Comparators are used to compare two objects. In this challenge, you'll create a comparator and use it to sort an array.

The *Player* class is provided for you in your editor. It has 2 fields: a $name$ String and a $score$ integer.

Given an array of n *Player* objects, write a comparator that sorts them in order of decreasing score; if 2 or more players have the same score, sort those players alphabetically by name. To do this, you must create a *Checker* class that implements the *Comparator* interface, then write an *int compare(Player a, Player b)*method implementing the Comparator.compare(T o1, T o2) method.

Input Format

Input from stdin is handled by the locked stub code in the *Solution* class.

The first line contains an integer, n, denoting the number of players.
Each of the n subsequent lines contains a player's $name$ and $score$, respectively.

Constraints

- $0 \leq score \leq 1000$
- 2 players can have the same name.
- Player names consist of lowercase English letters.

Output Format

You are not responsible for printing any output to stdout. The locked stub code in *Solution* will create a *Checker* object, use it to sort the *Player* array, and print each sorted element.

Sample Input

```
5
amy 100
david 100
heraldo 50
aakansha 75
aleksa 150
```

Sample Output

```
aleksa 150
amy 100
david 100
aakansha 75
heraldo 50
```