Theory of Computation

Exercise 10: (Pushdown Automata)

Find Pushdown Automata for the following languages.

1. L1 = {
$$a^n b^{2n}$$
: $n \ge 0$ }

2. L2 ={ $w \in \{a, b\}^*: n_a(w) > n_b(w)$ }

*3. L3 ={ $a^n b^m a^{n+m}$: $n, m \ge 1$ }

(Homework 8)