* **Problem 2 - Ad Astra**

Problem for exam preparation for the Programming Fundamentals Course @SoftUni.

Submit your solutions in the SoftUni judge system at <https://judge.softuni.org/Contests/Practice/Index/2525#1>.

*You are an astronaut who just embarked on a mission across the solar system. Since you will be in space for a long time, you have packed a lot of food with you. Create a program, which helps you identify how much food you have left and gives you information about its expiration date.*

On the first line of the input, you will be given a **text string**. You must extract the information about the food **and calculate the total calories.**

First, you must **extract the food info**. It will always follow the same pattern rules:

* It will be surrounded by **"|"** or **"#"** (only one of the two) in the following pattern:   
  **#{item name}#{expiration date}#{calories}#** or   
  **|{item name}|{expiration date}|{calories}|**
* The item name will contain **only lowercase and uppercase letters and whitespace**
* The expiration date will always follow the pattern: **"{day}/{month}/{year}", where the day, month, and year will be exactly two digits long**
* The calories will be **an integer between 0-10000**

Calculate **the total calories of all food items** and then determine **how many days you can last with the food you have**. Keep in mind that **you need 2000kcal a day**.

**Input / Constraints**

* **You will receive a single string**

**Output**

* First, print **the number of days** you will be able to last with the food you have:

**"You have food to last you for: {days} days!"**

* **The output for each food item should look like this:  
  "Item: {item name}, Best before: {expiration date}, Nutrition: {calories}"**

**Examples**

|  |  |  |
| --- | --- | --- |
| **Input** | | |
| #Bread#19/03/21#4000#|Invalid|03/03.20||Apples|08/10/20|200||Carrots|06/08/20|500||Not right|6.8.20|5| | | |
| **Output** | | **Comments** |
| You have food to last you for: 2 days!  Item: Bread, Best before: 19/03/21, Nutrition: 4000  Item: Apples, Best before: 08/10/20, Nutrition: 200  Item: Carrots, Best before: 06/08/20, Nutrition: 500 | | We have a total of three matches – bread, apples, and carrots.  The sum of their calories is 4700. Since you need 2000kcal a day, we divide 4700/2000, which means this food will last you for 2 days.  We print each item |
| **Input** | | |
| $$#@@%^&#Fish#24/12/20#8500#|#Incorrect#19.03.20#450|$5\*(@!#Ice Cream#03/10/21#9000#^#@aswe|Milk|05/09/20|2000| | | |
| **Output** | | **Comments** |
| You have food to last you for: 9 days!  Item: Fish, Best before: 24/12/20, Nutrition: 8500  Item: Ice Cream, Best before: 03/10/21, Nutrition: 9000  Item: Milk, Best before: 05/09/20, Nutrition: 2000 | | We have three matches. The total calories are 8500 + 9000 + 2000 = 19500, which means you have food for a total of 9 days. |
| **Input** | | |
| Hello|#Invalid food#19/03/20#450|$5\*(@ | | |
| **Output** | **Comments** | |
| You have food to last you for: 0 days! | We have no matches, which means we have no food. The colored text is not a match since it doesn't have a # at the end. | |

**JS Examples**

|  |  |
| --- | --- |
| **Input** | |
| [  '#Bread#19/03/21#4000#|Invalid|03/03.20||Apples|08/10/20|200||Carrots|06/08/20|500||Not right|6.8.20|5|'  ] | |
| **Output** | **Comments** |
| You have food to last you for: 2 days!  Item: Bread, Best before: 19/03/21, Nutrition: 4000  Item: Apples, Best before: 08/10/20, Nutrition: 200  Item: Carrots, Best before: 06/08/20, Nutrition: 500 | We have a total of three matches – bread, apples, and carrots.  The sum of their calories is 4700. Since you need 2000kcal a day, we divide 4700/2000, which means this food will last you for 2 days.  We print each item |
| **Input** | |
| [ '$$#@@%^&#Fish#24/12/20#8500#|#Incorrect#19.03.20#450|$5\*(@!#Ice Cream#03/10/21#9000#^#@aswe|Milk|05/09/20|2000|' ] | |
| **Output** | **Comments** |
| You have food to last you for: 9 days!  Item: Fish, Best before: 24/12/20, Nutrition: 8500  Item: Ice Cream, Best before: 03/10/21, Nutrition: 9000  Item: Milk, Best before: 05/09/20, Nutrition: 2000 | We have three matches. The total calories are 8500 + 9000 + 2000 = 19500, which means you have food for a total of 9 days. |
| **JavaScript Input** | |
| ['Hello|#Invalid food#19/03/20#450|$5\*(@' ] | |
| **Output** | **Comments** |
| You have food to last you for: 0 days! | We have no matches, which means we have no food. The colored text is not a match since it doesn't have a # at the end. |