

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

<p>You have food to last you for: 2 days!</p> <p>Item: Bread, Best before: 19/03/21, Nutrition: 4000</p> <p>Item: Apples, Best before: 08/10/20, Nutrition: 200</p> <p>Item: Carrots, Best before: 06/08/20, Nutrition: 500</p>	<p>We have a total of three matches – bread, apples, and carrots.</p> <p>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.</p> <p>We print each item</p>
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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
<p>You have food to last you for: 9 days!</p> <p>Item: Fish, Best before: 24/12/20, Nutrition: 8500</p> <p>Item: Ice Cream, Best before: 03/10/21, Nutrition: 9000</p> <p>Item: Milk, Best before: 05/09/20, Nutrition: 2000</p>	<p>We have three matches. The total calories are 8500 + 9000 + 2000 = 19500, which means you have food for a total of 9 days.</p>

Input

```
Hello|#Invalid food#19/03/20#450|$5*(@
```

Output	Comments
<p>You have food to last you for: 0 days!</p>	<p>We have no matches, which means we have no food.</p> <p>The colored text is not a match since it doesn't have a # at the end.</p>

JS Examples

Input	Output	Comments
<pre>['#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 ']</pre>		

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