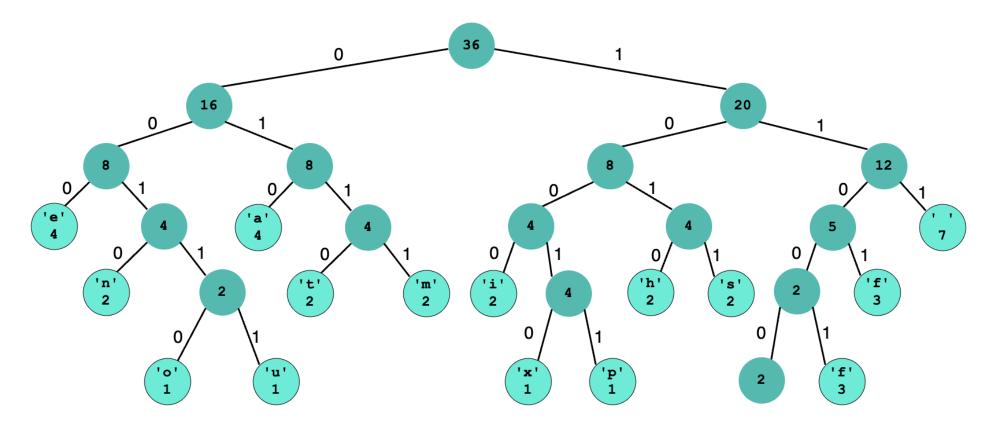
## Week 25 Extension Question: Huffman Trees

A Huffman code is a type of lossless compression. It encodes characters as binary sequences. Each character sequence represents a path on the coded binary tree which leads to a leaf node character: 0 represents following the left child and 1 following the right child.

E.g. the character "u" is encoded as **00111** in the Huffman Tree below:



- (a) Why do you think characters like 'e', 'a' and '[space]' are at a lesser depth than other characters?
- (b) Why do we not have to put any special character or break between the sequences for each character?