Práctica 3

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2º A Ingeniería Informática

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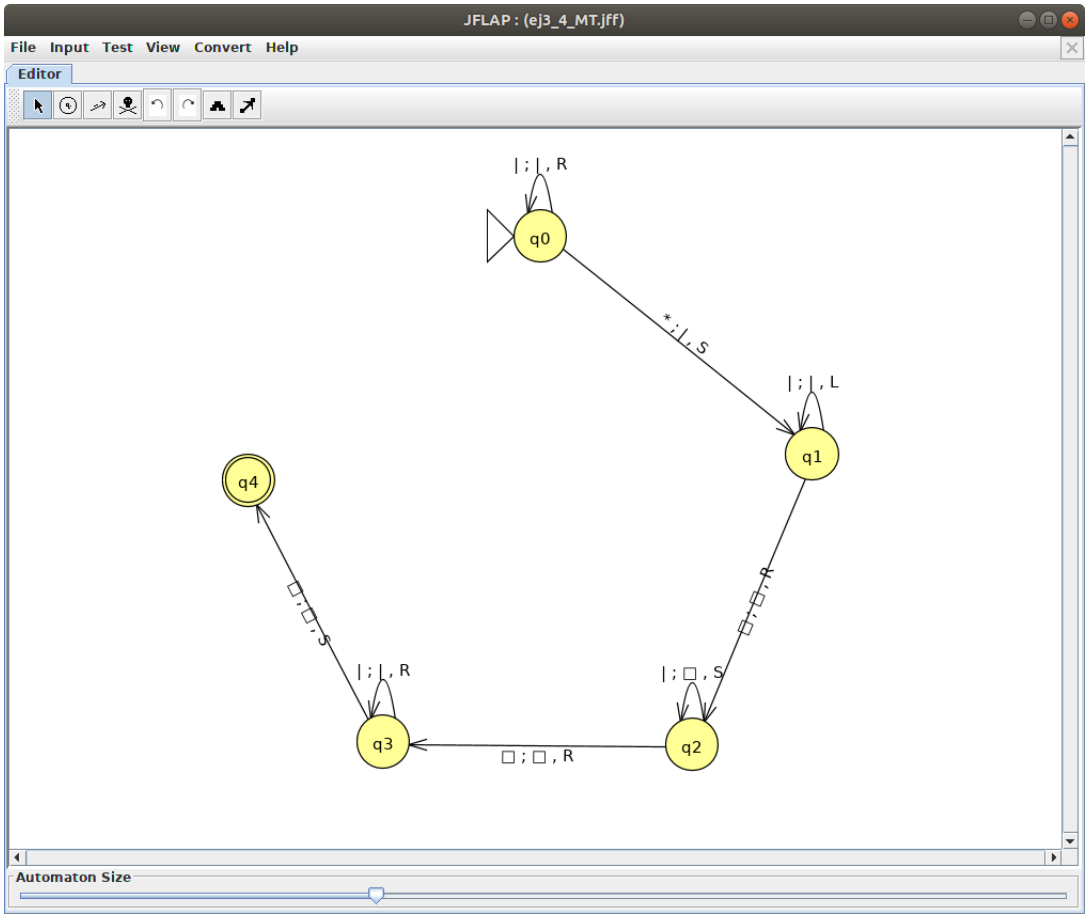
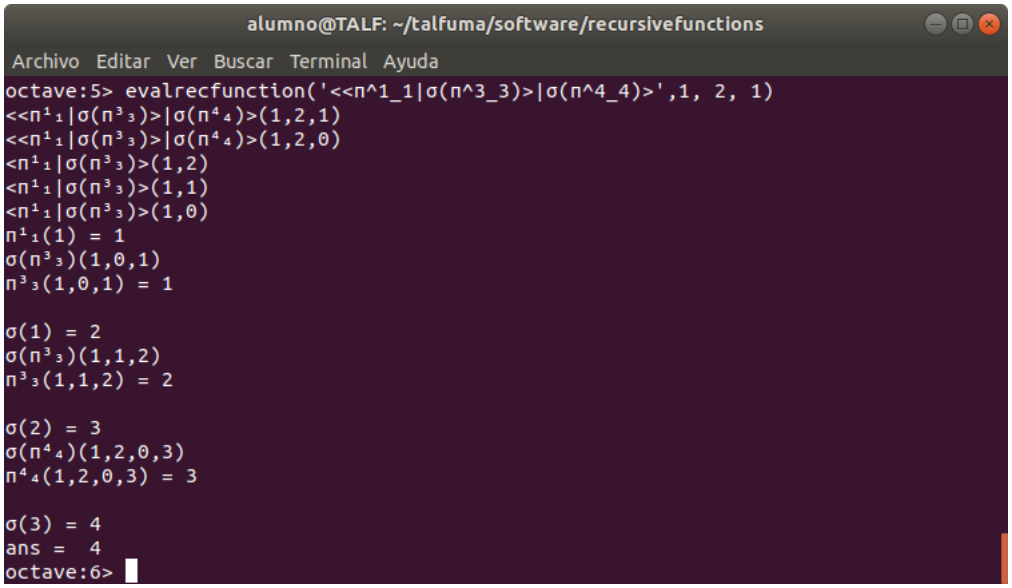
Activities

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



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

$$<< \pi_1^1 | \sigma\left(\pi_3^3\right) > | \sigma\left(\pi_4^4\right) >$$



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.

$Q = (3, s)$

s:

$X_4 := X_1;$
while $X_2 \neq 0$ **do**
$X_4 := X_4 + 1;$
$X_2 := X_2 - 1$
od
while $X_3 \neq 0$ **do**
$X_4 := X_4 + 1;$
$X_3 := X_3 - 1$
od
$X_1 := X_4;$