

Class test

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public class test {
    public static void main(String [] args) {

        //Create objects of class "Guest"
        Guest g0 = new Guest(000, "Ahmad", "Saudi", 25);
        Guest g1 = new Guest(111, "Khalid", "Saudi", 23);
        Guest g2 = new Guest(333, "Saif", "UAE", 26);
        Guest g3 = new Guest(444, "Abdullah", "Kuwait", 22);
        //Create object of class "Hotel"
        Hotel h1 = new Hotel(100, "Marriott");

        //Adding "Guest" objects to the "Hotel" object
        if(h1.addGuest(g0))
            System.out.println(g0.getName() + " has been added successfully");
        else
            System.out.println("Hotel is full");
        if(h1.addGuest(g1))
            System.out.println(g1.getName() + " has been added successfully");
        else
            System.out.println("Hotel is full");
        if(h1.addGuest(g2))
            System.out.println(g2.getName() + " has been added successfully");
        else
            System.out.println("Hotel is full");
        if(h1.addGuest(g3))
            System.out.println(g3.getName() + " has been added successfully");
        else
            System.out.println("Hotel is full");

        System.out.println("-----");
        //test "countGuests" method
        System.out.println("Number of Saudi guests: " + h1.countGuests("Saudi"));
        System.out.println("Number of UAE guests: " + h1.countGuests("UAE"));
        System.out.println("Number of Kuwaiti guests: " + h1.countGuests("Kuwait"));
        System.out.println("Number of Bahraini guests: " + h1.countGuests("Bahrain"));

        System.out.println("-----");
        //test "getOldest" method
        System.out.println("Oldest Guest:");
        Guest oldest = h1.getOldestGuest();
        oldest.diplayGuestInfo();
    }
}
```

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System.out.println("-----");
//test "getGuests" method
System.out.println("All Kuwaiti guests:");
Guest temp[] = h1.getGuests("Kuwait");
for(int i = 0; i < temp.length; i++) {
    temp[i].diplayGuestInfo();
}

System.out.println("-----");
//test "splitGuests" method
Guest saudi[] = new Guest[2];
Guest expat[] = new Guest[2];
int nbExpat = h1.splitGuests(saudi, expat);
System.out.println("All Saudi guests:");
for(int i = 0; i < saudi.length; i++)
    saudi[i].diplayGuestInfo();
System.out.println("All non-Saudi guests:");
for(int i = 0; i < expat.length; i++)
    expat[i].diplayGuestInfo();
System.out.println("Number of non-Saudi guests: " + nbExpat);
}
}

```

Sample Run

Ahmad has been added successfully
Khalid has been added successfully
Saif has been added successfully
Abdullah has been added successfully

Number of Saudi guests: 2
Number of UAE guests: 1
Number of Kuwaiti guests: 1
Number of Bahraini guests: 0

Oldest Guest:
Guest ID: 333
Guest name: Saif
Guest nationality: UAE
Guest age: 26

All Kuwaiti guests:
Guest ID: 444
Guest name: Abdullah
Guest nationality: Kuwait
Guest age: 22

All Saudi guests:
Guest ID: 0
Guest name: Ahmad
Guest nationality: Saudi
Guest age: 25
Guest ID: 111
Guest name: Khalid
Guest nationality: Saudi
Guest age: 23

All non-Saudi guests:
Guest ID: 333
Guest name: Saif
Guest nationality: UAE
Guest age: 26
Guest ID: 444
Guest name: Abdullah
Guest nationality: Kuwait
Guest age: 22
Number of non-Saudi guests: 2