CS 305 Lecture - 11

Problem set

1. Construct NPDA's that accept the following regular languages:

   a) $L_1 = L(aa^*b)$

   b) $L_2 = L(aab^*aba^*)$

2. Construct NPDA's that accept the following languages on $\Sigma = \{a, b, c\}$.

   a) $L = \{a^n b^{2n} : n \geq 0\}$

   b) $L = \{wcw^R : w \in \{a,b\}^*\}$

   c) $L = \{a^n b^m c^{m+n} : n \geq 0 ; m \geq 0\}$

   d) $L = \{a^n b^{m+n} c^m : n \geq 0 ; m \geq 1\}$

   e) $L = \{a^3 b^n c^n : n \geq 0\}$

   f) $L = \{w : n_a(w) + n_b(w) = n_c(w)\}$.