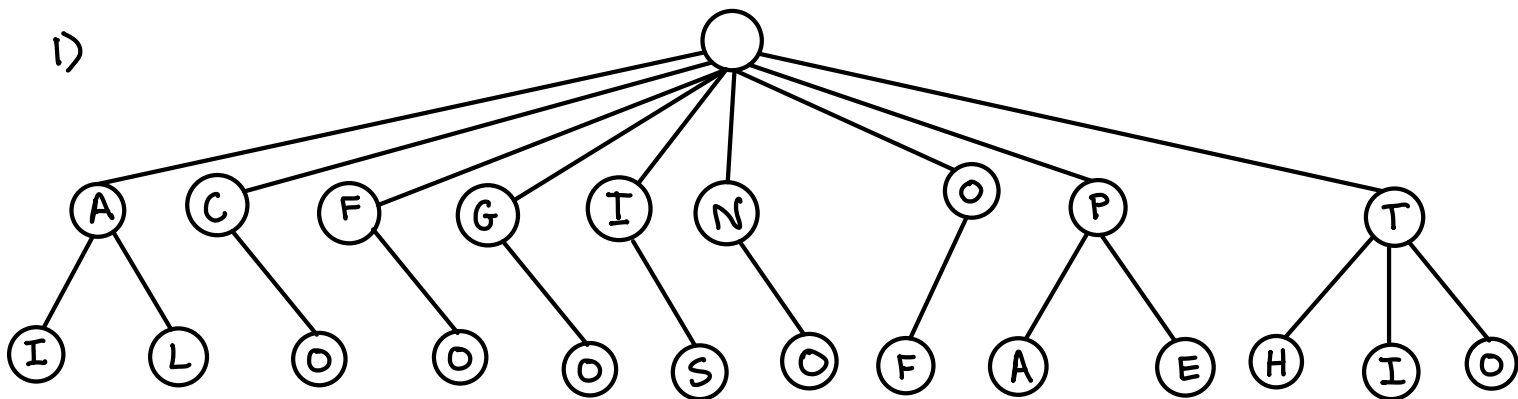


OCS 25 - Data Structures and Algorithms
Programming Assignment – 8
Tries

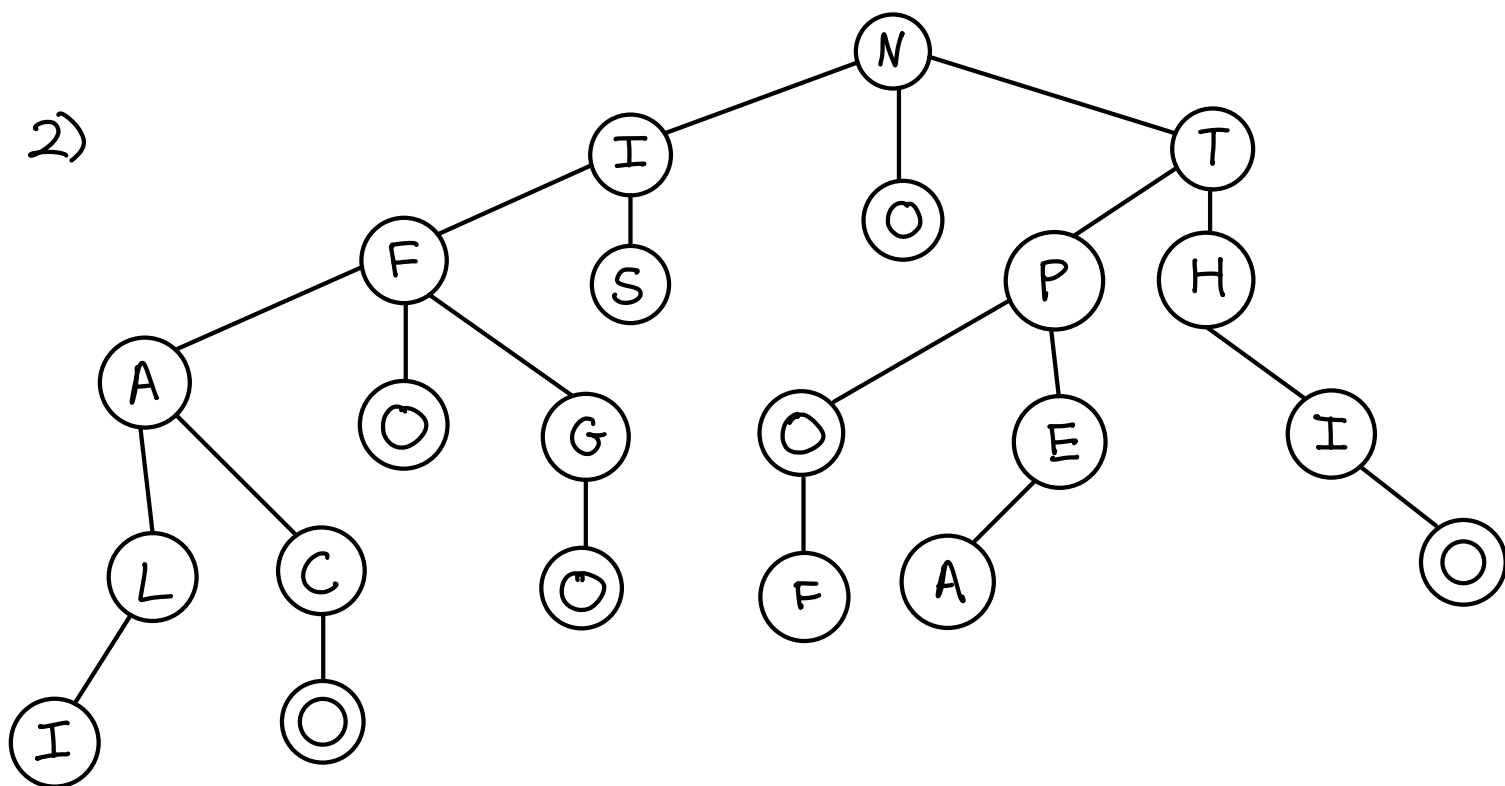
Tries

- 1) Draw the R-way trie that results when the keys
no is th ti fo al go pe to co to th ai of th pa
are inserted in that order into an initially empty trie (do not draw null links).
- 2) Draw the TST that results when the keys
no is th ti fo al go pe to co to th ai of th pa
