NODE TO ROOT PATH IN GENERIC TREE

Code

```
public static Arraylist<Integer> nodeToRootPath (Node node, int data)
{
    if (node.data == data)
    {
        Arraylist<Integer> list = new Arraylist<>();
        list.add (node.data);
        return list;
    }

    for(Node child : node.children)
    {
        Arraylist<Integer> ptc = nodeToRootPath (child, data);
        if (ptc.size() > 0)
        {
            ptc.add (node.data);
            return ptc;
        }
    }
    return new Arraylist<>();
}
```

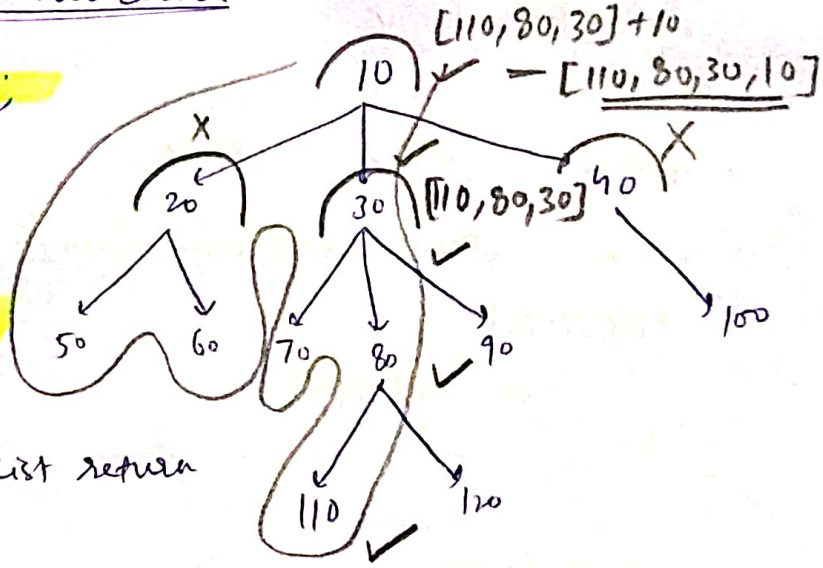
agar node.data == data hota yeh, fir yeh ek choti si arraylist banata hai, list ke ander kudh ko add krta hai! fir list ko return krdega

Agar node.data != data hai! toh yeh apne childrens ko call krega, new Arraylist banaa path till child ki usme path return kiya!

path till child

Agar kisi child pe path bahara aya toh usme kudh ko add krke return krega!

Agar tree pe mila hi nahi toh empty Arraylist return hogi



Faith :

Jo node pass kiya gaya hai, aur vo data, aur jahan yeh data milega waha se leke node tak ka path return krega!

Expectation :

Humari (10) se expectation yeh hai jahan bhi (110) milega waha se leke (10) tak ka path Arraylist return krega

Expectation Meets Faith

Aab (10) kya krega?

↓

Jiske yaha se bari (full) arraylist aayi (or) jiske yaha se path aya!

Uss rastey/path me kudh ko add krke new Arraylist return krdega!