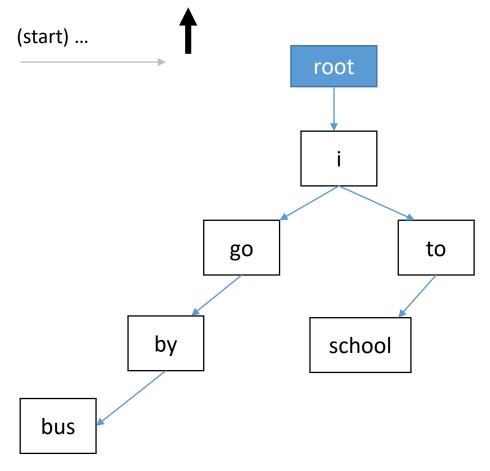
Part 3 Text Concordance Revisited

Problem: Text Concordance Revisited

Input Passage: "i go to school by bus. the bus is big. the school is also big. i like big school and big bus."



Input Passage: "i go to school by bus. the bus is big. the school is also big. i like big school and big bus."

Inorder Traversal:

also

and

big

bus

by

go

:

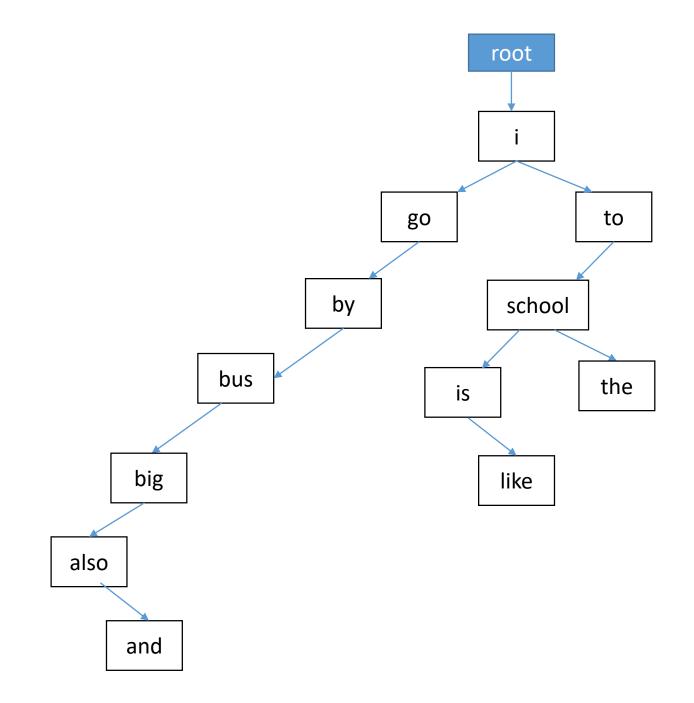
is

like

school

the

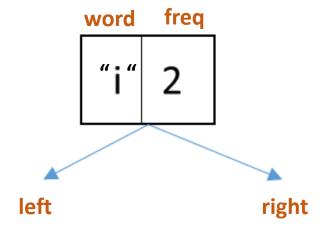
to

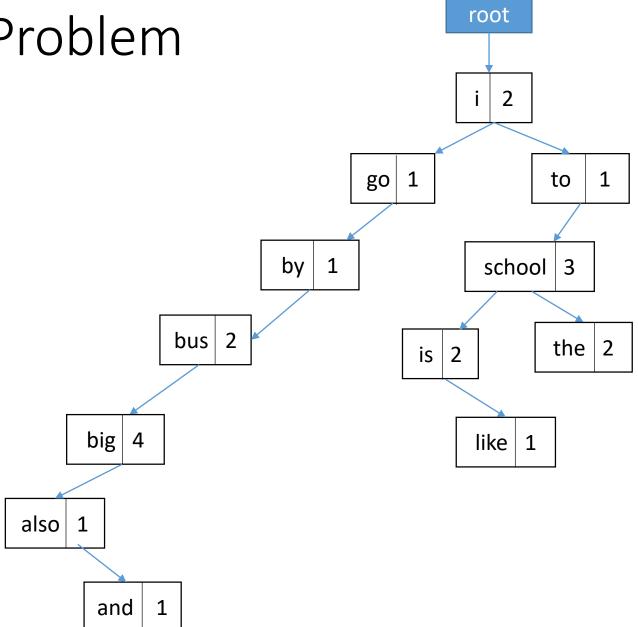


Word Frequencies Problem

Input Passage: "i go to school by bus. the bus is big. the school is also big. i like big school and big bus."

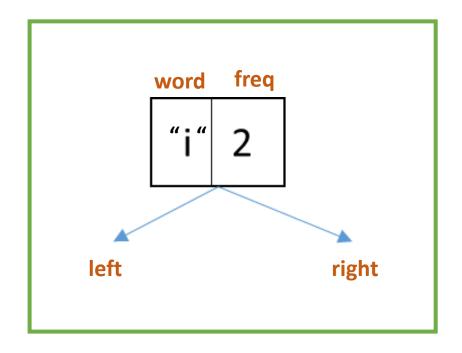
Where every node, consist of 4 elements





Node Structure

Class Node



```
class Node {
     String word;
     int freq;
     Node left, right;
     public Node(String item) {
         word = item;
          // update freq value
         left = right = null;
```

```
import java.util.*;
public class TreeApps2 {
   public static void main(String[] args)
         int total=0;
         BinarySearchTree tree = new BinarySearchTree();
        Scanner in = new Scanner(System.in);
        String passage = in.nextLine(); // read input passage
        String delims = "\\W+"; // split any non word
        String [] words = passage.split(delims);
         for (String str : words){
              str = str.trim();
                                                                   <terminated> TreeApps2 [Java Application] C:\Program Files\Java\jdk-11.0.1\bin\javaw.exe (31 May 2020, 1:41:43 pm – 1:42:22 r
             tree.insert(str);
                                                                   i go to school by bus. the bus is big, the school is also big. i like big school and big bus.
                                                                   also(1)
             total++;
                                                                   and(1)
                                                                   big(4)
                                                                   bus(3)
        tree.inorder();
                                                                   by(1)
                                                                   go(1)
        System.out.println("Total words: " + total);
                                                                   i(2)
                                                                   is(2)
                                                                   like(1)
                                                                   school(3)
                                                                   the(2)
                                                                   to(1)
                                                                   Total words: 22
```

Lab Task: Word Frequencies (BST)

Input	Output
Stay at home, stay safe and shome. Help reduce the risk and preventing covid19. Tog break the chain of covid19!.	tay healthy. work and at of infection ether we Menu: 1. Add new word. 2. Delete word. 3. Search word. 4. Print all words and its frequency.

Menu:

- 1. Add new word.
- 2. Delete word.
- 3. Search word.
- 4. Print all words and its frequency.
- 5. Exit.

Input code: 1

Enter new word: covid19
"covid19" has been added successfully

Menu:

- 1. Add new word.
- 2. Delete word.
- 3. Search word.
- 4. Print all words and its frequency.
- 5. Exit.

Input code: 3

Enter search word: covid19 "covid19" is used 4 times.

Menu:

- Add new word.
- 2. Delete word.
- 3. Search word.
- 4. Print all words and its frequency.
- 5. Exit.

Input code: 2

Enter word to be deleted: covid19 one of "covid19" was successfully deleted

Menu:

- 1. Add new word.
- Delete word.
- 3. Search word.
- 4. Print all words and its frequency.
- 5. Exit.

Input code: 5