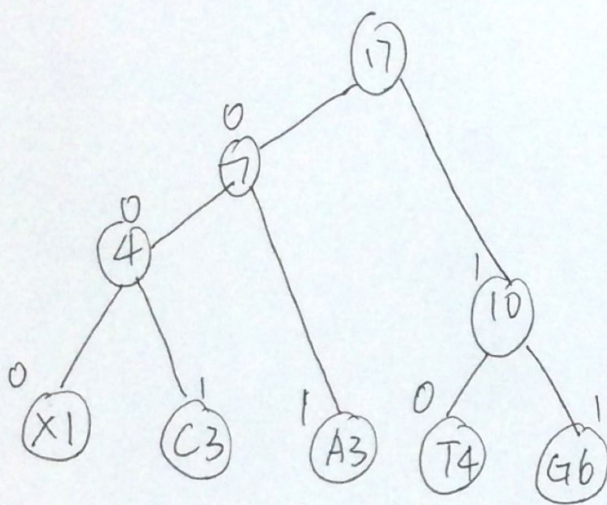


GGCATTTA GGGG CCATX

Count Character's frequency

G: 6, A: 3, C: 3, T: 4, X: 1



X: 000

C: 001

A: 01

T: 10

G: 11

Q₁: Yes, because the frequency of C and A are same.
So there can be different way to order those letters.

Q₂: the code for each characters are needed.
So, we need a map <Character - string> where string is the code for that character.

11 11 00 | 01 | 10 | 0100 | 11 11 11 11 00 | 00 | 01 | 10 000