# Problem 1 – Nacepin

“**Nacepin**” is sold in three different stores – US, UK and China. In every store the product price is in local currency for different packages.

Your task is to write a program, which finds the lowest price in leva per kilogram. You’ll be given **the price for the product in every store** in its local currency and **the kilograms of for every package**. The currency rates are as follows:

* 1 BGN = 0.58 USD
* 1 BGN = 0.41 GBP
* 0.27 BGN = 1 CNY

Your output should print **which store has the lowest leva per kilogram** and **the difference between the lowest and highest prices per kilogram**.

## Input

The input data should be read from the console. You will always receive exactly six lines of input.

* On the first line –the **price** from the **US** online store.
* On the second line – box **weight** in the **US** online store in kilograms**.**
* On the third line – the **price** from the **UK** online store.
* On the fourth line – box **weight** in the **UK** online store in kilograms.
* On the fifth line – the **price** from the **Chinese** online store.
* On the sixth line – box **weight** in the **Chinese** online store in kilograms.

The input data will always be valid and in the format described. There is no need to check it explicitly.

## Output

The output data should be printed on the console.

At the **first line** print the **lowest price per kilogram** in the following format:

“{**country**} store. {**price**} lv/kg”

It is guaranteed that **only one lowest price** will exist.

At the **second line** print the **difference** between the **highest** and the **lowest prices** **per kilogram** in the following format:

“Difference {**difference**} lv/kg”

Moneyshould be formatted with **two digits after the decimal point**.

## Constraints

* The **prices** of Nacepin **in different stores** will be floating point numbers in the range [0 – 7.9 x 1028].
* The **box weight** will be integers in the range [0 - 232].

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 10  1  9  2  8  3 | Chinese store. 0.72 lv/kg  Difference 16.52 lv/kg | US store 🡪 $10 per 1 kg. $10 / 0.58 = 17.24 lv. for 1 kg.  17.24 / 1kg = **17.24** lv/kg  UK store 🡪 £9 per 2 kg. £9 / 0.41 = 21.95 lv. for 2 kg.  21.95 / 2kg = **10.98** lv/kg  Chinese store – ¥8 for 3 kg. ¥8 \* 0.27 = 2.16 lv. for 3 kg.  2.16 / 3kg = **0.72** lv/kg  Lowest = 0.72 lv/kg (from the Chinese store)  Highest = 17.24 lv/kg (from the US store)  Saved = 17.24 - 0.72 = 16.52 lv/kg |
| **Input** | **Output** | **Comments** |
| 10  1  10  1  10  1 | Chinese store. 2.70 lv/kg  Difference 21.69 lv/kg | US store 🡪 $10 per 1 kg. $10 / 0.58 = 17.24 lv. for 1 kg.  17.24 / 1kg = **17.24** lv/kg  UK store 🡪 £10 per 1 kg. £10 / 0.41 = 24.39 lv. for 1 kg.  24.39 / 1kg = **24.39** lv/kg  Chinese store 🡪 ¥10 for 1 kg. ¥10 \* 0.27 = 2.70 lv. for 1 kg.  2.70 / 1kg = **2.70** lv/kg  Lowest = 2.70 lv/kg (from the Chinese store)  Highest = 24.39 lv/kg (from the UK store)  Saved = 24.39 - 2.70 = 21.69 lv/kg |