

#1

a)

Input	0	1	1	0	1	1	0	1	0	
State	S_0	S_0	S_3	S_4	S_1	S_4	S_2	S_2	S_1	S_0
Output	0	0	0	1	1	1	1	1	1	0

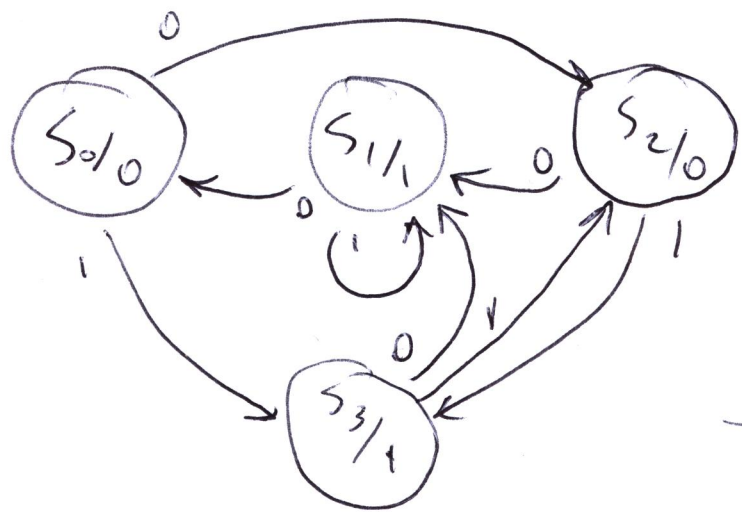
b.

Input	a	b	c	c	a	a	b	
State	S_0	S_2	S_0	S_3	S_0	S_2	S_2	S_0
Output	a	a	a	c	a	a	a	a

c.

Input	0	1	0	0	1	1	0	
State	S_0	S_1	S_3	S_1	S_2	S_3	S_3	S_1
Output	0	0	1	0	0	1	1	0

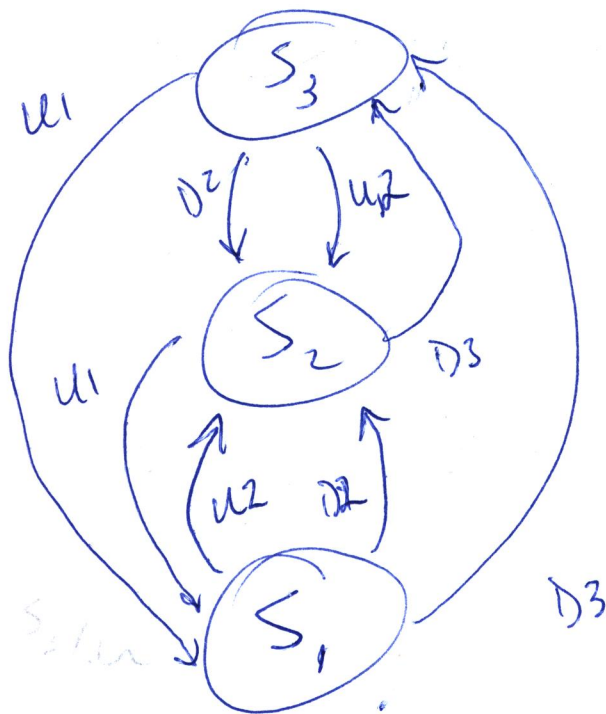
#8



Input	0	0	1	1	
State	S_0	S_2	S_1	S_1	S_1
Out	0	0	1	1	1

#20

Legal inputs : u_1, u_2, D_2, D_3



In France
the ground
floor is 0,
so S_0 makes

sense. But

Here I'd label my
states this way! 😊