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Today: Turing Machines. § 3.1.

Next class: Homework 3 due. Turing Machine variants. § 3.2.

Reminders: Reading. Newsgroup.

- 1. List the members of your group below. Underline your name.
- 2. Provide an informal but precise description of a Turing Machine that decides the language $B' = \{ \mathbf{w} \# \bar{\mathbf{w}} \mid \mathbf{w} \in \{0,1\}^* \}$ and explain why it is correct. We use the notation \bar{w} to denote the bitwise complement of a binary string w.

3. Provide a formal description of the machine of Question 2.

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4. Trace the operation of the machine of Question 3 on the input 1011#0100. Repeat for

inputs 1011#0110 and 1011#010.