



链滴

JAVA递归、非递归遍历二叉树

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原文链接: <https://ld246.com/article/1463044932991>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

```

import java.util.Stack;
import java.util.HashMap;

public class BinTree {
    private char date;
    private BinTree lchild;
    private BinTree rchild;

    public BinTree(char c) {
        date = c;
    }

    // 先序遍历递归
    public static void preOrder(BinTree t) {
        if (t == null) return;
        System.out.print(t.date);
        preOrder(t.lchild);
        preOrder(t.rchild);
    }

    // 中序遍历递归
    public static void InOrder(BinTree t) {
        if (t == null) return;
        InOrder(t.lchild);
        System.out.print(t.date);
        InOrder(t.rchild);
    }

    // 后序遍历递归
    public static void PostOrder(BinTree t) {
        if (t == null) return;
        PostOrder(t.lchild);
        PostOrder(t.rchild);
        System.out.print(t.date);
    }

    // 先序遍历非递归
    public static void preOrder2(BinTree t) {
        Stack<BinTree> s = new Stack<BinTree>();
        while (t != null || !s.empty()) {
            while (t != null) {
                System.out.print(t.date);
                s.push(t);
                t = t.lchild;
            }
            t = s.pop();
            t = t.rchild;
        }
    }
}

```

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