

* Important interview concepts for Java Developers from Collections Framework:

* The Properties Class inside java.util

All the data for an application/project such as database, username, password, server-port, url, etc are loaded using a file having extension filename.properties

* For most apps the file name is:

- * application.properties
 - * config.properties
- [[root directory]]

* Count the frequency of each string in an array in the best possible time complexity.

array = { "apple", "banana", "apple", "guava", "banana", "avocado" }

o/p: { apple = 2, banana = 2, guava = 1, avocado = 1 }

key value

AL
LL
X

Map <K,V>

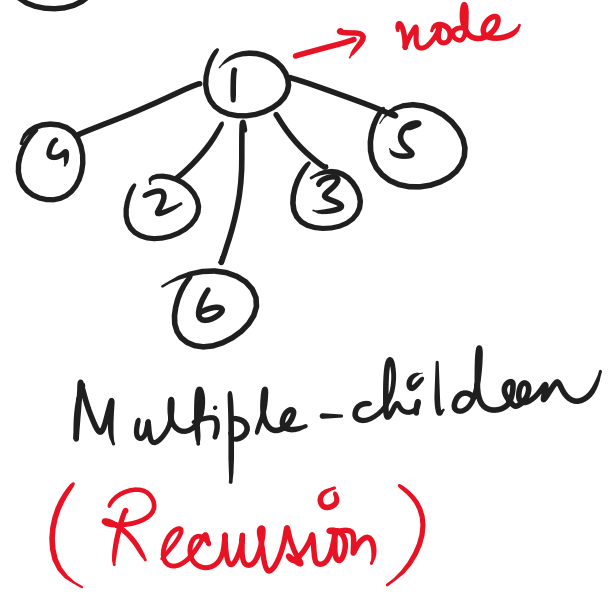
* Wild Cards <?>

Introduction to non-linear Data Structures: →

① Trees → A non-linear data structure having entities called nodes is called a tree. Based on the number of children a tree can be of different types.

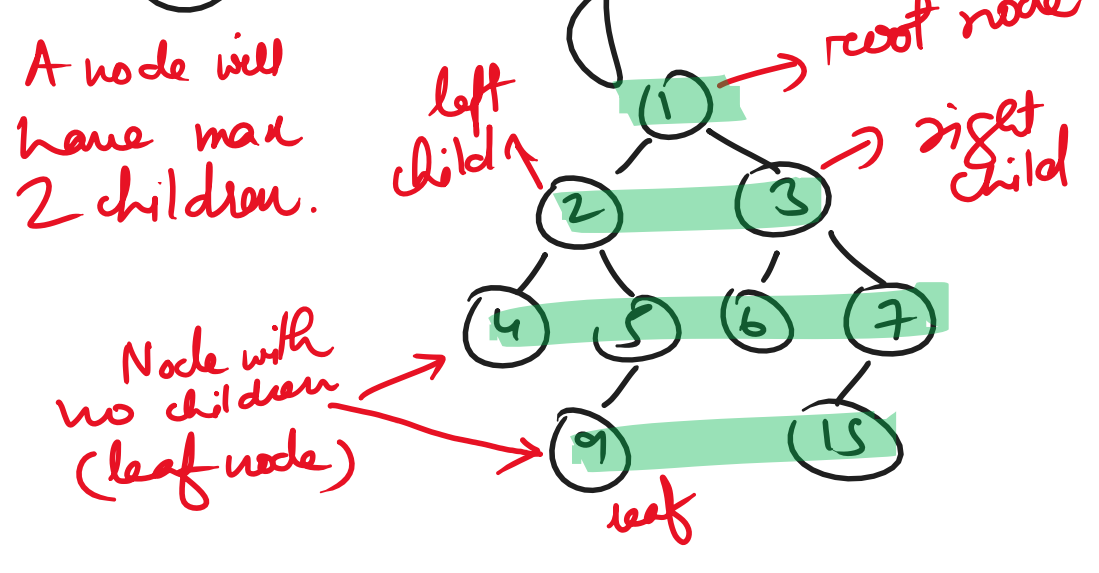
(Trie - Suffix Tree)

