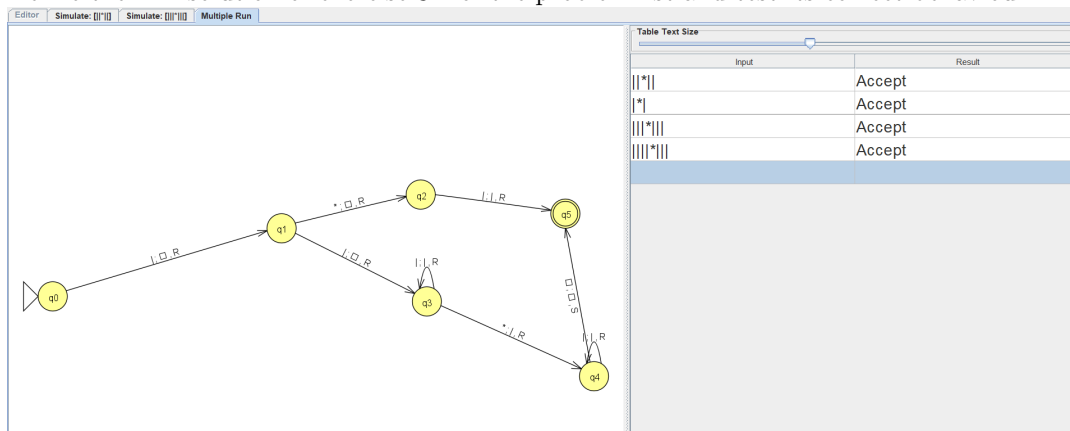# Práctica 3

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24 de noviembre de 2022

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.

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

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