

## Pushdown Automata Exercises

We start with standard problems on building pda for a given language, ending with more challenging problems. ...to be continued ...

1. Construct pushdown automata for the following languages. Acceptance either by empty stack or by final state.

- ♣ (a)  $\{ a^n b^m a^n \mid m, n \in \mathbb{N} \}$
- ♣ (b)  $\{ a^n b^m c^m \mid m, n \in \mathbb{N} \}$
- ♣ (c)  $\{ a^i b^j c^k \mid i, j, k \in \mathbb{N}, i > j \}$
- ♣ (d)  $\{ a^i b^j c^k \mid i, j, k \in \mathbb{N}, i + j = k \}$
- ♣ (e)  $\{ a^i b^j c^k \mid i, j, k \in \mathbb{N}, i + k = j \}$
- ♣ (f)  $\{ a^n b^m \mid n \leq m \leq 2n \}$
- ♣ (g)  $\text{PAL} = \{ w \in \{a, b\}^* \mid \text{mir}(w) = w \}$
- ♣ (h)  $\{ w_1 c w_2 c \dots c w_k c x \mid x, w_1, \dots, w_k \in \{a, b\}^*, k \in \mathbb{N}, x = \text{mir}(w_j) \text{ for some } j \}$
- ♣ (i)  $\{ w \in \{a, b\}^* \mid \#_a(w) = \#_b(w) \}$ ,  $\#_a(w)$  represents the number of  $a$ 's in  $w$
- ♣ (j)  $\{ w \in \{a, b\}^* \mid \#_a(w) = 2 \cdot \#_b(w) \}$

2. More languages.

- ♣ (a)  $\{ w \in \{a, b\}^* \mid w \text{ equals } x\text{mir}(x) \text{ for some } x \in \{a, b\}^* \}$
- ♣ (b)  $\{ w \in \{a, b\}^* \mid w \text{ does not equal } x\text{mir}(x) \text{ for some } x \in \{a, b\}^* \}$
- ♣ (c)  $\{ w \in \{a, b, c\}^* \mid w \text{ does not equal } xcx \text{ for some } x \in \{a, b\}^* \}$
- ♣ (d)  $\{ w \in \{a, b\}^* \mid w \text{ does not equal } xx \text{ for some } x \in \{a, b\}^* \}$

3. Construct a pda with final state acceptance for the language

$$B = \{ \text{bin}(i) \$ \text{mir}(\text{bin}(i+1)) \mid i \geq 0 \} \subseteq \{0, 1, \$\}^*$$

Here is  $\text{bin}(i) \in \{0, 1\}^*$  the binary representation (without leading zero's) of the number  $i$ . Eg.  $\text{bin}(11) = 1011$  and  $\text{mir}(\text{bin}(12)) = 0011$ .

4. Give a one-state pda for the 'coin-change' language from the chapter:

$$L_{cc} = \{ x = y \mid x \in \{1, 2\}^*, y \in \{5\}^*, |x|_1 + 2 \cdot |x|_2 = 5 \cdot |y|_5 \}.$$

**Pda and cfg.**

5. pushdown automaton  $\mathcal{A}$  is specified by

$\mathcal{A} = (\{q_0, q_1\}, \{a, b\}, \{Z, X\}, \delta, q_0, Z, \emptyset)$ , where  $\delta$  contains the following transitions:

- $(q_0, a, Z) \mapsto (q_0, \lambda), \quad (q_0, a, Z) \mapsto (q_0, XZ_{in}),$
- $(q_0, a, X) \mapsto (q_0, XX), \quad (q_0, b, X) \mapsto (q_1, \lambda),$
- $(q_1, b, X) \mapsto (q_1, \lambda), \quad (q_1, a, Z) \mapsto (q_0, Z).$

Determine a (reduced) context-free grammar  $G$  for the empty stack language of  $\mathcal{A}$ , i.e.,  $L(G) = L_{\epsilon}(\mathcal{A})$ .

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**Tao Wei**



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