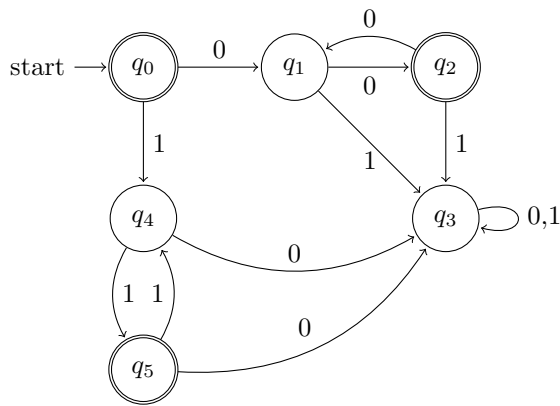
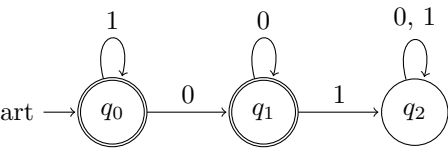


COMP 3602 Assignment 1

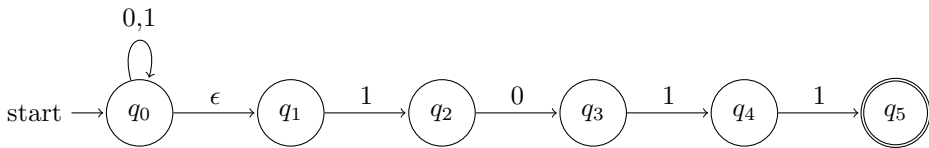
Question 1a)



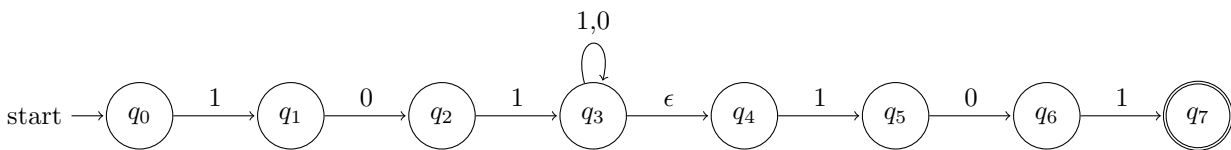
Question 1b)



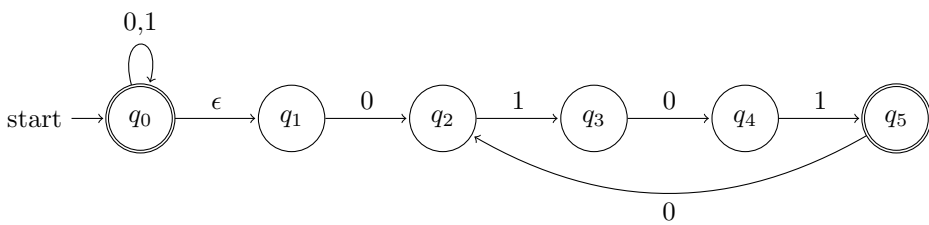
Question 2a)



Question 2b)



Question 2c)



Question 3)

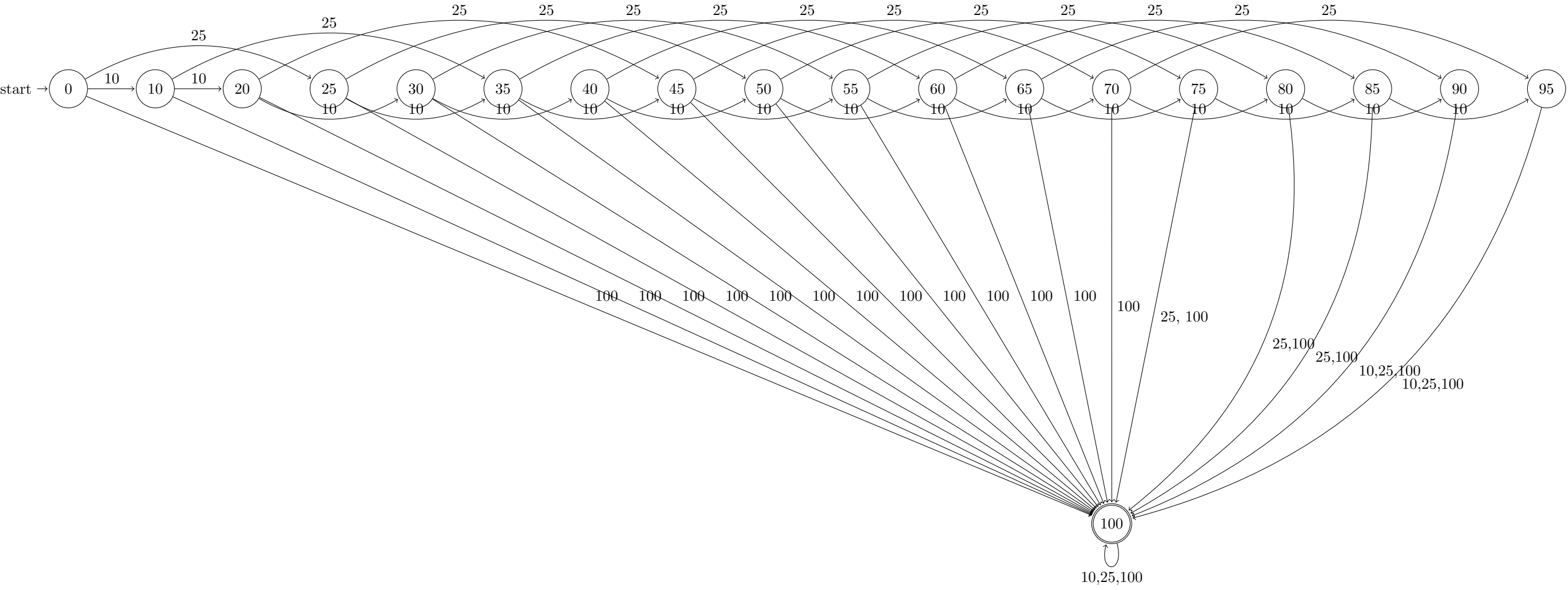
$M = (\{q_0, q_1, q_2, q_3, q_4, q_5\}, \{0, 1\}, \delta, q_0, \{q_0, q_2, q_4\})$
where δ is