are inserted in that order into an initially empty TST.
- 3) Draw the R-way trie that results when the keys
now is the time for all good people to come to the aid of
are inserted in that order into an initially empty trie (do not draw null links).
- 4) Draw the TST that results when the keys
now is the time for all good people to come to the aid of
are inserted in that order into an initially empty TST.

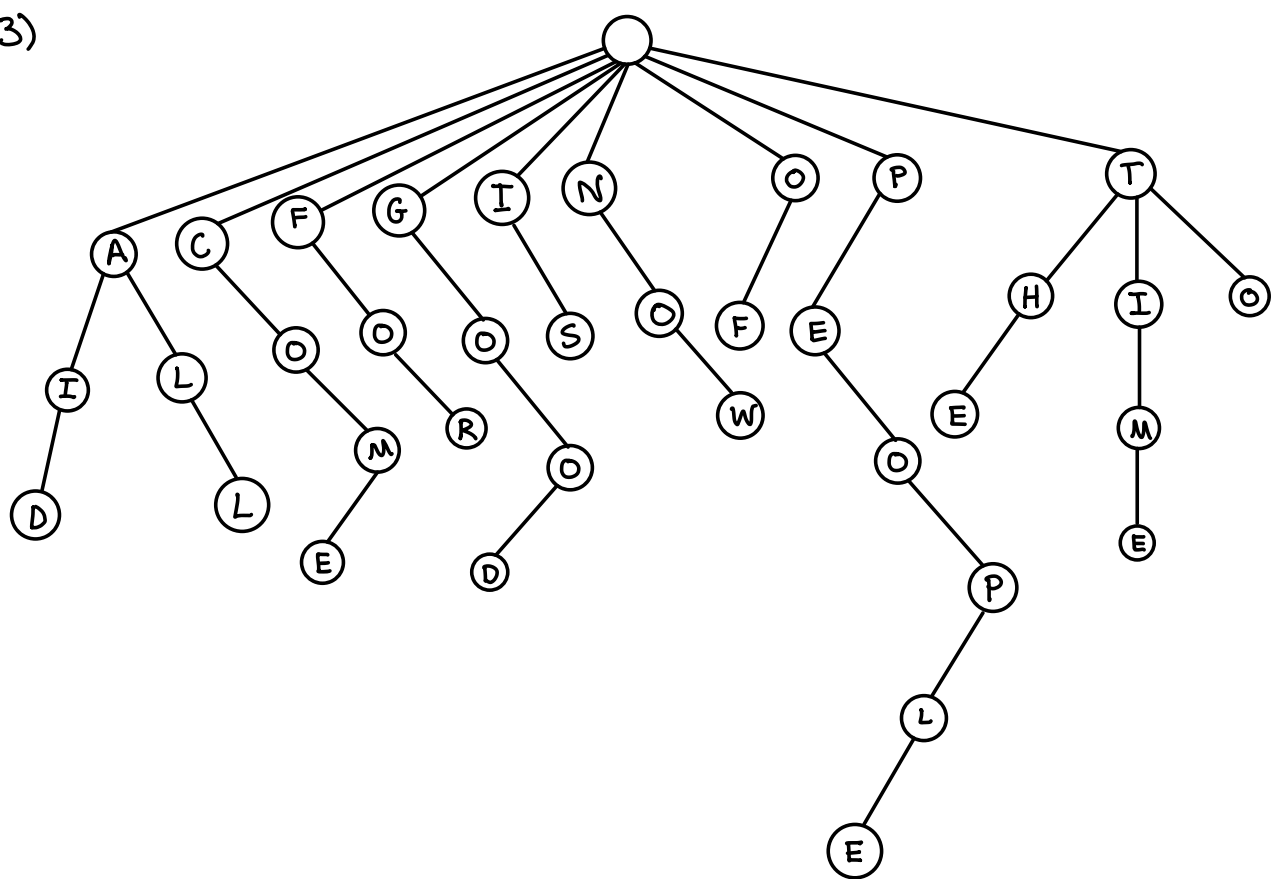
1)



