Práctica 2 TALF

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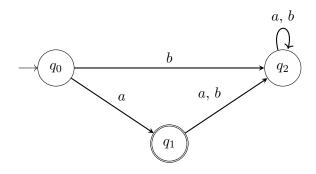
1 Consider the language over the alphabet a, b that only contains the string a. Build a DFA that recognizes this language and rejects all those strings that do not belong to the language.

1.1 Mathematical description of the automaton

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

$$\delta = \{("q_0", "a", "q_1"), ("q_0", "b", "q_2"), ("q_1", "a", "q_2"), ("q_1", "b", "q_2"), ("q_2", "a", "q_2")\}$$
Or also $M = (\{q_0, q_1, q_2\}, \{a, b\}, \delta, q_0, \{q_1\})$ as 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



1.2 Image from JFLAP

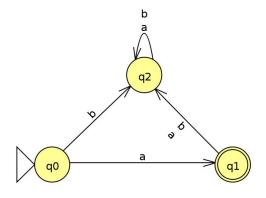


Figure 1: Automaton created in JFLAP

2 Create a JSON file that describes the automaton created in Activity 1