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Today Non-context-free languages; Turing Machines. § 2.3, 3.1, 3.2. Next class HW02 due. Church-Turing Thesis. § 3.3.

- 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  $B' = \{w\#\bar{w} \mid w \in \{0,1\}\}$  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.

inputs 1011#0110 and 1011#010.	

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