import java.util.ArrayList;

import java.util.Collections;

import java.util.Comparator;

import java.util.List;

import java.util.Scanner;

class Student implements Comparable<Student> {

private String id;

private String name;

private String class;

private String major;

public Student(String id, String name, String className, String major) {

this.id = id;

this.name = name;

this.className = className;

this.major = major;

}

public String getStudentNumber() {

return id;

}

public int compareTo(Student other) {

return this.id.compareTo(other.id);

}

public String toString() {

return "学号: " + id + ", 姓名: " + name + ", 班级: " + className + ", 专业: " + major;

}

}

public class StudentList {

public static void main(String[] args) {

List<Student> students = new ArrayList<>();

Scanner scanner = new Scanner(System.in);

while (true) {

System.out.println("请输入学生信息（学号 姓名 班级 专业），输入exit结束：");

String input = scanner.nextLine();

if (input.equals("exit")) {

break;

}

String[] studentInfo = input.split(" ");

if (studentInfo.length != 4) {

System.out.println("输入格式错误，请重新输入。");

continue;

}

String id = studentInfo[0];

String name = studentInfo[1];

String className = studentInfo[2];

String major = studentInfo[3];

Student student = new Student(id, name, className, major);

students.add(student);

}

Collections.sort(students);

System.out.println("按学号排序后的学生信息：");

for (Student student : students) {

System.out.println(student);

}

}

}

