# Problem 3 - Wild Zoo



*Peter owns a zoo for exotic animals, but he is having difficulties keeping track of the animals' food and feeding schedule. He needs your help to facilitate the process.*

Create a program that organizes the **daily feeding of the animals at the zoo**. You need to keep information about **animals**, their **daily food limit,** and the **areas** **they** **live** **in**. You will be receiving **lines** with commands until you receive the **"EndDay"** message. There are **two** **possible** commands:

* **"Add: {animal\_name}-{needed\_food\_quantity}-{area}":**
  + Add the animal and the quantity of needed food to your records. It is guaranteed that the **names** of the animals are **unique**, and there will **never** be animals with the **same** name.
  + **If** the animal already **exists**, just **increase** the value of its **needed food** with the **given** **one**.
  + **You should keep track of the animal living in each area.**
* **"Feed: {animalName}-{food}":**
  + If the animal **exists**, **reduce** its **quantity of needed food** with the given **food** **for** **feeding**.
  + If the animal **does not exist**, **ignore** the command.
  + If its **limit** reaches **0** or **less**, the **animal** is considered **successfully fed**, and you need to **remove** it from your **records** and **print** the following **message**:
    - **"{animalName} was successfully fed"**

You need to know **the number of** **hungry** **animals** there are left in **each area**. If an animal has a daily food **limit above 0**, it is considered **hungry**.

In the end, you should **print each animal** with its **quantity of needed food** in the following format:

**"Animals:"**

**" {animal\_name} -> {needed\_food\_quantity}g"**

**…**

**" {animal\_name} -> {needed\_food\_quantity}g"**

Afterward, **print** only the **areas** with **hungry animals** in the following **format**:

**"Areas with hungry animals:"**

**" {area\_name}: {number\_of\_hungry\_animals}"**

**…**

**" {area\_name}: {number\_of\_hungry\_animals}"**

## Input / Constraints

* You will be receiving linesuntil you receive the **"EndDay"** command.
* The **food** comes in **grams** and is an **integer** number in the range **[1...100000]**.
* The input will **always** be **valid**.
* There will never be a case in which an animal is in two or more areas at the same time.

## Output

* Print the appropriate message after the **"Feed"** command **if** an **animal** is **fed**.
* Print the animals with their **quantity of** **needed food** in the **format** described above.
* Print the **areas** with the **number of hungry** **animals** in them in the **format** described above.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Add: Adam-4500-ByTheCreek  Add: Maya-7600-WaterfallArea  Add: Maya-1230-WaterfallArea  Feed: Jamie-2000  EndDay | Animals:  Adam -> 4500g  Maya -> 8830g  Areas with hungry animals:  ByTheCreek: 1  WaterfallArea: 1 |
| Add: Jamie-600-WaterfallArea  Add: Maya-6570-WaterfallArea  Add: Adam-4500-ByTheCreek  Add: Bobbie-6570-WaterfallArea  Feed: Jamie-2000  Feed: Adam-2000  Feed: Adam-2500  EndDay | Jamie was successfully fed  Adam was successfully fed  Animals:  Maya -> 6570g  Bobbie -> 6570g  Areas with hungry animals:  WaterfallArea: 2 |
| Add: Bonie-3490-RiverArea  Add: Sam-5430-DeepWoodsArea  Add: Bonie-200-RiverArea  Add: Maya-4560-ByTheCreek  Feed: Maya-2390  Feed: Bonie-3500  Feed: Johny-3400  Feed: Sam-5500  EndDay | Sam was successfully fed  Animals:  Bonie -> 190g  Maya -> 2170g  Areas with hungry animals:  RiverArea: 1  ByTheCreek: 1 |

## JS Examples

The input will be provided as an array of strings.

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["Add: Adam-4500-ByTheCreek",  "Add: Maya-7600-WaterfallArea",  "Add: Maya-1230-WaterfallArea",  "Feed: Jamie-2000",  "EndDay"]) | Animals:  Adam -> 4500g  Maya -> 8830g  Areas with hungry animals:  ByTheCreek: 1  WaterfallArea: 1 |
| (["Add: Jamie-600-WaterfallArea",  "Add: Maya-6570-WaterfallArea",  "Add: Adam-4500-ByTheCreek",  "Add: Bobbie-6570-WaterfallArea",  "Feed: Jamie-2000",  "Feed: Adam-2000",  "Feed: Adam-2500",  "EndDay"]) | Jamie was successfully fed  Adam was successfully fed  Animals:  Maya -> 6570g  Bobbie -> 6570g  Areas with hungry animals:  WaterfallArea: 2 |
| (["Add: Bonie-3490-RiverArea",  "Add: Sam-5430-DeepWoodsArea",  "Add: Bonie-200-RiverArea",  "Add: Maya-4560-ByTheCreek",  "Feed: Maya-2390",  "Feed: Bonie-3500",  "Feed: Johny-3400",  "Feed: Sam-5500",  "EndDay"]) | Sam was successfully fed  Animals:  Bonie -> 190g  Maya -> 2170g  Areas with hungry animals:  RiverArea: 1  ByTheCreek: 1 |