

CMSC 204  
Huffman Lab

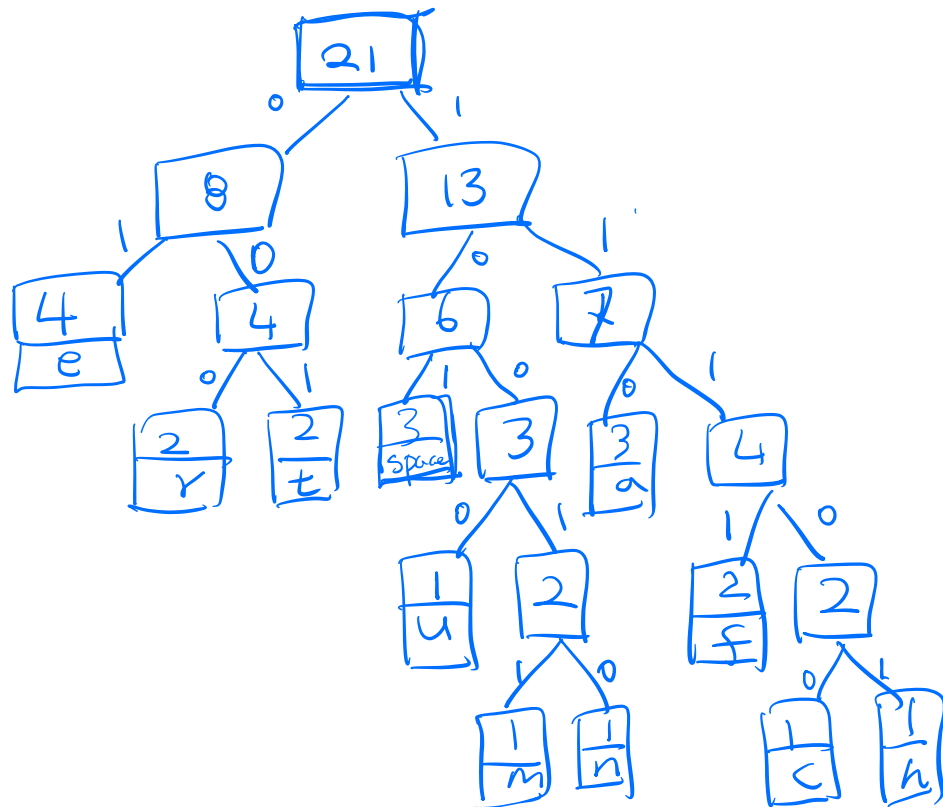
1) Create a Huffman Tree and generate the codes for each character of the following input:

create a huffman tree

For consistency:

1. If same frequency – put in priority queue alphabetically; put space before other characters of the same frequency
2. Add subtrees to end of group with same priority
3. Lower number has higher priority (goes to front)

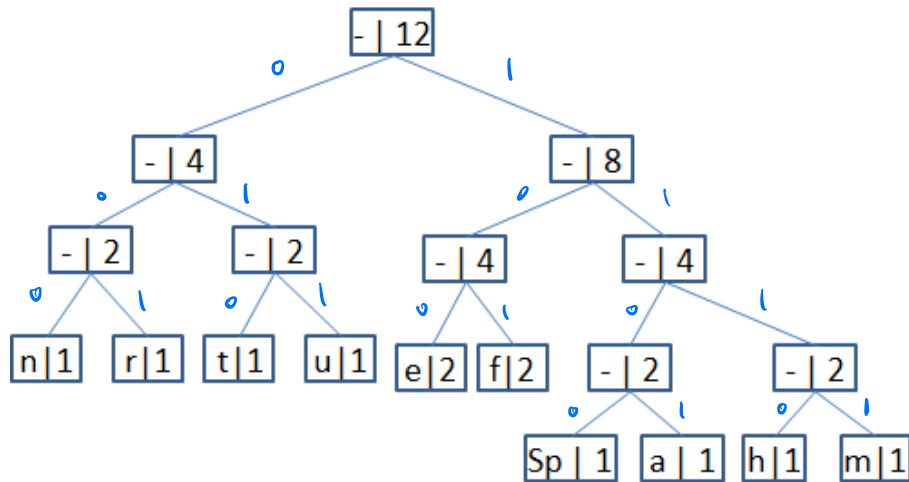
c:1 / r:2 / e:4 / a:3 / t:2 / h:1 / u:1 / f:2  
m:1 / n:1 / space:3



Now encode "create a huffman tree"

111000001100010101110101111111001110  
100101010010000101

2) Based on the following Huffman tree and binary sequence, what is the text



11100111011011111101000110001000100100100  
 h u f f m a n t r e e

Huffman tree!