Homework 5 Fundamental Algorithms, Spring 2008, Professor Yap

Due: Wed Apr 9, in class.

INSTRUCTIONS:

- Please read questions carefully. When in doubt, please ask.
- Please write succinctly, to the point. Every sentence must be an complete English sentence.
- You may post general questions to the homework discussion forum in class website. Also, bring your questions to recitation on Monday.
- 1. (0 Points)

Exercise 1.1. (All Exercises in this homework refers to Lecture V)

2. (0 Points)

Exercise 1.2. (Do not hand in problems with 0 Points.)

3. (2 Points)

Exercise 1.3.

4. (0 Points)

Exercise 1.4.

5. (8 Points)

Exercise 1.5.

6. (10 Points)

Exercise 1.8. [NOTE: This is an open-ended problem.]

7. (10 Points)

Exercise 2.3.

8. (10 Points)

Exercise 3.3.

9. (15 Points)

Exercise 3.10.

10. (10 Points)

What binary string would you transmit in order to send the string now is the time, under the dynamic Huffman algorithm? Show your working. Note: you would have to transmit ascii codes for n, o, etc. Just write ASCII(n), ASCII(0), etc, for them.