

CSCI 2400 – Models of Computation

Homework 6

Due: Thursday March 4 in class

Problem 1. Draw a NPDA for the following language:

$$L_1 = \{vww^R : w \in \{a, b\}^*, v \in \{b\}^*\}$$

Problem 2. Draw a NPDA for the following language:

$$L_2 = \{a^{n+m}b^nc^m : n, m \geq 0\}$$

Problem 3. Draw a NPDA for the following language:

$$L_3 = \{wv : w \in \{a, b\}^*, v \in \{c, d\}^*, |v| \neq 3|w|\}$$