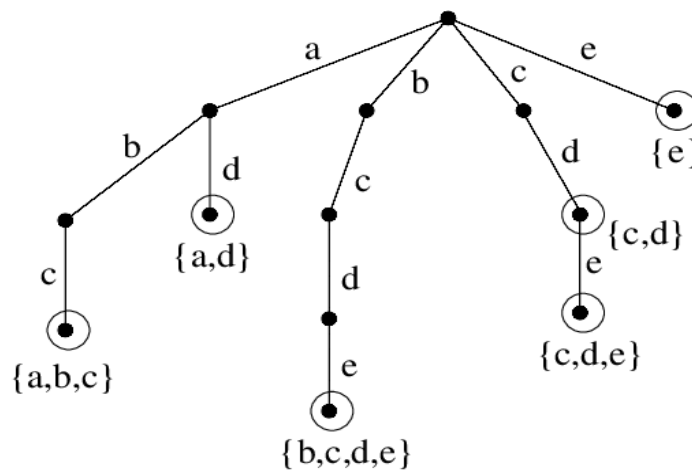


- Assignment Name: Lab10.
- Description: Display the words in a trie in lexicographic order.
- Total Marks: 10.
- Deadline: Depends on respective lab hrs.
- Question Title: Display the words in a trie in lexicographic order.
- Marks allotted: 10.

A specific key from a collection can be sorted and searched for using the k-ary search tree type called "Trie." Search complexity can be reduced to the ideal level using Trie.

A trie is an alphabet-letter-storing data structure that resembles a tree. Words and strings can be extracted from the structure by travelling down a branch path of the tree by organising the nodes in a specific way.



node. `plent` is the length of the current word that allows us to keep track of the length of the word.

**Functions to initialise Trie have already been implemented in the boilerplate code. USING THE BOILERPLATE CODE PROVIDED IS MANDATORY.**

- Description:
- Input format:
  - First line of input consists of an integer `N`, representing the number of words to be inserted into the Trie.
  - The following `N` lines represent the words that will be inserted
  - **Character of the words will be 'a' to 'z' only**
- Output format:
  - Lexicographically ordered words in `N` lines. Using the `display` method

Sample Test Cases :

- TC #1:
  - Input:

```
3
bimbo
jumbo
bamboo
```
  - Expected output:

```
bamboo
bimbo
jumbo
```
- TC #2:
  - Input:

```
8
marco
a
ant
p
marc
polo
any
mon
```
  - Expected Output:

```
a
ant
any
marc
marco
mon
p
polo
```