

Huffman 1-6

1) Create a Huffman tree

l i l l l 2 2 2 3 3 4
c h m n v f r t - a e

0100

l l l 2 2 2 3 3 4
m n v f r t - a e

l 2 2 2 2 3 3 4
v f r t - a e

2 2 2 2 3 3 3 4
r t - a e

2 2 3 3 3 4 4
c h m m v f r t

3 3 3 4 4 14
v f r t - a e

3 4 4 4 6
v f r t - a e

8
4 4
r t - a e

7
3 e
v f

13
6 7
r t - a e

100 100

0100 000 111 101 001 111 101 101 1100 1101 1101
c r e m t h v f f

0110 101 011 100 000 111 111
m - n + r e e

2) $\frac{1110}{n}$ $\frac{011}{v}$ $\frac{101}{f}$ $\frac{101}{f}$ $\frac{1111}{m}$ $\frac{1101}{a}$ $\frac{000}{n}$

$\frac{1100}{\text{---}}$ $\frac{010}{+}$ $\frac{001}{r}$ $\frac{100}{e}$ $\frac{100}{e}$