public class Student {
        private int studentId;
        private String studentName;
        private int studentAge;

        public Student(int studentId, String studentName, int studentAge) {

                this.studentId = studentId;
                this.studentName = studentName;
                this.studentAge = studentAge;
        }
        public int getStudentId() {
                return studentId;
        }
        public void setStudentId(int studentId) {
                this.studentId = studentId;
        }
        public String getStudentName() {
                return studentName;
        }
        public void setStudentName(String studentName) {
                this.studentName = studentName;
        }
        public int getStudentAge() {
                return studentAge;
        }
        public void setStudentAge(int studentAge) {
                this.studentAge = studentAge;
        }

}

public class Section {
        private Student arrayStu[];
        private int counter;

        public Section(int size)
        {
                arrayStu=new Student[size];
                counter=0;
        }
        public boolean addStudent(Student stu)
        {
                if(counter < arrayStu.length)
                        {
                        arrayStu[counter] = stu;
                        counter++;
                        return true;
                        }
                else
                        return false;
        }

        public int search(int id)
        {
                for(int i=0;i<counter;i++)
                        if(id==arrayStu[i].getStudentId())
                                return i;

                return -1;

        }

        boolean deleteStu(int id)
        {
                int index=search(id);
                if(index==-1)
                        return false;
                else
                {
                        arrayStu[index]=arrayStu[counter-1];
                        arrayStu[counter-1]=null;
                        counter--;
                        return true;
                }

        }

        public int findMaxAge()
        {
                int max =arrayStu[0].getStudentAge() ;
                for(int i=1; i<counter; i++)
                        if(arrayStu[i].getStudentAge()>max)
                                max = arrayStu[i].getStudentAge();
                return max;
        }

        public int findMinAge()
        {
                int min =arrayStu[0].getStudentAge() ;
                for(int i=1; i<counter; i++)
                        if(arrayStu[i].getStudentAge()<min)
                                min = arrayStu[i].getStudentAge();
                return min;
        }

        public double calculateTotalAges()
        {
                double sum = 0.0;
                for(int i=0; i<counter; i++)
                        sum += arrayStu[i].getStudentAge();
                return sum;
        }

        public double calculateAvgAge()
        {
                if (counter==0)
                        return 0.0;
                else
                        return calculateTotalAges()/counter;

        }

        public void printStuData(int id)
        {
                int index=search(id);
                if(index==-1)
                        System.out.println("Student not Found");
                else
                {
                        System.out.println("Id= "+arrayStu[index].getStudentId());
                        System.out.println("Name= "+arrayStu[index].getStudentName());
                        System.out.println("Age= "+arrayStu[index].getStudentAge());

                }

        }

}

public class TestSection {

        /\*\*
         \* @param args
         \*/
        public static void main(String[] args) {
                // TODO Auto-generated method stub
                Section sec=new Section(10);
                Student st1=new Student(101,"Aaa",21);
                Student st2=new Student(102,"Bbb",19);
                Student st3=new Student(103,"Ccc",22);
                Student st4=new Student(104,"Ddd",24);
                Student st5=new Student(105,"Eee",18);

                System.out.println(sec.addStudent(st1));
                System.out.println(sec.addStudent(st2));
                System.out.println(sec.addStudent(st3));
                System.out.println(sec.addStudent(st4));
                System.out.println(sec.addStudent(st5));

                System.out.println(sec.search(109));

                System.out.println(sec.findMaxAge());
                System.out.println(sec.findMinAge());

                sec.printStuData(109);
                if(sec.deleteStu(103)==true)
                        System.out.println("student deleted");
                else
                        System.out.println("not found");

        }

}