Stock Transactions
Problem ID: p01stocktransactions

Write a Python program which allows the user to enter information about stock transactions (buy and sell) for a given stock symbol. The program then calculates broker commission, which is 3% of the total price paid when buying or the total amount received when selling, as well as the total profit or loss of the transactions, taking commission into account.

Input

The first line is a string, `symbol`, consisting of 1-6 English uppercase letters, denoting the stock symbol.
The second line is an integer `nshares`, $1 \leq$ `nshares` ≤ 1000, denoting the number of shares bought/sold of `symbol`.
The third line is a float, `bprice`, $0 <$ `bprice` ≤ 1000, denoting the buying price per share of `symbol`, given with at most two digits after the decimal point.
The fourth line is a float, `sprice`, $0 <$ `sprice` ≤ 1000, denoting the selling price per share of `symbol`, given with at most two digits after the decimal point.

Output

The output consists of eight lines formatted as follows:
Transactions for stock: `symbol`
Bought `nshares` shares @ `bprice`
Paid `total_buy_price`
Commission when buying: `buy_commission`
Sold `nshares` shares @ `sprice`
Received `total_sell_price`
Commission when selling: `sell_commission`
Profit or loss: `profit_loss`

In the above output, the following calculated values are used:
`total_buy_price`: the total buying price.
`buy_commission`: the broker commission when buying.
`total_sell_price`: the total selling price.
`sell_commission`: the broker commission when selling.
`profit_loss`: the profit (positive) or loss (negative) from the stock transactions.

You should round all float output, but not calculations, to two digits after the decimal point by using the built-in *round()* function. Example: *round(12.473, 2)* returns 12.47.

Sample Input 1

```
AAPL
300
145.67
188.12
```

Sample Output 1

```
The stock symbol:
Number of shares:
The stock buying price:
The stock selling price:

Transactions for stock: AAPL
Bought 300 shares @ 145.67
Paid 43701.0
Commission when buying: 1311.03
Sold 300 shares @ 188.12
Received 56436.0
Commission when selling: 1693.08
Profit or loss: 9730.89
```

Sample Input 2

```
MSFT
120
353.45
344.17
```

Sample Output 2

```
The stock symbol:
Number of shares:
The stock buying price:
The stock selling price:

Transactions for stock: MSFT
Bought 120 shares @ 353.45
Paid 42414.0
Commission when buying: 1272.42
Sold 120 shares @ 344.17
Received 41300.4
Commission when selling: 1239.01
Profit or loss: -3625.03
```

Sample Input 3

```
GOOGL
50
129.6
130.48
```

Sample Output 3

```
The stock symbol:
Number of shares:
The stock buying price:
The stock selling price:

Transactions for stock: GOOGL
Bought 50 shares @ 129.6
Paid 6480.0
Commission when buying: 194.4
Sold 50 shares @ 130.48
Received 6524.0
Commission when selling: 195.72
Profit or loss: -346.12
```