**PC Store**

Ivan wanted to buy some parts for his computer and went to a store. Since the parts were not in stock, they had to be ordered. He wanted to buy a processor, a video card, and RAM memory. For the processor and the video card, the store gives him a discount percentage. Everything has to be paid in dollars, but the prices should be converted to leva, assuming that **1 dollar = 1.57 leva**.

Write a program that calculates how much money in leva he will need in total to buy the parts.

**Input**

Five lines are read from the console:

* On the first line: the price in dollars of the processor – a real number in the range [200.00 … 3000.00]
* On the second line: the price in dollars of the video card – a real number in the range [100.00 … 1500.00]
* On the third line: the price in dollars of one RAM memory module – a real number in the range [80.00 ... 500.00]
* On the fourth line: the number of RAM modules – an integer in the range [1 ... 4]
* On the fifth line: the discount percentage – a real number in the range [0.01 … 0.1]

**Output**

Print on the console, on a single line:

* How much money in leva he will need in total to buy the parts, formatted to the second decimal place:

Money needed - {total leva} leva.

**Example Input and Output**

**Input**

500

200

80

2

0.05

**Output**

Money needed - 1295.25 leva.

**Explanation**  
Processor: 500 \* 1.57 = 785 leva → after 5% discount = 745.75 leva  
Video card: 200 \* 1.57 = 314 leva → after 5% discount = 298.30 leva  
RAM: 80 \* 1.57 = 125.60 leva × 2 = 251.20 leva  
Total = 745.75 + 298.30 + 251.20 = 1295.25 leva

**Bracelet Stand**

There are 5 days left until Teresa’s brother’s birthday. She wants to buy him a present and decides to set up a small stand selling woven bead bracelets to raise enough money.

Write a program that calculates the amount Teresa has managed to save and tells her whether she can buy the present or not. You must account for her expenses and the price of the gift.

**Input (from the console, 4 lines):**

1. Teresa’s daily allowance – real number [1.00 … 100.00]
2. Money she earns per day from sales – real number [1.00 … 1000.00]
3. Teresa’s expenses for the whole period – real number [1.00 … 1000.00]
4. The price of the gift – real number [1.00 … 10000.00]

**Output:**

* If enough money is saved for the gift:  
  Profit: {all saved money} BGN, the gift has been purchased.
* If less than needed is saved:  
  Insufficient money: {the amount lacking} BGN.

Numbers must be formatted to **two** decimal places.

**Sum and Product (English translation)**

Write a program that checks the **sum** and the **product** of all numbers that are combinations of the four digits a, b, c, and d.

The check also involves another number n, which is read from the console.

The digits a, b, c, and d change as follows:

* a goes from **1 to 9**
* b goes from **9 down to a**
* c goes from **0 to 9**
* d goes from **9 down to c**

Rules:

* If (a + b + c + d) is equal to (a \* b \* c \* d) **and** n ends with 5 → print the number abcd.
* If (a \* b \* c \* d) / (a + b + c + d) is equal to **3 (integer division)** **and** n is divisible by 3 → print the number dcba.

⚠️ The program must print only the **first valid combination**.  
If no such number is found → print **"Nothing found"**.

**Input**

* n – integer in the range [100…1000]

**Output**

* If a valid combination is found → print {number} (abcd or dcba)
* Otherwise → print "Nothing found"

**Santa’s Holiday**

Every year Santa Claus chooses a different holiday destination. This year he decides to spend his holidays in Bulgaria. His faithful friends – the elves – suggest he stays at one of the most prestigious hotels, namely "Four Seasons".

During his stay, he must choose between the following types of rooms, with these prices per night:

* "room for one person" – 18.00 BGN per night
* "apartment" – 25.00 BGN per night
* "president apartment" – 35.00 BGN per night

Santa stays in the hotel for a number of **days** (e.g. 11 days = 10 nights). Depending on the room type and the number of days, he may receive a discount:

| **Room type** | **Less than 10 days** | **Between 10 and 15 days** | **More than 15 days** |
| --- | --- | --- | --- |
| room for one person | no discount | no discount | no discount |
| apartment | 30% discount | 35% discount | 50% discount |
| president apartment | 10% discount | 15% discount | 20% discount |

After the stay, Santa gives a review of the services:

* If "positive" → increase the final price by 25%
* If "negative" → decrease the final price by 10%

**Input**

From the console, three lines:

1. Days of stay – integer [0...365]
2. Room type – "room for one person", "apartment", or "president apartment"
3. Review – "positive" or "negative"

**Output**

Print one line:

* The **final price** of the stay, formatted to **two decimal places**.

**Example Input/Output**

**Input**

14

apartment

positive

**Output**

264.06