```
// Đåàëèçîâàòü äåðåâî ñ îïåðàöèÿìè ïîèñêà, óäàëåíèÿ, äîáàâëåíèÿ è âñå âèäû îáõîäîâ
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Tree
  public class Node
    public int data;
     public Node right child;
    public Node left child;
  class BinaryTree
     public Node root;
     public BinaryTree()
       root = null;
     private Node Search( int data)
       Node current = root;
       while (current.data != data)
          if (current == null)
            return null;
          if (data < current.data)
            current=current.left child;
          else if (data > current.data)
           current = current.right_child;
          return current;
    public void Insert(int data)
       Node node = new Node();
       node.data = data;
       if (root == null)
```

```
root = node;
  else
     Node current = root;
     Node parent;
     while (true)
       parent = current;
       if (data < current.data)
          current = current.left child;
          if (current == null)
            parent.left child = node;
            break;
       else
          current = current.right child;
          if (current == null)
            parent.right_child = node;
            break;
private void PrintNode(Node root)
  Console.Write(root+ " ");
public void InOrder(Node root)
  if(root != null)
    InOrder(root.left child);
    PrintNode(root);
    InOrder(root.right_child);
public void PreOrder(Node root)
```

```
if (root != null)
    PrintNode(root);
    PreOrder(root.left_child);
    PreOrder(root.right child);
  }
}
public void PostOrder(Node root)
  if (root != null)
    PreOrder(root.left child);
    PreOrder(root.right child);
    PrintNode(root);
  }
public void BreadthFirstSearch(Node root)
  Queue<Node> queue = new Queue<Node>();
  queue.Enqueue(root);
  while (queue != null)
    Node node = queue.Dequeue();
     PrintNode(node);
    if (node.left child != null)
       queue.Enqueue(node.left child);
    if (node.right child != null)
       queue.Enqueue(node.right_child);
```