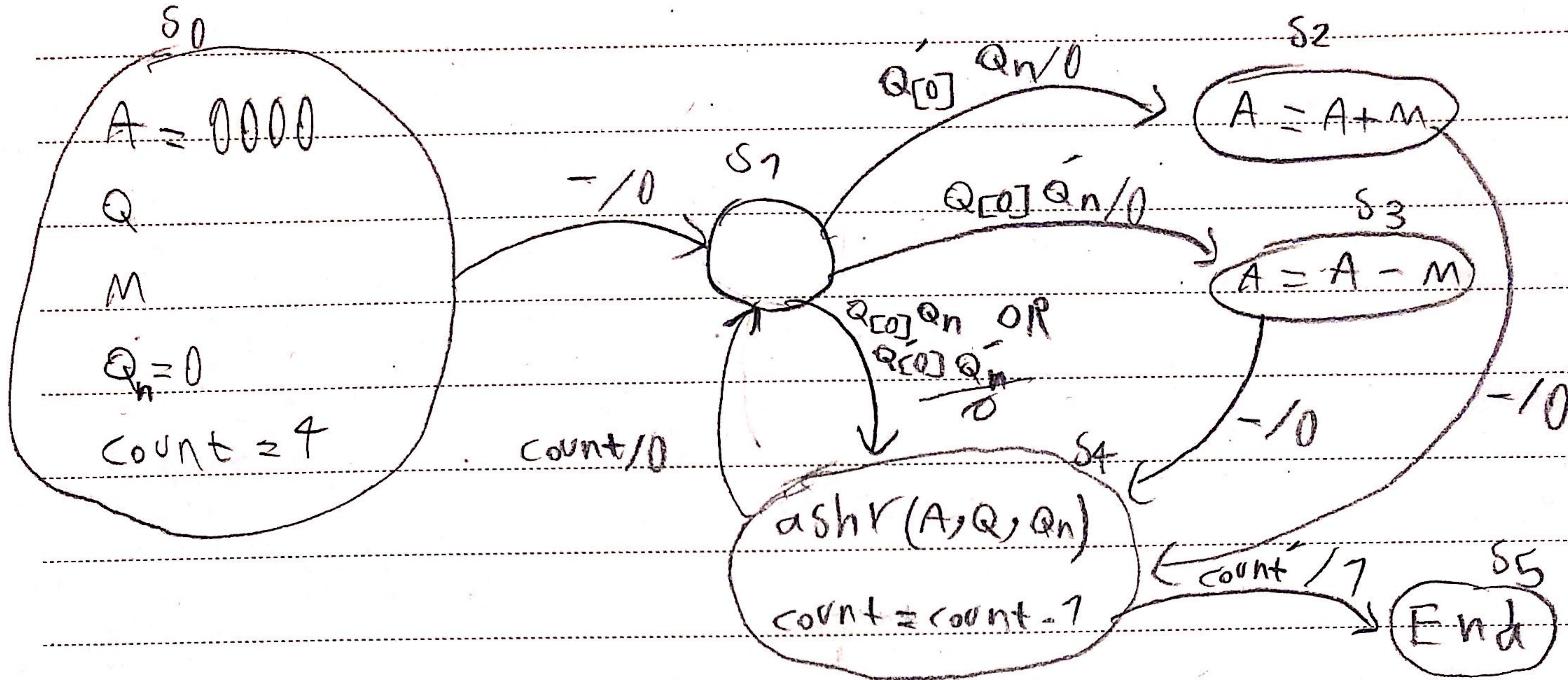


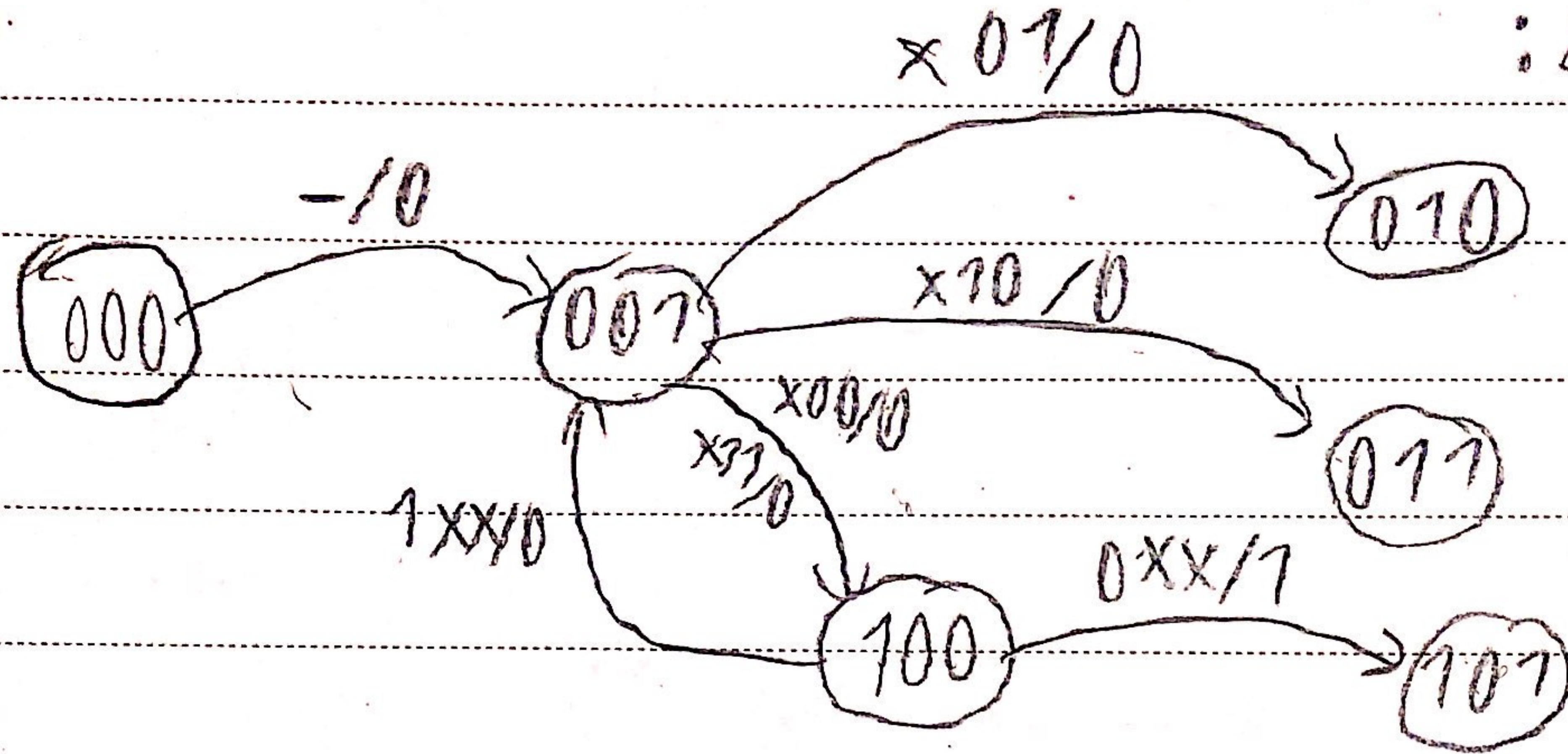
Subject: _____
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حالت های FSM به صورت زیر است:



ورودی به صورت یک عدد دودویی در نظر گرفته شده که به صورت زیر نمایش داده شده:

$(Count, Q[0], Q[n])$

S_2	S_1	S_0	$Q_{[0]}$	Q_n	count(c)	S_2^+	S_1^+	S_0^+	out Put
0	0	0	X	X	X	0	0	1	0
0	0	1	0	0	X	1	0	0	0
0	0	1	0	1	X	0	1	0	0
0	0	1	1	0	X	0	1	1	0
0	0	1	1	1	X	1	0	0	0
0	1	0	X	X	X	1	0	0	0
0	1	1	X	X	X	1	0	0	0
1	0	0	X	X	0	1	0	1	1
1	0	0	X	X	1	0	0	1	0
1	0	1	X	X	X				

J_2	K_2	J_1	K_1	J_0	K_0
0	X	0	X	1	X
1	X	0	X	X	1
0	X	1	X	X	1
0	X	1	X	X	0
1	X	0	X	X	1
1	X	X	1	0	X
1	X	X	1	X	1
X	0	0	X	1	X
X	1	0	X	1	X
-	-	-	-	-	-

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s_2

0

1

$s_1 s_0$

Q_n 00 01 11 10

00				
01				
11				
10		1		

00 01 11 10

00	1			
01	1			
11	1			
10	1	1		

00 01 11 10

00				
01				
11				
10		1		

00 01 11 10

00	1			
01	1			
11	1			
10	1	1		

