using System;

namespace example\_ADT\_Datastructure

{

class Program

{

static void Main(string[] args)

{

int[] arr = new int[10];

int i, n, vitri, moi, vitrixoa, phantutim;

Console.WriteLine("Length of Array:");

n = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter {0} numbers:", n );

for (i = 0; i < n; i++)

{

Console.Write("Number - {0} : ", i);

arr[i] = Convert.ToInt32(Console.ReadLine());

}

//In mang vua nhap

Console.WriteLine("Array: ");

for (i = 0; i < n; i++)

{

Console.Write("{0} ", arr[i]);

}

//Gia tri muon chen

Console.WriteLine("\nThe number wants to convert: ");

moi = Convert.ToInt32(Console.ReadLine());

//Vi tri muon chen

Console.WriteLine("Number Location of new number in Array: ");

vitri = Convert.ToInt32(Console.ReadLine());

for (i = n; i >= vitri; i--)

arr[i] = arr[i - 1];

arr[vitri - 1] = moi;

//In mang sau khi chen

Console.Write("\n\nAfter convert new number in Array:\n");

for (i = 0; i <= n; i++)

Console.Write("{0} ", arr[i]);

Console.Write("\n\n");

//Xoa phan tu trong mang

Console.Write("\nNhap vi tri can xoa: ");

vitrixoa = Convert.ToInt32(Console.ReadLine());

//tim i

i = 0;

while (i != vitrixoa - 1)

i++;

//dua phan tu ben phai qua thay the phan tu moi

while (i < n)

{

arr[i] = arr[i + 1];

i++;

}

Console.Write("\n Array after delete: ");

for (i = 0; i < n; i++)

{

Console.Write(" {0}", arr[i]);

}

Console.WriteLine("\n Nhap phan tu can tim");

phantutim = Convert.ToInt32(Console.ReadLine());

for (i = 0; i <= n; i++)

{

if (arr[i] == phantutim)

{

Console.WriteLine("Vi tri cua {0} la {1}", phantutim, i);

}

}

Console.ReadKey();

}

}

}