

Exercises for Lecture 8

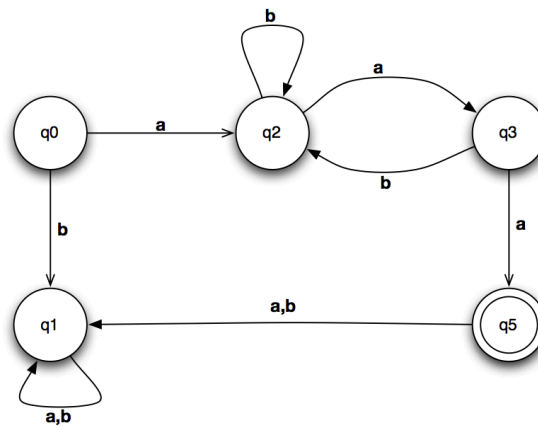
Exercise 1

What are the strings in the regular sets specified by the regular expressions ?

- a) $1 \cup 10$
- b) 01^*
- c) $(01)^*$
- d) $1(0 \cup 1)^*$

Exercise 2

Give a regular expression representing the language recognised by the following FA:



Exercise 3

Find $L(R)$ where $R = (((a \cdot b) + c) + a^*)^*$

Exercise 4

Prove the following: $L(R^*) = L(1 + RR^*)$