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)

Diagram

Description automatically generated

Now encode “create a huffman tree”

The tree encoded in the picture above.

1. 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

A picture containing text, whiteboard

Description automatically generated