```
class Node {
  int key;
  Node left, right;
  public Node(int item) {
    key = item;
   left = right = null;
 }
}
class BST {
  Node root;
  BST(int key) {
   root = new Node(key);
  }
  BST() {
   root = null;
  }
  void printPostOrder(Node node) {
```

```
if (node == null) return;
  printPostOrder(node.left);
  printPostOrder(node.right);
 System.out.print(node.key + " ");
}
void printlnOrder(Node node) {
 if (node == null) return;
  printInOrder(node.left);
  System.out.print(node.key + " ");
  printlnOrder(node.right);
}
void printPreOrder(Node node) {
  if (node == null) return;
 System.out.print(node.key + " ");
  printPreOrder(node.left);
 printPreOrder(node.right);
}
Node search(Node root, int key) {
 if (root == null || root.key == key) {
   return root;
 }
 if (root.key > key) {
    return search(root.left, key);
```

```
}
  return search(root.right, key);
}
Node insertRec(Node root, int key) {
  if (root == null) {
    root = new Node(key);
    return root;
  } else {
    if (key < root.key) {
      root.left = insertRec(root.left, key);
    } else if (key > root.key) {
      root.right = insertRec(root.right, key);
    }
  }
  return root;
}
Node deleteRec(Node root, int key) {
  if (root == null) return root;
 if (key < root.key) {
    root.left = deleteRec(root.left, key);
 } else if (key > root.key) {
    root.right = deleteRec(root.right, key);
 } else {
    if (root.left == null) return root.right;
```

```
else if (root.right == null) return root.left;
   root.key = minValue(root.right);
   root.right = deleteRec(root.right, root.key);
 }
 return root;
}
int minValue(Node root) {
 int minv = root.key;
 while (root.left != null) {
   minv = root.left.key;
   root = root.left;
 }
 return minv;
}
public static void main(String[] args) {
  BST tree = new BST();
 tree.root = new Node(8);
  Node a = new Node(3);
 tree.root.left = a;
  Node b = new Node(10);
 tree.root.right = b;
  a.left = new Node(1);
  a.right = new Node(6);
  b.left = new Node(9);
```

```
b.right = new Node(14);

System.out.println("Pre-order:");

tree.printPreOrder(tree.root);

System.out.println("\nPost-order:");

tree.printPostOrder(tree.root);

System.out.println("\nIn-order:");

tree.printInOrder(tree.root);
}
```