Push Down Automata

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1. Make a PDA for the language of $a^n b^n$ that is n a's followed by n b's for any n. So $\lambda, ab, aabb, aaabbb, \ldots$

2. Make a PDA for a valid mathematical expression with symbols $+$, $-$, $*$, $/$, and 0 through 9.

3. Make a PDA that accepts any word with correctly matching parentheses, on the alphabet, $\{a, b, c, (,)\}$

4. Build up a language that you know as a grammer.