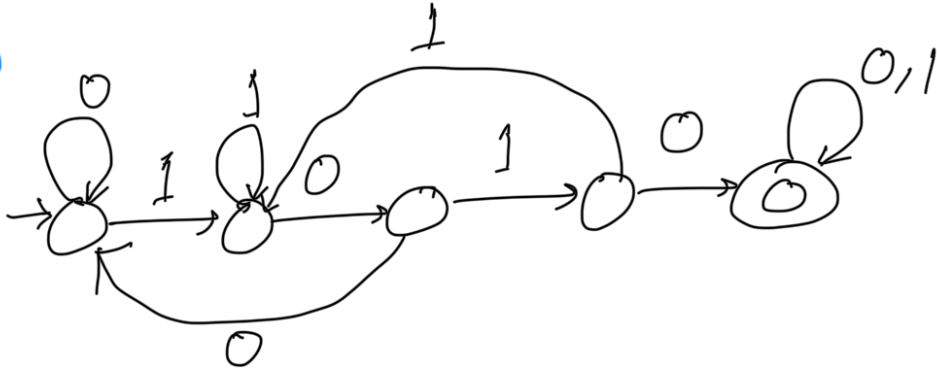


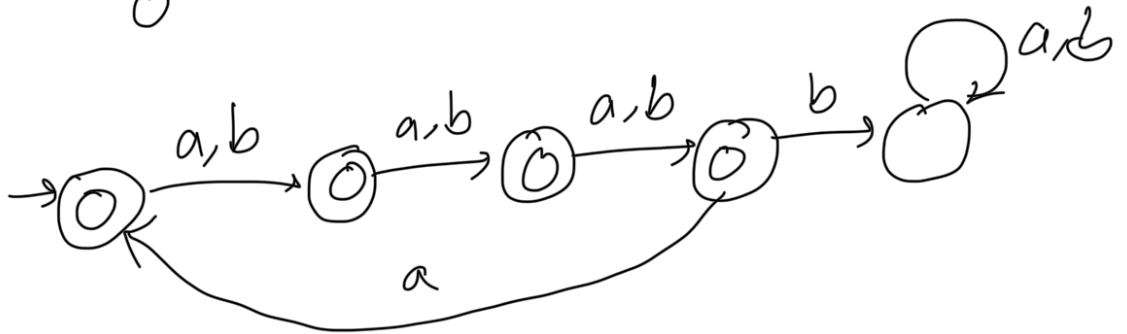
# Assignment 1: Solutions

1.

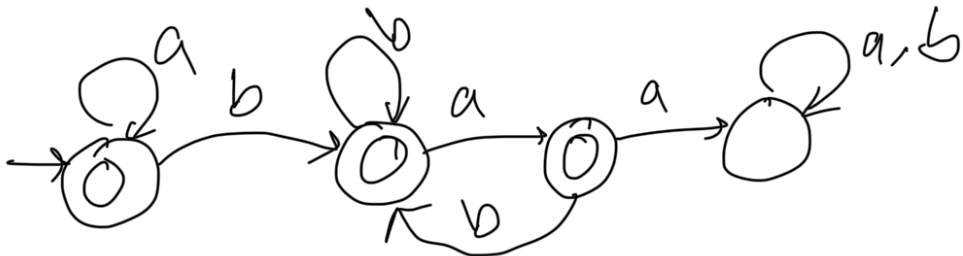
a)



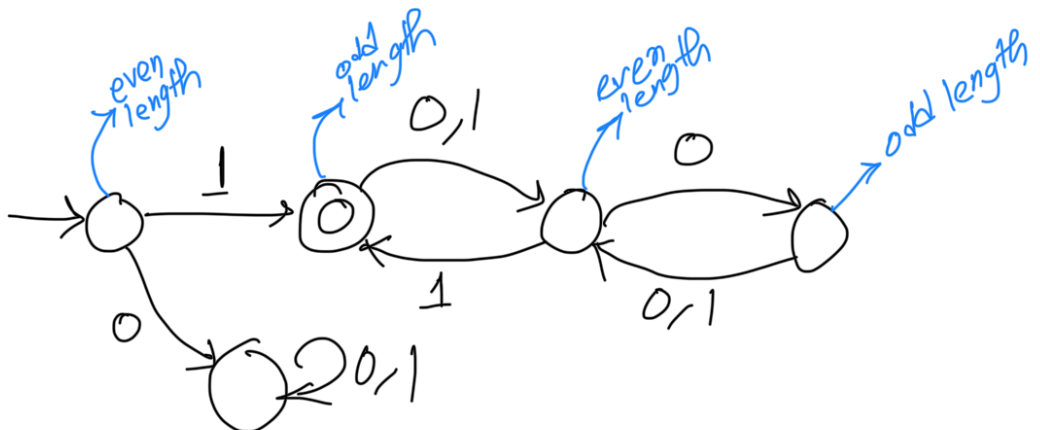
b)



