Class Student

```
public class Student {
     private String name;
     private int id;
     private int age;
     private String gender;
     public Student(String name, int id, int age, String gender) {
           this.name = name;
           this.id = id;
           this.age = age;
           this.gender = gender;
     }
     public String getName() {
           return name;
     public int getId() {
           return id;
     public int getAge() {
           return age;
     public String getGender() {
           return gender;
     }
     public void display(){
           System.out.println("Student name: " + name);
           System.out.println("Student id: " + id);
           System.out.println("Student age: " + age);
           System.out.println("Student gender: " + gender);
     }
}
```

Class Section

```
public class Section {
     private Student arrStu[];
     private int nbStu;
     public Section(int size){
           arrStu = new Student[size];
           nbStu = 0;
     public boolean addStudent(Student st){
           if(nbStu >= arrStu.length)
                 return false;
           arrStu[nbStu++] = st;
           return true;
     }
     public int searchStudent(int id){
           for(int i = 0; i < nbStu; i++)</pre>
                 if(arrStu[i].getId() == id)
                      return i;
           return -1;
     }
     public boolean deleteStudent(int id){
           int index = searchStudent(id);
           if(index == -1)
                 return false;
           arrStu[index] = arrStu[nbStu-1];
           arrStu[nbStu-1] = null;
           nbStu--;
           return true;
     }
     public void displayAll(){
           for(int i = 0; i < nbStu; i++)
                 arrStu[i].display();
     }
     public void display(int index){
           if(index >= 0 && index < nbStu)</pre>
                 arrStu[index].display();
           else
                 System.out.println("Wrong index");
     }
```

```
public void display(String name){
           for(int i = 0; i < nbStu; i++)
                 if(arrStu[i].getName().equalsIgnoreCase(name))
                      arrStu[i].display();
     }
     public void displaySameAs(Student st){
           for(int i = 0; i < nbStu; i++)
                 if(arrStu[i].getName().equalsIgnoreCase(st.getName())
                   && arrStu[i].getAge() == st.getAge()
                   &&
arrStu[i].getGender().equalsIgnoreCase(st.getGender()))
                      arrStu[i].display();
     }
     public Student searchFirst(String name){
           for(int i = 0; i < nbStu; i++)</pre>
                 if(arrStu[i].getName().equalsIgnoreCase(name))
                       return arrStu[i];
           return null;
     }
     public Student searchLast(String name){
           Student temp = null;
           for(int i = 0; i < nbStu; i++)
                 if(arrStu[i].getName().equalsIgnoreCase(name))
                      temp = arrStu[i];
           return temp;
     }
     public Student[] getStudents(int age){
           int size = 0;
           for(int i = 0; i < nbStu; i++)</pre>
                 if(arrStu[i].getAge() < age)</pre>
                       size++;
           Student temp[] = new Student[size];
           int counter = 0;
           for(int i = 0; i < nbStu; i++)
                 if(arrStu[i].getAge() < age)</pre>
                      temp[counter++] = arrStu[i];
           return temp;
     }
}
```