

Today: Catch-up (Turing Machine variants); review. § 3.2.

Next class: Midterm Exam 2.

Next next class: Decidability. §§ 4.0–4.1.

Reminders: Reading. Newsgroup.

1. List the members of your group below. Underline your name.

2. Consider the following variant of the standard Turing Machine model: Instead of the head moving one cell left or right after each step, the options are moving left by one cell or moving right by two cells.

What is the relationship between the class of languages recognized by such Turing Machines and the class of languages recognized by the standard Turing Machines? Justify your answer.

Repeat the above replacing *recognized* with *decided*.

3. Provide *high-level*, *implementation*, and *formal* descriptions of a Turing Machine that *enumerates* the *regular* language $(a \cup bb)^*$.