

**Coding Arena**Sequence **Brokerage** Fun With Number Birthday Treat Bin Packing Master of Gems**Problem**

The current maximum intra-day brokerage offered is 0.03% for buying and 0.03% for selling.

**Taxes**

1. The service tax is of 10.36% only on brokerage.
2. The STT (Security Transaction Tax) is of 0.025% only selling amount.
3. The stamp duty on total turnover for a day which is 0.002%.
4. and finally you have to pay Regulatory charges on total turnover for a day which is 0.004%

**Example -**

Suppose the shares of Bank has been bought at Rs.315, quantity - 100 so the amount comes to Rs.315 x 100 = Rs.31500.  
Your buying amount  
Rs.31500 (Rs.315x100 Qty shares)

**Brokerage charge**

0.03% as brokerage on 31,500 which comes to Rs.9.45

**Service Tax**

The service tax is 10.36% only on brokerage, so 10.36 % on Rs.9.45 comes to Rs 0.98.  
Total charges you have pay on buying amount is  
The total brokerage + service tax which come to Rs.9.45 + Rs.0.98 = Rs.10.43  
Your selling amount  
Suppose you sold Bank shares at Rs.316, Qty - 100 so the amount comes to Rs.31,600 (Rs.316 x 100 Qty shares)  
Brokerage charge  
0.03% brokerage on 31600, comes to Rs.9.48

**STT(Service Transaction Tax) only on selling amount**

The STT (Service Transaction Tax) is 0.025% on selling amount (the selling amount is 31,600) which comes to Rs.7.9.

Total charges you have to pay on Selling amount is  
Total brokerage + service tax + STT on selling amount is  
= Rs.9.48 + Rs.0.98 + Rs.7.9  
= Rs.18.36

Total amount you have to pay on buying and selling is  
= Rs.10.43 (buying) + Rs.18.36 (selling)  
= Rs.28.79

Your total turn over is calculated by adding the buying amount and selling amount.  
Buying amount is 31500 and selling amount is 31600 which adds up to Rs. 61300  
Stamp duty is 0.002% and Regulatory charges are 0.004% which adds up to 0.006%  
So on total turnover amount (Rs. 61300) the stamp duty and regulatory charges comes to Rs 3.8.  
So the total amount you have to pay including brokerage and all taxes is only  
Rs 28.79 + 3.8 = 32.58

**Conclusion**

So now the conclusion is you are paying Rs.31.02 while you earned the profit of Rs.100.  
So your profit is Rs 100-32.58 = 67.42

user has to enter brokerage tax in %. and buying amount and selling amount and quantity of the share.  
now calculate the total profit or loss in this transaction.

Write a program to compute Profit or Loss statement for Transactions.

**Input Format:**

Line 1	Brokerage rate
Line 2	Buying amount
Line 3	Selling amount
Line 4	Quantity

**Time Left****03 57 27**  
hr min sec**Rules & Regulations****Stats for this Problem****Notification**

Assume STT to be fixed at 0.025%, Service Tax to be fixed at 10.36%, Stamp-duty on total turn-over is fixed at 0.002% and Regulatory charge on total turn-over is 0.004%

**Output Format:**

Print Profit or Loss as applicable with respect to transaction , and in next line print amount profit/loss faced

Line 1	<b>For Valid Input,print</b> Profit <b>Or</b> Loss  <b>For Invalid Input,print</b> Invalid Input
Line 2	<b>For Valid Input,print</b> Amount of Profit / Loss faced in transaction

**Sample Test Cases:**

SNo.	Input	Output
1	0.03 315 316 100	Profit 67.42
1	0.03 315 @ 100	Invalid Input
1	0.03 315 315.32 100	Loss 0.53

**Note:**

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

**Note:**

This question is inspired by an example of Brokerage calculations provided at [http://www.stockmarketindian.com/calculate\\_brokerage\\_charges.html](http://www.stockmarketindian.com/calculate_brokerage_charges.html)

**Submit Answer**

☐ I BHARGAVA GANTI confirm that the answer submitted is my own.

