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Project Due date: 03/21/2021

<u>Algorithm Steps for implementing TreeNode class</u>

Steps:

- 1. TreeNode() constructor initializes all the member variables
- PrintNode() method checks which variables are not null. If it is Null print NULL
 otherwise price the data in the format: (T's chStr, T's frequency, T's code, T's next chStr,
 T's left's chStr, T's right's chStr);

Algorithm Steps for implementing LinkedList class

Steps:

- 1. LinkedList() constructor sets up the member variables.
- 2. InsertNewNode() method checks if the list is empty. If it is , then make the inserted node listHeads next node
 - Or else, iterate through the list, to see if a node in the list is bigger than the node being inserted.

- b. If it is, then insert the new node in front of the bigger node/
- c. Or else, put it at the end of the list.
- 3. The printList() method iterates through the linked list and calls printNode() on each node.

<u>Algorithm Steps for implementing BinaryTree class</u>

Steps:

- 1. BinaryTree() constructor initializes the trees root node to the given node.
- 2. InOrderTraversal() iterates through the tree and checks left nodes, prints the current node, then checks right nodes.
- 3. preOrderTraversal() iterates through the tree and prints the current node, checks left nodes, then checks right nodes.
- 4. postOrderTraversal() iterates through the tree and checks left nodes, then checks right nodes, then prints the current node.
- 5. isLeaf() method checks if a nodes left and right nodes are null. If it is, then it is a leaf

```
public void preOrderTraversal(TreeNode root, FileWriter debugFile){
    if(root == null){
    root.printNode(root,debugFile);
    preOrderTraversal(root.left,debugFile);
    preOrderTraversal(root.right,debugFile);
public void inOrderTraversal(TreeNode root, FileWriter debugFile){
    preOrderTraversal(root.left,debugFile);
    root.printNode(root,debugFile);
    preOrderTraversal(root.right,debugFile);
public void postOrderTraversal(TreeNode root, FileWriter debugFile){
    if(root == null){
    preOrderTraversal(root.left,debugFile);
    preOrderTraversal(root.right,debugFile);
   root.printNode(root, debugFile);
public boolean isLeaf(TreeNode node){
    if(node.left == null && node.right == null){
```

Algorithm Steps for implementing HuffmanCoding class

Steps:

- 1. HuffmanCoding() constructor initializes each element of charCountAry[] to 0;
- 2. computeCharCounts() method iterates through the original Input file and counts how many times each character repeats.
- printCountAry() method iterates through the charCountAry[] and print out all the characters that are in the input text
- 4. constructHuffmanLList() iterates through the charCountAry[] and :
 - a. Extracts the char value of each index
 - b. Keeps track of how many times each char occurred
 - c. Adds the extracted information in a new node and adds it to the linkedList.
- 5. constructHuffmanBinTree() method iterates through the linked list. As it iterates :

- a. The current nodes character sequence and frequency is added and combined.
- b. The first node is set as the left node.
- c. The second node is set as the right node.
- d. The head of the updated node is set as the trees root node.
- 6. constructCharCode() method iterates through the binary tree and identifies each character's code.
 - a. This is done by appending 0 at every left traversal and 1 at every right traversal.
- 7. The encode() method is responsible for compressing the input text.
 - a. This is done by iterating through the input text and encoding it into binary
- 8. The Decode() checks if the encode() method functions properly.
 - a. This is done by traversing the binary tree. If the encoding encoded a 1, we traverse right. If it's a 0 we go right and extract the character value of each code.
- 9. The userInterface() asks the user if they want to encode the file. If they do, the encoding process begins, if they choose not to, then the program terminates.

```
public void userInterface(FileWriter debugFile, TreeNode root) {
   String nameOrg,nameCompress,nameDeCompress;
   char yesNo;
   Scanner in = new Scanner(System.in);
   System.out.println("Compress File?");
   yesNo = in.nextLine().charAt(0);
   if(yesNo == 'N'|| yesNo == 'n') {
      return;
   }else{
      System.out.println("Enter the name (without .txt ) of the file to be compressed");
      nameOrg = in.nextLine();
   }
   nameCompress = nameOrg + "_Compressed.txt";
   nameOrg enameOrg + "_DeCompress.txt";
   nameOrg = nameOrg+".txt";

   try {
      File orgFile = new File(nameOrg);
      FileWriter compFile = new FileWriter(nameCompress);
      encode(orgFile,compFile,debugFile);
      comprile.close();
      File compressedFile, deCompFile, orgFile, root);
      deCompFile.close();
   }catch (IOException e) {
      System.out.println("Exception in User Interface");
   }
}
```

Output: data.txt

Original:

The Old Man and the Sea tells the story of a battle between an aging, experienced fisherman, Santiago, and a large marlin. The story opens with Santiago having gone 84 days without catching a fish, and now being seen as salao, the worst form of unluckiness. He is so unlucky that his young apprentice, Manolin, has been forbidden by his parents to sail with himand has been told instead to fish with successful fishermen. The boy visits Santiago's shack each night, hauling his fishing gear, preparing food, talking about American baseball and his favorite player, Joe DiMaggio. Santiago tells Manolin that on the next day, he will venture far out into the Gulf Stream, north of Cuba in the Straits of Florida to fish, confident that his unlucky streak is near its end. On the eighty-fifth day of his unlucky streak, Santiago takes his skiff into the Gulf Stream, sets his lines and by noon, has his bait taken by a big fishthat he is sure is a marlin. Unable to haul in the great marlin, Santiago is instead pulled by the marlin, and two days and nights pass with Santiago holding onto the line. Though wounded by the struggle and in pain, Santiago expresses a compassionate appreciation for his adversary, often referring to him as a brother. He also determines that, because of the fish's great dignity,no one shall deserve to eat the marlin. On the third day, the fish begins to circle the skiff. Santiago, worn out and almost delirious, uses all his remaining strength to pull the fish onto its side and stab the marlin with a harpoon. Santiago straps the marlin to the side of his skiff and heads home, thinking about the high price the fish will bring him at the marketand how many people he will feed. On his way in to shore, sharks are attracted to the marlin's blood. Santiago kills a great mako shark with his harpoon, but he loses the weapon. He makes a new harpoon by strapping his knifeto the end of an oar to help ward off the next line of sharks; five sharks are slain and many others are driven away. But the sharks keep coming, and by nightfall the sharks have almost devoured the marlin's entire carcass, leaving a skeleton consisting mostly of its backbone, its tail, and its head. Santiago knows that he is destroyed andtells the sharks of how they have killed his dreams. Upon reaching the shore before dawn on the next day, Santiago struggles to his shack, carrying the heavy mast on his shoulder, leaving the fish head and the bones on the shore. Once home, he slumps onto his bed and falls into a deep sleep. A group of fishermen gather the next day around the boatwhere the fish's skeleton is still

attached. One of the fishermen measures it to be 18 feet (5.5 m) from nose to tail. Pedrico is given the head of the fish, and the other fishermen tell Manolin to tell the old man how sorry they are. Tourists at the nearby cafe mistakenly take it for a shark. Manolin, worried about the old man, cries upon finding him safe asleepand at his injured hands, and brings him newspapers and coffee. When the old man wakes, they promise to fish together once again. Upon his return to sleep, Santiago dreams of his youth of lions on an African beach.

