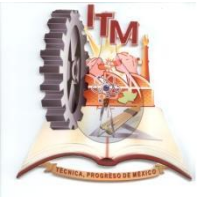


INSTITUTO TECNOLÓGICO DE MORELIA

INGENIERÍA EN SISTEMAS COMPUTACIONALES

Lenguajes y Automatas I

Tarea 4.5

PRESENTA:

Murillo Rentería Miguel Ángel - 22121356

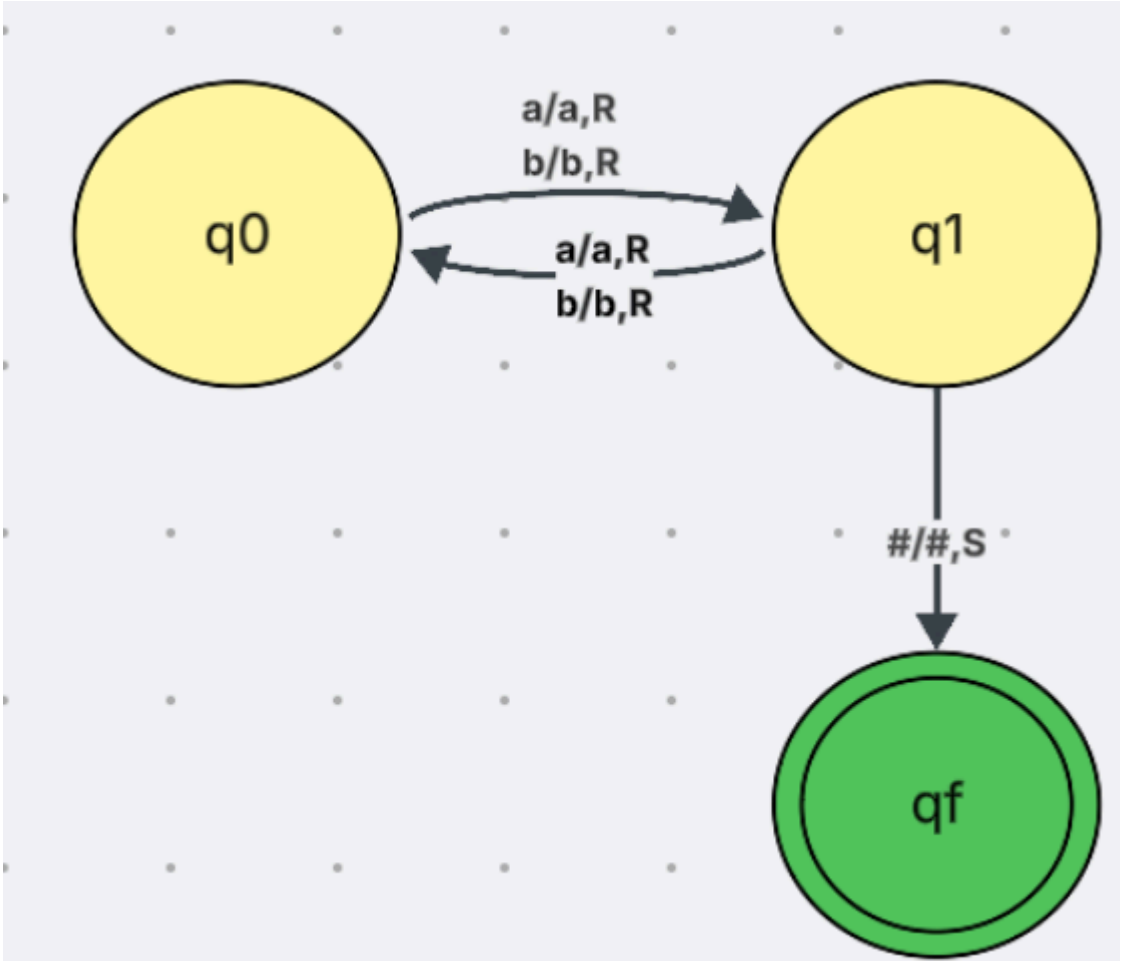
DOCENTE:

