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Today Decidability. $\S 4.*$.

Next class HW03 due. Catch-up; mini-review of Ch. 0-4. 2013-02-19: Midterm exam 1.

- 1. List the members of your group below. Underline your name.
- 2. Prove or disprove: The set of infinite strings over the alphabet $\{a,b,c\}$ is countable.

3. Prove or disprove: The set of three-dimensional integer lattice points is countable.

4. Prove or disprove: The set of all syntactically correct Python programs is countable.

5. Prove or disprove: The language of context-free grammars that generate the empty string is decidable.

6. The language $L=\{p\in \Sigma^*\mid p \text{ is a } \textit{Python} \text{ program that outputs 0 for all inputs}\}$ is decidable.