



import java.util.ArrayList;

import java.util.List;

public class Patient {

private int id;

private String lastName;

private String firstName;

private String middleName;

private String address;

private String phone;

private String medicalCardNumber;

private String diagnosis;

public Patient(int id, String lastName, String firstName, String middleName,

String address, String phone, String medicalCardNumber, String diagnosis) {

this.id = id;

this.lastName = lastName;

this.firstName = firstName;

this.middleName = middleName;

this.address = address;

this.phone = phone;

this.medicalCardNumber = medicalCardNumber;

this.diagnosis = diagnosis;

}

public Patient(String lastName, String firstName, String middleName) {

this(0, lastName, firstName, middleName, "", "", "", "");

}

// Методы доступа (гетеры и сетеры)

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getMiddleName() {

return middleName;

}

public void setMiddleName(String middleName) {

this.middleName = middleName;

}

public String getAddress() {

return address;

}

public void setAddress(String address) {

this.address = address;

}

public String getPhone() {

return phone;

}

public void setPhone(String phone) {

this.phone = phone;

}

public String getMedicalCardNumber() {

return medicalCardNumber;

}

public void setMedicalCardNumber(String medicalCardNumber) {

this.medicalCardNumber = medicalCardNumber;

}

public String getDiagnosis() {

return diagnosis;

}

public void setDiagnosis(String diagnosis) {

this.diagnosis = diagnosis;

}

@Override

public String toString() {

return "Patient{" +

"id=" + id +

", lastName='" + lastName + '\'' +

", firstName='" + firstName + '\'' +

", middleName='" + middleName + '\'' +

", address='" + address + '\'' +

", phone='" + phone + '\'' +

", medicalCardNumber='" + medicalCardNumber + '\'' +

", diagnosis='" + diagnosis + '\'' +

'}';

}

// Метод для создания массива объектов Patient

public static List<Patient> createPatientList() {

List<Patient> patients = new ArrayList<>();

patients.add(new Patient(1, "Иванов", "Иван", "Иванович", "Москва", "1234567890", "123456", "Грипп"));

patients.add(new Patient(2, "Петров", "Петр", "Петрович", "Санкт-Петербург", "0987654321", "654321", "ОРВИ"));

patients.add(new Patient(3, "Сидоров", "Сидор", "Сидорович", "Екатеринбург", "1122334455", "112233", "Грипп"));

patients.add(new Patient(4, "Сергеев", "Сергей", "Сергеевич", "Новосибирск", "2233445566", "334455", "Бронхит"));

return patients;

}

// Метод для вывода списка пациентов с данным диагнозом

public static void printPatientsWithDiagnosis(List<Patient> patients, String diagnosis) {

for (Patient patient : patients) {

if (patient.getDiagnosis().equalsIgnoreCase(diagnosis)) {

System.out.println(patient);

}

}

}

// Метод для вывода списка пациентов, номер медицинской карты которых находится в заданном интервале

public static void printPatientsWithCardNumberInRange(List<Patient> patients, String start, String end) {

for (Patient patient : patients) {

if (patient.getMedicalCardNumber().compareTo(start) >= 0 && patient.getMedicalCardNumber().compareTo(end) <= 0) {

System.out.println(patient);

}

}

}

public static void main(String[] args) {

List<Patient> patients = createPatientList();

System.out.println("Пациенты с диагнозом 'Грипп':");

printPatientsWithDiagnosis(patients, "Грипп");

System.out.println("\nПациенты с номерами медицинских карт в интервале от '100000' до '200000':");

printPatientsWithCardNumberInRange(patients, "100000", "200000");

}

}

