TALF Practica 2

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1 Ejercicios

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.

Let $M = (\{q_0, q_1, q_2\}, \{a, b\}, \delta, q_0, \{q_1\})$ be a DFA with:

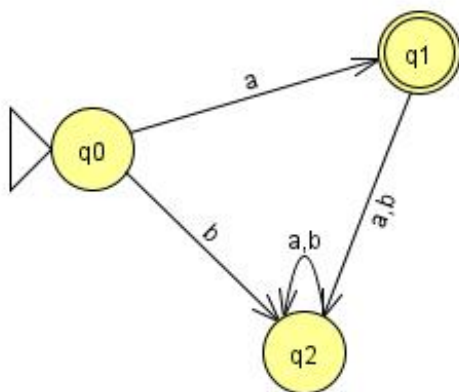| $\delta(q, \sigma)$	a	b
q_0	q_1	q_2
q_1	q_2	q_2
q_2	q_2	q_2

Figure 1: Diagrama del DFA

El archivo JSON sería:
The automaton will be DFA:

```json
{
  "K" : ["q0", "q1", "q2"],
  "A" : ["a", "b"],
  "s" : "q0",
  "F" : ["q1"],
  "t" : [["q0", "a", "q1"],
         ["q0", "b", "q2"],
         ["q1", "a", "q2"],
         ["q1", "b", "q2"],
          ["q2", "a", "q2"],
          ["q2", "b", "q2"]]

}
```