Jorge Eduardo Carrión Viramontes

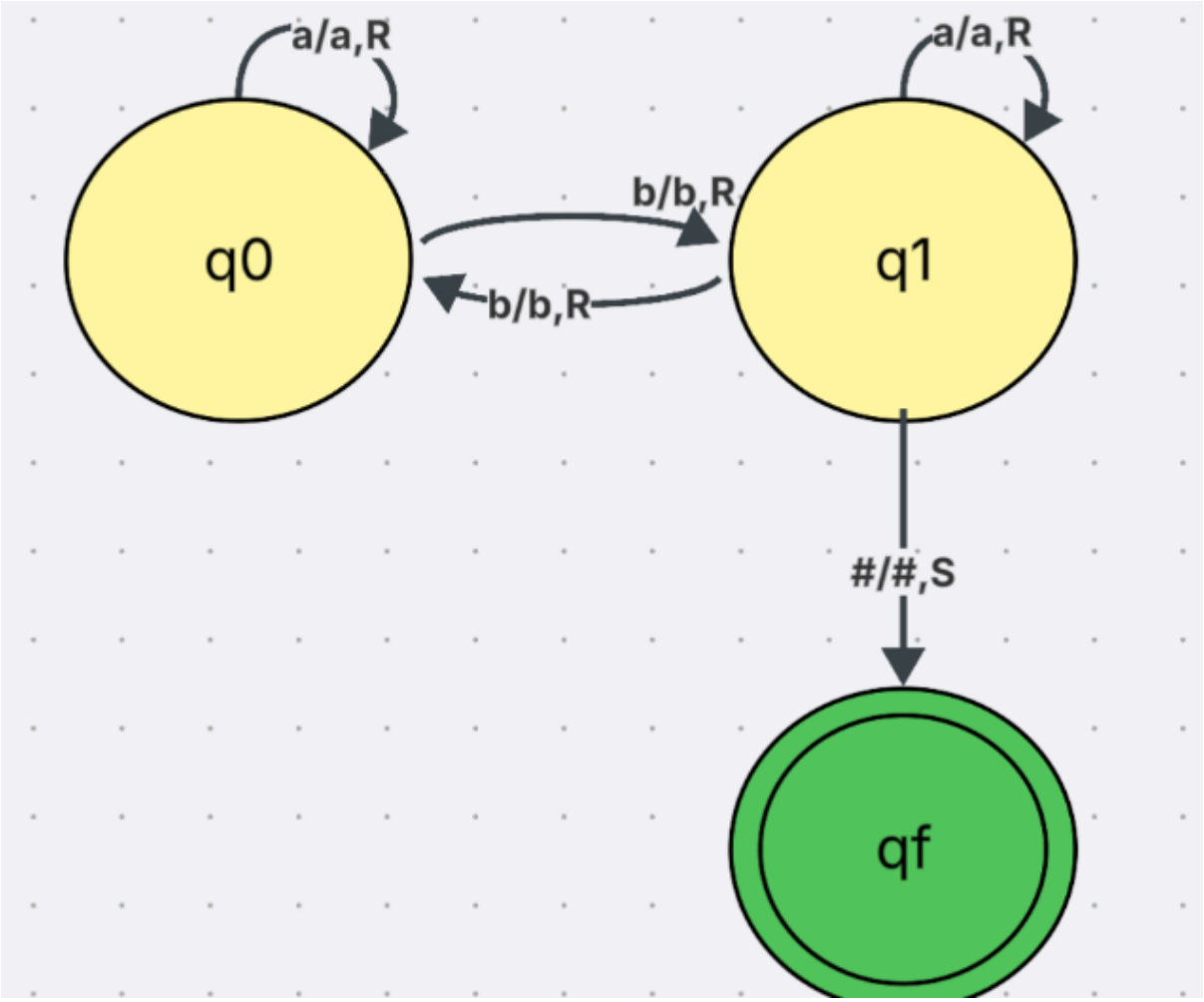
MORELIA, MICHOACÁN

12/5/2025

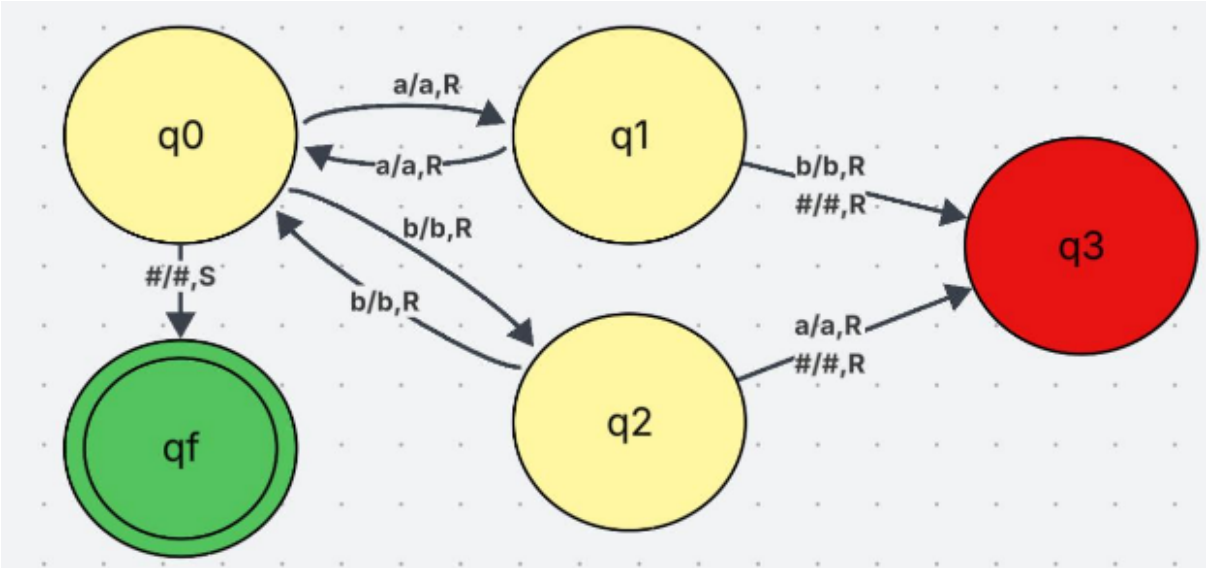
