# Bug 1

## All service charges are reported as $0.00 when checking out

### Hypothesis 1

***Test***: service charge is not being converted correctly to a string

***Prediction***: variable ‘total’ is correct value but Double to string conversion for chargeStr doesn’t work

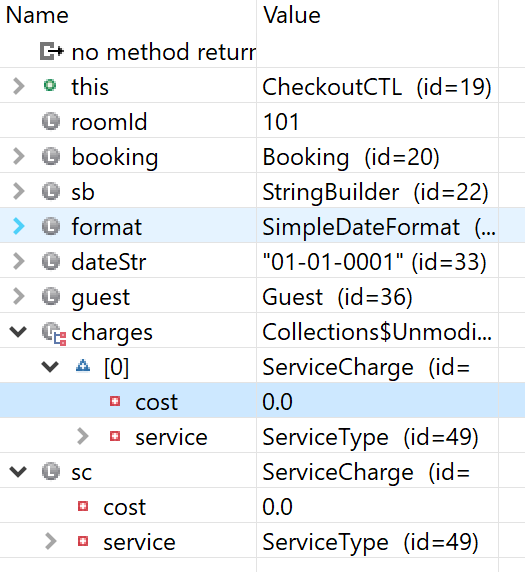
***Result***: Debug break on line 69 of CheckOutCTL.java shows that variable ‘total’ is set as ‘0.00’

### Hypothesis 2

***Test***: ServiceCharge method getCost() is returning zero a value

***Prediction***: De-concatenated code on line 69 so that ServiceCharge.getCost() returns to a dedicated variable for checking value.

***Result***: A debug break on line 70 of CheckOutCTL.java shows that element ‘cost’ is set as ‘0.0’ in ‘charges’ showing the issue lies in ServiceCharge

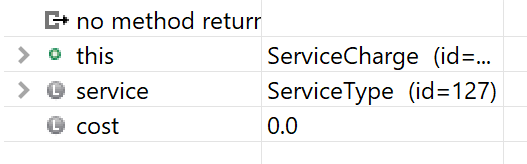


### Hypothesis 3

***Test***: variable ‘cost‘ is not being set correctly in ServiceCharge.java

***Prediction***: the class variable should be set as the same value as the methods incoming argument

***Result***: Data being sent into ServiceCharge is set to 0.0



### Hypothesis 4

***Test***: problem in Booking.addServiceCharge()

***Prediction***: The data being sent as arguments to ServiceCharge.add() is insane

***Result***: A debug break on line 142 of Booking.java shows that the variable ‘cost‘ that is being passed into ServiceCharge.add() is set to 0

## Bug 2: It is possible to charge a room for service after the guest has checked out

### Hypothesis 1

***Test***:

***Prediction***:

***Result***:

### Hypothesis 2

***Test***:

***Prediction***:

***Result***:

### Hypothesis 3

***Test***:

***Prediction***:

***Result***:

### Hypothesis 4

***Test***:

***Prediction***:

***Result***: