

CpSc 101 – Fall09 – Goddard  
**Optional Practice Test 1** (50 mins)

**Name your file: sales.c**

The TiesRUs store sells terrible ties. There is a base price for a single tie. If the customer buys a certain number (called the threshold) or more of the ties, then a discount is applied. For example, if the base price is \$1.00, the threshold is 3 and the discount is 20%, then the first two ties cost \$1.00 each, while the third and subsequent ties cost \$0.80 each.

Using this information, write a C program that:

- (a) requests the three pieces of data from the user;
- (b) using a loop, calculates and displays the cost of 1 up to 10 ties; and
- (c) prints out the average cost for someone buying 10 ties.

No error checking is required.

Here is sample output. (User input in slanted.)

```
Enter single price: 2.50
Enter discount percentage: 40
Enter when discount starts: 5
```

```
1 items cost $2.50
2 items cost $5.00
3 items cost $7.50
4 items cost $10.00
5 items cost $11.50
6 items cost $13.00
7 items cost $14.50
8 items cost $16.00
9 items cost $17.50
10 items cost $19.00
average price for 10 items is $1.90
```

**Optionally, Submit your file using: handin.101.303 71 sales.c**