CMSC 204
Huffman Lab

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

create a huffman tree

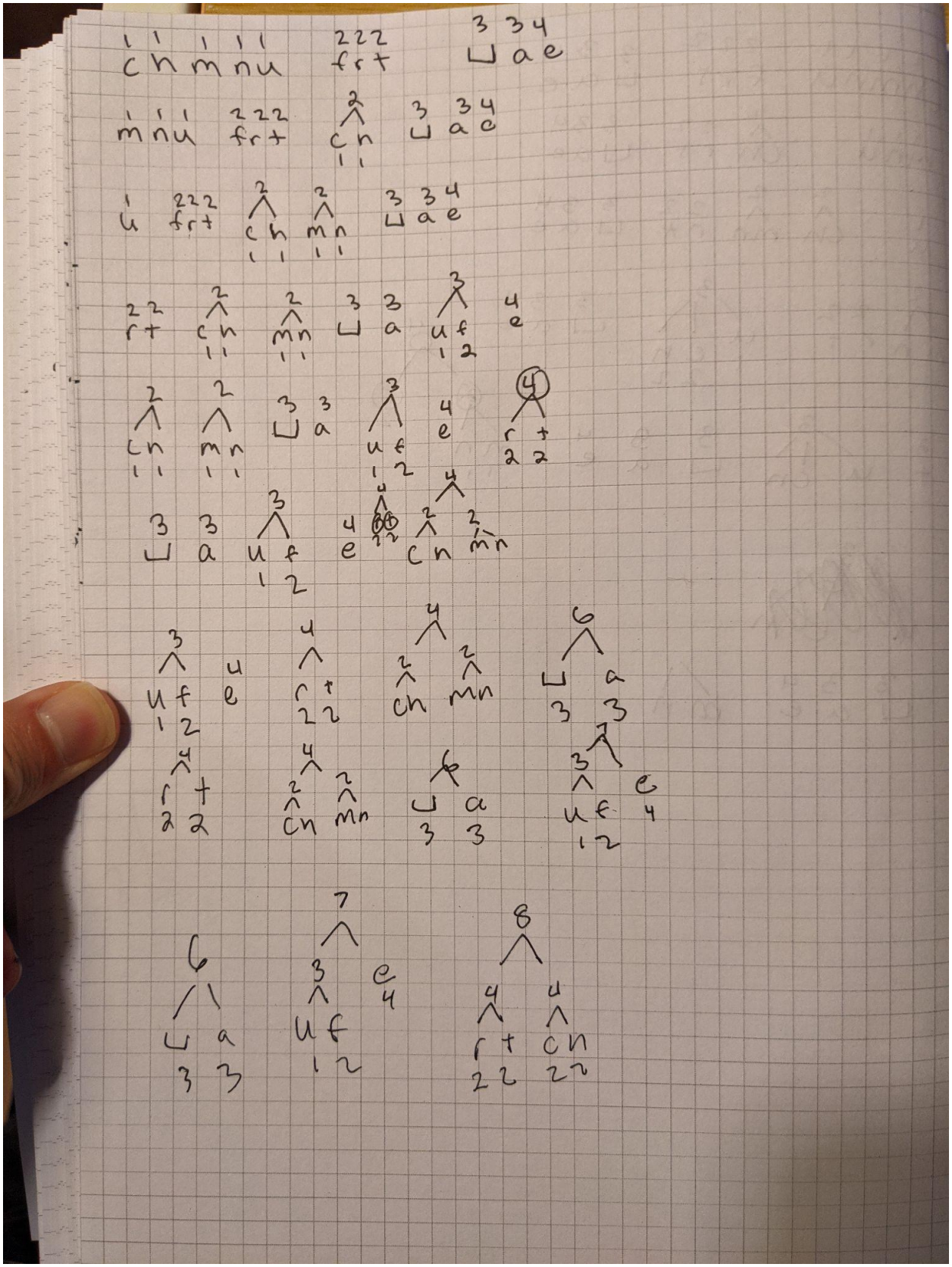
For consistency:

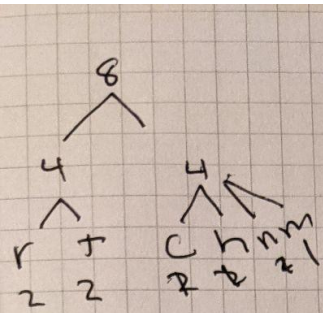
1. If same frequency – put in priority queue alphabetically; put space before other characters of the same frequency
2. Add subtrees to end of group with same priority
3. Lower number has higher priority (goes to front)

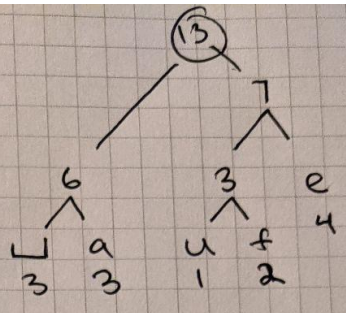
see additional pases uplaaded.

