spelling

NAL

Pash = 0(2)

Play player player

player

player

player

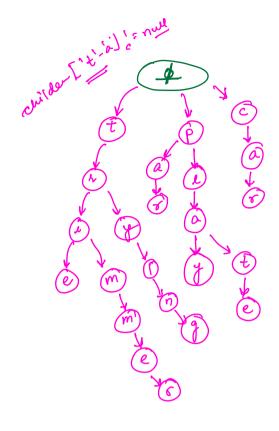
Tue : tree based DS which staces the info from top
to bottom

prefix-tree

Trie Try Teim play plate cae par trimmer teying pla

Later Jugus

dota



class Noded

chae data;

Node children [26];

book is End;

}

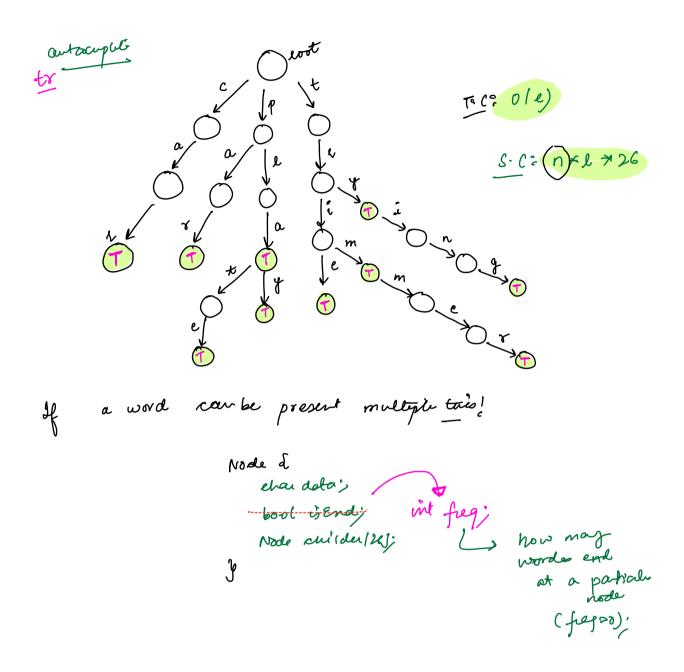
seach (trap) (tri) pla Travese the steig & seach sharry char in the frie

if a sharacter's node doesn't exist word is invalid find all cheraelis

lost chera is and fold

noide's

is End = free invalid



```
bool search ( Nade root, string word)

{

cue = root;

L = word · (eph(s);

for(i=0; i< l; i++)

int index = vord[i] - 'a';

if ( rece. shi'den[index] = = nucl)

curr = curr chi'den[index];

f ( cur fee > 0) returns: // 1884
```

(ast node = mot 1 2 m # node completes words st. top(). childen[cue.data-'a']= null; # shortest emique prefix

a Find shortest unique prefix to represent each word.

Note: Assume that no word is prefix of another In other words, the representation is always possible.

