import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;public class UserInterface {

public static void main(String [] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the number of vehicle details:");

int a = Integer.parseInt(sc.nextLine());

if (a<=0){

System.out.println("Invalid");

}else{

System.out.println("Enter the vehicle details:");

String [] x = new String[a];

List<Vehicle> clm=new ArrayList<Vehicle>();

for (int j=0;j<a;j++){

x[j] =sc.nextLine();

String[] p = x[j].split("/");

Vehicle cd = new Vehicle();

cd.setVehicleNo(Integer.parseInt(p[0]));

cd.setVehicleHolderName(p[1]);

cd.setVehicleHolderAddress(p[2]);

clm.add(cd);

}

VehicleUtility obj = new VehicleUtility();

obj.setVehicleList(clm);

System.out.println("Enter length of the number to search");

int uh = Integer.parseInt(sc.nextLine());

List<Vehicle> ans = obj.filterVehicleDetails(obj.convertToStream(),uh);

if (ans.isEmpty()){

System.out.println("No vehicle found");

}else{

System.out.println("Filter the vehicle numbers which has a length of "+uh+":");

for (int g=0;g<ans.size();g++){

System.out.println("VehicleNumber: "+ans.get(g).getVehicleNo()+", Name: "+ans.get(g).getVehicleHolderName());

}

}

}}}

// DO NOT EDIT OR ADD ANY CODE

public class Vehicle {

private int vehicleNo;

private String vehicleHolderName;

private String vehicleHolderAddress;

//Setters and Getterss

public int getVehicleNo() {

return vehicleNo;

}

public void setVehicleNo(int vehicleNo) {

this.vehicleNo = vehicleNo;

}

public String getVehicleHolderName() {

return vehicleHolderName;

}

public void setVehicleHolderName(String vehicleHolderName) {

this.vehicleHolderName = vehicleHolderName;

}

public String getVehicleHolderAddress() {

return vehicleHolderAddress;

}

public void setVehicleHolderAddress(String vehicleHolderAddress) {

this.vehicleHolderAddress = vehicleHolderAddress;

}

@Override

public String toString() {

return "Vehicle [vehicleNo=" + vehicleNo + ", vehicleHolderName=" + vehicleHolderName

+ ", vehicleHolderAddress=" + vehicleHolderAddress + "]";

}

}

import java.util.Comparator;

import java.util.List;

import java.util.stream.Collectors;

import java.util.stream.Stream;public class VehicleUtility {

private List<Vehicle> vehicleList; //FILL THE CODE HERE

public List<Vehicle> getVehicleList(){

return vehicleList;

}

public void setVehicleList(List<Vehicle> vehicleList){

this.vehicleList=vehicleList;

} public Stream<Vehicle> convertToStream() {

Stream<Vehicle> w =vehicleList.stream();

return w;

} public List filterVehicleDetails(Stream<Vehicle> stream1,int length) {

List<Vehicle> shot=stream1.filter(x->String.valueOf(x.getVehicleNo()).length()>=length)

.sorted(Comparator.comparingInt(Vehicle::getVehicleNo)).collect(Collectors.toList());

return shot;

}}