

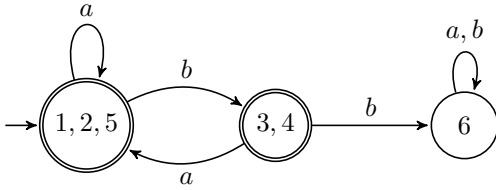
Automata and Formal Languages — Sample Solution 3

Due 30.10.2015

Solution 3.1

(a) $P_l = \{\{1, 2, 5\}, \{3, 4\}, \{6\}\}$

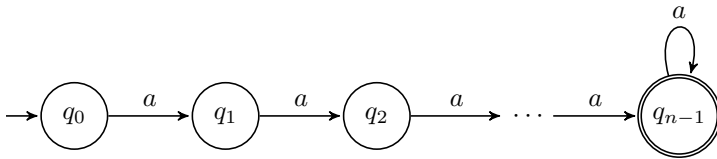
(b)



(c) From left to right: L , L^b , and $L^{bb} = \emptyset$

Solution 3.2

$|Q| - 1$ times. An example:



Solution 3.3

(a) $L(A)$ contains all words of length at least 2 which start and end with a 's.

(b) $\{\{q_0\}, \{q_1, q_2, q_3, q_4\}, \{q_f\}\}$

(c)

