
1. Bank Account

Program Name: Bank.java

Input File: bank.dat

Scrooge McDuck wants to move into the 21st century and wants a program to help him keep track of his gold in his new account. He wants the program to simulate what the bank is doing, interest and all, to make sure they don't stiff him a single penny! His account pays 2% interest on the first of every month based on the balance at the end of the previous month and is initially empty. The bank also truncates, not rounds, overall balances for output, but keeps full precision internally at all times. Every time he makes a deposit or withdrawal he will register the amount, preceded by the date, into an account file known as the transaction log. Your program should read his transaction log and print out the balance his account should have.

Input

The file will contain an unknown number of lines. On each line there will be a date in YYYY-MM-DD format, a space, and then a positive or negative amount to hundredths precision indicating a deposit or withdrawal, respectively. The entries are in chronological order as shown below.

Output

You should print a dollar sign followed by the balance in his account as of the last date with activity in the transaction log truncated to the hundredths digit, as shown below.

Example Input File

```
2010-01-11 100.00
2010-01-30 100.00
2010-02-01 100324.32
2010-03-13 13243.53
2010-03-14 -1343.43
2010-06-11 -32.43
2010-11-11 1000.00
2010-12-31 100000.00
2011-01-30 1.00
2011-02-28 -13.33
```

Example Output to Screen

```
$247341.39
```