Stock

Bibi is asked for calculate stock left from data purchase and order that stored in "**testdata.in**". the file format as follows:

- Number of testcase
- Number of data transaction
- TypeTransaction#name of product#quantity

Bibi is asked for display list product and stock remaining according to the file. If there is a data that not correct (sold stock is more than bought stock at the end of the entire transaction), display a message **"stock is not enough for product [name of product]"** for each stock that not enough **without display any data of remaining**

Format Input

The first line contains an integer T stating the number of test cases. For each test case contains an integer N which indicate the number of transaction. Each transaction is consists of transaction type **(buy/sell)#product_name#quantity**.

Format Output

Consists of T lines where each line has the format "*Case #X*:", where X is the test case number starting at 1 and give enter after symbol ':'. For each test case, output a product name and stock remaining with format "**product name - remaining_stock**". If there are products that have not enough stock, display message "**stock is not enough for product [name of product]**" without display any data of remaining.

Constraints

- $1 \leq T \leq 20$
- $1 \leq N \leq 100$
- $1 \leq |\text{Name of Product}| \leq 50$
- *The amount of stock will fit into the integer data type*

Sample Input (testdata.in)

```
4
4
buy#mie instant#10
sell#mie instant#7
buy#soap#5
sell#mie instant#2
3
buy#shampoo#7
sell#tooth brush#9
buy#soap#3
5
buy#tissue#10
buy#mineral water#5
sell#tissue#8
sell#mineral water#2
sell#tissue#2
6
buy#tissue#10
buy#mineral water#5
sell#tissue#11
sell#mineral water#3
buy#snack#7
sell#mineral water#3
```

Sample Output (standard output)

```
Case #1:
mie instant - 1
soap - 5
Case #2:
stock is not enough for product tooth brush
Case #3:
tissue - 0
mineral water - 3
Case #4:
stock is not enough for product tissue
stock is not enough for product mineral water
```

Explanation

Case 1:

After calculating all the total stock, it turns out that there is no product with total amount is below 0 (product sell is more than product buy). So that display **[product name] – [remaining_stock].**

Case 4:
After calculating all the total stock, it turns out that the selling amount of tissue and mineral water is more than the amount purchased. Then only display the message "**stock is not enough for product [name of product]**" for products tissue and mineral water **without display any data of remaining stock**.

Note

Even though it is not stated explicitly, you should know by now that excessive space / newline are treated as **WRONG ANSWER**.

Stock

Bibi diminta untuk menghitung sisa stok yang tersedia dari data pembelian dan penjualan yang disimpan di dalam "**testdata.in**". Format datanya adalah sebagai berikut:

- Number of testcase
- Number of data transaction
- TypeTransaction#name of product#quantity

Bibi diminta untuk menampilkan list produk beserta stok yang tersisa, berdasarkan data file tersebut. Jika di dalam file tersebut terdapat data yang tidak sesuai (stok jual lebih besar dari stok beli pada akhir seluruh transaksi). Tampilkan pesan **"stock is not enough for product [name of product]"** untuk setiap produk yang tidak cukup **tanpa menampilkan sisa stok dari produk yang cukup**.

Format Input

Baris pertama berisi sebuah bilangan bulat T yang menyatakan banyaknya kasus uji. Setiap test case berisi 1 buah bilangan bulat N yang menyatakan jumlah transaksi yang mau diinput. Setiap transaksi terdiri dari tipe transaksi **(buy/sell)#product_ name#quantity**.

Format Output

Terdiri dari T baris yang setiap barisnya memiliki format "*Case #X*:", dimana X adalah nomor kasus uji mulai dari 1 dan berikan enter setelah tanda ':'. Setiap kasus uji, tampilkan nama produk dan stok yang tersisa dengan format **nama_produk - sisa_stok**. Jika ada salah 1 produk yang memiliki stok tidak cukup, tampilkan pesan "**stock is not enough for product [name of product]**" tanpa menampilkan sisa stok dari produk yang cukup.

Constraints

- $1 \leq T \leq 20$
- $1 \leq N \leq 100$
- $1 \leq |\text{Nama Product}| \leq 50$
- *Jumlah stok dari barang dipastikan muat kedalam data type integer*

Sample Input (testdata.in)

```
4
4
buy#mie instant#10
sell#mie instant#7
buy#soap#5
sell#mie instant#2
3
buy#shampoo#7
sell#tooth brush#9
buy#soap#3
5
buy#tissue#10
buy#mineral water#5
sell#tissue#8
sell#mineral water#2
sell#tissue#2
6
buy#tissue#10
buy#mineral water#5
sell#tissue#11
sell#mineral water#3
buy#snack#7
sell#mineral water#3
```

Sample Output (standard output)

```
Case #1:
mie instant - 1
soap - 5
Case #2:
stock is not enough for product tooth brush
Case #3:
tissue - 0
mineral water - 3
Case #4:
stock is not enough for product tissue
stock is not enough for product mineral water
```

Explanation

Case 1:

Setelah menghitung semua total stok, tidak ada produk yang kehabisan stock (jumlah jual lebih banyak dari jumlah beli). Oleh karena itu tampilkan **[nama produk] – [sisa_stock]**

Case 4:

Setelah menghitung semua total stok ternyata jumlah jual pada tissue dan mineral water lebih banyak dibandingkan jumlah yang dibeli. Maka hanya tampilkan pesan "**stock is not enough for product [name of product]**" untuk tissue dan mineral water tanpa menampilkan sisa stok dari produk yang cukup.

Note

Meskipun tidak dinyatakan secara eksplisit, Anda harus tahu sekarang bahwa ruang / baris yang berlebihan itu diperlakukan sebagai **WRONG ANSWER**.