```
using System;
using System.Collections;
using System.Collections.Generic;
namespace Doi_So_Nhi_Phan_export_stack
{
    public class Stack
        public int[] data = new int[20];
        public int top;
    class Program
        public static Boolean IsFull(Stack S)
            if (S.top == S.data.Length - 1)
            {
                return true;
            }
            else
            {
                return false;
        }
        public static Boolean IsEmpty(Stack S)
            if (S.top == -1)
            {
                return true;
            }
            else
            {
                return false;
            }
        public static void Push(Stack S, int x)
            if (IsFull(S) == false)
            {
                S.top++;
                S.data[S.top] = x;
            }
            else
            {
                Console.WriteLine("Full");
            }
        public static void Pop(Stack S)
            if (IsEmpty(S) == false)
            {
                S.top--;
            }
            else
                Console.WriteLine("empty");
```

```
}
        }
        public static void Peek(Stack S)
            if (IsEmpty(S) == false)
            {
                Console.WriteLine("Top Element: " + S.data[S.top]);
            }
            else
            {
                Console.WriteLine("Stack Underflow");
        public static void NumberElement(Stack S)
            string str = " ";
            for (int i = S.top; i >= 0; i--)
                str += S.data[i] + " ";
            Console.WriteLine("Element: " + str);
        }
        static void Main(string[] args)
            Stack S = new Stack();
            int n;
            int r;
            Console.WriteLine("Nhap so can chuyen: ");
            n = Convert.ToInt32(Console.ReadLine());
            while (n > 0)
            {
                r = (n \% 2);
                Push(S, r);
                n = (n / 2);
            Console.WriteLine("Nhi phan sau khi doi: ");
            NumberElement(S);
            Peek(S);
        }
    }
}
```