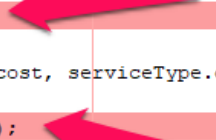All Service charges are reported as 0.00 when checking out

The first file to be checked is the RecordServiceCTL which is responsible for the service charge process.

Adding the break points:

```
    hotel.addServiceCharge(roomNumber, serviceType, cost);

    recordServiceUI.displayServiceChargeMessage(roomNumber, cost, serviceType.getDescription());
    state = State.COMPLETED;
    recordServiceUI.setState(RecordServiceUI.State.COMPLETED);
```

The break point was added here, since this step is responsible for the service charge and change the state.

The second break point that we want to be looking at is at:

Booking class

```
public void addServiceCharge(ServiceType serviceType, double cosst) {
        charges.add(new ServiceCharge(serviceType, cost));
}
```

This code is responsible for adding the charges to the booking so that the person can be charge later when he checks out.

Checking the hypothesis;

Value entered:

```
Booking Room

Enter phone number: 11111111
Enter guest name: sam
Enter guest address: king st

Name: sam, Address: king st, Phone: 11111111

S:      Single room, 1
D:      Double room, 2
T:      Twin share, 3
Enter room type selection: S
Enter number of occupants: 1
Enter arrival date
Enter day (dd): 1
Enter month (mm): 1
Enter year (): 2019
Arrival Date: 01-01-2019
Enter length of stay: 5

The cost of booking a Single room from 01-01-2019 for 5 nights is $500.00

Enter credit card details
V:      Visa
M:      MasterCard
Enter credit card type selection: M
Enter credit card number: 1
```

Enter CCV: 2

Single room 101 is booked from 01-01-2019 for 5 nights by sam.
MasterCard Credit card number 1 has been debited $500.00
Confirmation Number : 102019101
Hit <enter> to continue
Booking completed

Hotel Management System

Please select:

    B: Book a Room
    C: Check In
    R: Record Service
    D: Check Out

    Q: Quit

Selection : C

Checking in

Enter confirmation number: 102019101

Single room 101 is booked from 01-01-2019 for 1 nights by sam.
MasterCard Credit card number: 1

```
Confirm checkin? (Y/N) : y
Check in confirmed
Hit <enter> to continue
Checking in completed

Hotel Management System

Please select:

    B:    Book a Room
    C:    Check In
    R:    Record Service
    D:    Check Out

    Q:    Quit


Selection : R

Recording service

Enter Room Id: 101
B:       Bar Fridge
R:       Restaurant
S:       Room Service
Enter service typeB
Enter cost: 60
```

Breaking points:

Before the break point:

Name	Type		Value
◇ cost	double	...	60.0 ←
⊟ ◇ serviceType	ServiceType	...	"BAR_FRIDGE" ←
◈ identifier	String	...	"B"
◈ description	String	...	"Bar Fridge"
⊞ ▽ Static		...	
⊞ ▽ Inherited		...	
⊟ ◈ this	RecordServiceCTL	...	#340
◈ roomNumber	int	...	101 ←
⊞ ◈ recordServiceUI	RecordServiceUI	...	#354
⊞ ◈ state	RecordServiceCTL$State	...	"SERVICE"
⊞ ◈ hotel	Hotel	...	#353
⊟ ◈ booking	Booking	...	#356
◈ confirmationNumber	long	...	102019101 ←
◈ stayLength	int	...	1
◈ numberOfOccupants	int	...	1
◈ cost	int	...	0
⊞ ◈ room	Room	...	#364
⊞ ◈ guest	Guest	...	#363
⊞ ◈ bookedArrival	Date	...	Jan 1, 2019 12:00:00 AM
⊞ ◈ creditCard	CreditCard	...	#367
⊞ ◈ state	Booking$State	...	"PENDING"
⊞ ◈ charges	ArrayList	...	"size = 0"
<Enter new watch>		...	

After the break point:

Name	Type	Value
◇ cosst ←	double	⬚ 60.0 ←
⊟◇ serviceType	ServiceType	⬚ "BAR_FRIDGE"
◈ identifier	String	⬚ "B"
◈ description	String	⬚ "Bar Fridge"
⊞ ▽ Static		⬚
⊞ ▽ Inherited		⬚
⊟◈ this	Booking	⬚ #356
◈ confirmationNumber	long	⬚ 102019101
◈ stayLength	int	⬚ 1
◈ numberOfOccupants	int	⬚ 1
◈ cost	int	⬚ 0
⊞◈ room	Room	⬚ #364
⊞◈ guest	Guest	⬚ #363
⊞◈ bookedArrival	Date	⬚ Jan 1, 2019 12:00:00 AM
⊞◈ creditCard	CreditCard	⬚ #367
⊞◈ state	Booking$State	⬚ "PENDING"
⊞◈ charges	ArrayList	⬚ "size = 0"
<Enter new watch>		⬚

This proves the hypothesis that the total cost value is stored in the cosst variable but not added to the actual cost. Thus, the total is always zero.