CMSC 204

Huffman Lab

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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,h,m,n,u = 1 f,r,t = 2 Sp,a = 3 e = 4

A picture containing diagram, sketch, white

Description automatically generated

Now encode “create a huffman tree”

11111 011 000 010 001 000 10 010 10 1100 11110 1101 1101 11100 010 11101 10 001 011 000 000

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 Sp t r e e