + 1$$

$$q_9 = \epsilon q_8 = (0 + \epsilon) \epsilon = 0 + \epsilon$$

$$q_{10} = \epsilon q_9 = (0 + \epsilon) \epsilon = 0 + \epsilon$$

$$q_{11} = \epsilon q_8 + \epsilon q_{10} = (0 + 1) \epsilon + (0 + \epsilon) \epsilon = (0 + 1) + (0 + \epsilon)$$

$$q_{12} = \epsilon q_{11} = \epsilon (0 + 1) = 0 + \epsilon$$

$$q_{13} = \epsilon q_{12} = \epsilon (0 + \epsilon) = 0 + \epsilon$$

$$q_{14} = \epsilon q_{11} + \epsilon q_{13} = \epsilon ((0 + 1) + (0 + \epsilon)) + \epsilon (0 + \epsilon) = ((0 + 1) + (0 + \epsilon)) + (0 + \epsilon)$$

$$q_{15} = \epsilon q_{14} + \epsilon q_{16}$$

$$q_{16} = 0 q_{15} = 0 (\epsilon q_{14} + \epsilon q_{16}) = 0 \epsilon q_{14} + 0 \epsilon q_{16}$$

$$\underbrace{q_{16}}_R = \underbrace{0 \epsilon q_{14}}_Q + \underbrace{0 \epsilon q_{16}}_P \quad R = Q P^* \quad q_{16} = 0 \epsilon q_{14} (0 \epsilon)^* = 0 q_{14} (0)^*$$

$$q_{16} = 0(((0 + 1) + (0 + \epsilon)) + (0 + \epsilon)) (0)^*$$

$$q_{17} = \epsilon q_{16} + \epsilon q_{14} \epsilon (((0 + 1) + (0 + \epsilon)) + (0 + \epsilon)) + \epsilon (0(((0 + 1) + (0 + \epsilon)) + (0 + \epsilon))) (0)^*$$

$$q_{17} = (0 + 1 + 0 + \epsilon + 0 + \epsilon) + (0(((0 + 1) + 0 + \epsilon + 0 + \epsilon)) (0)^*)$$