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Checkpoint1.txt output:

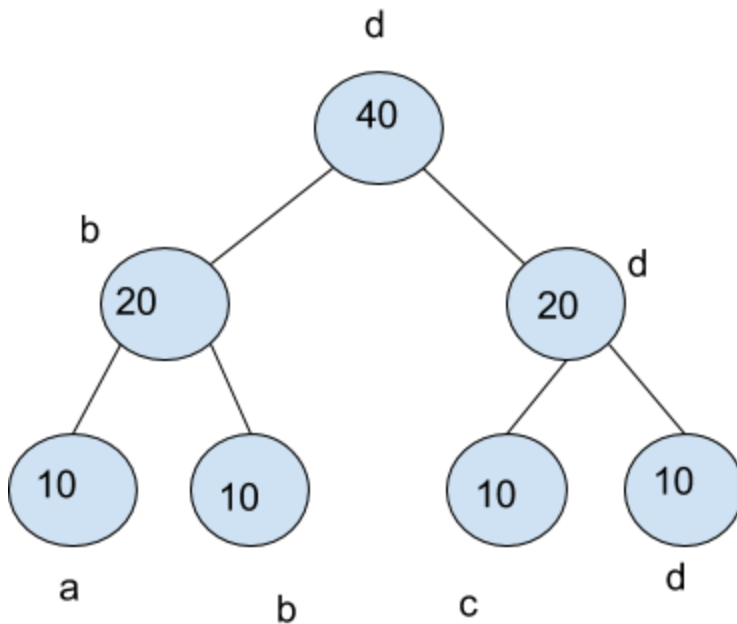
00011011000110110001101100011011000110110001101100011011000110110001
1011

Checkpoint2.txt output :

[illegible]

When we encode the checkpoint1.txt and checkpoint2.txt using our algorithm ,we get the same encoded data as our manually generated Huffman tree.

Checkpoint 1 Tree:



The algorithm takes the two smallest nodes and creates a new node with the combined frequencies of its children. The parent node inherits the symbol of its right child. The larger of the two children goes to the left of its parent, the smaller of the two goes right.