

Customer.java

PrivilegedCustomer.java

HardwareShop.java

Tester.java

```
1 package privilegedCustomer;
2
3 public class Customer {
4     private String custName;
5     private long mobNumber;
6     private int quantity;
7     private String[] reqCustomizationArr;
8
9     public String getCustName() {
10         return custName;
11     }
12
13     public void setCustName(String custName) {
14         this.custName = custName;
15     }
16
17     public long getMobNumber() {
18         return mobNumber;
19     }
20
21     public void setMobNumber(long mobNumber) {
22         this.mobNumber = mobNumber;
23     }
24
25     public int getQuantity() {
26         return quantity;
27     }
28
29     public void setQuantity(int quantity) {
30         this.quantity = quantity;
31     }
32
33     public String[] getReqCustomizationArr() {
```

Console

Progress Coverage Debug

<terminated> Tester (10) [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (09-Apr-2021, 1:43:25 pm)
Exception in thread "main" java.lang.NullPointerException

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Customer.java

PrivilegedCustomer.java

HardwareShop.java

Lester.java

```
17 public long getMobNumber() {  
18     return mobNumber;  
19 }  
20  
21 public void setMobNumber(long mobNumber) {  
22     this.mobNumber = mobNumber;  
23 }  
24  
25 public int getQuantity() {  
26     return quantity;  
27 }  
28  
29 public void setQuantity(int quantity) {  
30     this.quantity = quantity;  
31 }  
32  
33 public String[] getReqCustomizationArr() {  
34     return reqCustomizationArr;  
35 }  
36  
37 public void setReqCustomizationArr(String[] reqCustomizationArr) {  
38     this.reqCustomizationArr = reqCustomizationArr;  
39 }  
40  
41  
42 public Customer(String custName, long mobNumber, String[] reqCustomizationArr, int quantity) {  
43     this.custName = custName;  
44     this.mobNumber = mobNumber;  
45     this.quantity = quantity;  
46     this.reqCustomizationArr = reqCustomizationArr;  
47 }  
48 }  
49
```

```
Customer.java *PrivilegedCustomer.java HardwareShop.java Tester.java
1 package privilegedCustomer;
2
3 public class PrivilegedCustomer extends Customer {
4
5     private static String[] privilegedIdArr = {"P101", "P345", "P785", "P099"};
6     private String privilegedId ;
7     private int creditPoints;
8
9     public static String[] getPrivilegedIdArr() {
10         return privilegedIdArr;
11     }
12
13     public static void setPrivilegedIdArr(String[] privilegedIdArr) {
14         PrivilegedCustomer.privilegedIdArr = privilegedIdArr;
15     }
16
17     public int getCreditPoints() {
18         return creditPoints;
19     }
20
21     public void setCreditPoints(int creditPoints) {
22         this.creditPoints = creditPoints;
23     }
24
25     public PrivilegedCustomer(String custName, long mobNumber, String[] reqCustomizationArr, int quantity, String privilegedId, int creditPoints) {
26         super(custName, mobNumber, reqCustomizationArr, quantity, privilegedId);
27         this.privilegedId = privilegedId;
28         this.creditPoints = creditPoints;
29     }
30
31     public boolean validateCustomer() {
32         if(this.getCustName().length()>=3) {
33             for(String s: privilegedIdArr) {
```

Console X Progress Coverage Debug

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```
Customer.java *PrivilegedCustomer.java HardwareShop.java Tester.java
24
25 public PrivilegedCustomer(String custName, long mobNumber, String[] reqCustomizationArr, int quantity, String privilegedId, int creditPoints) {
26     super(custName, mobNumber, reqCustomizationArr, quantity);
27     this.privilegedId = privilegedId;
28     this.creditPoints = creditPoints;
29
30 }
31 @Override
32     public boolean validateCustomer() {
33         if(this.getCustName().length()>=3) {
34             for(String s: privilegedIdArr) {
35                 if(s.equals(this.privilegedId)) {
36                     return true;
37                 }
38             }
39         } else {
40             return false;
41         }
42         return false;
43 }
44 @Override
45     public Integer identifyDiscountPercentage() {
46         Integer discountPercentage =0;
47         if(this.creditPoints>=1 && this.creditPoints<50) {
48             discountPercentage=5;
49         } else if(this.creditPoints>=50 && this.creditPoints <100) {
50             discountPercentage = 10;
51         } else if(discountPercentage>=100) {
52             discountPercentage = 15;
53         }
54         return discountPercentage;
55 }
56 }
```

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Customer.java *PrivilegedCustomer.java

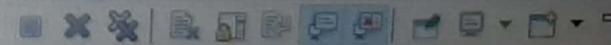
HardwareShop.java

Tester.java

Java EE <P>

