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Today Turing Machines, Church-Turing Thesis; § 3.1, 3.2, 3.3. Next class Catch-up and review. Reminders Midterm exam soon. 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.

4. Trace the operation of the machine of Question 3 on the input 1011#0100. Repeat for inputs 1011#0110 and 1011#010.