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The Virtual Learning Environment for Computer Programming

## Balances

P23318_en
Given a sequence of triplets formed by two names $x$ and $y$ and a natural $n$, that indicate that $x$ has paid $n$ euros to $y$, print the final balance of each person, first sorted by name, and then sorted by balance.

## Input

Input is a non empty sequence of triplets formed each one by two names and a natural. There are not two people with the same name.

## Output

Your program must print the final balance of each person, first sorted by name, and then sorted by balance, separated by a line with twenty dashes. In the event of a tie in the balance, it must print first the smallest name.

## Sample input

```
john mary 1000
```

peter john 20000
mary anna 1000
emma anna 5000
peter michael 4000
peter paul 0
anna michael 1000

## Sample output

```
anna 5000
emma -5000
john 19000
mary 0
michael 5000
paul 0
peter -24000
peter -24000
emma -5000
mary 0
paul 0
anna 5000
michael 5000
john 19000
```


## Problem information

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