```java
package Iterators;

import java.util.Stack;

class TreeNode {
        int val;
        TreeNode left, right;
        public TreeNode(int v) {
                val = v;
        }
}

public class PreorderIterator {

        Stack<TreeNode> stack;
        public PreorderIterator(TreeNode root) {
                stack = new Stack<>();
                if (root == null) return;
                stack.push(root);
        }

        public boolean hasNext() {
                return !stack.isEmpty();
        }

        public int next() {
                if (!hasNext()) return -1;

                TreeNode node = stack.pop();
                if (node.right != null) stack.push(node.right);
                if (node.left != null) stack.push(node.left);

                return node.val;
        }
}
```