a) L = {w {a, b}* | w es una cadena de longitud impar



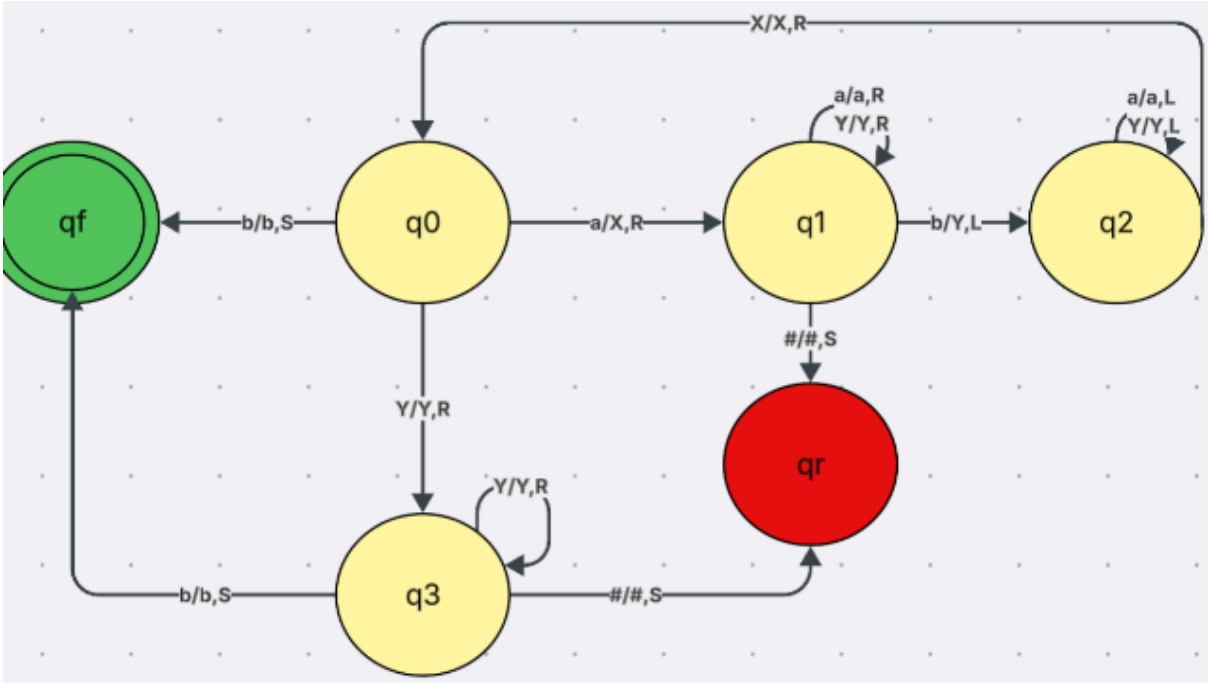
b) L = {w {a, b}* | w es una cadena que contiene una cantidad par de bes


