

Today: Review. HW03 due.

Next class: Midterm Exam 1. Later: Reducibility; § 5.*.

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

2. Are the following languages context-free? Prove your answers.
 - (a) Binary strings with equal numbers of zeros and ones.
 - (b) Strings composed of n as followed by $3n$ bs followed by $5n$ cs.

3. Prove or disprove each statement: The class of context-free languages is close under
- (a) union.
 - (b) intersection.
 - (c) complementation.
 - (d) star.