```
1 package privilegedCustomer;
2
3 public class HardwareShop {
4     private static int counter;
5     private static String[] customizedItemArr = {"Hammer", "Screws", "Plier"};
6     private static int[] customizedItemCostArr = {50, 10, 100};
7     private String serviceId;
8     private PrivilegedCustomer customer;
9     private double totalCost;
10
11    public static int getCounter() {
12        return counter;
13    }
14
15    public static void setCounter(int counter) {
16        HardwareShop.counter = counter;
17    }
18
19    public static String[] getCustomizedItemArr() {
20        return customizedItemArr;
21    }
22
23    public static void setCustomizedItemArr(String[] customizedItemArr) {
24        HardwareShop.customizedItemArr = customizedItemArr;
25    }
26
27    public static int[] getCustomizedItemCostArr() {
28        return customizedItemCostArr;
29    }
30
31    public static void setCustomizedItemCostArr(int[] customizedItemCostArr) {
32        HardwareShop.customizedItemCostArr = customizedItemCostArr;
33    }
```

Console Progress Coverage Debug



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Navigation: Navigate Search Project Run Window Help

Customer.java *PrivilegedCustomer.java HardwareShop.java Tester.java

```
34
35 public String getServiceId() {
36     return serviceId;
37 }
38
39 public void setServiceId(String serviceId) {
40     this.serviceId = serviceId;
41 }
42
43 public PrivilegedCustomer getCustomer() {
44     return customer;
45 }
46
47 public void setCustomer(PrivilegedCustomer customer) {
48     this.customer = customer;
49 }
50
51 public double getTotalCost() {
52     return totalCost;
53 }
54
55 public void setTotalCost(double totalCost) {
56     this.totalCost = totalCost;
57 }
58
59
60 // //// Check this constructor
61 public HardwareShop(PrivilegedCustomer customer) {
62
63 }
64 // //// Check this constructor
65
66 public void generateServiceId() {
```

Console Progress Coverage Debug

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Search Project Run Window Help

Customer.java *PrivilegedCustomer.java HardwareShop.java Tester.java

```
59
60     // Check this constructor
61     public HardwareShop(PrivilegedCustomer customer) {
62
63     }
64     // Check this constructor
65
66     public void generateServiceId() {
67         this.counter = 101;
68         this.serviceId = "S" + "" + counter++;
69         System.out.println(this.serviceId);
70     }
71     public void calculateTotalCost() {
72         int i=0;
73         double tC;
74         int d = customer.identifyDiscountPercentage();
75         if(customer.validateCustomer()) {
76             for(String s: customer.getReqCustomizationArr()) {
77                 if(customer.getQuantity()>=1 && customer.getReqCustomizationArr().equals(customizedItemArr[i])) {
78                     tC = customizedItemCostArr[i]*(customer.getQuantity()) - ((customizedItemCostArr[i]*customer.getQuantity()*d)/100);
79                     double finalCost = tC + (tC*(0.05));
80                     totalCost = finalCost;
81                     System.out.println("Total cost of items :" + totalCost);
82                     generateServiceId();
83                 }
84             else {
85                 totalCost = -1.0;
86                 serviceId = "NA";
87             }
88         }
89     }
90 }
```

Console Progress Coverage Debug

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Customer.java

*PrivilegedCustomer.java

HardwareShop.java

Tester.java

```
1 package privilegedCustomer;
2
3 public class Tester {
4
5     public static void main(String[] args) {
6         String[] thingsToBuy = {"Plier", "Hammer"};
7         Customer cust = new Customer("Nitin", 9056789995L, thingsToBuy, 2);
8         PrivilegedCustomer pcust = new PrivilegedCustomer("Utsav", 8907897890L, thingsToBuy, 1, "P101", 50);
9         HardwareShop hs = new HardwareShop(); // Check this object
10        hs.calculateTotalCost();
11    }
12
13 }
14
```

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