

Introduction to the Theory of Computation

Homework 6

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Due February, 3rd

1. Exercise 2.2.
2. Exercise 2.9.
3. Exercise 2.5(b).
4. Give informal descriptions and state diagrams of PDAs for the following languages.
 - (a) $\{x \in \{0, 1\}^* \mid \text{the number of 0s equals the number of 1s in } x\}$
 - (b) $\{x \in \{0, 1\}^* \mid \text{the number of 0s is not equal to the number of 1s in } x\}$