Complete the following problems. Submit the first by putting your webpage into your student account or emailing me a link. Submit the second on paper (submitted in class or slipped under my door) or via email.

1. (9 points) Develop a webpage by directly writing html as described in the handout for Lab 1. Your page should include a title, at least one link, at least one image, and at least three other kinds of tags (headings, bold, lists, etc). You are encouraged to create a meaningful webpage for yourself or some organization, but this is not required.

2. (3 points) As presented in class, our binary magic trick uses 4 cards and allows the subject to pick any number in the range 1–15 (actually 0–15). What is the largest range of numbers from which they could select if 6 cards were used? Explain your answer.

3. (6 points) Translate -6 into a 8-bit binary number in twos-complement notation. Add it to 01101011 and translate the result into decimal notation. Show each of these steps.