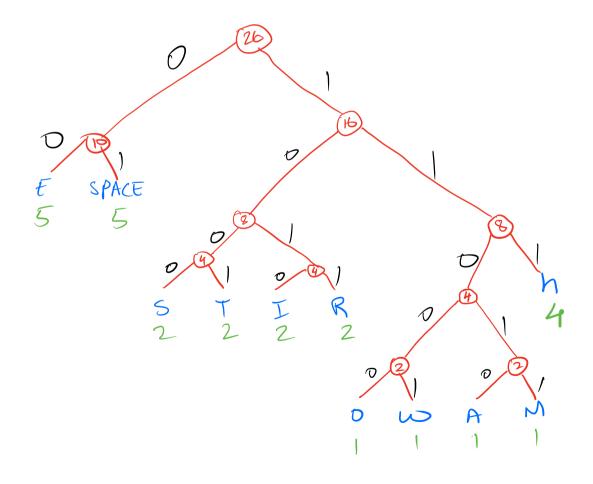
"Home is where the heart is"

Character	Frequency
Space	5
Α	1
E	5
μ,	4
1	2
M	1
D)
R	2
S	2
T	2
W	1



Character	Frequency
Space	0
A	11010
E	$\mathcal{O}_{\mathcal{O}}$
Н	11 [
1	1010
М	11011
D	[1000
R	1011
S	1000
T	1001
W	11001

Part 3: Compression Ratio

Mobydick.txt: 1.761 Medtale.txt: 1.884 Q32x48.txt: 1.882 genomeVirus.txt: 3.976

2.

File name	Final bits
medtalecompression.txt	45056
mobydickcompression.txt	5145680
q32x48.txt	816
genomeVirus.txt	50008

3.

Due to the file compression being lossless the data won't become unreadable, however after the first compression is done there is little to no progress that can be made. The file could also increase in size.

4.

Q32x48.bin

Runlength: 1144 bits Huffman: 816 bits

Efficient for duplicate characters, this leads to better compression