Data.txt Compressed:

Data.txt DeCompressed:

The Old Man and the Sea tells the story of a battle between an aging, experienced fisherman, Santiago, and a large marlin. The story opens with Santiago having gone 84 days without catching a fish, and now being seen as salao, the worst form of unluckiness. He is so unlucky that his young apprentice, Manolin, has been forbidden by his parents to sail with himand has been told instead to fish with successful fishermen. The boy visits Santiago's shack each night, hauling his fishing gear, preparing food, talking about American baseball and his favorite player, Joe DiMaggio. Santiago tells Manolin that on the next day, he will venture far out into the Gulf Stream, north of Cuba in the Straits of Florida to fish, confident that his unlucky streak is near its end. On the eighty-fifth day of his unlucky streak, Santiago takes his skiff into the Gulf Stream, sets his lines and by noon, has his bait taken by a big fishthat he is sure is a marlin. Unable to haul in the great marlin, Santiago is instead pulled by the marlin, and two days and nights pass with Santiago holding onto the line. Though wounded by the struggle and in pain, Santiago expresses a compassionate appreciation for his adversary, often referring to him as a brother. He also determines that, because of the fish's great dignity, no one shall deserve to eat the marlin. On the third day, the fish begins to circle the skiff.Santiago, worn out and almost delirious, uses all his remaining strength to pull the fish onto its sideand stab the marlin with a harpoon. Santiago straps the marlin to the side of his skiff and heads home, thinking about the high price the fish will bring him at the marketand how many people he will feed. On his way in to shore, sharks are attracted to the marlin's blood. Santiago kills a great mako shark with his harpoon, but he loses the weapon. He makes a new harpoon by strapping his knifeto the end of an oar to help ward off the next line of sharks; five sharks are slain and many others are driven away. But the sharks keep coming, and by nightfall the sharks have almost devoured the marlin's entire carcass, leaving a skeleton consisting mostly of its backbone, its tail, and its head. Santiago knows that he is destroyed andtells the sharks of how they have killed his dreams. Upon reaching the shore before dawn on the next day, Santiago struggles to his shack, carrying the heavy mast on his shoulder, leaving the fish head and the bones on the shore. Once home, he slumps onto his bed and falls into a deep sleep. A group of fishermen gather the next day around the boatwhere the fish's skeleton is still attached. One of the fishermen measures it to be 18 feet (5.5 m) from nose to tail. Pedrico is given the head of the fish, and the other fishermen tell Manolin to tell the old man how sorry they are. Tourists at the nearby cafe mistakenly take it for a shark. Manolin, worried about the old man, cries upon finding him safe asleepand at his injured hands, and brings him newspapers and coffee. When the old man wakes, they promise to fish together once again. Upon his return to sleep, Santiago dreams of his youth of lions on an African beach.

Data.txt Debug:

PRINTING CHARACTER COUNT ARRAY **** >>>

char32 578

char395

char401

char411

char44 43

char451

char46 27

char491

char521

char532

char562

char591

char653

char661

char671

- char68 1
- char70 1
- char712
- char72 3
- char741
- char77 6
- char796
- char80 1
- char83 18
- char845
- char853
- char871
- char97 241
- char98 40
- char99 38
- char100 84
- char101 270
- char102 71
- char103 65
- char104 184
- char105 196
- char106 1
- char107 37
- char108 101
- char109 49
- char110 199
- char111 171
- char112 40
- char114 126
- char115 191
- char116 220
- char117 46
- char118 15
- char119 30
- char120 6
- char121 40

^{***}PRINTING LINKED LIST***

```
(DUMMY,0,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,',null,null)
(',5,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,(,null,null)
((,1,,',null,null)
(',5,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
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((,1,,),null,null)
(),1,,',null,null)
(',5,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,(,null,null)
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(),1,,',null,null)
(',5,,,,null,null)
(,,43,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,(,null,null)
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(),1,,-,null,null)
(-,1,,',null,null)
(',5,,,,null,null)
(,,43,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,(,null,null)
((,1,,),null,null)
(),1,,-,null,null)
(-,1,,',null,null)
```

```
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(.,27,,,,null,null)
(,,43,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
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(),1,,-,null,null)
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(',5,,.,null,null)
(.,27,,,,null,null)
(,,43,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
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(',5,,.,null,null)
(.,27,,,,null,null)
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(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
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(4,1,,5,null,null)
(5,2,,',null,null)
(',5,,.,null,null)
(.,27,,,,null,null)
(,,43,, ,null,null)
(,578,,NULL,NULL,NULL)
```

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(8,2,,A,null,null)

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(4,1,,;,null,null)
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(B,1,,5,null,null)
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(8,2,,A,null,null)
(A,3,,',null,null)
(',5,,.,null,null)
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***PRINTING LINKED LIST***
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(;,1,,B,null,null)
(B,1,,C,null,null)
(C,1,,5,null,null)
(5,2,,8,null,null)
(8,2,,A,null,null)
(A,3,,',null,null)
(',5,,.,null,null)
(.,27,,,,null,null)
(,,43,, ,null,null)
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(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,(,null,null)
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(),1,,-,null,null)
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(;,1,,B,null,null)
(B,1,,C,null,null)
(C,1,,D,null,null)
(D,1,,5,null,null)
(5,2,,8,null,null)
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(A,3,,',null,null)
(',5,,.,null,null)
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(B,1,,C,null,null)
(C,1,,D,null,null)
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(F,1,,5,null,null)
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(8,2,,A,null,null)
(A,3,,',null,null)
(',5,,.,null,null)
(.,27,,,,null,null)
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(,,43,, ,null,null)

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(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
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(C,1,,D,null,null)
(D,1,,F,null,null)
(F,1,,5,null,null)
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(G,2,,A,null,null)
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(B,1,,C,null,null)
(C,1,,D,null,null)
(D,1,,F,null,null)
(F,1,,5,null,null)
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(8,2,,G,null,null)
(G,2,,A,null,null)
```

(A,3,,H,null,null)

```
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(F,1,,J,null,null)
(J,1,,5,null,null)
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(,578,,NULL,NULL,NULL)
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(4,1,,;,null,null)
(;,1,,B,null,null)
(B,1,,C,null,null)
(C,1,,D,null,null)
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- (F,1,,J,null,null)
- (J,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
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- (H,3,,',null,null)
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- (.,27,,,,null,null)
- (,,43,, ,null,null)
- (,578,,NULL,NULL,NULL)

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- (),1,,-,null,null)
- (-,1,,1,null,null)
- (1,1,,4,null,null)
- (4,1,,;,null,null)
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- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
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- (8,2,,G,null,null)
- (G,2,,A,null,null)
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- (H,3,,',null,null)
- (',5,,M,null,null)
- (M,6,,O,null,null)
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- (.,27,,,,null,null)
- (,,43,, ,null,null)
- (,578,,NULL,NULL,NULL)

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- (M,6,,O,null,null)
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- (.,27,,,,null,null)
- (,,43,,,null,null)
- (,578,,NULL,NULL,NULL)

