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## Balances

P23318\_en

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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 1

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

#### Sample output 1

```
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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