a/a,R
a/a,R
q0
b/b,R
b/b,R
q1
#/#,S
qf

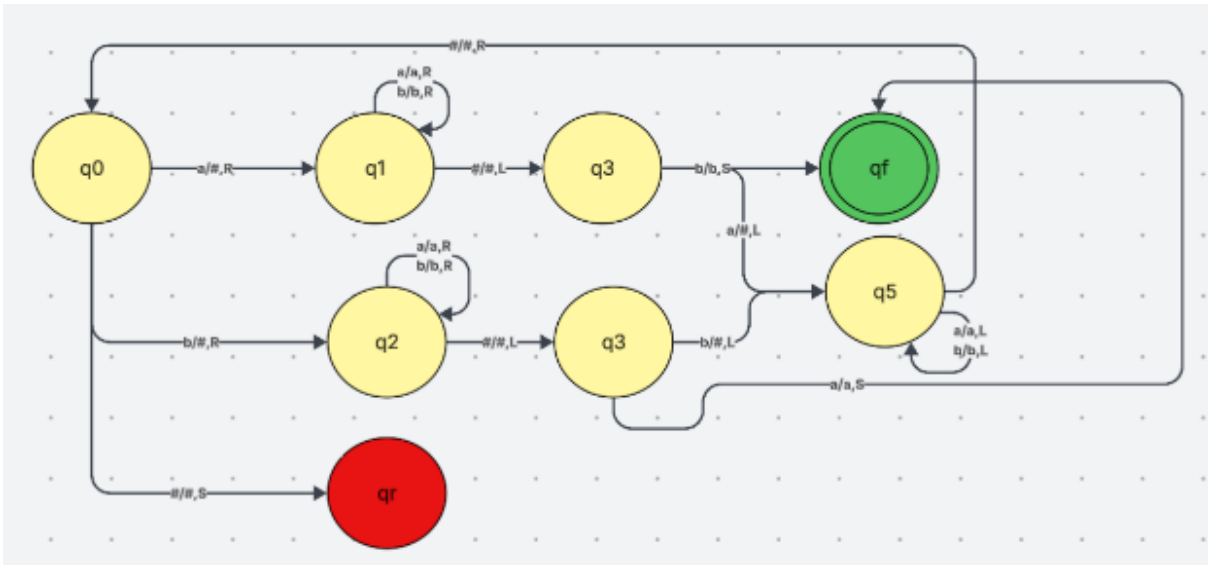
c) L = (aa ∪ bb)*


q0
a/a,R
a/a,R
q1
b/b,R
#/#,R
q3
b/b,R
#/#,S
b/b,R
a/a,R
#/#,R
qf
q2

