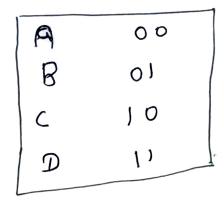
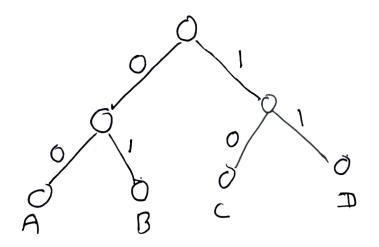
codes as Tree

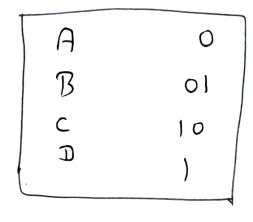
Fixed length code.

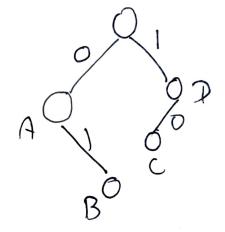




no issue in turns of fuzzy nest. But hat good for day compression.

V. L.E (hoh- RoveHx-free)





The first and third trees carries possibly
to the two present free caleard stored
One common property: - only leaves are
labeled.

However in derord three! two non-Deaves

of thet of another symbol "b" iff the hode labled a is an ancestor of the hode labled b.

So how we can defile E-tore which it a binary tree with leaved Lahled in one-to-one corrully ordered with the hymbol of E.

For a Σ -three "T" and bymbol for equality $P = \Sigma Pa^3 a \in \Sigma$, we denote by L(T,P) the average depth of a leaf in T with the contribution of each leaf weighted according to the frequency of [111] label.

L(T,D) = \(\int \text{Pa} \cdot \text{(depth of the leaf labeled a in T)}



(Encoding leight and three depth)! - For every binary code, the encoding Deligh in bits of a symbol a E E sequals the depth of the node with label a in the > 2 bit encodin-depth ? (woresposely tree 3 bit encoding deptn 1

Rephrand Probem! -

Thout: A hon-negative thequency Pa for each symbol a of an alphabet E of sixe h 72

outputi- A E-three with minimum pushible average deat depth