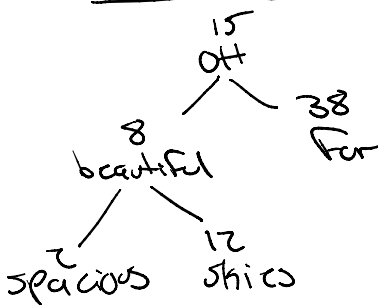# Assignment 10 by Luke O'Brien

CS 1450:002

Problem:

We are to create a binary tree
Data structure & store parrots
into the data structure. The
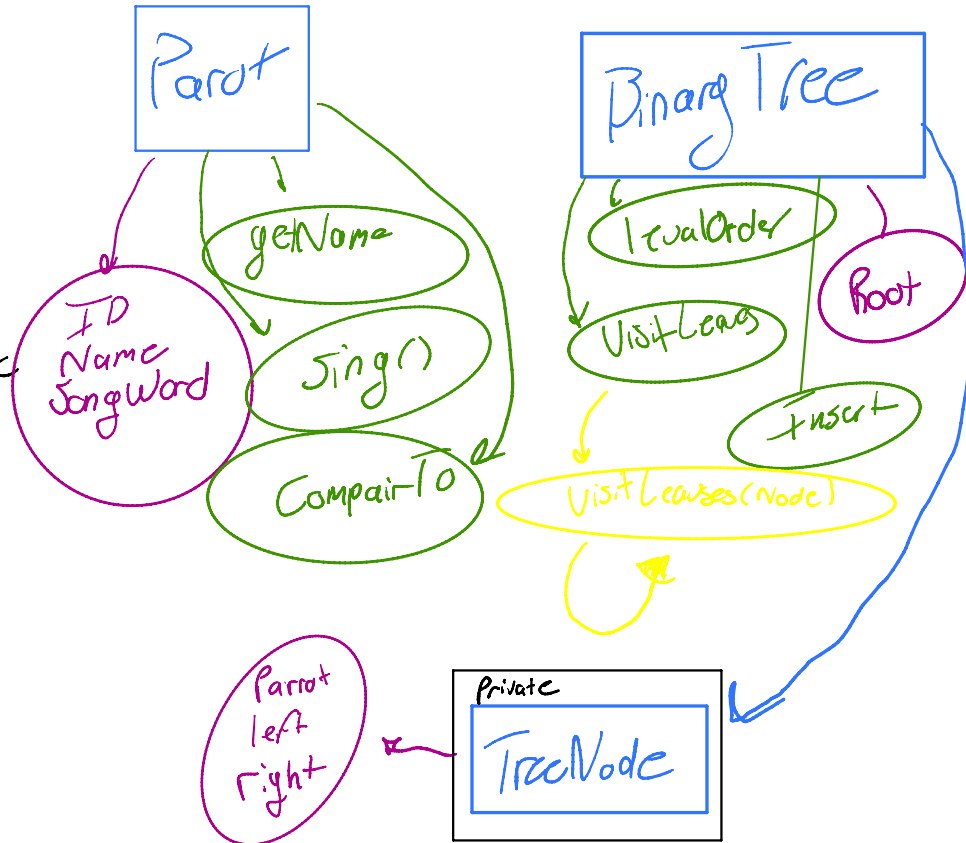parrots are given to us via
Txt file where the main will parse
the data.

Parrot Test

```
        15
        ott
       /   \
      8      38
   beautiful  for
    /    \
   2      12
spacious  skies
```

Main:

```
Scanner fileReader = new Scanner(File);
Tree tree = new Tree();
While(data in file)
{
        Tree.insert(FileData);
}

Tree.levelOrder();

Tree.visitLeaves();
```

Parrot

- ID
  Name
  SongWord

- getName
- Sing()
- CompairTo

Binary Tree

- levelOrder
- VisitLeafs
- Root
- Insert
- VisitLeaves(Node)

Parrot
left
right

Private
TreeNode

What I Don't know:

- I was thinking of using
a queue for LevelOrder()
but I'm not sure its
neccicary.

What I Learned!

- The Queue worbc perfctly
(eventually saw FAQ said to use a too)

- A Refresher on Recursion.
Haven't used it since 11th Grade