Tutorial 11

COMP 335: Introduction to Theoretical Computer Science

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Outline

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Contents of the section

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CFG to PDA

Question 1

Build a PDA for the following CFG::

$$S \rightarrow XYX$$
 (1)

$$X \rightarrow 0X|\lambda$$

$$X \rightarrow 0X|\lambda$$
 (2)
 $Y \rightarrow 1Y|1$ (3)



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CFG to PDA

Question 2

Build a PDA for the following CFG::

$$S \rightarrow 0A0|1B1|B0B \tag{1}$$

$$A \rightarrow C$$
 (2)

$$B \rightarrow S|A$$

$$C \rightarrow S|\lambda$$
 (4)



(3)

Contents of the section

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CFG to PDA

Question 3

Build a PDA for the following CFG::

$$S \rightarrow XaY|Wb$$
 (1)

$$X \rightarrow aXb|\lambda$$
 (2)

$$Y \rightarrow cY|\lambda$$

$$W \rightarrow aWc|Z$$
 (4)

$$Z \rightarrow bZ|\lambda$$
 (5)



(3)