

**22C : 131 Limits of Computation**  
**Spring 2005**  
**Homework 5**  
**Due on May 3**

1. [7 points] Exercise 10.4. The parity function is 1 if the number of 1's in the input is odd, and 0 otherwise.
2. [7 points] Exercise 10.5. The majority function is 1 if and only if the number of 1's in the input is at least half the size of the input.
3. [7 points] Exercise 10.6
4. [7 points] Exercise 10.7
5. [11 points] Problem 10.11
6. [11 points] Problem 10.19