Answers for HW 3

Where necessary I have put the question to indicate what I’m answering. When the question has only one answer I am only putting the answer.

2.47
No because the balance has been checked to make sure that it is at least equal to price. The lowest value balance will ever be is 0.

2.49
saving = price * discount;

2.50
mean = total/count;

2.51
if ( price > budget )
{
    System.out.println(“Too expensive”);
}
else
{
    System.out.println(“Just right”);
}

2.52
if ( price > budget )
{
    System.out.println(“Too expensive. Our budget is:" + budget);
}
else
{
    System.out.println(“Just right”);
}

2.54
What happens if you move the return statements?
You get an error message stating that the line balance = 0 is unreachable
Why?
Return statements tell the computer to stop what it’s doing and return from the method.
2.55
public int empty()
{
    int toReturn = total;
    total = 0;
    return toReturn;
}

2.56
both

2.59

student1: Student

<table>
<thead>
<tr>
<th>name</th>
<th>“Benjamin Jonson”</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>“738321”</td>
</tr>
<tr>
<td>credits</td>
<td>0</td>
</tr>
</tbody>
</table>

2.61
What happens when you make the loginname?
You get a string out of bounds exception.
Why?
Because the name was too short.

2.63
public String getLoginName()
{
    if (name.length() > 4 && id.length() > 3)
        return name.substring(0,4) + id.substring(0,3);
    else if (name.length() > 4)
        return name.substring(0,4) + id;
    else
        return name + id.substring(0,3)
}