# Problem 1 - Guinea Pig

Problem for exam preparation for the [Programming Fundamentals Course @SoftUni](https://softuni.bg/courses/programming-fundamentals-csharp-java-js-python).

Submit your solutions in the SoftUni judge system at <https://judge.softuni.org/Contests/Practice/Index/2031#0>.

*Merry has a guinea pig named Puppy, that she loves very much. Every month she goes to the nearest pet store and buys him everything he needs – food, hay, and cover.*

On the **first line**, you will receive the **quantity of food**, which Merry buys for a **month (30 days)**. On the **second line**, you will receive **quantity hay**, and on the **third line** – **quantity cover**, also for a month. On the **fourth line**, you will receive the **guinea pig's weight**. All values are in **kilograms**.

**Calculate** whether the quantity of **food, hay, and cover**, will be enough for a **month**.The amount of **food** given to the guinea pig **each day is 300 gr**. Every **second** day Merry gives hay, which is **5%** of the rest of the food. On every **third** day, Merry put cover, which is **1/3** of the guinea pig's weight.

**Puppy eats food every single day!**

If food, hay, or cover runs out, stop the program.

## Input:

* **On the first line – quantity food in kilograms** - afloating-point number in the range **[0.0 – 10000.0]**
* **On the second line – quantity hay in kilograms** - afloating-point number in the range **[0.0 – 10000.0]**
* **On the third line – quantity cover in kilograms** - afloating-point number in the range **[0.0 – 10000.0]**
* **On the fourth line – guinea's weight in kilograms** - afloating-point number in the range **[0.0 – 10000.0]**

## Output:

* If the food, the hay, and the cover are enough, print:
  + **"Everything is fine! Puppy is happy! Food: {excessFood}, Hay: {excess hay}, Cover: {excessCover}."**
* If one of the things is not enough, print:
  + **"Merry must go to the pet store!"**

**The output must be formatted to the second decimal place!**

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 10  5  5.2  1 | Everything is fine! Puppy is happy! Food: 1.00, Hay: 1.10, Cover: 1.87. |
| You receive food – **10000**, hay – **5000**, cover – **5200**, weight – **1000** (in grams). On the first day, Merry gives Puppy 300 gr food – 9700. On second day food – 9400 and need hay –  **9400 \* 5% = 470,** remain hay – **5000 – 470 = 4530.** On third day cover – **5200 – (1000 / 3) = 4866.67** and food - 9100. On the last day, Merry has – food – 1.00, hay – 1.10, cover – 1.87. | |
| 1  1.5  3  1.5 | Merry must go to the pet store! |
| 9  5  5.2  1 | Merry must go to the pet store! |

**JS Examples**

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["10",  "5",  "5.2",  "1"]) | Everything is fine! Puppy is happy! Food: 1.00, Hay: 1.10, Cover: 1.87 |
| (["1",  "1.5",  "3",  "1.5"  ]) | Merry must go to the pet store! |
| (["9",  "5",  "5.2",  "1"]) | Merry must go to the pet store! |