

CMSC131 QUIZ #4 KEY SPRING 2020

One Possible Solution

```
public class Passenger {
    private String name;
    private int ticketCost;
    private StringBuffer luggage;
    private static final int LUGGAGE_COST = 20;

    public Passenger(String name, int ticketCost) {
        this.name = name;
        this.ticketCost = ticketCost;
        luggage = new StringBuffer();
    }

    public Passenger addLuggage(String desc) {
        ticketCost += LUGGAGE_COST;
        luggage.append(desc);

        return this;
    }

    public int getTicketCost() {
        return ticketCost;
    }

    public Passenger reduceCost(int by) {
        ticketCost -= by;

        /* HERE */
        return this;
    }

    public String toString() {
        return "Passenger [name=" + name + ", ticketCost=" +
            ticketCost + ", luggage=" + luggage + "];"
    }
}

public class Driver {
    public static void inspect(Passenger[] allp, int which)
    {
        int cost = allp[which].getTicketCost();
        allp[which].reduceCost(cost / 2);

        System.out.println(allp[1]);
        System.out.println(allp[2]);
    }

    public static void main(String[] args) {
        Passenger laura = new Passenger("Laura", 300);
        laura.addLuggage("guitar");
        Passenger tom = new Passenger("Tom", 125);
        tom.addLuggage("mac").addLuggage("PC");

        Passenger[] friends = new Passenger[4];
        friends[1] = laura;
        friends[2] = tom;

        inspect(friends, 1);
    }
}
```

