



Java Sort

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Problem

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You are given a list of student information: ID, FirstName, and CGPA. Your task is to rearrange them according to their CGPA in decreasing order. If two student have the same CGPA, then arrange them according to their first name in alphabetical order. If those two students also have the same first name, then order them according to their ID. No two students have the same ID.

Hint: You can use comparators to sort a list of objects. See the [oracle docs](#) to learn about comparators.

Input Format

The first line of input contains an integer N , representing the total number of students. The next N lines contains a list of student information in the following structure:

```
ID Name CGPA
```

Constraints

$2 \leq N \leq 1000$
 $0 \leq ID \leq 100000$
 $5 \leq |Name| \leq 30$
 $0 \leq CGPA \leq 4.00$

The name contains only lowercase English letters. The ID contains only integer numbers without leading zeros. The $CGPA$ will contain, at most, 2 digits after the decimal point.

Output Format

After rearranging the students according to the above rules, print the first name of each student on a separate line.

Sample Input

```
5
33 Rumpa 3.68
85 Ashis 3.85
56 Samiha 3.75
19 Samara 3.75
22 Fahim 3.76
```

Sample Output

```
Ashis
Fahim
Samara
Samiha
Rumpa
```

Submissions: [11786](#)



Max Score: 10

Difficulty: Easy

Rate This Challenge:



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Current Buffer (saved locally, editable)  

Java 7



```
48 import java.util.*;
49
50 class Student{
51     private int id;
52     private String fname;
53     private double cgpa;
54     public Student(int id, String fname, double cgpa) {
55         super();
56         this.id = id;
57         this.fname = fname;
58         this.cgpa = cgpa;
59     }
60     public int getId() {
61         return id;
62     }
63     public String getFname() {
64         return fname;
65     }
66     public double getCgpa() {
67         return cgpa;
68     }
69 }
70
71 //Complete the code
72 public class Solution
73 {
74     public static void main(String[] args){
75         Scanner in = new Scanner(System.in);
76         int testCases = Integer.parseInt(in.nextLine());
77
78         List<Student> studentList = new ArrayList<Student>();
79         while(testCases>0){
80             int id = in.nextInt();
81             String fname = in.next();
82             double cgpa = in.nextDouble();
83
84             Student st = new Student(id, fname, cgpa);
85             studentList.add(st);
86
87             testCases--;
88         }
89
90         for(Student st: studentList){
91             System.out.println(st.getFname());
92         }
93     }
94 }
95
```

Line: 1 Col: 1

 [Upload Code as File](#)

☐ Test against custom input

Run Code

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