

CMPS 10 WINTER 2012
PRACTICE PROBLEMS FOR BINARY ARITHMETIC. BASE CONVERSION.
SORTING AND COMPUTATIONAL COMPLEXITY.

- (1) Convert 10 Base 10 to Base 2
- (2) Convert 16 Base 10 to Base 2
- (3) Convert 32 Base 10 to Base 2
- (4) Convert 230 Base 10 to Base 2
- (5) Add 16 in Base 2 to 32 in Base 2. What is the answer?
- (6) How is computational complexity measured in time?
- (7) What is the computational complexity of Bubble Sort?
- (8) What is the computational complexity of Quick Sort?
- (9) Name a computational problem for which there is no known polynomial time algorithm?