3-1

public class assignment3q1 {  
 public static void main(String[] args) {  
 Set<Person> set= new TreeSet<>(new weightFunction());  
 set.add(new Person("Ram",160,75));  
 set.add(new Person("Arjun",150,80));  
 set.add(new Person("Krishna",170,75));  
 set.add(new Person("Sai",180,85));  
 for(Person p:set)  
 System.*out*.println(p.getName());  
 }  
  
}

public class Person extends assignment3q1{  
 private String name;  
 private int height;  
 private double weight;  
 Person(String name,int height,double weight)  
 {  
 this.name=name;  
 this.height=height;  
 this.weight=weight;  
 }  
 public String getName() {  
 return name;  
 }  
 public int getHeight() {  
 return height;  
 }  
 public double getWeight() {  
 return weight;  
 }  
}

import java.util.Comparator;  
  
public class weightFunction implements Comparator<Person> {  
 public int compare(Person p1,Person p2) {  
 if(p1.getWeight()==p2.getWeight())  
 {  
 if(p1.getHeight()>p2.getHeight())  
 return 1;  
 else  
 return -1;  
 }  
 else  
 {  
 if(p1.getWeight()>p2.getWeight())  
 return 1;  
 else  
 return -1;  
 }  
 }  
}