

Homework #8: MACM-300
Reading: Sipser; Chapter 2; Section 2.3
Distributed on Mar 13; due on Mar 20 (in class)
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Only submit answers for questions marked with †.

- (1) † Provide a verbal description and the PDA for the language:

$$L = \{w \in \{0,1\}^* \mid 2f_0(w) \neq 3f_1(w)\}$$

where, $f_0(w)$ denotes the number of 0s in w and $f_1(w)$ denotes the number of 1s in w .

- (2) Sipser, q2.10
(3) † Sipser, q2.11
(4) Sipser, q2.18
(5) † Sipser, q2.26
(6) † Sipser, q2.30
(7) Sipser, q2.31
(8) † Sipser, q2.35