

Name of your class : CSC323-36 Programing Language : C++
Project#:2 Name of the Project : HuffmanLL
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Due date: soft copy:9/9/2019 Monday before midnight
 Hard copy: 9/12/2018 Thursday in class

Algorithm steps of your program :

main():

Step 1: listHead <- get a newNode as the dummy listNode with ("dummy" ,0, null), listHead to point to.

Step 2: inFile <-open input file using argv
 outFile <- open output file using argv

Step 3: chr<- get from inFile
 Prob <- get from inFile
 newNode <- get a new listNode (chr, Prob, null)

Step 4: insertNewNode (listHead, newNode)

Step 5: printList (listHead)

Step 6: repeat step 3 – step 5 until the end of inFile .

Step 7: close all files.

insertNewNode (listHead, newNode):

Step 1: spot<-findSpot(listHead, newNode)

Step 2: newNode.next<-spot.next

Step 3: spot.next<-newNode

findSpot(listHead, newNode):

Step 0 : spot<-listHead

Step 1 : Walking and continue

 if(spot.next!=null and spot.next.count<newNode.count) spot<-spot.next

Step 2 : repeat Step1 until the loop end

Step 3 : return spot

printList (listHead) :

Step 0 : spot<-listHead.next

Step 1 : walking and continue

if(spot!=null) write the Spot content(char and probability to the output file)
Step 2 : repeat Step1 until the loop end