

Teoría de Autómatas y Lenguajes Formales

Práctica 2: Ejercicio 1

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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.

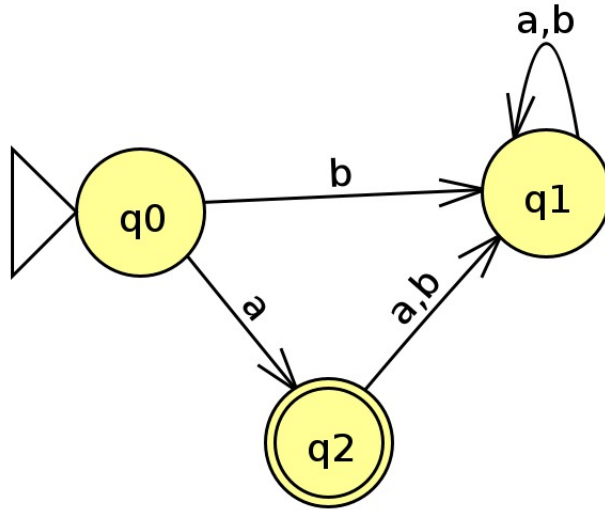


Table Text Size	
Input	
a	Accept
aa	Reject
aaa	Reject
abbabab	Reject
bab	Reject
bbb	Reject

Figura 1:

2. Finite automaton in Octave:

```
1 [  
2   {  
3     "automata1" : "a",  
4     "representation" : {  
5       "K" : ["q0", "q1", "q2"],  
6       "A" : ["a", "b"],  
7       "s" : "q0",  
8       "F" : ["q2"],  
9       "t" : ["q0", "a", "q2"],  
10        ["q0", "b", "q1"],  
11        ["q1", "a", "q1"],  
12        ["q1", "b", "q1"],  
13        ["q2", "a", "q1"],  
14        ["q2", "b", "q1"],  
15     }  
16   },  
17 ]
```

Figura 2: