

HỌ VÀ TÊN: NGUYỄN CAO XUÂN NGHĨA

CÂU 1,2,3:

```
#include <iostream>

using namespace std;

void input(int listInteger[], int &length)
{
    cout << "\n Nhap so luong phan tu nguyen: ";
    cin>>length;
    cout << "\n Nhap danh sach phan tu: ";
    for(int i=0; i<length; i++)
    {
        cin>> listInteger[i];
    }
}

void output(int listInteger[], int &length)
{
    for(int i=0; i<length; i++)
    {
        cout << listInteger[i] << " ";
    }
}

int findInteger(int listInteger[], int &length, int &findingNumber)
{
    for(int i=0; i<length; i++)
    {
        if(listInteger[i]==findingNumber)
        {
            return 1;
        }
    }
    return -1;
}
```

```

}

void findMaxInterger(int listInterger[], int length)
{
    int maxInterger=listInterger[0];
    for(int i=0;i<length;i++)
    {
        if(maxInterger < listInterger[i])
        {
            maxInterger=listInterger[i];
        }
    }
    cout << "\n So nguyen lon nhat trong mang la: " << maxInterger;
}

void bubbleSort(int listInterger[], int length)
{
    for(int i=0;i<length-1;i++)
    {
        for(int j=i+1;j<length;j++)
        {
            if(listInterger[j] < listInterger[i])
            {
                swap(listInterger[i],listInterger[j]);
            }
        }
    }
}

int main()
{
    int listInterger[1000];
    int length=0;
    int findingNumber=0;

```

```

input(listInteger,length);
cout << "\n Nhap so can tim: ";
cin>> findingNumber;
if(findInteger(listInteger,length,findingNumber)==1)
{
    cout << "\n Tim thay so " << findingNumber;
} else {
    cout << "\n Khong tim thay so " << findingNumber;
}
findMaxInteger(listInteger,length);;
bubbleSort(listInteger,length);
cout << "\n Danh sach mang sau khi sap xep la: ";
output(listInteger,length);
}

```

```

D:\Objected C++\Assignmer x + v
Nhập số lượng phần tử nguyên: 10
Nhập danh sách phần tử: 32 5651 623 478 11 54123 4789 623 87 1
Nhập số cần tìm: 623

Tìm thấy số 623
Số nguyên lớn nhất trong mảng là: 54123
Danh sách mảng sau khi sắp xếp là: 1 11 32 87 478 623 623 4789 5651 54123
Process returned 0 (0x0)   execution time : 27.722 s
Press any key to continue.

```

CÂU 4:

```
#include <iostream>
```

```
using namespace std;
```

```
struct rectangle
```

```
{
```

```
    double length,width;
```

```
    double area;
```

```
};
```

```
void input(rectangle &hinhChuNhat)
```

```
{
```

```
    cout << "\n Nhap chieu dai: ";
```

```
    cin>> hinhChuNhat.length;
```

```
    cout << "\n Nhap chieu rong: ";
```

```
    cin>> hinhChuNhat.width;
```

```
}
```

```
void displayDimensions(rectangle &hinhChuNhat)
```

```
{
```

```
    cout << "\n Chieu dai da nhap la: "<< hinhChuNhat.length;
```

```
    cout << "\n Chieu rong da nhap la: " << hinhChuNhat.width;
```

```
}
```

```
void displayArea(rectangle &hinhChuNhat)
```

```
{
```

```
    hinhChuNhat.area=hinhChuNhat.length*hinhChuNhat.width;
```

```
}
```

```
void edit(rectangle &hinhChuNhat)
```

```
{
```

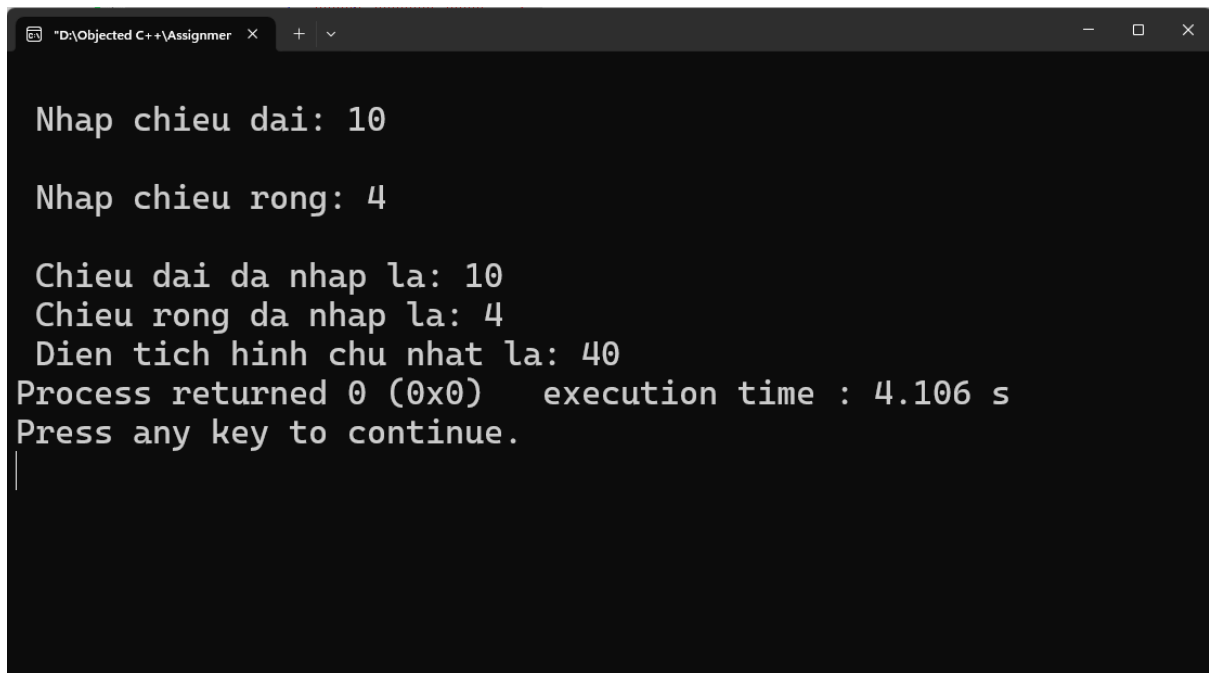
```
    cout << "\n Dien tich hinh chu nhat la: " << hinhChuNhat.area;
```

```
}
```

```
int main()
```

```
{
```

```
rectangle hinhChuNhat;  
input(hinhChuNhat);  
displayDimensions(hinhChuNhat);  
displayArea(hinhChuNhat);  
edit(hinhChuNhat);  
}
```



The screenshot shows a Windows-style application window titled "D:\Objected C++\Assignmer". The window contains a black console area with white text. The text shows the program's execution flow: it prompts for the length (10) and width (4), then displays the calculated dimensions and area (40). It also shows the process returning 0 and the execution time being 4.106 seconds. The prompt "Press any key to continue." is visible at the bottom, with a cursor on the line below it.

```
"D:\Objected C++\Assignmer" x + -  
Nhap chieu dai: 10  
Nhap chieu rong: 4  
Chieu dai da nhap la: 10  
Chieu rong da nhap la: 4  
Dien tich hinh chu nhat la: 40  
Process returned 0 (0x0)   execution time : 4.106 s  
Press any key to continue.  
|
```