Q1) You are given a list of employees, every employee has a name and salary, your task is to remove the redundant data from the list. The two employees considered the same if they have the same and same salary.

Class Employee

{

private String Name;

private double Salary;

}

**Solution:**

public class Main {  
 public static void main(String[] args) {  
 List<Employee> employees = new ArrayList<Employee>();  
 employees.add(new Employee("John Doe", 20000.00));  
 employees.add(new Employee("John Doe", 2000.00));  
 employees.add(new Employee("Jane Doe", 20000.00));  
 employees.add(new Employee("Jane Doe", 20000.00));  
  
 System.*out*.println("The list of employees:");  
 System.*out*.println(employees);  
  
 HashMap<Employee, Employee> map = new HashMap<>();  
 for (Employee employee : employees) {  
 map.put(employee, employee);  
 }  
  
 System.*out*.println("The list after remove redundant employees:");  
 map.forEach((key, val) -> System.*out*.println(val));  
  
 }  
}

import java.util.Objects;  
  
public class Employee {  
 private String name;  
 private double salary;  
  
 public Employee(String name, double salary) {  
 this.name = name;  
 this.salary = salary;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public double getSalary() {  
 return salary;  
 }  
  
 @Override  
 public int hashCode() {  
 return Objects.*hash*(this.name, this.salary);  
 }  
  
 @Override  
 public boolean equals(Object obj) {  
 if (obj == null)  
 return false;  
 if (obj.getClass() != this.getClass())  
 return false;  
 Employee employee = (Employee) obj;  
 return this.name.equals(employee.getName()) && this.salary == employee.salary;  
 }  
  
 @Override  
 public String toString() {  
 return "Employee [name=" + name + ", salary=" + salary + "]";  
 }  
  
}

**The result after running main function:  
  
The list of employees:**

**[Employee [name=John Doe, salary=20000.0], Employee [name=John Doe, salary=2000.0], Employee [name=Jane Doe, salary=20000.0], Employee [name=Jane Doe, salary=20000.0]]**

**The list after remove redundant employees:**

**Employee [name=Jane Doe, salary=20000.0]**

**Employee [name=John Doe, salary=20000.0]**

**Employee [name=John Doe, salary=2000.0]**