

/* 200129 _ Md.Raihanul Haque_ Assignment -01 */

```
#include<bits/stdc++.h>
using namespace std;
typedef long long int ll;
class sorting
{
private:
    ll a,b;
public:
    sorting()
    {

    }
    sorting(ll x,ll y)
    {
        a=x;
        b=y;
    }
    int get_a()
    {
        return a;
    }
    void print()
    {
        cout<<a<<" "<<b<<endl;
    }
};
int main()
{
    sorting arr[5],cpy;
    for(ll i=0; i<5; i++)
    {
        ll p,q;
        cin>>p>>q;
```

```

        arr[i]=sorting(p,q);
    }
    for(int i=0; i<5; i++)
    {
        for(ll j=i+1; j<5; j++)
            if(arr[i].get_a()>arr[j].get_a())
            {
                //swap(arr[i],arr[j]);
                cpy=arr[i];
                arr[i]=arr[j];
                arr[j]=cpy;
            }
    }
    for(ll i=0; i<5; i++) arr[i].print();
}

```

/* 200129 _ Md.Raihanul Haque_ Assignment -02 */

```

#include<bits/stdc++.h>
using namespace std;
typedef long long int ll;
class student
{
private:
    string name;
    ll roll;
    double cgpa;
public:
    student()
    {

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    }
    student(string str,ll r,double gp)
    {
        name=str;
        roll=r;
        cgpa=gp;
    }
    double get_cgpa()
    {
        return cgpa;
    }
    void print()
    {
        cout<<name<<" ";
        cout<<roll<<" ";
        cout<<cgpa<<endl;
    }
};

int main()
{
    student arr[10],cpy;
    string N[10]={"Shuvo Ahmed","Josim Uddin","Rakib
Islam","Sakib Khan","Tamim Iqbal","Rohim Mia","Korim
Mia","Habib Islam","Mithu Islam","Marsel Mia"};
    for(ll i=0;i<10;i++)
    {
        int R;
        double C;
        cin>>R>>C;
        arr[i]=student(N[i],R,C);
    }
    for(int i=0; i<10; i++)
    {
        for(ll j=i+1; j<10; j++)
            if(arr[i].get_cgpa()<arr[j].get_cgpa())
            {
                //swap(arr[i],arr[j]);
                cpy=arr[i];

```

```
        arr[i]=arr[j];
        arr[j]=cpy;
    }
}
cout<<"Merit"<<" Name " <<"Roll " <<"CGPA"<<endl;
cout<<"-----"<<endl;
for(ll i=0; i<10; i++)
{
    cout<<i+1<<" -";
    arr[i].print();
}
}
```