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- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,',null,null) (',5,,T,null,null)
- (T,5,,M,null,null)
- ______
- (M,6,,O,null,null) (O,6,,S,null,null)

```
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(.,27,,,,null,null)
(,,43,, ,null,null)
(,578,,NULL,NULL,NULL)
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(;,1,,B,null,null)
(B,1,,C,null,null)
(C,1,,D,null,null)
(D,1,,F,null,null)
(F,1,,J,null,null)
(J,1,,P,null,null)
(P,1,,5,null,null)
(5,2,,8,null,null)
(8,2,,G,null,null)
(G,2,,A,null,null)
(A,3,,H,null,null)
(H,3,,U,null,null)
(U,3,,',null,null)
(',5,,T,null,null)
(T,5,,M,null,null)
(M,6,,O,null,null)
(O,6,,S,null,null)
(S,18,,,,null,null)
(.,27,,,,null,null)
(,,43,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,(,null,null)
((,1,,),null,null)
(),1,,-,null,null)
```

(-,1,,1,null,null)

- (1,1,,4,null,null)
- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
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- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,S,null,null)
- (S,18,,.,null,null)
- (.,27,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,,,null,null)
- (,,43,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,i,null,null)
- (i,196,,n,null,null)

- (n,199,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

- (DUMMY,0,,(,null,null)
- ((,1,,),null,null)
- (),1,,-,null,null)
- (-,1,,1,null,null)
- (1,1,,4,null,null)
- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,S,null,null)
- (S,18,,,,null,null)
- (.,27,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null) (b,40,,p,null,null)
- (p,40,,,,null,null)
- (,,43,,m,null,null)

- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, null, null)
- (,578,,NULL,NULL,NULL)

- (DUMMY,0,,(,null,null)
- ((,1,,),null,null)
- (),1,,-,null,null)
- (-,1,,1,null,null)
- (1,1,,4,null,null)
- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
-
- (P,1,,W,null,null) (W,1,,j,null,null)
- (j,1,,5,null,null)
- U, 1,, 5, 11 a11, 11 a11,
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)

- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,S,null,null)
- (S,18,,,,null,null)
- (.,27,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,,,null,null)
- (,,43,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (-,---,,--,--,--,--,
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

- ((,1,,),null,null)
- (),1,,-,null,null)
- (-,1,,1,null,null)
- (1,1,,4,null,null)
- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)

- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,S,null,null)
- (S,18,,,,null,null)
- (.,27,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (0,50,,0,11411,11411)
- (b,40,,p,null,null)
- (p,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, null, null)
- (,578,,NULL,NULL,NULL)

- ((,1,,),null,null)
- (),1,,-,null,null)
- (-,1,,1,null,null)
- (1,1,,4,null,null)
- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,.,null,null)
- (.,27,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)

- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

- ((,1,,),null,null)
- (),1,,-,null,null)
- (-,1,,1,null,null)
- (1,1,,4,null,null)
- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)

- (M,6,,O,null,null)
- (O,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,,,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

- ((,1,,),null,null)
- (),1,,-,null,null)
- (-,1,,1,null,null)
- (1,1,,4,null,null)
- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)

- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,.,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)

- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, null, null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,(,null,null)
- ((,1,,),null,null)
- (),1,,-,null,null)
- (-,1,,1,null,null)
- (1,1,,4,null,null)
- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (1,1,,0,11411,11411)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,..,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)

```
(c,38,,b,null,null)
```

- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

*** CONSTRUCTING HUFFMAN BINARY TREE

PRINTING LINKED LIST

- (-,1,,1,null,null)
- (1,1,,4,null,null)
- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)

- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,(),null,null)
- ((),2,null,A,(,))
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,.,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)

- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***

- (4,1,,;,null,null)
- (;,1,,B,null,null)
- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,(),null,null)
- ((),2,null,-1,(,))
- (-1,2,null,A,-,1)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,,,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)

- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (0,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, null, null)
- (,578,,NULL,NULL,NULL)

- (B,1,,C,null,null)
- (C,1,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,(),null,null)
- ((),2,null,-1,(,))
- (-1,2,null,4;,-,1)
- (4;,2,null,A,4,;)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)

- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,,,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
-
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

- (DUMMY,0,,D,null,null)
- (D,1,,F,null,null)
- (F,1,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)

- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,(),null,null)
- ((),2,null,-1,(,))
- (-1,2,null,4;,-,1)
- (4;,2,null,BC,4,;)
- (BC,2,null,A,B,C)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,.,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)

- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,J,null,null)
- (J,1,,P,null,null)
- (P,1,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,(),null,null)
- ((),2,null,-1,(,))
- (-1,2,null,4;,-,1)
- (4;,2,null,BC,4,;)
- (BC,2,null,DF,B,C)
- (DF,2,null,A,D,F)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,..,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)

- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,W,null,null)
- (W,1,,j,null,null)
- (j,1,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,(),null,null)
- ((),2,null,-1,(,))
- (-1,2,null,4;,-,1)
- (4;,2,null,BC,4,;)
- (BC,2,null,DF,B,C)
- (DF,2,null,JP,D,F)
- (JP,2,null,A,J,P)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)

- (S,18,,.,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,5,null,null)
- (5,2,,8,null,null)
- (8,2,,G,null,null)
- (G,2,,(),null,null)
- ((),2,null,-1,(,))
- (-1,2,null,4;,-,1)
- (4;,2,null,BC,4,;)
- (BC,2,null,DF,B,C)
- (DF,2,null,JP,D,F)
- (JP,2,null,Wj,J,P)
- (Wj,2,null,A,W,j)

- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,..,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (0,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,G,null,null)
- (G,2,,(),null,null)

- ((),2,null,-1,(,))
- (-1,2,null,4;,-,1)
- (4;,2,null,BC,4,;)
- (BC,2,null,DF,B,C)
- (DF,2,null,JP,D,F)
- (JP,2,null,Wj,J,P)
- (Wj,2,null,A,W,j)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,58,null,null)
- (58,4,null,',5,8)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,.,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)

- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, null, null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,-1,null,null)
- (-1,2,null,4;,-,1)
- (4;,2,null,BC,4,;)
- (BC,2,null,DF,B,C)
- (DF,2,null,JP,D,F)
- (JP,2,null,Wj,J,P)
- (Wj,2,null,A,W,j)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,58,null,null)
- (58,4,null,G(),5,8)
- (G(),4,null,',G,())
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,..,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)

- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,BC,null,null)
- (BC,2,null,DF,B,C)
- (DF,2,null,JP,D,F)
- (JP,2,null,Wj,J,P)
- (Wj,2,null,A,W,j)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,58,null,null)
- (58,4,null,G(),5,8)
- (G(),4,null,-14;,G,())
- (-14;,4,null,',-1,4;)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,.,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
-
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)

- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

- (JP,2,null,Wj,J,P)
- (Wj,2,null,A,W,j)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,58,null,null)
- (58,4,null,G(),5,8)
- (G(),4,null,-14;,G,())
- (-14;,4,null,BCDF,-1,4;)
- (BCDF,4,null,',BC,DF)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,,.,null,null)
- (.,27,,w,null,null)

- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

- (DUMMY,0,,A,null,null)
- (A,3,,H,null,null)
- (H,3,,U,null,null)
- (U,3,,58,null,null)
- (58,4,null,G(),5,8)
- (G(),4,null,-14;,G,())
- (-14;,4,null,BCDF,-1,4;)
- (BCDF,4,null,JPWj,BC,DF)
- (JPWj,4,null,',JP,Wj)
- (',5,,T,null,null)
- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)

