Practica 3

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

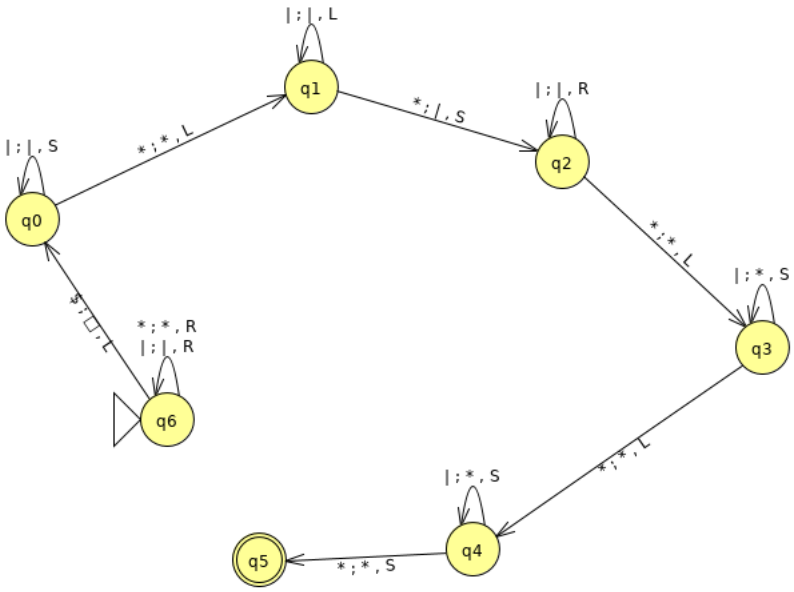

Figura 1:

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

$$\text{addition\_3} = << \pi_1^1 | \sigma\left(\pi_3^3\right) > | \sigma\left(\pi_4^4\right) >$$

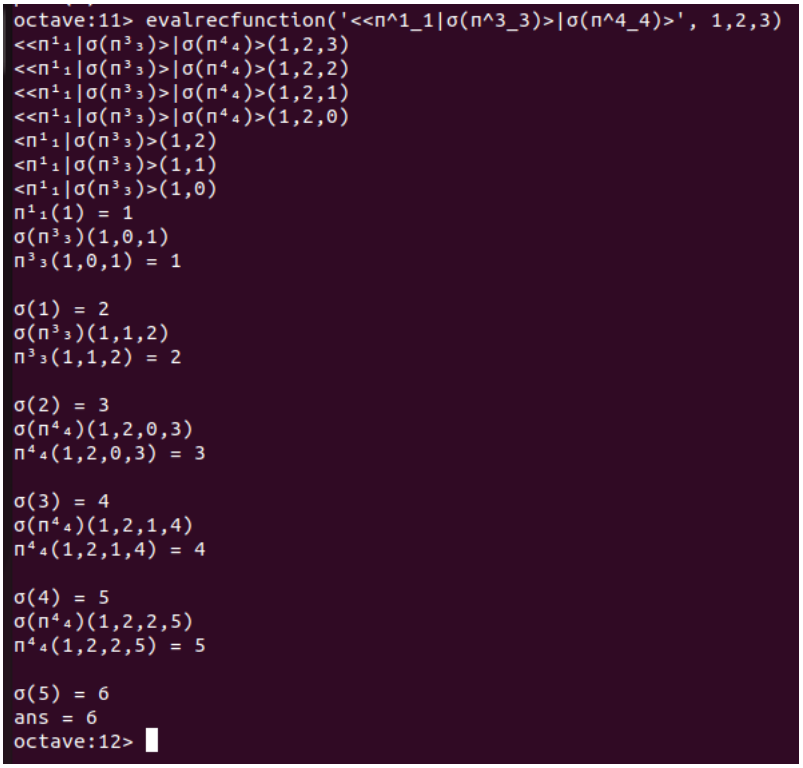

Figura 2:

3. 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=(3,4,s) s:
while $X_1 \neq 0$ **do**
    $X_2 := X_2 + 1;$
    $X_1 := X_1 - 1$
od
$X_4 := X_2$
while $X_2 \neq 0$ **do**
    $X_3 := X_3 + 1;$
    $X_2 := X_2 - 1$
od
$X_1 := X_3$