#include<iostream>

using namespace std;

class student

{

public:

char name[100];

int roll\_no;

char grade;

public:

void read(student s[100],int k);

void display(student s[100],int k);

void sortfn(student s[100],int k);

};

void student:: read(student s[100],int k)

{

cout<<"enter the name , roll no and grade of students:"<<endl;

for(int i=0;i<k;i++)

{

cin>>s[i].name;

cin>>s[i].roll\_no;

cin>>s[i].grade;

}

}

void student:: display(student s[100],int k)

{

for(int i=0;i<k;i++)

{

cout<<"name:";

cout<<s[i].name<<endl;

cout<<"roll no:"<<s[i].roll\_no<<endl;

cout<< "grade:"<<s[i].grade<<endl;

}

}

void student::sortfn(student s[100],int k)

{

for(int i=0;i<k-1;i++)

{

for(int j=0;j<k-1-i;j++)

{

if(s[j].roll\_no>s[j+1].roll\_no)

{

student temp=s[j];

s[j]=s[j+1];

s[j+1]=temp;

}

}

}

}

int main()

{

cout<< "enter the number of students"<<endl;

int n;

cin>>n;

student obj[100];

student temp;

temp.read(obj,n);

temp.display(obj,n);

temp.sortfn(obj,n);

cout<<"data after sorting"<<endl;

temp.display(obj,n);

}