

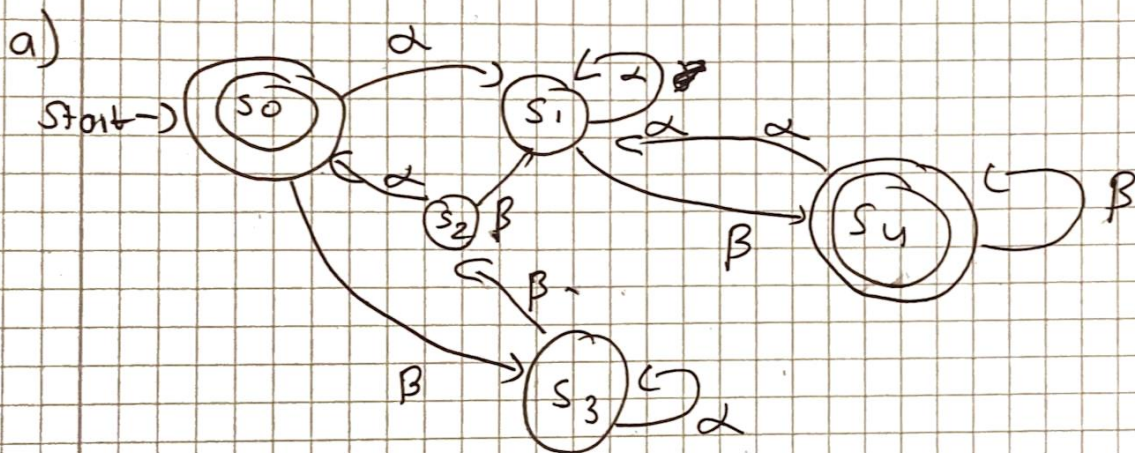
# Assignment Sheet 1

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## Exercise 1



b)  $M_2 = (\{P, Q, R, S, T\}, \{a, b\}, \delta, P, \{S, R\})$

where  $\delta$  is

	a	b
P	Q	S
Q	R	S
R	T	R
S	T	R
T	T	P



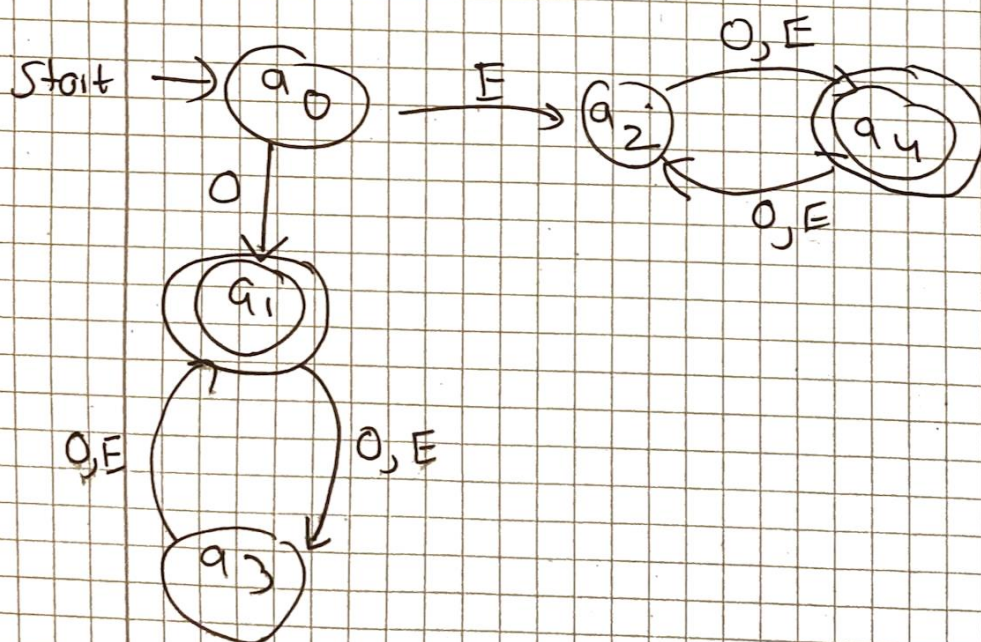
## Exercise 2

$$L(M_1) = \{ \text{string} \}$$

a)  $L(M_1) = \{ w \text{ string over } \{0,1\} \mid \text{String contains at least 3 ones} \}$

b)  $L(M_2) = \{ w \text{ string over } \{0,1\} \mid \text{String ~~can~~ starting with 1 and having odd number of 0's} \}$

## Exercise 3





# Exercise 4

