

CS2402
Spring 2009
Lab 6
Huffman Codes and Heaps
Due Friday, April 3, 2009

Instructions

Write a program that implements Huffman codes to compress text.

1. Use a large text file to compute the frequency of each character.
2. Apply Huffman's algorithm to build the optimal compressing tree. In order to find the trees with minimum weight efficiently, use a heap (with the modification that the root now will contain the smallest element).
3. Compress and the text using your codes.
4. Use your codes to decompress the text, making sure that you obtain the same text you provided as input.

You are NOT allowed to use the Java built-in implementations of heaps or Huffman codes. Test your methods using the same text files you used for labs 4 and 5.