	0	1
q0	q1	q4
q1	q2	q3
q2	q1	q3
q3	q3	q3
q4	q3	q5
q5	q3	q4

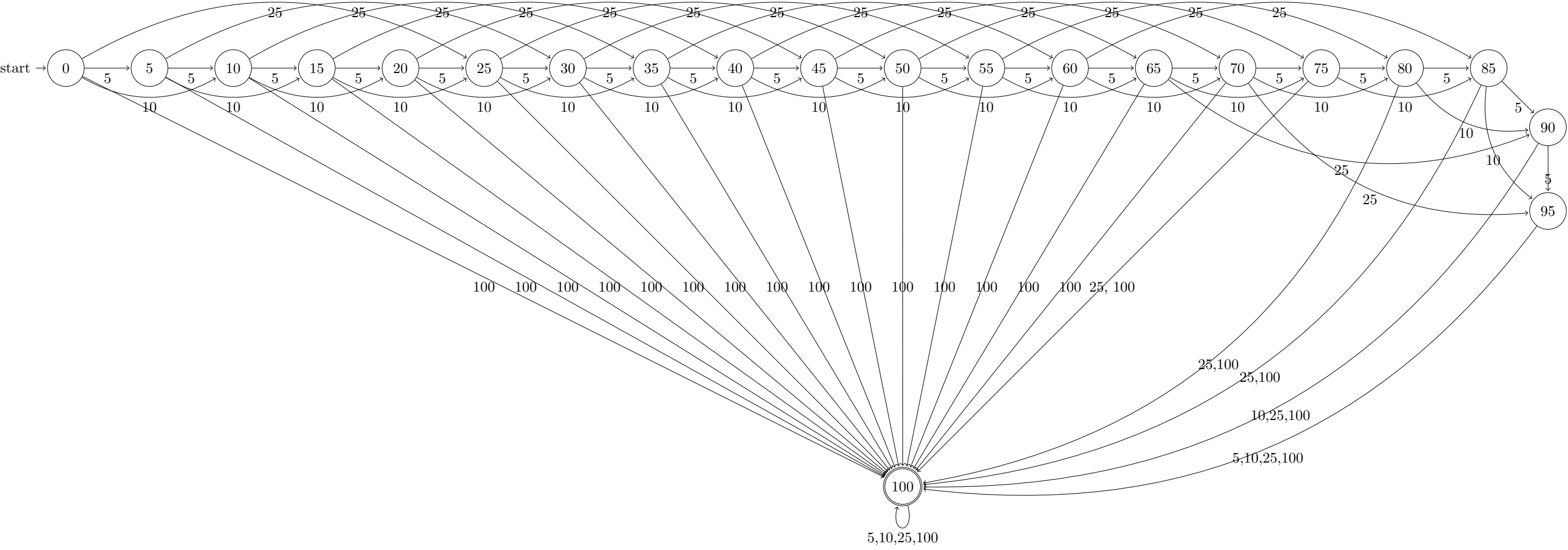
Question 4)

$M = (\{q_0, q_1, q_2, q_3, q_4, q_5, q_6, q_7\}, \{0, 1\}, \delta, q_0, \{q_7\})$
where δ is

	0	1	ϵ
q0	\emptyset	q1	\emptyset
q1	q2	\emptyset	\emptyset
q2	\emptyset	q3	\emptyset
q3	q3	q3	q4
q4	\emptyset	q5	\emptyset
q5	q6	\emptyset	\emptyset
q6	\emptyset	q7	\emptyset
q7	\emptyset	\emptyset	\emptyset



Question 5 (with 5c pieces)



Question 6)

