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

For this we set up breaking points in the lines of code to check the steps:

There is break point setup in hotel entities:

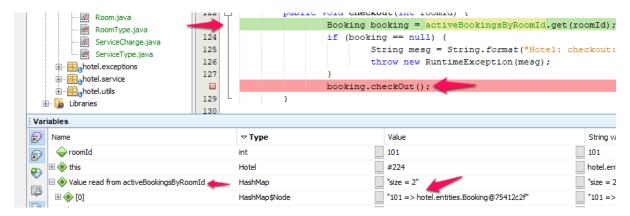
```
public Map<Long, Booking> bookingsByConfirmationNumber;
\nabla
              public Map<Integer, Booking> activeBookingsByRoomId;
16
17
18
              public Hotel() {
19
                      quests = new HashMap<>();
20
                      roomsByType = new HashMap<>();
21
                      for (RoomType rt : RoomType.values()) {
22
                              Map<Integer, Room> rooms = new HashMap<>();
23
                               roomsByType.put(rt, rooms);
24
                      1
                      bookingsByConfirmationNumber = new HashMap<>();
25
26
                      activeBookingsByRoomId = new HashMap<>();
27
28
29
30
   public void addRoom(RoomType roomType, int id) {
31
                      IOUtils.trace("Hotel: addRoom");
```

When user checks out:

It gets the active booking from the hashmap, then sets the state to Checkout COMPLETE.

But, it does not remove the room number from the list.

As we can see that when user choses to checkout, the roomID is still in the hashmap and not removed.



Since the room number is already there, it is possible charge the room an number of times.