

Homework VI

Tom Kelliher, CS 220

Due Nov. 20, 2009

Remember that the due date is a final due date — late assignments will not be accepted, except for emergencies. Your solutions to these problems should be collated in the order listed below. Make sure that you show work, that you write your solutions in such a way that I will be able to understand how you arrived at them, and that your solutions are legible. Please leave enough whitespace on your solutions so that I can write comments.

1. 3.3.1.a. First, convert the decimal integers to unsigned 8-bit binary integers.
2. 3.3.2.a. Use two's complement rather than sign-magnitude. First, convert the decimal integers to two-complement 8-bit binary integers.
3. 3.5.1.a.
4. 3.5.3.a. (10 pts.)
5. 3.10.3.a.
6. 3.10.4.b.
7. 3.10.5.b.
8. 3.11.4.b. (10 pts.)

Unless otherwise stated, each problem is worth five points.