\*\*\*Huffman Encoding Program\*\*\*

Please enter a sentence to encode and press enter:

Only the fool would take trouble to verify that his sentence was composed of ten a's, three b's, four c's, four d's, forty-six e's, sixteen f's, four g's, thirteen h's, fifteen i's, two k's, nine l's, four m's, twenty-five n's, twenty-four o's, five p's, sixteen r's, forty-one s's, thirty-seven t's, ten u's, eight v's, eight w's, four x's, eleven y's, twenty-seven commas, twenty-three apostrophes, seven hyphens and, last but not least, a single!

Total Characters: 449

Total Evaluated: 377

Unique Characters: 27

SYMBOL FREQ. DEPTH TOTAL HUFFMAN CODE

't' 37 3 111 000

'c' 4 6 24 001000

'p' 5 6 30 001001

'l' 9 5 45 00101

'u' 10 5 50 00110

'a' 10 5 50 00111

's' 41 3 123 010

'e' 46 3 138 011

''' 23 4 92 1000

'y' 11 5 55 10010

'b' 3 7 21 1001100

'!' 1 8 8 10011010

'k' 2 8 16 10011011

'-' 7 6 42 100111

'o' 24 4 96 1010

'n' 25 4 100 1011

',' 27 4 108 1100

'h' 13 5 65 11010

'i' 15 5 75 11011

'f' 16 5 80 11100

'g' 4 7 28 1110100

'x' 4 7 28 1110101

'v' 8 6 48 111011

'r' 16 5 80 11110

'w' 8 6 48 111110

'd' 4 7 28 1111110

'm' 4 7 28 1111111

\*\*\*\*\* TREE \*\*\*\*\*

| | | | | | |-------'m':4

| | | | | |-------8

| | | | | | |-------'d':4

| | | | |-------16

| | | | | |-------'w':8

| | | |-------32

| | | | |-------'r':16

| | |-------64

| | | | | |-------'v':8

| | | | |-------16

| | | | | | |-------'x':4

| | | | | |-------8

| | | | | | |-------'g':4

| | | |-------32

| | | | |-------'f':16

| |-------119

| | | | |-------'i':15

| | | |-------28

| | | | |-------'h':13

| | |-------55

| | | |-------',':27

|-------215

| | | |-------'n':25

| | |-------49

| | | |-------'o':24

| |-------96

| | | | | |-------'-':7

| | | | |-------13

| | | | | | | |-------'k':2

| | | | | | |-------3

| | | | | | | |-------'!':1

| | | | | |-------6

| | | | | | |-------'b':3

| | | |-------24

| | | | |-------'y':11

| | |-------47

| | | |-------''':23

377

| | |-------'e':46

| |-------87

| | |-------'s':41

|-------162

| | | | |-------'a':10

| | | |-------20

| | | | |-------'u':10

| | |-------38

| | | | |-------'l':9

| | | |-------18

| | | | | |-------'p':5

| | | | |-------9

| | | | | |-------'c':4

| |-------75

| | |-------'t':37

\*\*\*\*\* TREE STRUCT \*\*\*\*\*

tree(root(377),tree(root(162),tree(root(75),leaf('t':37),tree(root(38),tree(root(18),tree(root(9),leaf('c':4),leaf('p':5))),leaf('l':9)),tree(root(20),leaf('u':10),leaf('a':10)))),tree(root(87),leaf('s':41),leaf('e':46))),tree(root(215),tree(root(96),tree(root(47),leaf(''':23),tree(root(24),leaf('y':11),tree(root(13),tree(root(6),leaf('b':3),tree(root(3),leaf('!':1),leaf('k':2))),leaf('-':7)))),tree(root(49),leaf('o':24),leaf('n':25))),tree(root(119),tree(root(55),leaf(',':27),tree(root(28),leaf('h':13),leaf('i':15))),tree(root(64),tree(root(32),leaf('f':16),tree(root(16),tree(root(8),leaf('g':4),leaf('x':4))),leaf('v':8))),tree(root(32),leaf('r':16),tree(root(16),leaf('w':8),tree(root(8),leaf('d':4),leaf('m':4))))))))