

## TCanteen

Author : Brendan

Memory : 256mb

Time : 1s

Pada kantin ini, kamu harus dapat membuat sistem pengorderan yang baik dan benar dengan memperhatikan berbagai jenis command yang ada.

### Input

Input berupa satu kata yang tidak terpisah oleh spasi, inputan ada beberapa jenis seperti dibawah ini:

1. **ADD** : akan diikuti oleh **A** (sebagai kode makanan), **Nama Makanan** (input sampai enter), **X** (sebagai harga makanan), **Y** (sebagai stock makanan). Keluarkan tulisan "**Menu is already exists**" tanpa tanda petik jika tipe makanan yang akan dimasukan sudah terdapat. jika tidak maka keluarkan "**Menu added**" tanpa tanda petik jika menu makanan berhasil ditambah.
2. **REMOVE** : akan diikuti oleh **A** (sebagai kode makanan), hapus kode makanan tersebut dari menu. Keluarkan tulisan "**Menu does not exists**" tanpa tanda petik jika tipe makanan yang akan dihapus tidak terdapat di menu. jika tidak maka keluarkan "**Menu removed**" tanpa tanda petik jika menu makanan berhasil dihapus.
3. **INFO** : akan diikuti oleh **A** (sebagai kode makanan), Keluarkan tulisan "**Menu does not exists**" tanpa tanda petik jika tipe makanan yang akan dihapus tidak terdapat di menu. Jika tidak maka keluarkan:  
    **#(Kode Makanan) (Nama Makanan)**  
    **Price : Rp(Harga Makanan)**  
    **Stock : (Stock Makanan)x"**
4. **ORDER** : akan diikuti oleh **A** (sebagai kode makanan), **X** (sebagai jumlah makanan yang dibeli), Keluarkan tulisan "**Menu does not exists**" tanpa tanda petik jika tipe makanan yang akan diorder tidak terdapat di menu. Keluarkan tulisan "**So you want to order or what**" tanpa tanda petik jika pembeli ingin mengorder makanan sebanyak **0** . Keluarkan tulisan "**Apologize, the stock is not enough**" tanpa tanda petik jika stok makanan tidak mencukupi . Jika berhasil maka outputkan "**Ordered (Jumlah Orderan)x (Nama Makanan) for Rp(Jumlah Orderan \* Harga Makanan)**" tanpa tanda petik jika berhasil melakukan orderan.
5. **CLOSE** : Hentikan loop dan outputkan "**Earnings: Rp(Total Penghasilan)**" tanpa tanda petik dan "**Informatics canteen is closing... thanks for the visit!**" di baris baru.

### Output

keluarkan sesuai perintah hingga terdapat input **CLOSE**

### Constraint

$1 < A$ , Total Penghasilan, Harga, Stock  $< 2 \times 10^9$

### Contoh Input

```
ADD 1
Ayam Goreng
25000 20
ADD 2
Nasi Geprek
20000 10
ADD 3
Siomay Basah
14000 15
INFO 2
INFO 4
ADD 3
Siomay Goreng
16000 10
ORDER 1 6
ORDER 2 15
REMOVE 2
REMOVE 2
INFO 2
ORDER 5 7
CLOSE
```

### Contoh Output

```
Menu added
Menu added
Menu added
#2 Nasi Geprek
Price : Rp20000
Stock : 10x
Menu does not exist
Menu is already exists
Ordered 6x Ayam Goreng for Rp150000
Apologize, the stock is not enough
Menu removed
Menu does not exist
Menu does not exist
Menu does not exist
Earnings: Rp150000
Informatics canteen is closing... thanks for the visit!
```

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### Input

The input consists of a single word without spaces, followed by several types of input as described below:

1. **ADD** : Followed by **A** (food code), **Food Name** (input continues until Enter), **X** (price of the food), **Y** (stock of the food). If the food being added already exists, display **"Menu is already exists"** without quotes. Otherwise, display **"Menu added"** without quotes when the menu item is successfully added.
2. **REMOVE** : Followed by **A** (food code), Remove the menu item with the given food code. If the food code does not exist in the menu, display **"Menu does not exists"** without quotes. Otherwise, display **"Menu removed"** without quotes when the menu item is successfully removed.
3. **INFO** : Followed by **A** (food code), Display information about the menu item. If the food code does not exist in the menu, display **"Menu does not exists"** without quotes. Otherwise, display  
 **#(Food Code) (Food Name)**  
 **Price : Rp(Food Price)**  
 **Stock : (Stock)x**
4. **ORDER** : Followed by **A** (food code), **X** (quantity of the food to be ordered), If the food code does not exist in the menu, display **"Menu does not exists"** without quotes. If the quantity ordered is 0, display **"So you want to order or what"** without quotes. If the stock of the food is insufficient, display **"Apologize, the stock is not enough"** without quotes. Otherwise, display **"Ordered (Quantity)x (Food Name) for Rp(Total Price)"** without quotes when the order is successful.
5. **CLOSE** : Stops the loop and outputs **"Earnings: Rp(Total Earnings)"** without quotes. **"Informatics canteen is closing... thanks for the visit!"** on a new line.

### Output

Execute the commands until the input **"CLOSE"** is encountered.

### Constraint

$1 < A$ , Total Earnings, Price, Stock  $< 2 \times 10^9$

### Input 1 Example

```
ADD 1
Ayam Goreng
25000 20
ADD 2
Nasi Geprek
20000 10
ADD 3
Siomay Basah
14000 15
INFO 2
INFO 4
ADD 3
Siomay Goreng
16000 10
ORDER 1 6
ORDER 2 15
REMOVE 2
REMOVE 2
INFO 2
ORDER 5 7
CLOSE
```

### Output 1 Example

```
Menu added
Menu added
Menu added
#2 Nasi Geprek
Price : Rp20000
Stock : 10x
Menu does not exist
Menu is already exists
Ordered 6x Ayam Goreng for Rp150000
Apologize, the stock is not enough
Menu removed
Menu does not exist
Menu does not exist
Menu does not exist
Earnings: Rp150000
Informatics canteen is closing... thanks for the visit!
```