- (x,6,,v,null,null)
- (v,15,,S,null,null)
- (S,18,..,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (0,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,U,null,null)
- (U,3,,58,null,null)
- (58,4,null,G(),5,8)
- (G(),4,null,-14;,G,())
- (-14;,4,null,BCDF,-1,4;)
- (BCDF,4,null,JPWj,BC,DF)
- (JPWj,4,null,',JP,Wj)
- (',5,,T,null,null)
- (T,5,,M,null,null)

- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,AH,null,null)
- (AH,6,null,v,A,H)
- (v,15,,S,null,null)
- (S,18,..,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- $(t,220,\alpha,null,null)$
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,G(),null,null)
- (G(),4,null,-14;,G,())
- (-14;,4,null,BCDF,-1,4;)
- (BCDF,4,null,JPWj,BC,DF)
- (JPWj,4,null,',JP,Wj)
- (',5,,T,null,null)

- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,AH,null,null)
- (AH,6,null,U58,A,H)
- (U58,7,null,v,U,58)
- (v,15,,S,null,null)
- (S,18,,.,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,BCDF,null,null)
- (BCDF,4,null,JPWj,BC,DF)
- (JPWj,4,null,',JP,Wj)
- (',5,,T,null,null)

- (T,5,,M,null,null)
- (M,6,,O,null,null)
- (O,6,,x,null,null)
- (x,6,,AH,null,null)
- (AH,6,null,U58,A,H)
- (U58,7,null,G()-14;,U,58)
- (G()-14;,8,null,v,G(),-14;)
- (v,15,,S,null,null)
- (S,18,..,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (-,-,-,---,--,--,--,
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (0,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)
- ***PRINTING LINKED LIST***
- (DUMMY,0,,',null,null)
- (',5,,T,null,null)
- (T,5,,M,null,null)

```
(M,6,,O,null,null)
(O,6,,x,null,null)
(x,6,,AH,null,null)
(AH,6,null,U58,A,H)
(U58,7,null,G()-14;,U,58)
(G()-14;,8,null,BCDFJPWj,G(),-14;)
(BCDFJPWj,8,null,v,BCDF,JPWj)
(v,15,,S,null,null)
(S,18,,.,null,null)
(.,27,,w,null,null)
(w,30,,k,null,null)
(k,37,,c,null,null)
(c,38,,b,null,null)
(b,40,,p,null,null)
(p,40,,y,null,null)
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,g,null,null)
(g,65,,f,null,null)
(f,71,,d,null,null)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,M,null,null)
(M,6,,O,null,null)
```

(O,6,,x,null,null)

```
(x,6,,AH,null,null)
(AH,6,null,U58,A,H)
(U58,7,null,G()-14;,U,58)
```

(G()-14;,8,null,BCDFJPWj,G(),-14;)

(BCDFJPWj,8,null,'T,BCDF,JPWj)

('T,10,null,v,',T)

(v,15,,S,null,null)

(S,18,..,null,null)

(.,27,,w,null,null)

(w,30,,k,null,null)

(k,37,,c,null,null)

(c,38,,b,null,null)

(b,40,,p,null,null)

(p,40,,y,null,null)

(y,40,,,,null,null)

(,,43,,u,null,null)

(u,46,,m,null,null)

(m,49,,g,null,null)

(g,65,,f,null,null)

(f,71,,d,null,null)

(d,84,,l,null,null)

(l,101,,r,null,null)

(r,126,,o,null,null)

(o,171,,h,null,null)

(h,184,,s,null,null)

(s,191,,i,null,null)

(i,196,,n,null,null)

(n,199,,t,null,null)

(t,220,,a,null,null)

(a,241,,e,null,null)

(e,270,, ,null,null)

(,578,,NULL,NULL,NULL)

PRINTING LINKED LIST

(DUMMY,0,,x,null,null)

(x,6,,AH,null,null)

(AH,6,null,U58,A,H)

(U58,7,null,G()-14;,U,58)

```
(G()-14;,8,null,BCDFJPWj,G(),-14;)
(BCDFJPWj,8,null,'T,BCDF,JPWj)
('T,10,null,MO,',T)
(MO,12,null,v,M,O)
(v,15,,S,null,null)
(S,18,,.,null,null)
(.,27,,w,null,null)
(w,30,,k,null,null)
(k,37,,c,null,null)
(c,38,,b,null,null)
(b,40,,p,null,null)
(p,40,,y,null,null)
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,g,null,null)
(g,65,,f,null,null)
(f,71,,d,null,null)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,U58,null,null)
(U58,7,null,G()-14;,U,58)
(G()-14;,8,null,BCDFJPWj,G(),-14;)
(BCDFJPWj,8,null,'T,BCDF,JPWj)
('T,10,null,MO,',T)
```

(MO,12,null,xAH,M,O)

```
(xAH,12,null,v,x,AH)
```

- (v,15,,S,null,null)
- (S,18,..,null,null)
- (.,27,,w,null,null)
- (w,30,,k,null,null)
- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (0,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

(DUMMY,0,,BCDFJPWj,null,null)

(BCDFJPWj,8,null,'T,BCDF,JPWj)

('T,10,null,MO,',T)

(MO,12,null,xAH,M,O)

(xAH,12,null,v,x,AH)

(v,15,,U58G()-14;,null,null)

(U58G()-14;,15,null,S,U58,G()-14;)

(S,18,,.,null,null)

(.,27,,w,null,null)

```
(w,30,,k,null,null)
```

- (k,37,,c,null,null)
- (c,38,,b,null,null)
- (b,40,,p,null,null)
- (p,40,,y,null,null)
- (y,40,,,,null,null)
- (,,43,,u,null,null)
- (u,46,,m,null,null)
- (m,49,,g,null,null)
- (g,65,,f,null,null)
- (f,71,,d,null,null)
- (d,84,,l,null,null)
- (l,101,,r,null,null)
- (r,126,,o,null,null)
- (o,171,,h,null,null)
- (h,184,,s,null,null)
- (s,191,,i,null,null)
- (i,196,,n,null,null)
- (n,199,,t,null,null)
- (t,220,,a,null,null)
- (a,241,,e,null,null)
- (e,270,, ,null,null)
- (,578,,NULL,NULL,NULL)

PRINTING LINKED LIST

(DUMMY,0,,MO,null,null)

(MO,12,null,xAH,M,O)

(xAH,12,null,v,x,AH)

(v,15,,U58G()-14;,null,null)

(U58G()-14;,15,null,S,U58,G()-14;)

(S,18,,BCDFJPWj'T,null,null)

(BCDFJPWj'T,18,null,.,BCDFJPWj,'T)

(.,27,,w,null,null)

(w,30,,k,null,null)

(k,37,,c,null,null)

(c,38,,b,null,null)

(b,40,,p,null,null)

