

**Today:** Classes L and NL; §§ 8.4–8.5.

**Next class:** Review.

1. List the members of your group below. Underline your name.
  
2. Prove or disprove each, as best you can:
  - (a) If a language  $L$  is PSPACE-hard then it is NP-hard.
  - (b) If a language  $L$  is NP-hard then it is PSPACE-hard.

3. Prove or disprove, as constructively as possible:  $\{0^k 1^k 2^k \mid k \geq 0\} \in L$  (LOGSPACE).

4. Prove or disprove:  $L \subseteq P$ .