

CS 3530: Assignment 4a

Fall 2014

Exercises

Exercise 2.5be (20 points)

Problem

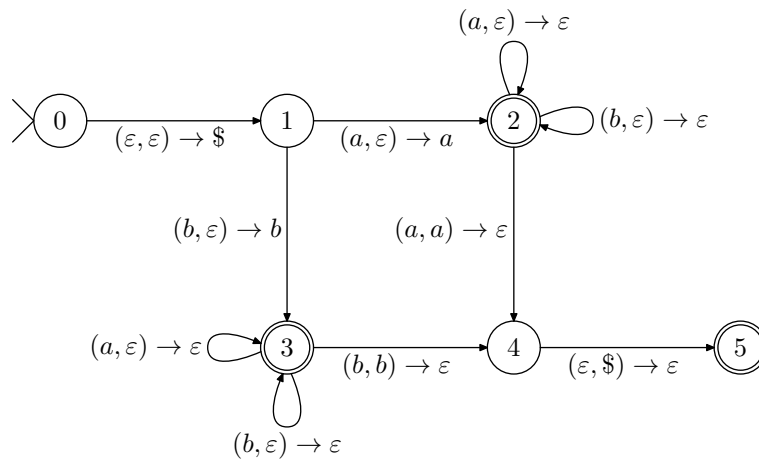
Give informal descriptions and state diagrams of pushdown automata for the languages in Exercise 2.4.

b. $\{w : w \text{ starts and ends with the same symbol}\}$

e. $\{w : w = w^R, \text{ that is, } w \text{ is a palindrome}\}$

note: For both $\Sigma = \{a,b\}$

Solution b



Solution e

$S \rightarrow \varepsilon | a | b | aSa | bSb$

