Homework 6

Assigned: April 5, 2013

Due: April 11, 2013

1. (10') Problem 5.1

Note: Ignore the last sentence of (c).

2. (10') Problem 5.2

Note: For (b), you can assume that path compression is not used.

- 3. (10') Suppose the symbols A, B, C, D, E, F, G, H occur with frequencies 6%, 8%, 2%, 60%, 2%, 12%, 6%, 4%, respectively.
 - (a) What is the Huffman encoding of the alphabet?
 - (b) If this encoding is applied to a file consisting of 1,000,000 characters with the given frequencies, what is the length of the encoded file in bits?
- 4. (10') Problem 5.7
- 5. (10') Problem 5.11

Note: You do *not* need to use path compression.