Class Guest

```
public class Guest {
      public int guestId;
      public String name;
      public String nationality;
      public int age;
      public Guest(int guestId, String name, String nationality, int age) {
            this.guestId = guestId;
            this.name = name;
            this.nationality = nationality;
            this.age = age;
      public int getGuestId() {
            return guestId;
      public String getName() {
            return name;
      public String getNationality() {
            return nationality;
      }
      public int getAge() {
            return age;
      }
      public void diplayGuestInfo() {
            System.out.println("Guest ID: " + guestId);
            System.out.println("Guest name: " + name);
            System.out.println("Guest nationality: " + nationality);
            System.out.println("Guest age: " + age);
      }
}
```

Class Hotel

```
public class Hotel {
      private String name;
      private Guest arrGuests[];
      private int nbGuests;
      public Hotel(int size, String name) {
            this.name = name;
            arrGuests = new Guest[size];
            nbGuests = 0;
      }
      public boolean addGuest(Guest g) {
            if(nbGuests == arrGuests.length)
                  return false;
            arrGuests[nbGuests++] = g;
            return true;
      }
      public int countGuests(String n) {
            int counter = 0;
            for(int i = 0; i < nbGuests; i++) {</pre>
                  if(arrGuests[i].getNationality().equalsIgnoreCase(n))
                        counter++;
            return counter;
      public Guest getOldestGuest() {
            Guest oldest = arrGuests[0];
            for(int i = 1; i < nbGuests; i++) {</pre>
                  if(arrGuests[i].getAge() > oldest.getAge())
                        oldest = arrGuests[i];
            return oldest;
      public Guest[] getGuests(String n) {
            int size = countGuests(n);
            if(size == 0)
                  return null;
            Guest temp[] = new Guest[size];
            int count = 0;
            for(int i = 0; i < nbGuests; i++) {</pre>
                  if(arrGuests[i].getNationality().equalsIgnoreCase(n))
                        temp[count++] = arrGuests[i];
            return temp;
      }
```