

For Huffman algorithm we need to perform two main parts.

- a) From input characters We need to build a Huffman Tree.
- b) Then we need to traverse the Huffman tree and assign codes to characters.

Steps:

1. We have to create a leaf node for each character and then build a min heap of all the leaf nodes.
2. We have to take two nodes with minimum frequency from the min heap.
3. Create a new internal node with frequency equal to the sum of the taken two nodes frequencies. Make the first extracted node as its left child and the other extracted node as its right child. Add this node to the min heap.
4. we need to repeat step 2 and step 3 until the heap contains only one node. The remaining node is the root node and the tree is complete.