# Hello, France

Create a program that calculates the profit after buying some items and selling them on a higher price. In order to fulfil that, you are going to need certain data - you will receive a **collection of items** and a **budget** in the following format:

{type->price|type->price|type->price……|type->price}

{budget}

**The prices** for each of the types **cannot** **exceed** a certain **price**, which is given bellow:

|  |  |
| --- | --- |
| **Type** | **Maximum Price** |
| Clothes | 50.00 |
| Shoes | 35.00 |
| Accessories | 20.50 |

If a **price** for a certain **item** is **higher than** the **maximum** price, **don’t buy it**. Every time you **buy an item**, you have to **reduce the budget** with the value of **its** **price**. If you don’t have enough money for it, you **can’t buy it**. Buy **as much** items **as you can**.

You have to **increase** the price of **each of the items you have successfully bought with 40%.** Print the list with **the new prices** and **the profit** you will gain **from selling the items**. They need exactly **150$** for tickets for the train, so if their budget after selling the products is enough – print – "Hello, France!" and if not – "Time to go."

## Input / Constraints

* **On the 1st line** you are going to receive the **items with their prices** in the format described above **– real numbers in the range [0.00……1000.00]**
* **On the 2nd line**, you are going to be given the **budget** – **a real number** in the range **[0.0….1000.0]**

## Output

* Print the list with the bought item’s new prices, rounded 2 digits after the decimal separator in the following format:

"{price1} {price2} {price3} {price5}………{priceN}"

* Print the profit, **rounded 2 digits** after the decimal separator in the following format:

**"Profit: {profit**}"

* If the money for tickets are enough, print: "Hello, France!" and if not – "Time to go."

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| Clothes->43.30|Shoes->25.25|Clothes->36.52|Clothes->20.90|Accessories->15.60  120 | 60.62 35.35 51.13  Profit: 42.03  Hello, France! | We start subtracting the valid prices from the budget:  120 – 43.40 = **76.7.**  76.7 – 25.25 = **51.45**  51.45 – 36.52 = **14.93**  14.93 is **less** than **20.90** and **15.60**, so we can’t buy either of the last two. We must increase **each price** with 40% and the new prices are: **60.62 35.35 51.13.** The profit is **42.03** and their new budget will be – what is left of the budget - **14.93 + {sum of all newPrices}.** It is enough, so we print: **Hello, France!** |
| Shoes->41.20|Clothes->20.30|Accessories->40|Shoes->15.60|Shoes->33.30|Clothes->48.60  90 | 28.42 21.84 46.62  Profit: 27.68  Time to go. |  |