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/*
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Team 8
SEC 07 and 08
September 22nd 2020
Question 1
*/
#include <iostream>

using namespace std;

class Person{
    private:
        string name;
        float salary;
    public:
        void setPerson();
        string getName();
        float getSalary();
};
void Person::setPerson(){
    cout<<"Enter person's name ";
    cin>> name;
    cout<<"Enter person's salary ";
    cin>> salary;
}
string Person::getName(){
    return name;
}
float Person::getSalary(){
    return salary;
}
void bsort(Person** p,int n,bool s)
{
    void order(Person**, Person**);
    for(int i = 0; i < n; i++){
        for(int j = i+1; j < n; j++){
            if(((s==false && p[i] -> getSalary() > p[j] -> getSalary()) ||
(s==true && p[i] -> getName() > p[j] -> getName()))){
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                order(p+i,p+j);
            }
        }
    }
}
void order(Person** person1, Person** person2){
        Person* temp;
        temp = *person1;
        *person1 = *person2;
        *person2 = temp;
}
int main(){

    int n;
    cout << "Enter number of person: ";
    cin >> n;
    Person* p[n];
    for(int i = 0;i < n;i++){
        p[i] = new Person();
        p[i] -> setPerson();
    }
    cout << "\nUnsorted order" << endl;
    for(int i = 0;i < n;i++){
        cout << (p[i]->getName()) << " " << (p[i] -> getSalary()) << endl;
    }
    cout << "\nSorted base of name alphabetically" << endl;
    bsort(p,n,true);
    for(int i = 0;i < n;i++){
        cout << (p[i]->getName()) << " " << (p[i] -> getSalary()) << endl;
    }
    cout << "\nSorted based on salary from least to greatest" << endl;
    bsort(p,n,false);
    for(int i = 0;i < n;i++){
        cout << (p[i]->getName()) << " " << (p[i] -> getSalary()) << endl;
    }
    cout << endl;
    return 0;
}
```

```
/*
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September 22nd 2020
Question 2
*/
#include <iostream>

using namespace std;

class Person{
    private:
        string name;
        float salary;
    public:
        void setPerson();
        string getName();
        float getSalary();
};
void Person::setPerson(){
    cout<<"Enter person's name ";
    cin>> name;
    cout<<"Enter person's salary ";
    cin>> salary;
}
string Person::getName(){
    return name;
}
float Person::getSalary(){
    return salary;
}
void bsort(Person** p,int n,bool s)
{
    for(int i = 0; i < n; i++){
        for(int j = i+1; j < n; j++){
            if(((s==false && p[i] -> getSalary() > p[j] -> getSalary()) ||
(s==true && p[i] -> getName() > p[j] -> getName()))){
```

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                Person* temp;
                temp = p[i];
                p[i] = p[j];
                p[j] = temp;
            }
        }
    }
}

int main(){

    int n;
    cout << "Enter number of person: ";
    cin >> n;
    Person* p[n];
    for(int i = 0;i < n;i++){
        p[i] = new Person();
        p[i] -> setPerson();
    }
    cout << "\nUnsorted order" << endl;
    for(int i = 0;i < n;i++){
        cout << (p[i]->getName()) << " " << (p[i] -> getSalary()) << endl;
    }
    cout << "\nSorted base of name alphabetically" << endl;
    bsort(p,n,true);
    for(int i = 0;i < n;i++){
        cout << (p[i]->getName()) << " " << (p[i] -> getSalary()) << endl;
    }
    cout << "\nSorted based on salary from least to greatest" << endl;
    bsort(p,n,false);
    for(int i = 0;i < n;i++){
        cout << (p[i]->getName()) << " " << (p[i] -> getSalary()) << endl;
    }
    cout << endl;
    return 0;
}
```