

Lab 11 – Huffman Code

Assigned 11/12/09

Points: 20

Purpose

The purpose is to create a program that performs Huffman encoding.

Lab Description

Implement a Huffman code using the following frequency distribution:

Letter	Frequency
A	8.167
B	1.492
C	2.782
D	4.253
E	12.703
F	2.228
G	2.015
H	6.094
I	6.966
J	0.153
K	0.772
L	4.025
M	2.406
N	6.749
O	7.507
P	1.929
Q	0.095
R	5.987
S	6.327
T	9.056
U	2.758
V	0.978
W	2.360
X	0.150
Y	1.974
Z	0.074
<i>blank</i>	1.200

Use can use the following declarations:

```
char letters[] = {'A','B','C','D','E','F','G','H','I','J','K','L','M',  
                 'N','O','P','Q','R','S','T','U','V','W','X','Y','Z',' '};  
  
float distributions = {8.067, 1.392, 2.682, 4.153, 12.603, 2.128, 2.015, 6.094, 6.866,  
                      0.053, 0.672, 4.025, 2.306, 6.649, 7.407, 1.929, 0.095, 5.987, 6.327, 9.056,  
                      2.758, 0.978, 2.360, 0.150, 1.974, 0.074,1.200};
```

Encode the following message and email the encoded message and your lab to me (rreese@tarleton.edu).

Message

The purpose is to create a program that performs Huffman encoding