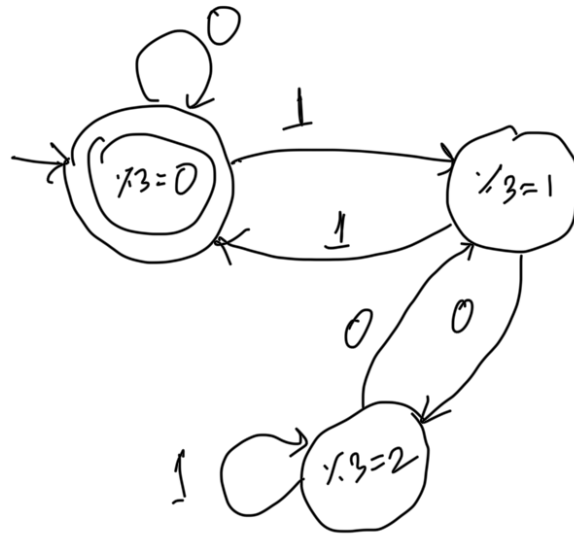
c)



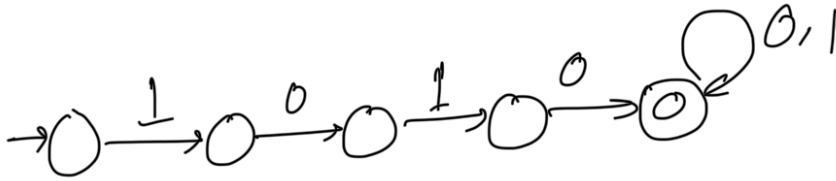
d)



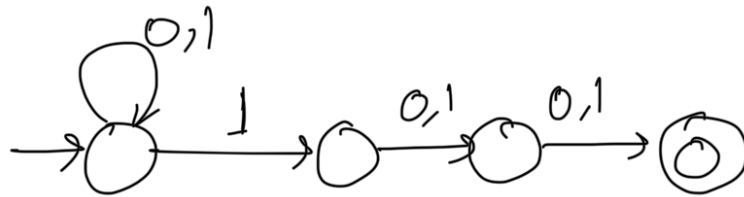
e)



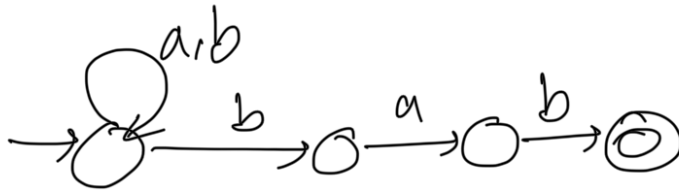
2. a)



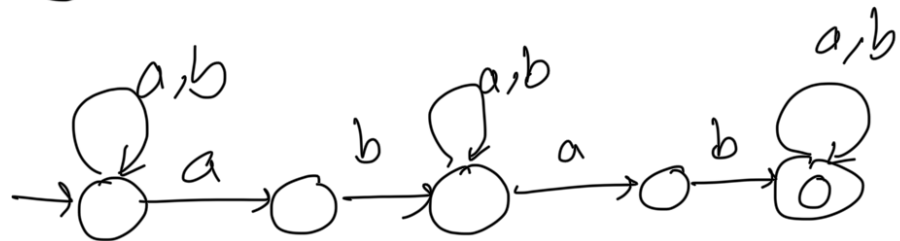
b)



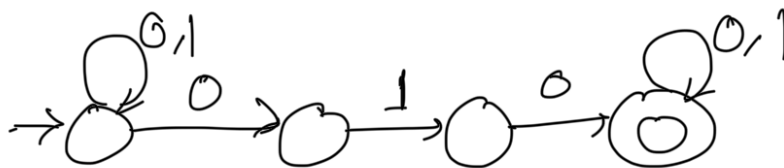
c)



d)



e)



3. a)  $((0+1)(0+1))^*$

b)  $a(a+b)((a+b)(a+b))^*a + b(a+b)((a+b)(a+b))^*b$   
 $+ a + b$

c)  $1^*0^*011^*0^*$

d)  $a^*(baaa^*)^*$