Automata Theory: Assignment 9
Due date: November 29 (Thursday)

Problem 1 (6 points)
Construct deterministic PDAs for the following languages:

(a) \( \{a^n b a^n : n \geq 0\} \)
(b) \( \{a^n b^m c^{n+m} : n \geq 0, m \geq 0\} \)

Problem 2 (4 points)
Construct a nondeterministic PDA for the following language on the alphabet \( \Sigma = \{a, b\} \):

\( \{w : w = w^R\} \)