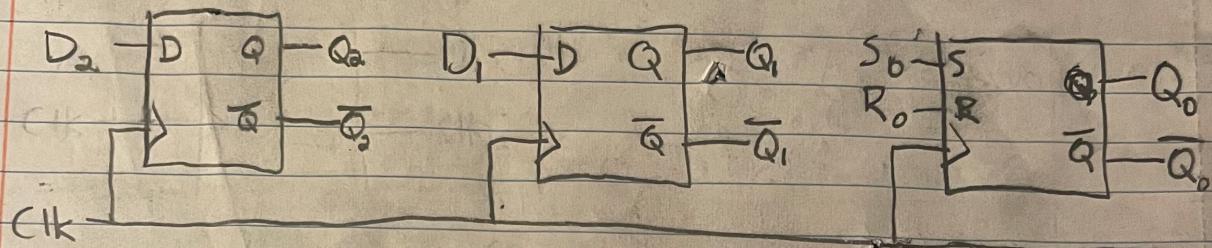


PROBLEM 2: COUNTERS (CONTINUED)

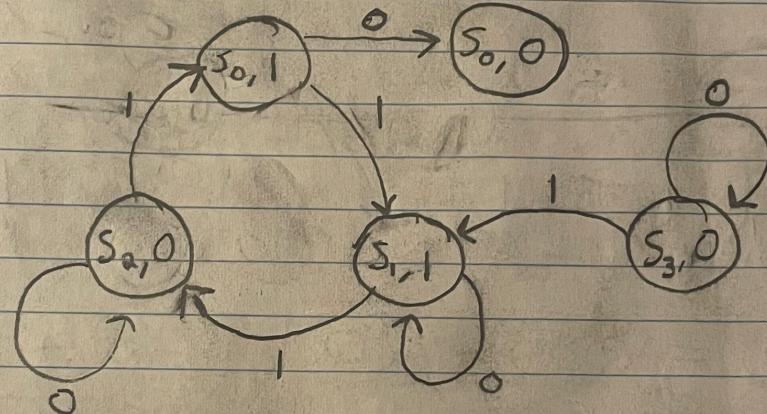


PROBLEM 3 (AUTONOMA + CONTROL)

$$\Sigma = \{0, 1\}$$

$$\Delta = \{0, 1\}$$

$$a_0 \Rightarrow$$



b.	Present State	X = 0 x = 1	Next State	Present output
S ₀	S ₀	S ₁	S ₀	0 1 1
S ₁	S ₁	S ₂	S ₁	1
S ₂	S ₂	S ₀	S ₂	0
S ₃	S ₃	S ₁	S ₃	0