

# Práctica 2

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## 1 Ejercicio 1 y 2

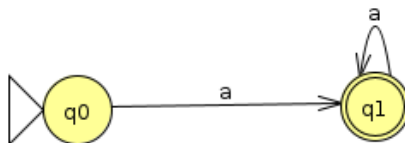
1)  $M = (\{q_0, q_1\}, \{a, b\}, \delta, q_0, \{q_1\})$  es un AFD que solo contiene el string a:

$\delta(q, \sigma)$	a
q0	q1
q1	q1

$(q_0, aaaaaa) \vdash (q_1, aaaaa) \vdash (q_1, aaaa) \vdash (q_1, aaa) \vdash (q_1, aa) \vdash (q_1, a) \vdash (q_1, \epsilon) \rightarrow (q_1, \epsilon) \wedge q_1 \in F \Rightarrow aaaaaa \in L(M)$

$(q_0, aaaaab) \vdash (q_1, aaaab) \vdash (q_1, aaab) \vdash (q_1, aab) \vdash (q_1, ab) \vdash (q_1, b) \vdash (q_1, \epsilon) \rightarrow (q_1, \epsilon) \wedge q_1 \notin F \Rightarrow aaaaab \notin L(M)$

2)



## 2 Ejercicio 3

```
[
  {
    "name" : "aa*",
    "representation" : {
      "K" : ["q0","q1"],
      "A" : ["a","b"],
      "s" : "q0",
      "F" : ["q1"],
      "t" : [["q0", "a", "q1"],
              ["q1", "a", "q1"]]
```