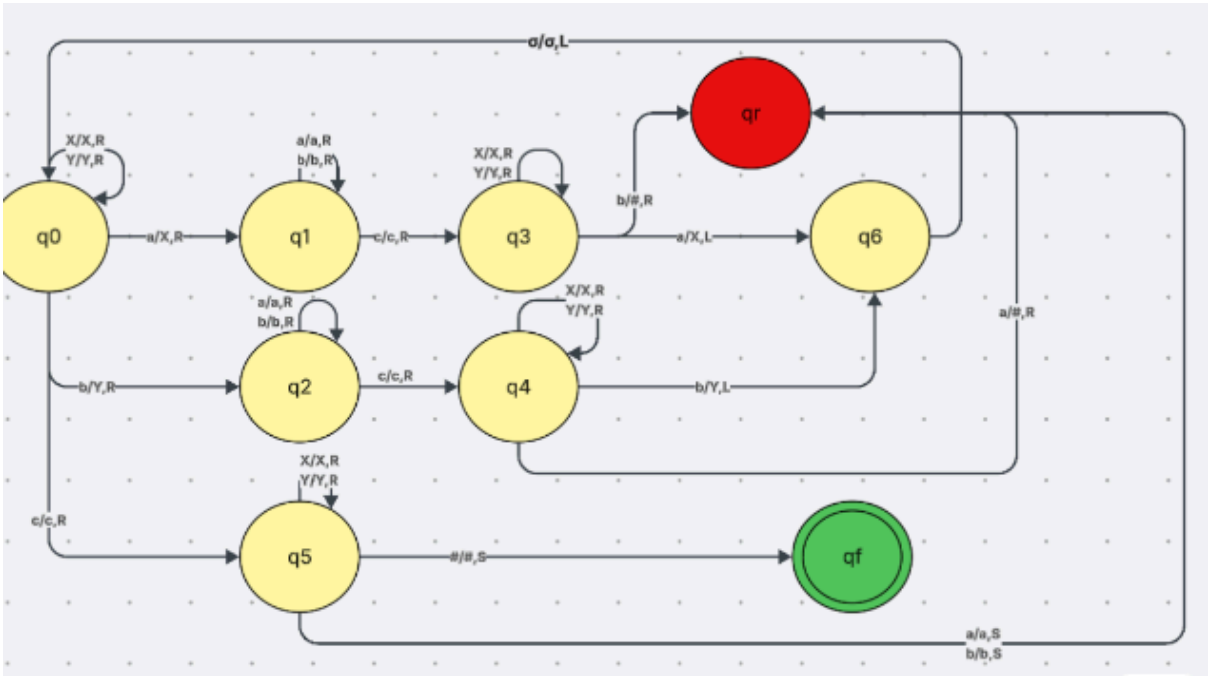
d) L = { anbm | m > n 0 }



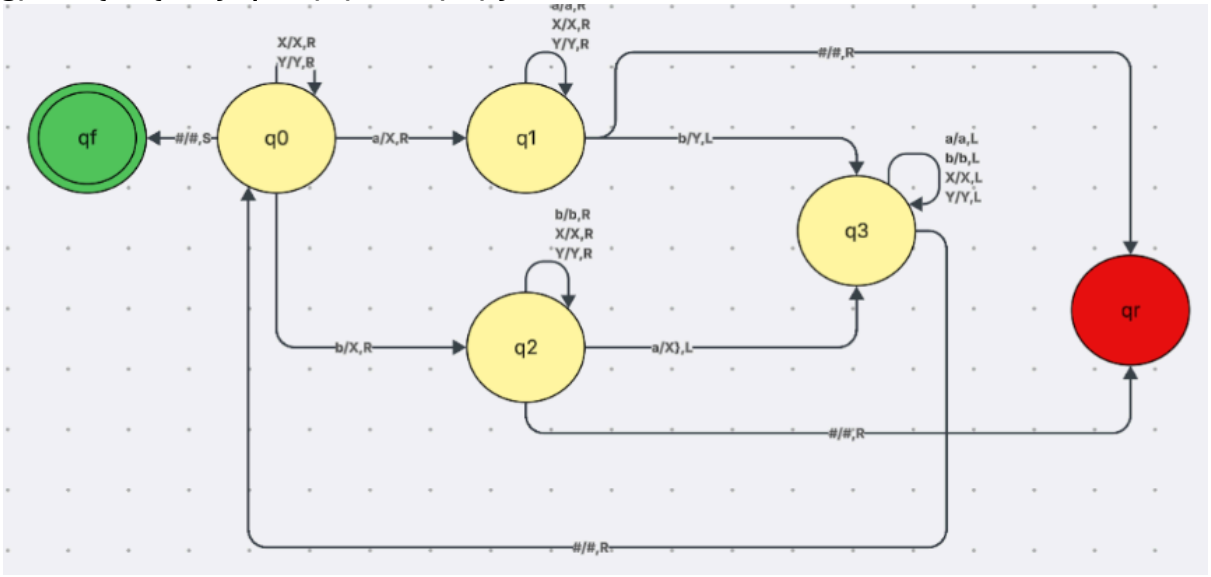
e) L = {w {a, b}* |w wR }



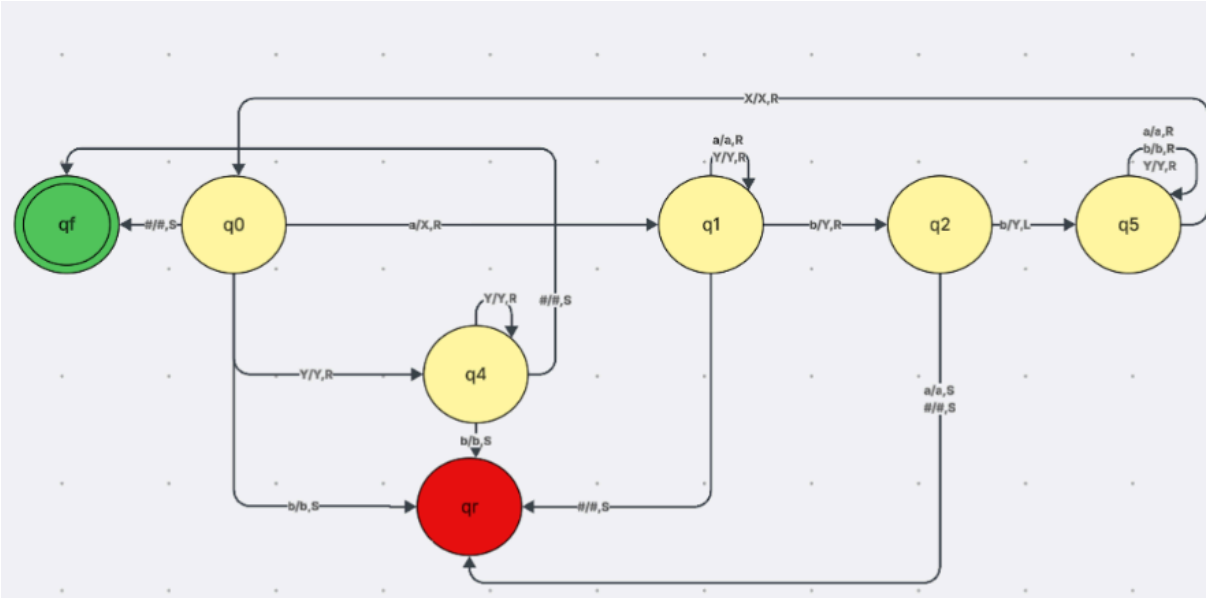
