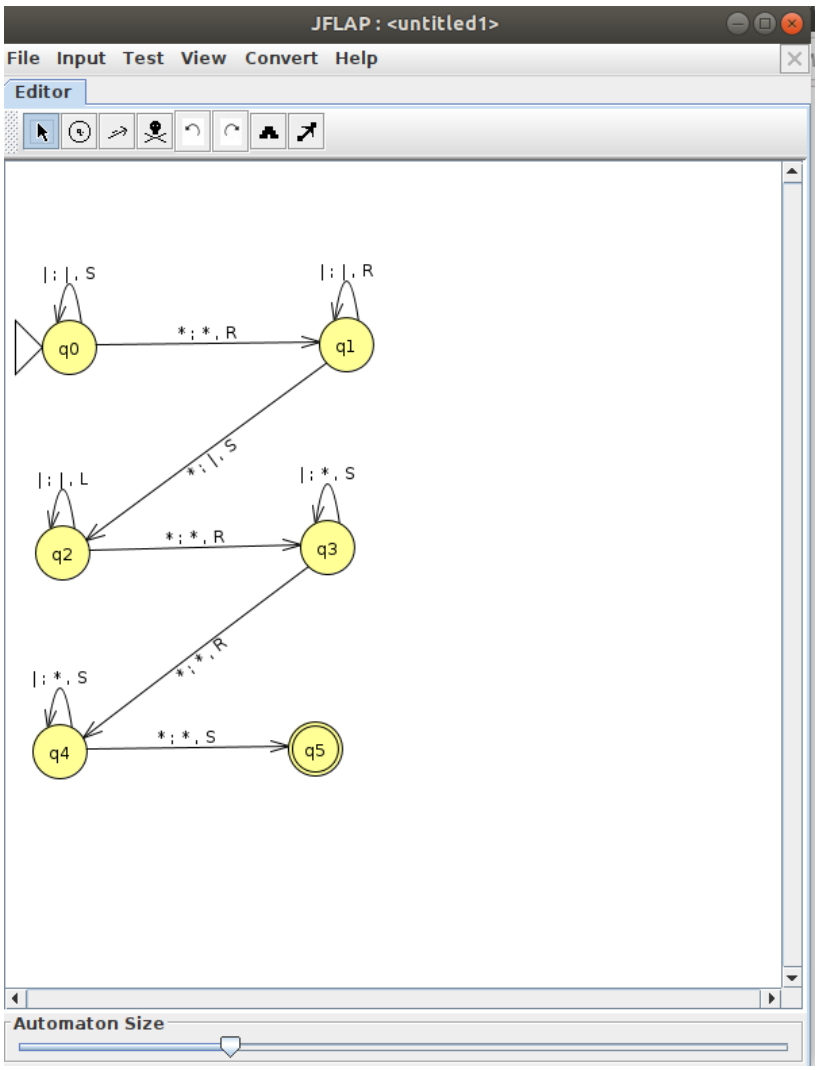
# Practica 3

25 de diciembre de 2022

**1)**



**2)**

```
octave:2> evalrecfunction('addition(addition(pi^3_1, pi^3_2), pi^3_3)', 1,2,3)
addition(addition(n³₁,n³₂),n³₃)(1,2,3)
addition(n³₁,n³₂)(1,2,3)
n³₁(1,2,3) = 1

n³₂(1,2,3) = 2

addition(1,2)
<n¹₁|σ(n³₃)>(1,2)
<n¹₁|σ(n³₃)>(1,1)
<n¹₁|σ(n³₃)>(1,0)
n¹₁(1) = 1
σ(n³₃)(1,0,1)
n³₃(1,0,1) = 1

σ(1) = 2
σ(n³₃)(1,1,2)
n³₃(1,1,2) = 2

σ(2) = 3

n³₃(1,2,3) = 3

addition(3,3)
<n¹₁|σ(n³₃)>(3,3)
<n¹₁|σ(n³₃)>(3,2)
<n¹₁|σ(n³₃)>(3,1)
<n¹₁|σ(n³₃)>(3,0)
n¹₁(3) = 3
σ(n³₃)(3,0,3)
n³₃(3,0,3) = 3

σ(3) = 4
σ(n³₃)(3,1,4)
n³₃(3,1,4) = 4

σ(4) = 5
σ(n³₃)(3,2,5)
n³₃(3,2,5) = 5

σ(5) = 6
ans =  6
```

**3)**

```
Q = (3,3,s)
s:
while X2!=0 do
      X1:=X1+1
      X2:=X2-1
od;
while X3!=0 do
      X1:=X1+1
      X3:=X3+1
od;
```