import java.util.\*;

import java.lang.\*;

class Employee

{

int id;

String name;

int salary;

public Employee(int id, String name,

int salary)

{

this.id= id;

this.name = name;

this.salary = salary;

}

public String toString()

{

return this.id + " " + this.name +

" " + this.salary;

}

}

class Sortbyid implements Comparator<Employee>

{

public int compare(Employee x, Employee y)

{

return x.id - y.id;

}

}

class Sortbyname implements Comparator<Employee>

{

// Used for sorting in ascending order of

// name

public int compare(Employee x, Employee y)

{

return x.name.compareTo(y.name);

}

}

class Sortbysalary implements Comparator<Employee>

{

public int compare(Employee x, Employee y)

{

return x.id - y.id;

}

}

class Employee\_main

{

public static void main (String[] args)

{

ArrayList<Employee> a = new ArrayList<Employee>();

a.add(new Employee(1, "sai", 120000));

a.add(new Employee(3, "sam", 10000));

a.add(new Employee(2, "sat", 40000));

System.out.println("Unsorted");

for (int i=0; i<a.size(); i++)

System.out.println(a.get(i));

Collections.sort(a, new Sortbyid());

System.out.println("\nSorted by id");

for (int i=0; i<a.size(); i++)

System.out.println(a.get(i));

Collections.sort(a, new Sortbyname());

System.out.println("\nSorted by name");

for (int i=0; i<a.size(); i++)

System.out.println(a.get(i));

Collections.sort(a, new Sortbysalary());

System.out.println("\nSorted by salary");

for (int i=0; i<a.size(); i++)

System.out.println(a.get(i));

}

}