① Normal Tree

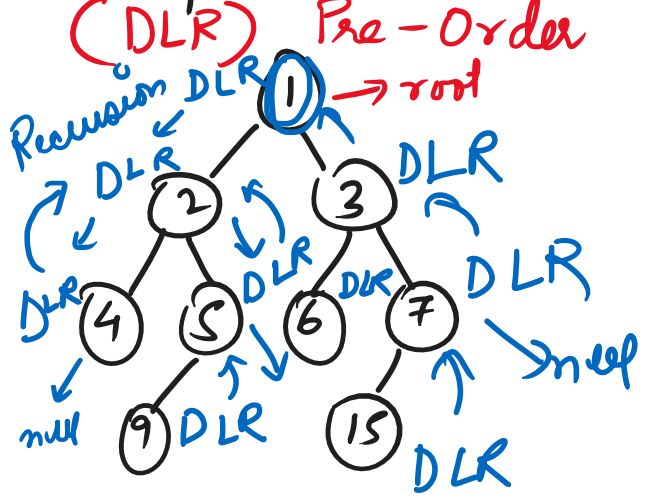


②

Binary Tree

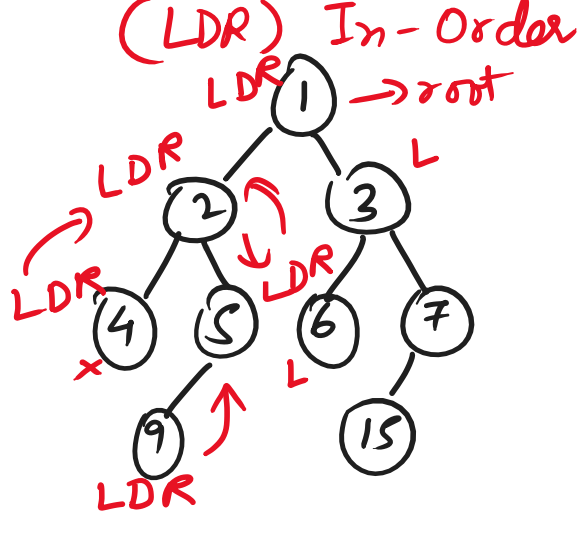


Depth First Search Traversal Technique : DFS

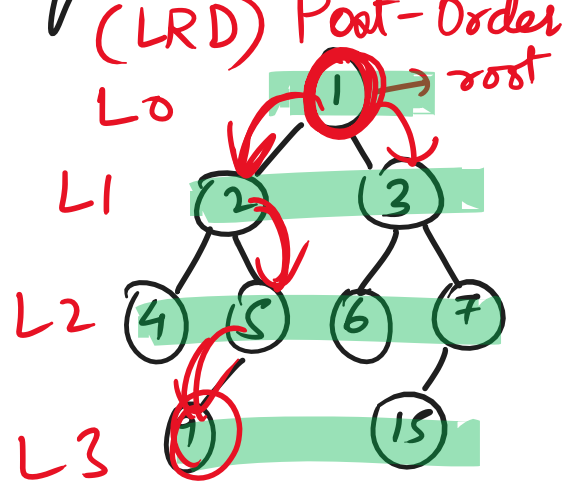


O/p: 1, 2, 4, 5, 9, 3, 6, 7, 15

↓
Root



O/p: 4, 2, 9, 5, 1, 6, 3, 15, 7



O/p: 4, 9, 5, 2, 6, 15, 7, 3, 1

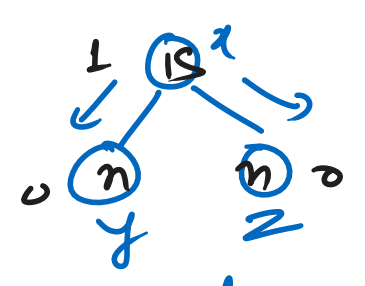
* If the tree is empty, we don't traverse (root == null)

```

class Node {
    int data;
    Node left, Node right;
}
    
```

* Binary Tree Interview Questions: →

① Height of a Binary Tree



The height of a binary tree is the maximum number of nodes from the root node to any of its descendants.

node => height = max(l, r) + 1;

