CS 180

Review problems for topics covered since midterm 2 (but not on previous homework)

- 1. R-9.4 from page 475 of the text.
- 2. Draw the AVL tree that results from inserting the elements 1, 2, 3, 4, 5, 6 (in that order).
- 3. Draw the AVL tree from the previous problem after inserting 7, 8, 9 (in that order).
- 4. R-11.12 on page 570 of the text.
- 5. Using the Huffman tree from the previous problem, write the binary encoding of the message "spot soda too".
- 6. How many bits did your encoding of the message in the previous problem take? How many bits would a standard ASCII encoding have taken (assuming 8 bits per character)?
- 7. Hashing: Problems R-8.4 to R-8.6 on page 4.5 of the textbook.
- 8. Problem R-8.14 on Page 4.6 of the textbook.