Teoría de Autómatas y Lenguajes Formales

Práctica 3.

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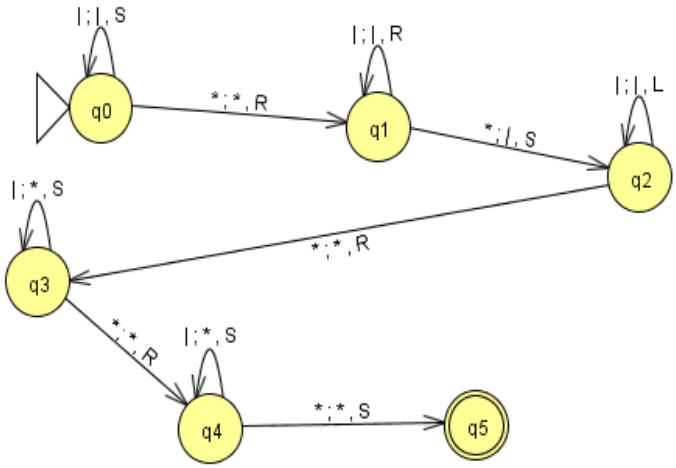
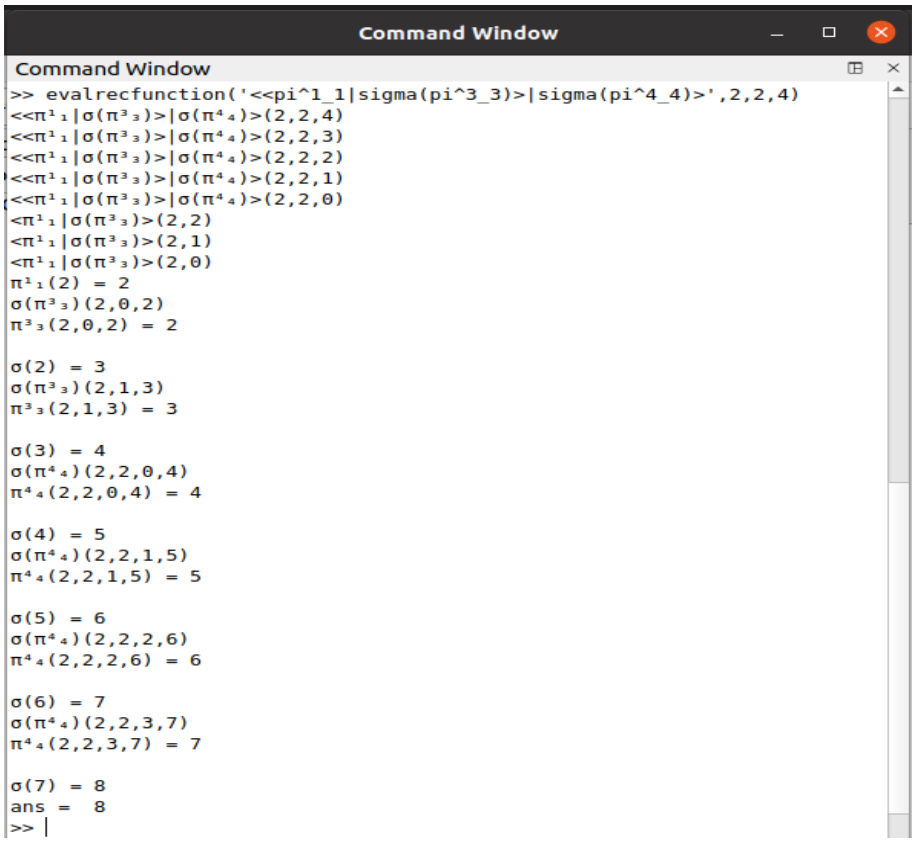
1. Define the TM solution of exercise 3.4 of the problem list and test its correct behaviour.



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

$$suma \ll \pi_1^1 | \sigma(\pi_3^3) > | \sigma(\pi_4^4) > \tag{1}$$



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.

```
while X1!=0 do
    while X2!=0 do
        x3:=x3+1;
        x2:=x2-1;
    end while
    x3:=x3+1;
    x1:=x1-1;
end while
```