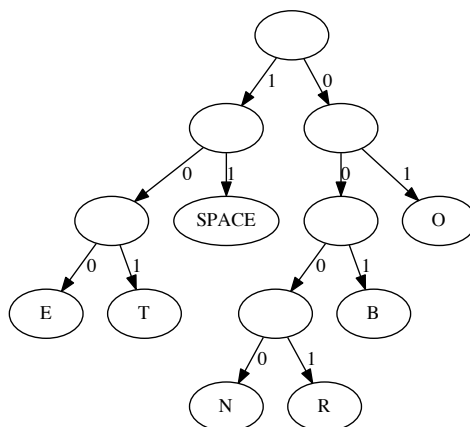


Morse code:

A ●-	J ●---	S ●●●
B -●●●	K -●-	T -
C -●-●	L ●-●●	U ●●-
D -●●	M --	V ●●●-
E ●	N -●	W ●--
F ●●-●	O ---	X -●●-
G --●	P ●--●	Y -●--
H ●●●●	Q --●-	Z --●●
I ●●	R ●-●	

- Using the Huffman tree below, encode the word "ROBOT"



- Using the Huffman tree above, decode:
10101110011001101000111000001101111010111001100
- Generate a Huffman tree with letter frequencies from the word "SLEEPLESSNESS".
- How many bits would it take to represent the word SLEEPLESSNESS using a fixed length code?
- How many bits does it take to represent SLEEPLESSNESS with Huffman encoding?
- Generate a Huffman tree where the nodes are words. Use the phrase:

IF A WOOD CHUCK COULD CHUCK WOOD
 THEN HOW MUCH WOOD WOULD A WOOD CHUCK CHUCK
 IF A WOOD CHUCK COULD CHUCK WOOD