Agiftsany Azhar
152011513020/D3-Sistem Informasi

-----Main-----
```java
package tugas9_152011513020;

public class Tugas9_152011513020 {

    public static void main(String[] args) {
        BTree a;

        a   = new BTree();

        a.insert(20);
        a.insert(10);
        a.insert(30);
        a.insert(17);
        a.insert(25);
    }

}
```

-----Class-----
```java
package tugas9_152011513020;

public class TNode {
    int info;
    TNode left;
    TNode right;

    public TNode(int info){
        this.info = info;
    }

    public void setInfo(int info){
        this.info = info;
    }

    public int getInfo(){
        return info;
    }

    public void setLeft(TNode node){
        left = node;
    }

    public TNode getLeft(){
        return left;
    }

    public void setRight(TNode node){
        right = node;
    }
```

```java
    public TNode getRight(){
        return right;
    }
}

-----Class-----
package tugas9_152011513020;

public class BTree {
    TNode root;
    int size;

    public BTree(){
        this.root   = null;
        this.size   = 0;
    }

    public void insert(int info){
        this.root   = insert(this.root,info);
    }

    public TNode insert(TNode tnode, int info){
        if (tnode == null){
            tnode   = new TNode(info);
            return tnode;
        }
        if (tnode.getInfo()>info){
            tnode.setLeft(insert(tnode.getLeft(),info));
        }
        else if (tnode.getInfo()<info){
            tnode.setRight(insert(tnode.getRight(), info));
        }
        return tnode;
    }

    public void printPostorder(TNode tnode)
    {
        if (tnode == null){
            return;
        }

        printPostorder(tnode.left);

        printPostorder(tnode.right);

        System.out.print(tnode.getInfo() + " ");
    }

    public void printPostorder() {
        printPostorder(root);
        System.out.println("");
    }

    public void printInorder(TNode tnode)
```

```java
    {
        if (tnode == null){
            return;
        }

        printInorder(tnode.left);

        System.out.print(tnode.getInfo() + " ");

        printInorder(tnode.right);

    }

    public void printInorder() {
        printInorder(root);
        System.out.println("");
    }

    public void printPreorder(TNode tnode)
    {
        if (tnode == null){
            return;
        }

        System.out.print(tnode.getInfo() + " ");

        printPreorder(tnode.left);

        printPreorder(tnode.right);

    }

    public void printPreorder() {
        printPreorder(root);
        System.out.println("");
    }
}
```