$$s_0^+ = s_2 \overline{s_1} \overline{s_0} + s_2 \overline{s_1} s_0 Q_{[0]} \overline{Q_n} + \overline{s_2} \overline{s_1} s_0 Q_{[0]} \overline{Q_n}$$

$$\approx s_2 \overline{s_1} \overline{s_0} + \overline{s_1} s_0 Q_{[0]} \overline{Q_n}$$

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		0				1			
		00	01	11	10	00	01	11	10
C	00								
	01		1						
	11								
	10		1						

		0				1			
		00	01	11	10	00	01	11	10
0	00								
	01		1						
	11								
	10		1						

$$S_1^+ = \overline{S_2} \overline{S_1} S_0 \overline{Q_0} Q_n + \overline{S_2} \overline{S_1} S_0 Q_0 \overline{Q_n}$$

		0				1			
		00	01	11	10	00	01	11	10
C	00		1	1	1	1			
	01			1	1	1			
	11		1	1	1	1			
	10			1	1	1			

		0				1			
		00	01	11	10	00	01	11	10
1	00		1	1	1				
	01			1	1				
	11		1	1	1				
	10			1	1				

$$S_2^+ = \overline{S_2} S_1 + \overline{S_2} \overline{S_1} S_0 \overline{Q_0} \overline{Q_n} + \overline{S_2} \overline{S_1} S_0 Q_0 Q_n + S_2 \overline{S_1} \overline{S_0} \overline{C}$$