import java.util.ArrayList;

public class ProductManagementSystem {

private ArrayList<Computer> computers = new ArrayList<>();

public void addComputer(Computer computer) {

computers.add(computer);

}

public void updateHardDiskCapacity(int oldCapacity, int newCapacity) {

for (Computer computer : computers) {

if (computer.getHardDiskCapacity() == oldCapacity) {

computer.setHardDiskCapacity(newCapacity);

}

}

}

public void deleteComputer(Computer computer) {

computers.remove(computer);

}

public ArrayList<Computer> getComputersByCountry(String country) {

ArrayList<Computer> result = new ArrayList<>();

for (Computer computer : computers) {

if (computer.getCountry().equals(country)) {

result.add(computer);

}

}

return result;

}

public ArrayList<Computer> getComputersByProcessorType(String processorType) {

ArrayList<Computer> result = new ArrayList<>();

for (Computer computer : computers) {

if (computer.getProcessorType().equals(processorType)) {

result.add(computer);

}

}

return result;

}

public ArrayList<Computer> getComputersByHardDiskCapacity(int capacity) {

ArrayList<Computer> result = new ArrayList<>();

for (Computer computer : computers) {

if (computer.getHardDiskCapacity() == capacity) {

result.add(computer);

}

}

return result;

}

public ArrayList<Computer> getComputersByInternalMemoryCapacity(int capacity) {

ArrayList<Computer> result = new ArrayList<>();

for (Computer computer : computers) {

if (computer.getInternalMemoryCapacity() == capacity) {

result.add(computer);

}

}

return result;

}

public static void main(String[] args) {

ProductManagementSystem system = new ProductManagementSystem();

// Add some sample data

system.addComputer(new Computer("M", "5", 320, 1024));

system.addComputer(new Computer("J", "7", 500, 2048));

system.addComputer(new Computer("A", "9", 1024, 4096));

// Update hard disk capacity

system.updateHardDiskCapacity(500, 1024);

// Delete a record

system.deleteComputer(system.getComputersByCountry("M").get(0));

// Display records by different criteria

System.out.println(system.getComputersByCountry("J"));

System.out.println(system.getComputersByProcessorType("7"));

System.out.println(system.getComputersByHardDiskCapacity(1024));

System.out.println(system.getComputersByInternalMemoryCapacity(2048));

}

}

class Computer {

private String country;

private String processorType;

private int hardDiskCapacity;

private int internalMemoryCapacity;

public Computer(String country, String processorType, int hardDiskCapacity, int internalMemoryCapacity) {

this.country = country;

this.processorType = processorType;

this.hardDiskCapacity = hardDiskCapacity;

this.internalMemoryCapacity = internalMemoryCapacity;

}

public String getCountry() {

return country;

}

public String getProcessorType() {

return processorType;

}

public int getHardDiskCapacity() {

return hardDiskCapacity;

}

public void setHardDiskCapacity(int hardDiskCapacity) {

this.hardDiskCapacity = hardDiskCapacity;

}

public int getInternalMemoryCapacity() {

return internalMemoryCapacity;

}

}

