Lab: Data Types, Variables and Simple Calculations

Submit your solutions here: https://judge.softuni.org/Contests/4627/Data-Types-Variables-and-Simple-Calculations-**Exercise**

1. Reversed Numbers

Write a program that:

- Reads three **floating-point numbers** from the console
- Print them in reversed order, each number on a **new line**

Examples

Input	Output
2	3
1	1
3	2
-2	3
1	1
3	-2
0	2
0	0
2	0

2. Centuries to Minutes

Write a program that:

- Reads an integer number, that represents centuries for conversion
- Convert centuries to years (1 century = 100 years)
- Convert years to days (1 year = 365.2422 days)
- Convert days to hours (1 day = 24 hours)
- Convert hours to minutes (1 hour = 60 minutes)
- Print converted data in the following format:

"{centuries} centuries = {years} years = {days} days = {hours} hours = {minutes} minutes"

Example

Input	Output	
1	1 centuries = 100 years = 36524 days = 876576 hours = 52594560 minutes	
5	5 centuries = 500 years = 182621 days = 4382904 hours = 262974240 minutes	

3. Redecorating

Rumen wants to repaint the living room and has hired craftsmen for this purpose. Write a program that calculates the cost of the repair, taking the following prices for the calculation:

Protective nylon - 1.50 BGN per square meter













- Paint 14.50 BGN per liter
- Paint thinner 5.00 BGN per liter

Just in case, to the necessary materials, Rumen wants to add another 10% of the amount of paint and 2 square meters of nylon, also 0.40 leva for bags. The amount paid to the craftsmen for 1 hour of work is equal to 30% of the sum of all material costs.

Input

The input is read from the console and contains exactly 4 lines:

- 1. Required amount of nylon (in sq.m.) an integer number in the range [1... 100]
- 2. **Required amount of paint (in liters)** an integer number in the range [1... 100]
- 3. Quantity of thinner (in liters) integer number in the range [1... 30]
- 4. Hours needed for the craftsmen to do the work an integer number in the range [1... 9]

Output

Print out only one line on the console:

• "{the sum of all costs}"

Example

Input	Exit	Comments
10 11 4 8	727.09	Nylon amount: (10 + 2) * 1.50 = 18 BGN Amount for paint: (11 + 10%) * 14.50 = 175.45 BGN Amount for thinner: 4 * 5.00 = 20.00 BGN Amount for bags: 0.40 BGN Total amount for materials: 18 + 175.45 + 20.00 + 0.40 = 213.85 BGN Amount for craftsmen: (213.85 * 30%) * 8 = 513.24 BGN Total amount: 213.85 + 513.24 = 727.09 BGN
5 10 10 1	286.52	Amount for nylon: (5 + 2) * 1.50 = 10.50 BGN Amount for paint: (10 + 10%) * 14.50 = 159.50 BGN Amount for thinner: 10 * 5.00 = 50.00 BGN Amount for bags: 0.40 BGN Total amount for materials: 10.50 + 159.50 + 50.00 + 0.40 = 220.40 BGN Amount for masters: (220.40 * 30%) * 1 = 66.12 BGN Total: 220.40 + 66.12 = 286.52 BGN

4. Food Delivery

The restaurant opens its doors and offers several menus at preferential prices:

- Chicken menu 10.35 lv.
- Menu with fish -12.40 lv.
- Vegetarian menu 8.15 lv.

Write a program that calculates how much it will cost a group of people to order takeaways.

The group will also order a dessert, the **price** of which is equal to **20% of the total bill** (excluding delivery).

The delivery price is 2.50 BGN and is finally charged.

