Cpt S 260 Homework #1

Please print your name!

1. (standard) Convert the following numbers from 8-bit two's complement to decimal: (a). 11111001, (b). 01011000.

2. (standard) Convert the following decimal numbers to 4-bit two's complement: (a). -3, (b). 5.

3. (not easy) There are n kids sitting in a line. Every kid holds a unique number and has a unique name. A kid can only talk to his or her (left and right) neighbors. Design an instruction set and sketch a program using the instruction set such that, after running your program, *every* kid knows who holds the largest number.