(p,40,,y,null,null)

```
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,g,null,null)
(g,65,,f,null,null)
(f,71,,d,null,null)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,v,null,null)
(v,15,,U58G()-14;,null,null)
(U58G()-14;,15,null,S,U58,G()-14;)
(S,18,,BCDFJPWj'T,null,null)
(BCDFJPWj'T,18,null,MOxAH,BCDFJPWj,'T)
(MOxAH,24,null,.,MO,xAH)
(.,27,,w,null,null)
(w,30,,k,null,null)
(k,37,,c,null,null)
(c,38,,b,null,null)
(b,40,,p,null,null)
(p,40,,y,null,null)
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,g,null,null)
(g,65,,f,null,null)
```

(f,71,,d,null,null)

```
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,S,null,null)
(S,18,,BCDFJPWj'T,null,null)
(BCDFJPWj'T,18,null,MOxAH,BCDFJPWj,'T)
(MOxAH,24,null,.,MO,xAH)
(.,27,,w,null,null)
(w,30,,vU58G()-14;,null,null)
(vU58G()-14;,30,null,k,v,U58G()-14;)
(k,37,,c,null,null)
(c,38,,b,null,null)
(b,40,,p,null,null)
(p,40,,y,null,null)
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,g,null,null)
(g,65,,f,null,null)
(f,71,,d,null,null)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
```

```
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,MOxAH,null,null)
(MOxAH,24,null,,,MO,xAH)
(.,27,,w,null,null)
(w,30,,vU58G()-14;,null,null)
(vU58G()-14;,30,null,SBCDFJPWj'T,v,U58G()-14;)
(SBCDFJPWj'T,36,null,k,S,BCDFJPWj'T)
(k,37,,c,null,null)
(c,38,,b,null,null)
(b,40,,p,null,null)
(p,40,,y,null,null)
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,g,null,null)
(g,65,,f,null,null)
(f,71,,d,null,null)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,w,null,null)
(w,30,,vU58G()-14;,null,null)
```

```
(vU58G()-14;,30,null,SBCDFJPWj'T,v,U58G()-14;)
(SBCDFJPWj'T,36,null,k,S,BCDFJPWj'T)
(k,37,,c,null,null)
(c,38,,b,null,null)
(b,40,,p,null,null)
(p,40,,y,null,null)
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,MOxAH.,null,null)
(MOxAH.,51,null,g,MOxAH,.)
(g,65,,f,null,null)
(f,71,,d,null,null)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,SBCDFJPWj'T,null,null)
(SBCDFJPWj'T,36,null,k,S,BCDFJPWj'T)
(k,37,,c,null,null)
(c,38,,b,null,null)
(b,40,,p,null,null)
(p,40,,y,null,null)
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,MOxAH.,null,null)
(MOxAH.,51,null,wvU58G()-14;,MOxAH,.)
```

```
(wvU58G()-14;,60,null,g,w,vU58G()-14;)
(g,65,,f,null,null)
(f,71,,d,null,null)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,c,null,null)
(c,38,,b,null,null)
(b,40,,p,null,null)
(p,40,,y,null,null)
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,MOxAH.,null,null)
(MOxAH.,51,null,wvU58G()-14;,MOxAH,.)
(wvU58G()-14;,60,null,g,w,vU58G()-14;)
(g,65,,f,null,null)
(f,71,,SBCDFJPWj'Tk,null,null)
(SBCDFJPWj'Tk,73,null,d,SBCDFJPWj'T,k)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
```

```
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,p,null,null)
(p,40,,y,null,null)
(y,40,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,MOxAH.,null,null)
(MOxAH.,51,null,wvU58G()-14;,MOxAH,.)
(wvU58G()-14;,60,null,g,w,vU58G()-14;)
(g,65,,f,null,null)
(f,71,,SBCDFJPWj'Tk,null,null)
(SBCDFJPWj'Tk,73,null,cb,SBCDFJPWj'T,k)
(cb,78,null,d,c,b)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,,,null,null)
(,,43,,u,null,null)
(u,46,,m,null,null)
(m,49,,MOxAH.,null,null)
(MOxAH.,51,null,wvU58G()-14;,MOxAH,.)
(wvU58G()-14;,60,null,g,w,vU58G()-14;)
(g,65,,f,null,null)
```

```
(f,71,,SBCDFJPWj'Tk,null,null)
(SBCDFJPWj'Tk,73,null,cb,SBCDFJPWj'T,k)
(cb,78,null,py,c,b)
(py,80,null,d,p,y)
(d,84,,l,null,null)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,m,null,null)
(m,49,,MOxAH.,null,null)
(MOxAH.,51,null,wvU58G()-14;,MOxAH,.)
(wvU58G()-14;,60,null,g,w,vU58G()-14;)
(g,65,,f,null,null)
(f,71,,SBCDFJPWj'Tk,null,null)
(SBCDFJPWj'Tk,73,null,cb,SBCDFJPWj'T,k)
(cb,78,null,py,c,b)
(py,80,null,d,p,y)
(d,84,,,u,null,null)
(,u,89,null,l,,,u)
(l,101,,r,null,null)
(r,126,,o,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
```

```
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,wvU58G()-14;,null,null)
(wvU58G()-14;,60,null,g,w,vU58G()-14;)
(g,65,,f,null,null)
(f,71,,SBCDFJPWj'Tk,null,null)
(SBCDFJPWj'Tk,73,null,cb,SBCDFJPWj'T,k)
(cb,78,null,py,c,b)
(py,80,null,d,p,y)
(d,84,,,u,null,null)
(,u,89,null,mMOxAH.,,,u)
(mMOxAH.,100,null,l,m,MOxAH.)
(l,101,,r,null,null)
(r,126,,0,null,null)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,f,null,null)
(f,71,,SBCDFJPWj'Tk,null,null)
(SBCDFJPWj'Tk,73,null,cb,SBCDFJPWj'T,k)
(cb,78,null,py,c,b)
(py,80,null,d,p,y)
(d,84,,,u,null,null)
(,u,89,null,mMOxAH.,,,u)
(mMOxAH.,100,null,l,m,MOxAH.)
(l,101,,wvU58G()-14;g,null,null)