f) L = {wcw |w {a, b}* }



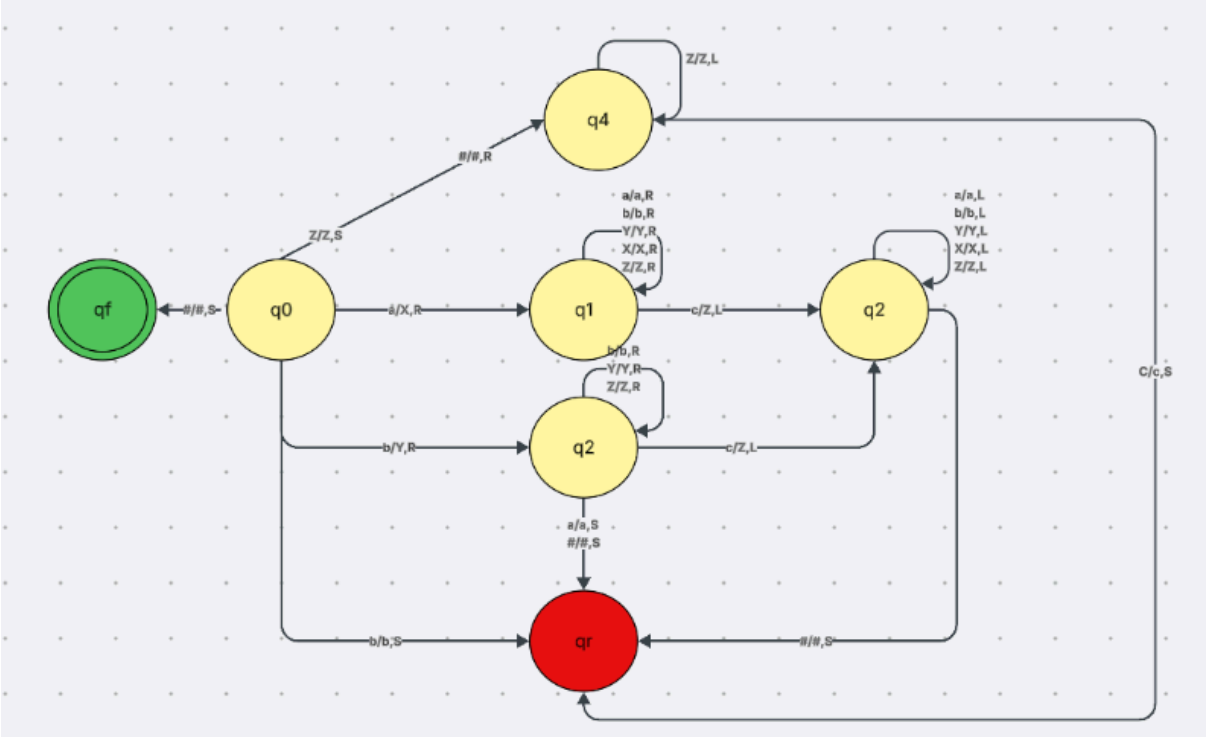
g) L = {w {a, b}* | Na(w) = Nb(w) }



h) L = { anb2n | n 0 }



i) L = { ambncp | p = m + n }



j) L = { ambncp | m > n + p }