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Queue.java Solution.java Stack.java Tester.java CustomerBooking.java LuxuryResort.java Resort.java
1 package progusingjava;
2
3 //DO NOT MODIFY THE CODE PROVIDED TO YOU
4
5 class CustomerBooking {
6     private static String[] availableMembershipArr = {"Premium", "Gold", "Platinum"};
7     private String custName;
8     private String custBookingID;
9     private String membershipType;
10    private int stayDuration;
11
12    public CustomerBooking(String custName, String membershipType, int stayDuration) {
13        this.custBookingID = null;
14        this.custName = custName;
15        this.membershipType = membershipType;
16        this.stayDuration = stayDuration;
17    }
18
19    public String getCustBookingID() {
20        return this.custBookingID;
21    }
22
23    public String getMembershipType() {
24        return this.membershipType;
25    }
26
27    public int getStayDuration() {
28        return this.stayDuration;
29    }
30
31    public void setCustBookingID(String custBookingID) {
32        this.custBookingID = custBookingID;
33    }
34
35    public boolean validateCustMembership() {
36        for (String membership:CustomerBooking.availableMembershipArr) {
37            if (this.membershipType.equals(membership)) {
38                return true;
39            }
40        }
41        return false;
42    }
43 }
44
```

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1 package progusingjava;
2
3 //DO NOT MODIFY THE CODE PROVIDED TO YOU
4
5 class LuxuryResort extends Resort {
6     private static String[] luxuryServicesArr = {"Spa","Pool","Inroom-Dine"};
7     private static int[] luxuryServicesCostArr = {800,500,400};
8     private String viewType;
9     private String[] reqLuxuryServicesArr;
10
11     public LuxuryResort(CustomerBooking custBooking, String roomType, String viewType, String[] reqLuxuryServicesArr) {
12         super(custBooking, roomType);
13         this.viewType = viewType;
14         this.reqLuxuryServicesArr = reqLuxuryServicesArr;
15     }
16
17     //To Trainee
18     public Integer identifyLuxuryServicesCost() {
19         //Implement your logic here
20         Integer sum=0;
21         if(reqLuxuryServicesArr!=null){
22             for(String serv:reqLuxuryServicesArr){
23                 int index=0;
24                 while(index<LuxuryResort.luxuryServicesArr.length){
25                     if(serv.equalsIgnoreCase(LuxuryResort.luxuryServicesArr[index])){
26                         sum+=luxuryServicesCostArr[index];
27                     }
28                     index++;
29                 }
30             }
31             return sum;
32         }
33         else return 0;
34
35         //Change the return statement accordingly
36     }
37
38     //To Trainee
39     public void calculateTotalStayCost() {
40         //Implement your logic here
41         Integer rcpd=0;
42         if(getCustBooking().validateCustMembership() && getCustBooking().getStayDuration()>0){
43             if(getCustBooking().equalsIgnoreCase("Regular") || super.getRoomType().equalsIgnoreCase("Executive") || super
44                 if(super.getRoomType().equalsIgnoreCase("Regular")) rcpd=1500;
45

```



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30 }
31 }
32 }
33 else {
34 }
35 //Change the return statement accordingly
36 }
37
38 //To Trainee
39 public void calculateTotalStayCost() {
40     //Implement your logic here
41     Integer rcpd=0;
42     if(getCustBooking().validateCustMembership() && getCustBooking().getStayDuration()>0){
43         if(super.getRoomType().equalsIgnoreCase("Regular") || super.getRoomType().equalsIgnoreCase("Executive") || super.getRoomType().equalsIgnoreCase("Deluxe")){
44             if(super.getRoomType().equalsIgnoreCase("Regular")) rcpd=1500;
45             else if(super.getRoomType().equalsIgnoreCase("Executive")) rcpd=3500;
46             else if(super.getRoomType().equalsIgnoreCase("Deluxe")) rcpd=2500;
47         }
48         else rcpd=-1;
49         if(rcpd!=-1){
50             Integer discountPercentage=identifyDiscountPercentage();
51             Integer luxuryCost=identifyLuxuryServicesCost();
52             Integer stayCost=rcpd+luxuryCost;
53             if(viewType.equals("lake")){
54                 stayCost+=500;
55             }
56             stayCost*=super.getCustBooking().getStayDuration();
57             super.setTotalStayCost((1-discountPercentage*0.01)*stayCost);
58             super.generateBookingID();
59         }
60     }
61     else{
62         super.getCustBooking().setCustBookingID("NA");
63         super.setTotalStayCost(-1.0);
64     }
65 }
66 }
67 else{
68     super.getCustBooking().setCustBookingID("NA");
69     super.setTotalStayCost(-1.0);
70 }
71 }
72 }
73
74

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Queue.java Solution.java Stack.java Tester.java CustomerBooking.java LuxuryResort.java Resort.java Tester.java

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33 }
34
35 public double getTotalStayCost() {
36     return this.totalStayCost;
37 }
38
39 public void setTotalStayCost(double totalStayCost) {
40     this.totalStayCost = totalStayCost;
41 }
42
43 //To Trainee
44 public void generateBookingID() {
45     //Implement your logic here
46     char id = Character.toUpperCase(roomType.charAt(0));
47     String customerBookingId= Character.toString(id);
48     customerBookingId=customerBookingId + ++counter;
49     getCustBooking().setCustBookingID(customerBookingId);
50
51 }
52
53
54 //To Trainee
55 public Integer identifyDiscountPercentage() {
56     //Implement your logic here
57     int discountPercentage=0;
58     if(custBooking.getMembershipType().equals("Gold")){
59         if(roomType.equalsIgnoreCase("Executive")){
60             discountPercentage=10;
61         }
62         else if(roomType.equalsIgnoreCase("Deluxe")){
63             discountPercentage=8;
64         }
65     }
66     else if(custBooking.getMembershipType().equals("Platinum")){
67         discountPercentage=15;
68     }
69
70     //Change the return statement accordingly
71     return discountPercentage;
72 }
73
74 public abstract void calculateTotalStayCost();
75 }
76
77

```

Workspace - Generic Java Assessment - Assessment/src/progusingjava/Tester.java - Eclipse MYSET1NCSC 076

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Queue.java Solution.java Stack.java Tester.java CustomerBooking.java LuxuryResort.java Resort.java Tester.java

```
1 package progusingjava;
2
3 public class Tester {
4     public static void main(String[] args) {
5         CustomerBooking custOb = new CustomerBooking("John", "Gold", 3);
6         String[] reqServices = {"Spa", "Pool"};
7         LuxuryResort luxuryResortOb = new LuxuryResort(custOb, "deluxe", "lake", reqServices);
8         luxuryResortOb.calculateTotalStayCost();
9         System.out.println("Booking ID: "+custOb.getCustBookingID());
10        System.out.println("Total Bill Amount: "+luxuryResortOb.getTotalStayCost());
11    }
12 }
13 }
14 }
```

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