(wvU58G()-14;g,125,null,r,wvU58G()-14;,g)
(r,126,,o,null,null)
(o,171,,h,null,null)
```

```
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,cb,null,null)
(cb,78,null,py,c,b)
(py,80,null,d,p,y)
(d,84,,,u,null,null)
(,u,89,null,mMOxAH.,,,u)
(mMOxAH.,100,null,l,m,MOxAH.)
(l,101,,wvU58G()-14;g,null,null)
(wvU58G()-14;g,125,null,r,wvU58G()-14;,g)
(r,126,,fSBCDFJPWj'Tk,null,null)
(fSBCDFJPWj'Tk,144,null,o,f,SBCDFJPWj'Tk)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,d,null,null)
(d,84,,,u,null,null)
(,u,89,null,mMOxAH.,,,u)
(mMOxAH.,100,null,l,m,MOxAH.)
(l,101,,wvU58G()-14;g,null,null)
(wvU58G()-14;g,125,null,r,wvU58G()-14;,g)
(r,126,,fSBCDFJPWj'Tk,null,null)
(fSBCDFJPWj'Tk,144,null,cbpy,f,SBCDFJPWj'Tk)
```

```
(cbpy,158,null,o,cb,py)
(o,171,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,mMOxAH.,null,null)
(mMOxAH.,100,null,l,m,MOxAH.)
(l,101,,wvU58G()-14;g,null,null)
(wvU58G()-14;g,125,null,r,wvU58G()-14;,g)
(r,126,,fSBCDFJPWj'Tk,null,null)
(fSBCDFJPWj'Tk,144,null,cbpy,f,SBCDFJPWj'Tk)
(cbpy,158,null,o,cb,py)
(0,171,,d,u,null,null)
(d,u,173,null,h,d,,u)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,t,null,null)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,wvU58G()-14;g,null,null)
(wvU58G()-14;g,125,null,r,wvU58G()-14;,g)
(r,126,,fSBCDFJPWj'Tk,null,null)
(fSBCDFJPWj'Tk,144,null,cbpy,f,SBCDFJPWj'Tk)
(cbpy,158,null,o,cb,py)
(0,171,,d,u,null,null)
(d,u,173,null,h,d,,u)
(h,184,,s,null,null)
```

```
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,mMOxAH.l,null,null)
(mMOxAH.l,201,null,t,mMOxAH.,l)
(t,220,,a,null,null)
(a,241,,e,null,null)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,fSBCDFJPWj'Tk,null,null)
(fSBCDFJPWj'Tk,144,null,cbpy,f,SBCDFJPWj'Tk)
(cbpy,158,null,o,cb,py)
(o,171,,d,u,null,null)
(d,u,173,null,h,d,,u)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,mMOxAH.l,null,null)
(mMOxAH.l,201,null,t,mMOxAH.,l)
(t,220,,a,null,null)
(a,241,,wvU58G()-14;gr,null,null)
(wvU58G()-14;gr,251,null,e,wvU58G()-14;g,r)
(e,270,, ,null,null)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,o,null,null)
(0,171,,d,u,null,null)
(d,u,173,null,h,d,,u)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,mMOxAH.l,null,null)
(mMOxAH.l,201,null,t,mMOxAH.,l)
(t,220,,a,null,null)
(a,241,,wvU58G()-14;gr,null,null)
(wvU58G()-14;gr,251,null,e,wvU58G()-14;g,r)
(e,270,,fSBCDFJPWj'Tkcbpy,null,null)
```

```
(fSBCDFJPWj'Tkcbpy,302,null, ,fSBCDFJPWj'Tk,cbpy)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,h,null,null)
(h,184,,s,null,null)
(s,191,,i,null,null)
(i,196,,n,null,null)
(n,199,,mMOxAH.l,null,null)
(mMOxAH.l,201,null,t,mMOxAH.,l)
(t,220,,a,null,null)
(a,241,,wvU58G()-14;gr,null,null)
(wvU58G()-14;gr,251,null,e,wvU58G()-14;g,r)
(e,270,,fSBCDFJPWj'Tkcbpy,null,null)
(fSBCDFJPWj'Tkcbpy,302,null,od,u,fSBCDFJPWj'Tk,cbpy)
(od,u,344,null,,o,d,u)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,i,null,null)
(i,196,,n,null,null)
(n,199,,mMOxAH.l,null,null)
(mMOxAH.l,201,null,t,mMOxAH.,l)
(t,220,,a,null,null)
(a,241,,wvU58G()-14;gr,null,null)
(wvU58G()-14;gr,251,null,e,wvU58G()-14;g,r)
(e,270,,fSBCDFJPWj'Tkcbpy,null,null)
(fSBCDFJPWj'Tkcbpy,302,null,od,u,fSBCDFJPWj'Tk,cbpy)
(od,u,344,null,hs,o,d,u)
(hs,375,null, ,h,s)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,mMOxAH.l,null,null)
(mMOxAH.l,201,null,t,mMOxAH.,l)
(t,220,,a,null,null)
(a,241,,wvU58G()-14;gr,null,null)
(wvU58G()-14;gr,251,null,e,wvU58G()-14;g,r)
(e,270,,fSBCDFJPWj'Tkcbpy,null,null)
(fSBCDFJPWj'Tkcbpy,302,null,od,u,fSBCDFJPWj'Tk,cbpy)
```

```
(od,u,344,null,hs,o,d,u)
(hs,375,null,in,h,s)
(in,395,null, ,i,n)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,a,null,null)
(a,241,,wvU58G()-14;gr,null,null)
(wvU58G()-14;gr,251,null,e,wvU58G()-14;g,r)
(e,270,,fSBCDFJPWj'Tkcbpy,null,null)
(fSBCDFJPWj'Tkcbpy,302,null,od,u,fSBCDFJPWj'Tk,cbpy)
(od,u,344,null,hs,o,d,u)
(hs,375,null,in,h,s)
(in,395,null,mMOxAH.lt,i,n)
(mMOxAH.lt,421,null,,mMOxAH.l,t)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,e,null,null)
(e,270,,fSBCDFJPWj'Tkcbpy,null,null)
(fSBCDFJPWj'Tkcbpy,302,null,od,u,fSBCDFJPWj'Tk,cbpy)
(od,u,344,null,hs,o,d,u)
(hs,375,null,in,h,s)
(in,395,null,mMOxAH.lt,i,n)
(mMOxAH.lt,421,null,awvU58G()-14;gr,mM0xAH.l,t)
(awvU58G()-14;gr,492,null, ,a,wvU58G()-14;gr)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,od,u,null,null)
(od,u,344,null,hs,o,d,u)
(hs,375,null,in,h,s)
(in,395,null,mMOxAH.lt,i,n)
(mMOxAH.lt,421,null,awvU58G()-14;gr,mMOxAH.l,t)
(awvU58G()-14;gr,492,null,efSBCDFJPWj'Tkcbpy,a,wvU58G()-14;gr)