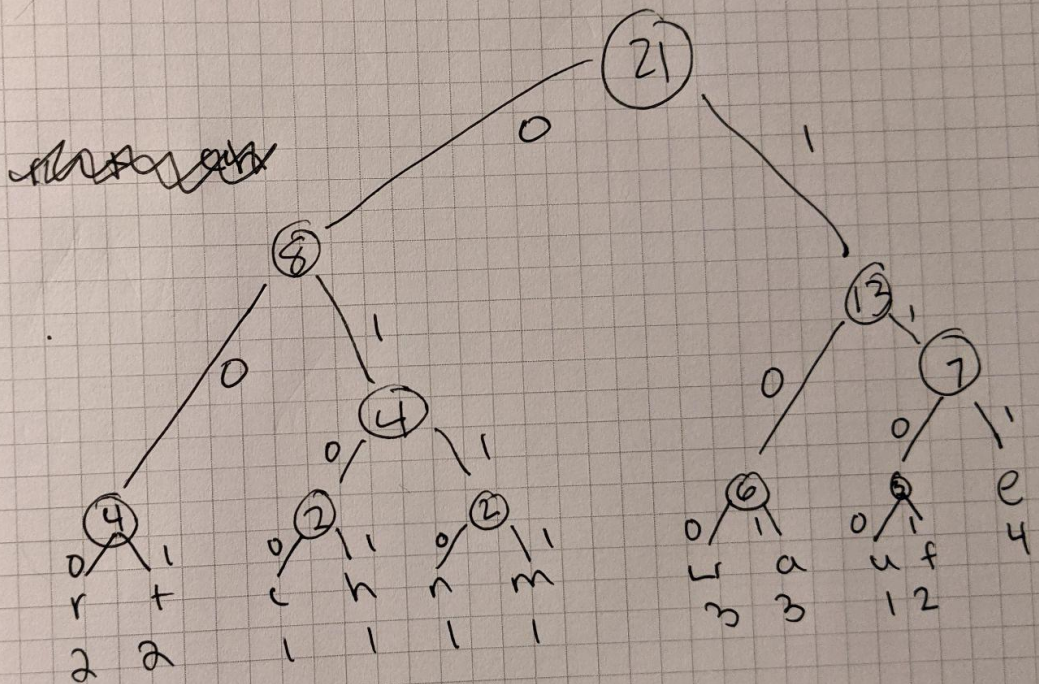
Now encode "create a huffman tree"

see additional pases uploaded.









H

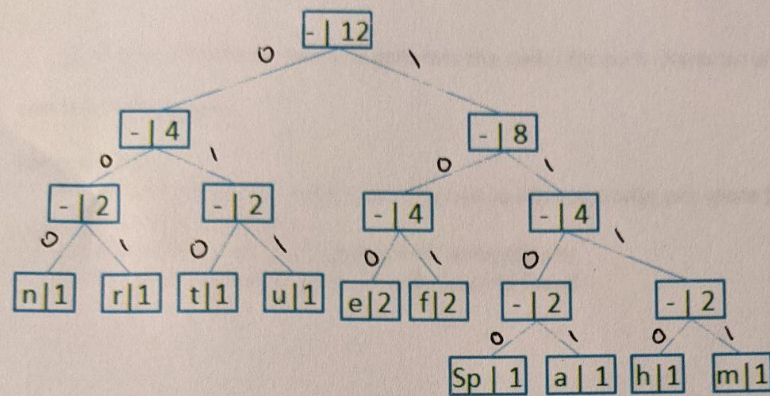
c r e a t e ␣ a ␣ u f f

0100|000|111|101|001|111|100|101|100|0101|1100|1101|1011

0111|101|0110|100|001|000|111|111

m a n ␣ t r e e

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



1110|011|101|101|1111|1101|000|1100|010|001|100|100

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

huffman tree