

# CIT 596 Recitation, Week 8

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Some short but fun talks

# bits of brilliant session five

- ▶ link, 6:13

[Exercise] @sipser13 [p. 155] exercise 2.4

Design PDAs for the following languages. In all parts, the alphabet is  $\Sigma = \{0, 1\}$

- ▶  $\{w \mid w \text{ contains at least three 1s}\}$
- ▶  $\{w \mid w \text{ starts and ends with the same symbol}\}$

# Solution

- $\{w \mid w \text{ contains at least three 1s}\}$

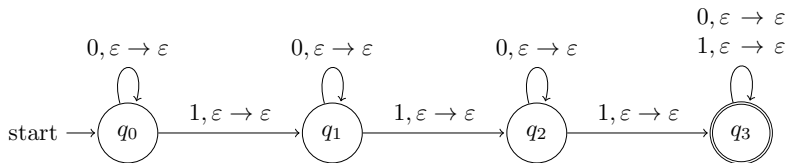


Figure : week8\_fig1

# Solution

- $\{w \mid w \text{ starts and ends with the same symbol}\}$

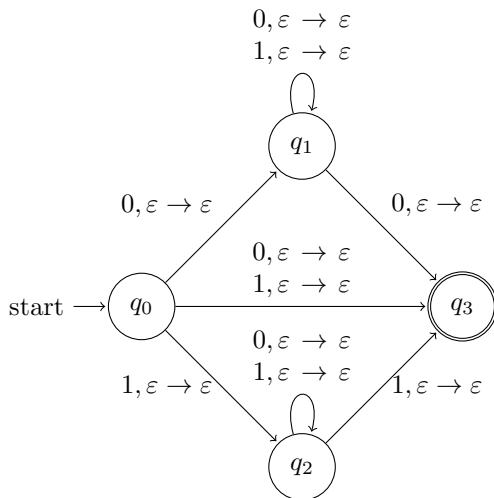


Figure : week8\_fig2