Input

From the console read 3 lines:

- Number of chicken menus integer in the range [0 ... 99]
- Number of menus with fish integer in the range [0 ... 99]















Number of vegetarian menus – an integer in the range [0 ... 99]

Output

Print out only one line on the console: "{order price}"

Example

Input	Output	Comments
2 4 3	116.2	Price for chicken menus: 2 pieces * 10.35 = 20.70 Price for the menus with fish: 4 pieces * 12.40 = 49.60 Price for vegetarian menus: 3 pieces * 8.15 = 24.45 Total cost of menus: 20.70 + 49.60 + 24.45 = 94.75 Price of dessert: 20% from 94.75 = 18.95 Delivery price: 2.50 (conditional) Total order price: 94.75 + 18.95 + 2.50 = 116.20
9 2 6	202.72	Price for chicken menus: 9 pieces * 10.35 = 93.15 Price for fish menus: 2 pieces * 12.40 = 24.80 Price for vegetarian menus: 6 pieces * 8.15 = 48.90 Total cost of menus: 93.15 + 24.80 + 48.90 = 166.85 Price of dessert: 20% from 166.85 = 33.37 Delivery price: 2.50 (conditional) Total order price: 166.85 + 33.37 + 2.50 = 202.72

5. Basketball equipment

Jesse decides he wants to play basketball, but he needs equipment to train. Write a program that calculates the expenses of Jesse if he starts training, knowing how much is the fee for basketball training for a period of 1 year.

- Basketball sneakers their price is 40% less than the fee for one year
- Basketball uniform its price is 20% cheaper than that of sneakers
- Basketball ball its price is 1 / 4 of the price of the basketball uniform
- Basketball accessories their price is 1 / 5 of the price of the basketball ball

Input

From the console read 1 row:

The annual basketball training fee – an integer in the range [0... 9999]

Output

Print on the console how much Jesse will spend if he starts playing basketball.

Example

1	0	Community
Input	Output	Comments











365	811.76	Price of training per year: 365 Price of basketball sneakers: 365 – 40% = 219 Price per basketball uniform: 219 – 20% = 175.20 Price of basketball ball: 1 / 4 from 175.20 = 43.80 Price of basketball accessories: 1 / 5 from 43.80 = 8.76 Total price for the equipment: 365 + 219 + 175.20 + 43.80 + 8.76 = 811.76
550	1223.2	Price of training per year: 550 Price of basketball sneakers: 550 – 40% = 330 Price per basketball uniform: 330 – 20% = 264 Basketball ball price: 1/4 of 264 = 66 Price of basketball accessories: 1 / 5 from 66 = 13.20 Total price for the equipment: 550 + 330 + 264 + 66 + 13.20 = 1223.2

6. Aquarium

For his birthday, Lyubomir received an aquarium in the shape of a parallelepiped. Initially, we read from the console in separate rows its dimensions - length, width and height in centimeters. It is necessary to calculate how many liters of water the aquarium will collect, if it is known that a certain percentage of its capacity is occupied by sand, plants, heater and pump.

One liter of water is equal to one cubic decimeter ($1 I = 1 dm^3$).

Write a program that calculates the liters of water that are needed to fill the aquarium.

Input

From the console read 4 lines:

- 1. Length in cm an integer number in the range [10 ... 500].
- 2. Width in cm an integer number in the range [10 ... 300].
- 3. Height in cm an integer number in the range [10... 200].
- 4. Percentage floating point number in the range [0.000 ... 100.000].

Output

Print one number on the console:

the liters of water that the aquarium will collect, formatted to the second decimal place.

Example

Input	Output	Comments
85 75 47 17	248.69	Volume of the aquarium: 85 * 75 * 47 = 299625 cm ³ Volume in liters: 299625 * 0.001 or 299625 / 1000 => 299.625 liters Occupied space: 17% = 0.17 Required liters: 299.625 * (1 - 0.17) = 248.68875 liters
105 77 89 18.5	586.45	Volume of the aquarium: 105 * 77 * 89 = 719565 cm ³ Volume in liters: 719565 * 0.001 or 719565 / 1000 => 719.565 liters











Occupied space: **18.5%** = **0.185**

Required liters: 719.565 * (1 - 0.185) = 586.445475 liters















