Practica 2

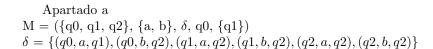
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EJERCICIO 1

Consider the language over the alphabet a, b that only contains the string a. a. Build a DFA that recognizes this language and rejects all those strings that do not belong to the language.

b. Test the automaton that you have created by introducing 6 chains



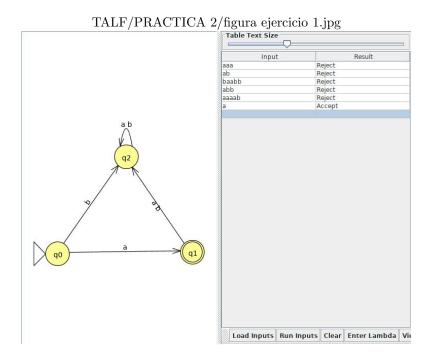


Figura 1: Figura ejercicio 1a

EJERCICIO 2

Finite automaton in Octave:

- a. Open the Octave finite automata.m script and test it with the given example (see script help) in the Git Hub repository.
- b. Specify in finite automata.json the automaton created in Activity 1 and test it with the script

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\begin{array}{l} {\rm 'K':['q0',\ 'q1',\ 'q2']},\\ {\rm 'A':['a',\ 'b']},\\ {\rm 's':'q0',}\\ {\rm 'F':['q1']},\\ {\rm 't':[['q0',\ 'a',\ 'q1'],\ ['q0',\ 'b',\ 'q2'],\ ['q1',\ 'a',\ 'q2'],\ ['q1',\ 'b',\ 'q2'],\ ['q2',\ 'a',\ 'q2'],}\\ {\rm ['q2',\ 'b',\ 'q2']]} \end{array}
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