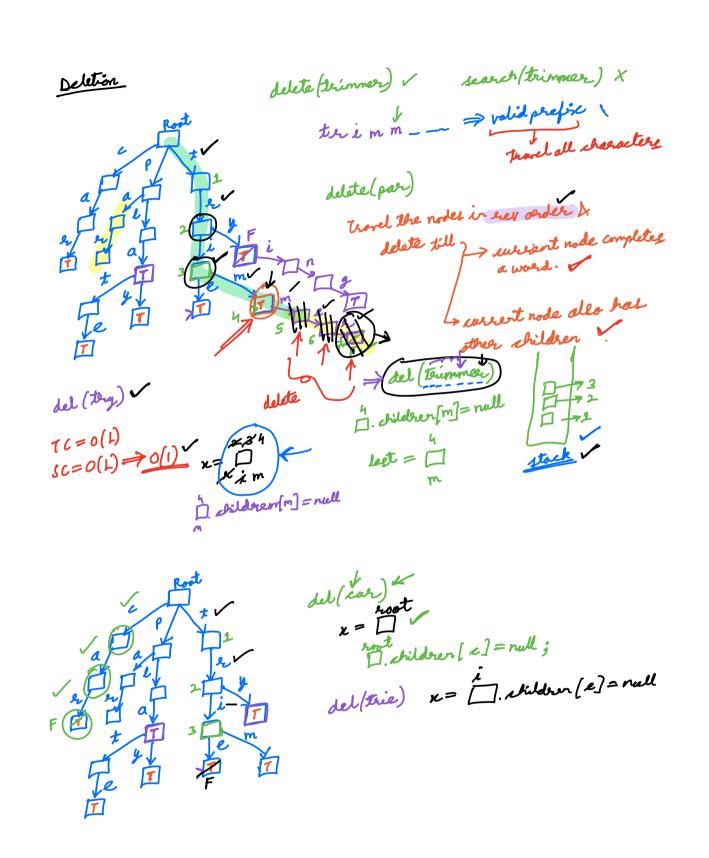


```
B- How to know that word is complete? -
                                               TC givert = 0(1) >=0(1)
     viery is End data in the node.
                                               TI of search = O(L) in practice
     search (trion) V
ar What if some word is present multiple times in if ??
        is End -> freq
     class node of
          node stildren [];
          int freq;
          node () &
       wid insert (root, word) of
               eur = root;
l = word.lergth();
              for (i=0; i<1; i++)d
                     c = word[i];
idx = c - \lambda'; \parallel a \rightarrow 0, b \rightarrow 1, c \rightarrow 2 - . 3 \rightarrow 25
                     if ( we . wildren [ids] = = null) of
                               eur. stildren (ids) = new node ();
                     we = eur . children [ide];
```



A Data tempression

Find prefix of each word that wiquely defined the word. (No word is prefix of another word)

g = [vei, teap, plate, cat, part, place, tie] Ofer [tri, tra, plat, \$\overline{\psi}, pa, plac, ti] <- V

How many words have given string as perefix? >1 x

TC = O(L *N)SC ZO(LXN)