Tries $\Rightarrow$ Autocomplete

Prefix trees $\longrightarrow$ n aray tree.

Ex1 : [Yash, Yah, Had, Hame, Pock, Poc]

Ex2 : [1101, 1100, 1000, 10001]
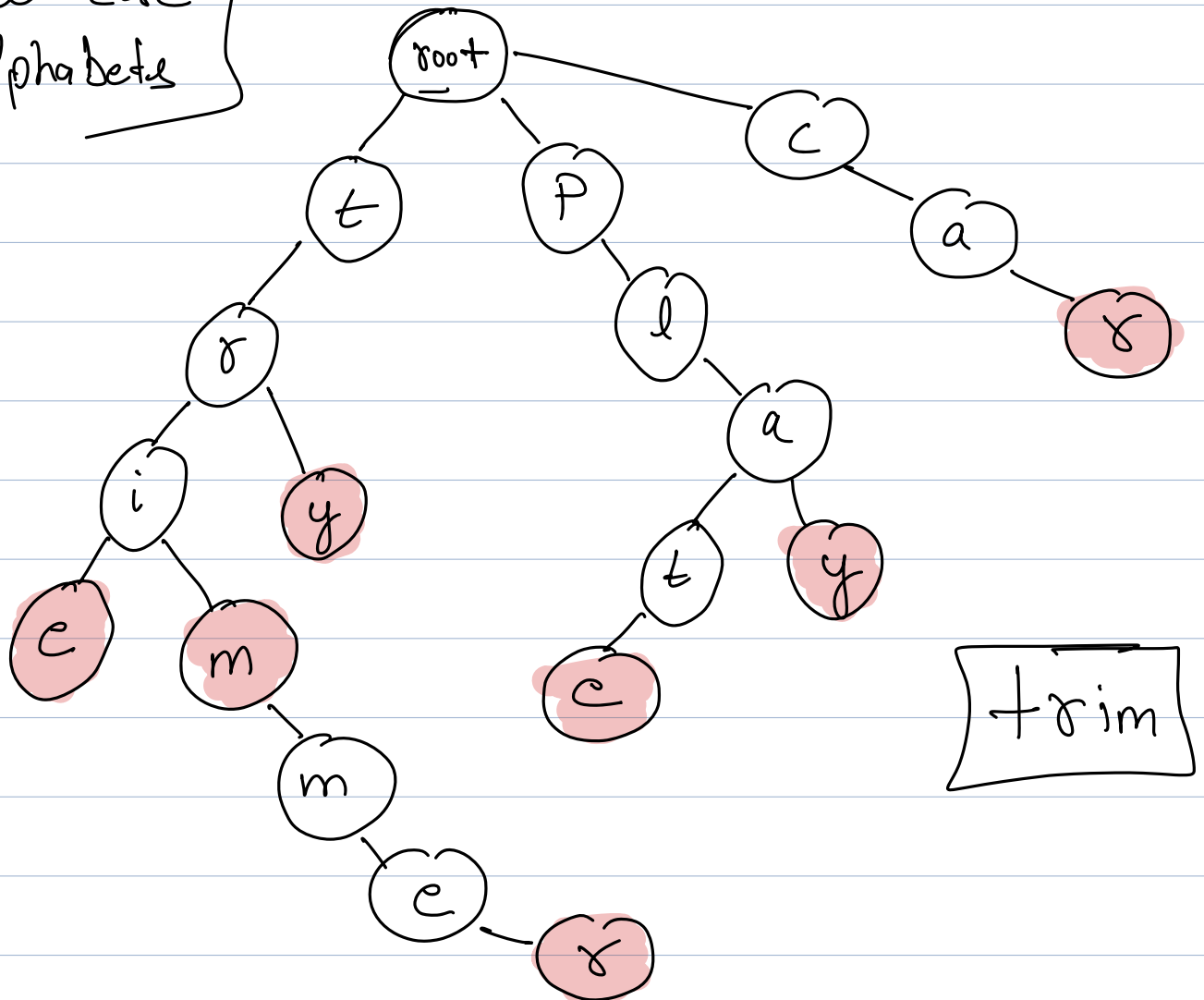
Ex3 : IP addresses.

Ex4 : Phonenumber.

Ex5 : College Id

Trie

$\Rightarrow$

Trie , Try , Trim, Play.
Plate , CAR , TRIMMER

[small cac alphabets]

root — t, P, c

(tree diagram)
- t → r → i → e, m → m → e → r
- r → y
- P → l → a → t → c, y
- c → a → r

trim

Class Node L

```
char data;
Node child [26];
bool isEnd;
```

Node left!
Node right;

3

Insertion !

```
void    insert ( Node root, String word) {

    Node curr ⇒ root;
    int  len   ⇒ word.size();              [ 0 - 25 ]

    for (int i = 0; i < l ; i++ ) {
        int  ind ⇒   word [i] - 'a';

        if ( curr. child [ind] == null) {
            curr. child [ind]  =  new Node (word[i]);
        }

        curr  =  curr. child [ind];
    }

    curr. is End = true ;

}
```