(efSBCDFJPWj'Tkcbpy,572,null, ,e,fSBCDFJPWj'Tkcbpy)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,in,null,null)
(in,395,null,mMOxAH.lt,i,n)
```

```
(mMOxAH.lt,421,null,awvU58G()-14;gr,mMOxAH.l,t)
(awvU58G()-14;gr,492,null,efSBCDFJPWj'Tkcbpy,a,wvU58G()-14;gr)
(efSBCDFJPWj'Tkcbpy,572,null, ,e,fSBCDFJPWj'Tkcbpy)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,,awvU58G()-14;gr,null,null)
(awvU58G()-14;gr,492,null,efSBCDFJPWj'Tkcbpy,a,wvU58G()-14;gr)
(efSBCDFJPWj'Tkcbpy,572,null, ,e,fSBCDFJPWj'Tkcbpy)
(,578,,NULL,NULL,NULL)
***PRINTING LINKED LIST***
(DUMMY,0,, ,null,null)
(,578,,NULL,NULL,NULL)
PRINTING LINKED LIST
***PRINTING LINKED LIST***
(DUMMY,0,,,null,null)
(,578,,NULL,NULL,NULL)
PREORDER TREE TRAVERSAL
(awvU58G()-14;grefSBCDFJPWj'Tkcbpy,1064,null,null,awvU58G()-14;gr,efSBCDFJPWj'Tkcbpy)
(awvU58G()-14;gr,492,null,efSBCDFJPWj'Tkcbpy,a,wvU58G()-14;gr)
(a,241,00,wvU58G()-14;gr,null,null)
(wvU58G()-14;gr,251,null,e,wvU58G()-14;g,r)
(wvU58G()-14;g,125,null,r,wvU58G()-14;,g)
(wvU58G()-14;,60,null,q,w,vU58G()-14;)
(w,30,01000,vU58G()-14;,null,null)
(vU58G()-14;,30,null,SBCDFJPWj'T,v,U58G()-14;)
(v,15,010010,U58G()-14;,null,null)
(U58G()-14;,15,null,S,U58,G()-14;)
(U58,7,null,G()-14;,U,58)
(U,3,01001100,58,null,null)
(58,4,null,G(),5,8)
(5,2,010011010,8,null,null)
(8,2,010011011,G,null,null)
(G()-14;,8,null,BCDFJPWj,G(),-14;)
(G(),4,null,-14;,G,())
(G,2,010011100,(),null,null)
```

```
((),2,null,-1,(,))
((,1,0100111010,),null,null)
(),1,0100111011,-,null,null)
(-14;,4,null,BCDF,-1,4;)
(-1,2,null,4;,-,1)
(-,1,0100111100,1,null,null)
(1,1,0100111101,4,null,null)
(4;,2,null,BC,4,;)
(4,1,0100111110,;,null,null)
(;,1,0100111111,B,null,null)
(g,65,0101,f,null,null)
(r,126,011,fSBCDFJPWj'Tk,null,null)
(efSBCDFJPWj'Tkcbpy,572,null, ,e,fSBCDFJPWj'Tkcbpy)
(e,270,10,fSBCDFJPWj'Tkcbpy,null,null)
(fSBCDFJPWj'Tkcbpy,302,null,od,u,fSBCDFJPWj'Tk,cbpy)
(fSBCDFJPWj'Tk,144,null,cbpy,f,SBCDFJPWj'Tk)
(f,71,1100,SBCDFJPWj'Tk,null,null)
(SBCDFJPWj'Tk,73,null,cb,SBCDFJPWj'T,k)
(SBCDFJPWj'T,36,null,k,S,BCDFJPWj'T)
(S,18,110100,BCDFJPWj'T,null,null)
(BCDFJPWj'T,18,null,MOxAH,BCDFJPWj,'T)
(BCDFJPWj,8,null,'T,BCDF,JPWj)
(BCDF,4,null,JPWj,BC,DF)
(BC,2,null,DF,B,C)
(B,1,1101010000,C,null,null)
(C,1,1101010001,D,null,null)
(DF,2,null,JP,D,F)
(D,1,1101010010,F,null,null)
(F,1,1101010011,J,null,null)
(JPWj,4,null,',JP,Wj)
(JP,2,null,Wj,J,P)
(J,1,1101010100,P,null,null)
(P,1,1101010101,W,null,null)
(Wj,2,null,A,W,j)
(W,1,1101010110,j,null,null)
(j,1,1101010111,5,null,null)
('T,10,null,MO,',T)
```

```
(',5,11010110,T,null,null)
(T,5,11010111,M,null,null)
(k,37,11011,c,null,null)
(cbpy,158,null,o,cb,py)
(cb,78,null,py,c,b)
(c,38,11100,b,null,null)
(b,40,11101,p,null,null)
(py,80,null,d,p,y)
(p,40,11110,y,null,null)
(y,40,11111,,,null,null)
POSTORDER TREE TRAVERSAL
(awvU58G()-14;gr,492,null,efSBCDFJPWj'Tkcbpy,a,wvU58G()-14;gr)
(a,241,00,wvU58G()-14;gr,null,null)
(wvU58G()-14;gr,251,null,e,wvU58G()-14;g,r)
(wvU58G()-14;g,125,null,r,wvU58G()-14;,g)
(wvU58G()-14;,60,null,g,w,vU58G()-14;)
(w,30,01000,vU58G()-14;,null,null)
(vU58G()-14;,30,null,SBCDFJPWj'T,v,U58G()-14;)
(v,15,010010,U58G()-14;,null,null)
(U58G()-14;,15,null,S,U58,G()-14;)
(U58,7,null,G()-14;,U,58)
(U,3,01001100,58,null,null)
(58,4,null,G(),5,8)
(5,2,010011010,8,null,null)
(8,2,010011011,G,null,null)
(G()-14;,8,null,BCDFJPWj,G(),-14;)
(G(),4,null,-14;,G,())
(G,2,010011100,(),null,null)
((),2,null,-1,(,))
((,1,0100111010,),null,null)
(),1,0100111011,-,null,null)
(-14;,4,null,BCDF,-1,4;)
(-1,2,null,4;,-,1)
(-,1,0100111100,1,null,null)
(1,1,0100111101,4,null,null)
(4;,2,null,BC,4,;)
```

```
(4,1,0100111110,;,null,null)
(;,1,0100111111,B,null,null)
(g,65,0101,f,null,null)
(r,126,011,fSBCDFJPWj'Tk,null,null)
(efSBCDFJPWj'Tkcbpy,572,null, ,e,fSBCDFJPWj'Tkcbpy)
(e,270,10,fSBCDFJPWj'Tkcbpy,null,null)
(fSBCDFJPWj'Tkcbpy,302,null,od,u,fSBCDFJPWj'Tk,cbpy)
(fSBCDFJPWj'Tk,144,null,cbpy,f,SBCDFJPWj'Tk)
(f,71,1100,SBCDFJPWj'Tk,null,null)
(SBCDFJPWj'Tk,73,null,cb,SBCDFJPWj'T,k)
(SBCDFJPWj'T,36,null,k,S,BCDFJPWj'T)
(S,18,110100,BCDFJPWj'T,null,null)
(BCDFJPWj'T,18,null,MOxAH,BCDFJPWj,'T)
(BCDFJPWj,8,null,'T,BCDF,JPWj)
(BCDF,4,null,JPWj,BC,DF)
(BC,2,null,DF,B,C)
(B,1,1101010000,C,null,null)
(C,1,1101010001,D,null,null)
(DF,2,null,JP,D,F)
(D,1,1101010010,F,null,null)
(F,1,1101010011,J,null,null)
(JPWj,4,null,',JP,Wj)
(JP,2,null,Wj,J,P)
(J,1,1101010100,P,null,null)
(P,1,1101010101,W,null,null)
(Wj,2,null,A,W,j)
(W,1,1101010110,j,null,null)
(j,1,1101010111,5,null,null)
('T,10,null,MO,',T)
(',5,11010110,T,null,null)
(T,5,11010111,M,null,null)
(k,37,11011,c,null,null)
```

