

**In-class Practice 15: PDAs**

A PDA is by definition nondeterministic. Give:

1. a language that is accepted by a (nondeterministic) pushdown automaton but not by a deterministic one.
2. a language that is accepted by a deterministic pushdown automaton but not by a finite automaton.
3. a language that is accepted by a (nondeterministic) pushdown automaton but whose complement is not.
4. a language that is accepted by a deterministic pushdown automaton but whose complement is not.