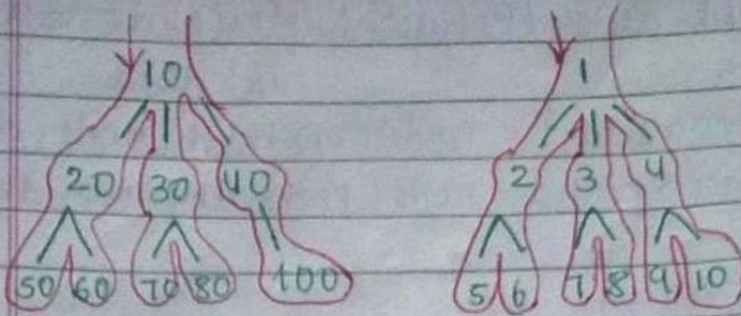


10-JAN-22

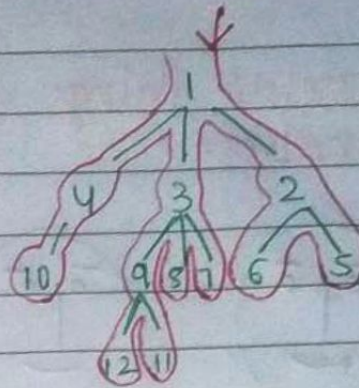
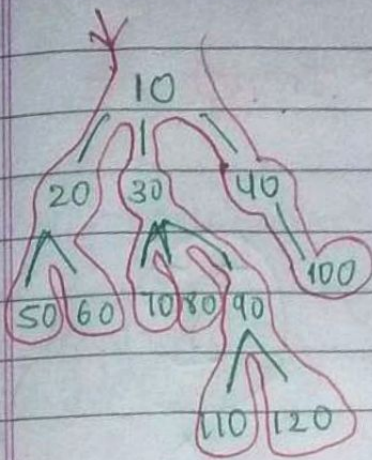
Date:
 DELTA Pg No:

1. Are Trees Similar In shape:-



```
public static boolean areSimilar(Node n1, Node n2) {
    if(n1.children.size() != n2.children.size()) {
        return false;
    }
    for(int i=0; i<n1.children.size(); i++) {
        Node c1 = n1.children.get(i);
        Node c2 = n2.children.get(i);
        if(areSimilar(c1, c2) == false) {
            return false;
        }
    }
    return true;
}
```


2. Are Trees Mirror In Shape -



```
public static boolean areMirror(Node n1, Node n2) {
```

```
    if (n1.children.size() != n2.children.size()) {
        return false;
```

```
    }
```

```
    for (int i = 0; i < n1.children.size(); i++) {
```

```
        Node c1 = n1.children.get(i);
```

```
        Node c2 = n2.children.get(n2.children.size() - 1 - i);
```

// niche se

last -0, -2, (ye last se 0) (last se 2)

```
        if (areMirror(c1, c2) == false) {
```

```
            return false;
```

```
        }
```

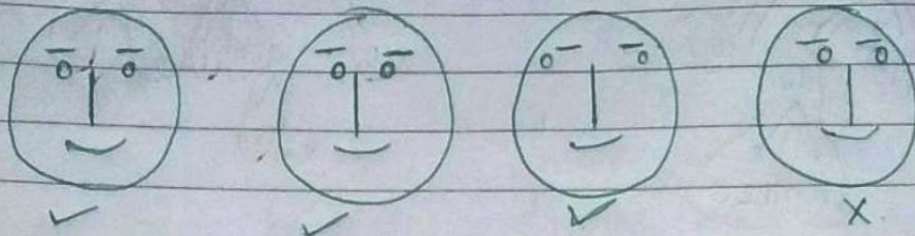
```
    }
```

```
    return true;
```

```
}
```

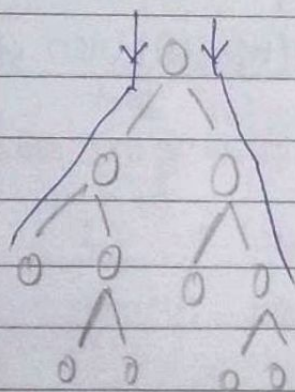

3. Is Generic Tree Symmetric -

→ Symmetric things are MIRROR Image of Themselves.

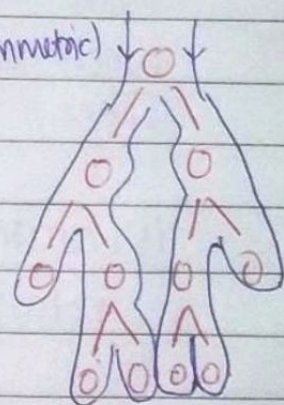


```
public static boolean areMirror (Node n1, Node n2) {  
    // Mirror code.  
}
```

```
public static boolean isSymmetric (Node node) {  
    return areMirror (node, node);  
}
```



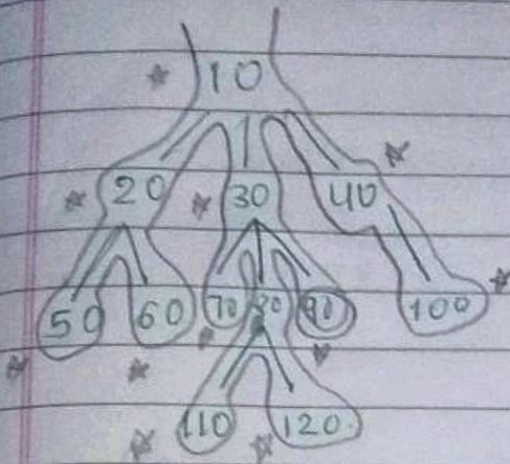
(Not Symmetric) (Symmetric)



Is similar ke jge 2 Tree
Is symmetric for 1 Tree
Are Mirror me 2 Tree.

4. Predecessor And Successor of An

Element.



Preorder.

[90 Predecessor = 120

[90 successor = 40.

[10 pred = null

[10 succ = 20 *

[100 pred = 40

[100 succ = null.

[Reverse Data Recursive - Reverse (left heap)
(right heap)

is Pollin
odd