(cbpy,158,null,o,cb,py)

(c,38,11100,b,null,null) (b,40,11101,p,null,null)

(cb,78,null,py,c,b)

(py,80,null,d,p,y)

```
(p,40,11110,y,null,null)
(y,40,11111,,,null,null)
(awvU58G()-14;grefSBCDFJPWj'Tkcbpy,1064,null,null,awvU58G()-14;gr,efSBCDFJPWj'Tkcbpy)
INORDER TREE TRAVERSAL
(awvU58G()-14;gr,492,null,efSBCDFJPWj'Tkcbpy,a,wvU58G()-14;gr)
(a,241,00,wvU58G()-14;gr,null,null)
(wvU58G()-14;gr,251,null,e,wvU58G()-14;g,r)
(wvU58G()-14;g,125,null,r,wvU58G()-14;,g)
(wvU58G()-14;,60,null,g,w,vU58G()-14;)
(w,30,01000,vU58G()-14;,null,null)
(vU58G()-14;,30,null,SBCDFJPWj'T,v,U58G()-14;)
(v,15,010010,U58G()-14;,null,null)
(U58G()-14;,15,null,S,U58,G()-14;)
(U58,7,null,G()-14;,U,58)
(U,3,01001100,58,null,null)
(58,4,null,G(),5,8)
(5,2,010011010,8,null,null)
(8,2,010011011,G,null,null)
(G()-14;,8,null,BCDFJPWj,G(),-14;)
(G(),4,null,-14;,G,())
(G,2,010011100,(),null,null)
((),2,null,-1,(,))
((,1,0100111010,),null,null)
(),1,0100111011,-,null,null)
(-14;,4,null,BCDF,-1,4;)
(-1,2,null,4;,-,1)
(-,1,0100111100,1,null,null)
(1,1,0100111101,4,null,null)
(4;,2,null,BC,4,;)
(4,1,0100111110,;,null,null)
(;,1,0100111111,B,null,null)
(g,65,0101,f,null,null)
(r,126,011,fSBCDFJPWj'Tk,null,null)
(awvU58G()-14;grefSBCDFJPWj'Tkcbpy,1064,null,null,awvU58G()-14;gr,efSBCDFJPWj'Tkcbpy)
(efSBCDFJPWj'Tkcbpy,572,null, ,e,fSBCDFJPWj'Tkcbpy)
(e,270,10,fSBCDFJPWj'Tkcbpy,null,null)
```

```
(fSBCDFJPWj'Tkcbpy,302,null,od,u,fSBCDFJPWj'Tk,cbpy)
(fSBCDFJPWj'Tk,144,null,cbpy,f,SBCDFJPWj'Tk)
(f,71,1100,SBCDFJPWj'Tk,null,null)
(SBCDFJPWj'Tk,73,null,cb,SBCDFJPWj'T,k)
(SBCDFJPWj'T,36,null,k,S,BCDFJPWj'T)
(S,18,110100,BCDFJPWj'T,null,null)
(BCDFJPWj'T,18,null,MOxAH,BCDFJPWj,'T)
(BCDFJPWj,8,null,'T,BCDF,JPWj)
(BCDF,4,null,JPWj,BC,DF)
(BC,2,null,DF,B,C)
(B,1,1101010000,C,null,null)
(C,1,1101010001,D,null,null)
(DF,2,null,JP,D,F)
(D,1,1101010010,F,null,null)
(F,1,1101010011,J,null,null)
(JPWj,4,null,',JP,Wj)
(JP,2,null,Wj,J,P)
(J,1,1101010100,P,null,null)
(P,1,1101010101,W,null,null)
(Wj,2,null,A,W,j)
(W,1,1101010110,j,null,null)
(j,1,1101010111,5,null,null)
('T,10,null,MO,',T)
(',5,11010110,T,null,null)
(T,5,11010111,M,null,null)
(k,37,11011,c,null,null)
(cbpy,158,null,o,cb,py)
(cb,78,null,py,c,b)
(c,38,11100,b,null,null)
(b,40,11101,p,null,null)
(py,80,null,d,p,y)
(p,40,11110,y,null,null)
(y,40,11111,,,null,null)
```

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char:84 11010111

char:101 10

char:83 110100

char:101 10

char:97 00

char:101 10

char:101 10

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char:97 00

char:98 11101

char:97 00

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char:98 11101

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char:101 10

char:101 10

char:97 00

char:97 00

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char:103 0101

char:101 10

char:112 11110

char:101 10

char:114 011

char:101 10

char:99 11100

char:101 10

char:102 1100

char:101 10

char:114 011

char:97 00

char:83 110100

char:97 00

char:103 0101

char:97 00

char:97 00

char:97 00

char:114 011

char:103 0101

char:101 10

char:97 00

char:114 011

char:84 11010111

char:101 10

char:114 011

char:121 11111

char:112 11110

char:101 10

char:119 01000

char:83 110100

char:97 00

char:97 00

char:103 0101

char:97 00

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char:99 11100

char:97 00

char:99 11100

char:103 0101

char:97 00

char:102 1100

char:119 01000

char:98 11101

char:101 10

char:103 0101

char:101 10

char:101 10

char:97 00

char:97 00

char:97 00

char:101 10

char:119 01000

char:114 011

char:102 1100

char:114 011

char:102 1100

char:99 11100

char:107 11011

char:101 10

char:101 10

char:99 11100

char:107 11011

char:121 11111

char:97 00

char:121 11111

char:103 0101

char:97 00

char:112 11110

char:112 11110

char:114 011

char:101 10

char:99 11100

char:101 10

char:97 00

char:97 00

char:98 11101

char:101 10

char:102 1100

char:114 011

char:98 11101

char:101 10

char:98 11101

char:121 11111

char:112 11110

char:97 00

char:114 011

char:101 10

char:97 00

char:119 01000

char:97 00

char:97 00

char:98 11101

char:101 10

char:101 10

char:101 10

char:97 00

char:102 1100

char:119 01000

char:99 11100

char:99 11100

char:101 10

char:102 1100

char:102 1100

char:101 10

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char:107 11011

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char:103 0101

char:102 1100

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char:103 0101

char:101 10

char:97 00

char:114 011

char:112 11110

char:114 011

char:101 10

char:112 11110

char:97 00

char:114 011

char:103 0101

char:102 1100

char:97 00

char:107 11011

char:103 0101

char:97 00

char:98 11101

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char:114 011

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char:98 11101

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char:97 00

char:97 00

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char:97 00

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char:97 00

char:103 0101

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char:102 1100

char:70 1101010011

char:114 011

char:97 00

char:102 1100

char:99 11100

char:102 1100

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char:97 00

char:99 11100

char:107 11011

char:121 11111

char:114 011

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char:97 00

char:107 11011

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char:101 10

char:101 10

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char:121 11111

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char:97 00

char:107 11011

char:83 110100

char:97 00

char:97 00

char:103 0101

char:97 00

char:107 11011

char:101 10

char:107 11011

char:102 1100

char:102 1100

char:101 10

char:71 010011100

char:102 1100

char:83 110100

char:114 011

char:101 10

char:97 00

char:101 10

char:98 11101

char:121 11111

char:97 00

char:98 11101

char:97 00

char:97 00

char:107 11011

char:101 10

char:98 11101

char:121 11111

char:97 00

char:98 11101

char:103 0101

char:102 1100

char:97 00

char:101 10

char:114 011

char:101 10

char:97 00

char:97 00

char:114 011

char:85 01001100

char:97 00

char:98 11101

char:101 10

char:97 00

char:101 10

char:103 0101

char:114 011

char:101 10

char:97 00

char:97 00

char:114 011

char:83 110100

char:97 00

char:103 0101

char:101 10

char:97 00

char:112 11110

char:101 10

char:98 11101

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char:97 00

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char:97 00

char:119 01000

char:97 00

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char:83 110100

char:97 00

char:97 00

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char:112 11110

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char:101 10

char:97 00

char:99 11100

char:112 11110

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char:114 011

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