Tutorial 10
COMP 335: Introduction to Theoretical Computer Science

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Outline

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Pushdown Automata

Question 1

Give PDA for the following language:

$$L = \{0^n \# 1^n | n \geq 0\}$$

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Question 2

Give PDA for the following language:

$$L = \left\{ v11v^R | v \in \{a, b\}^+ \right\}$$

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Question 3

Give PDA for the following language:

$$L = \{a^n b^n | n \text{ is a multiple of 5}\}$$

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Question 4

Give PDA for the following language:

$$L = \{a^n b^n | n \text{ is not a multiple of 5}\}$$

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Question 5

Give PDA for the following language:

$$L = \{0^n 1^m | n = 3m + 1\}$$