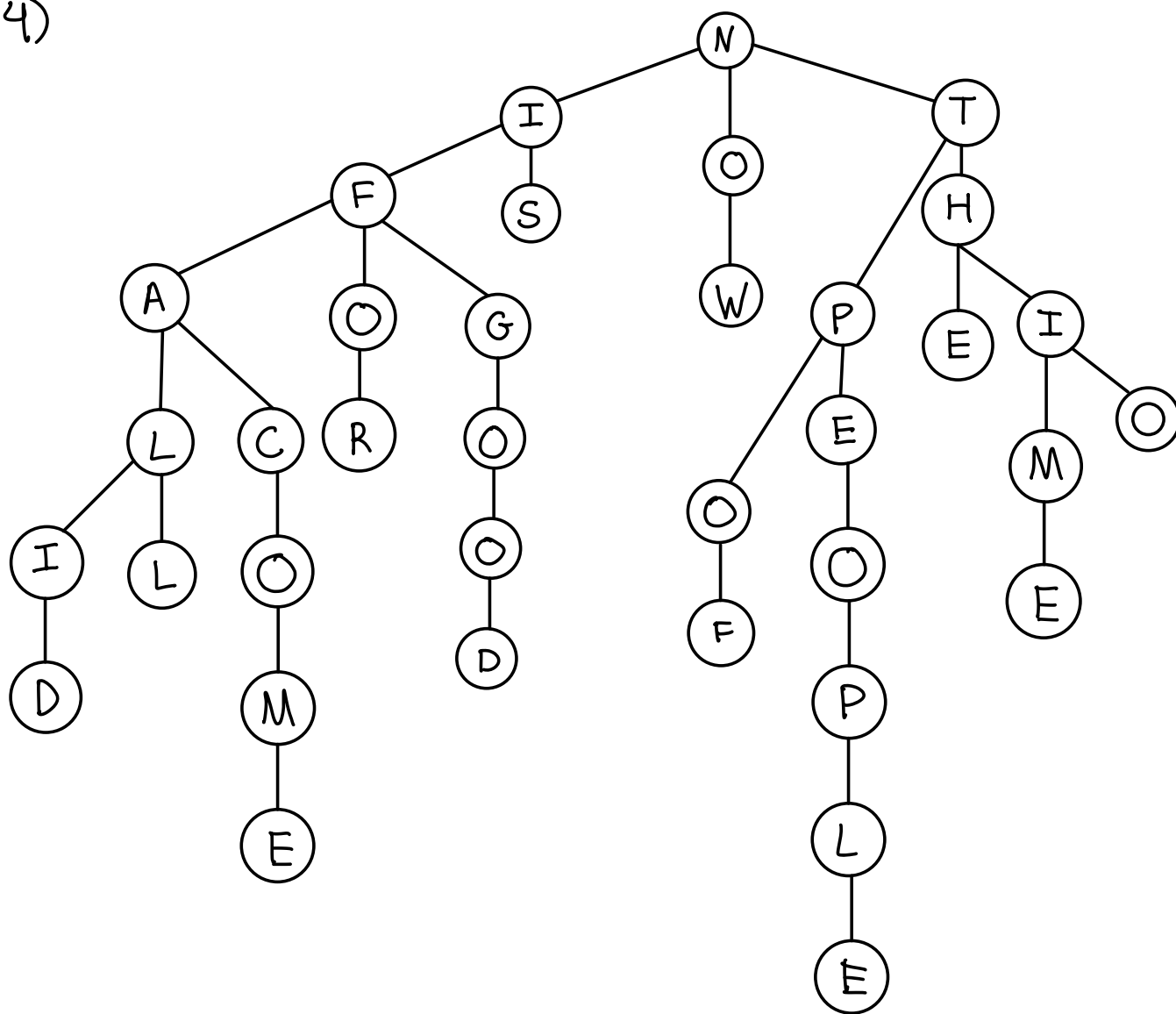
2)



3)



4)



Programming Assignment

Implement a spelling helper that uses a trie. Create a trie of correctly spelled dictionary words. You can read the words from a file.

Write a spelling helper program that helps you by suggesting possible words as you type a word. The program will monitor your keys typed so far and suggest a list of words from that point. Since there would be too many possibilities at the beginning, you may wait until the number of possible suggestions is less than five words, and then print the list of words.

Write a driver program that prompts you to type a word by reading a character at a time and displays a list of possible words from that input. Your program should print the list of words and let you keep typing and keep narrowing the list of words as you type more characters. When you have only one possibility remaining then it could print the word without further input.