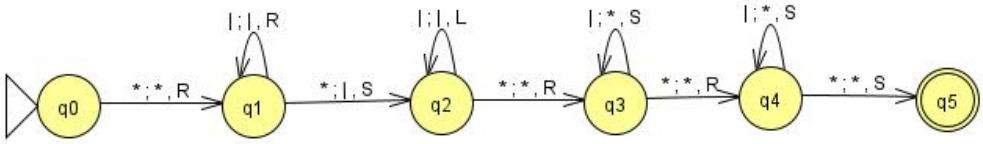
PRACTICA 3. Temas 7,8,9

María Jesús García Bravo

1 Ejercicios

T7. Define the TM solution of exercise 3.4 of the problem list and test its correct behaviour



T9. Implement a WHILE program that computes the sum of three values. You must use an auxiliary variable that accumulates the result of the sum.

Q=(3,3,S)
s:
$X_4 := X_1$;
while $G(X_2) \neq 0$ **do**
$X_4 := X_4 + 1$;
$X_2 := X_2 - 1$;
od
while $G(X_3) \neq 0$ **do**
$X_4 := X_4 + 1$;
$X_3 := X_3 - 1$;
od
$X_1 := X_4$;

T8. Define a recursive function for the sum of three values.

$addition3 :<< \pi_1^1 | \theta(\pi_3^3) > | \theta(\pi_4^4) >$