# Ramen Shop

You will be given **two sequences** of **integers** representing **bowls of ramen** and **customers**. Your task is to find out **if you can serve all the customers**.

Start by taking **the last bowl** of ramen and **the first customer**. Try to serve every customer with ramen **until we have no more ramen or customers left**:

* **Each time** the value of the ramen **is equal** to the value of the customer, **remove them both** and **continue** with the next **bowl of ramen** and the **next customer**.
* **Each time** the value of the ramen **is bigger** than the value of the customer, **decrease** the **value of that ramen** **with** the **value of that customer** and **remove the customer**. Then try to **match** the **same bowl of ramen** (which has been decreased) with the **next customer**.
* **Each time** the customer's value **is bigger** than the value of the ramen bowl, **decrease** the **value of the customer** **with** the **value of the ramen bowl** and **remove the bowl**. Then try to **match** the **same customer** (which has been decreased) with the **next bowl of ramen**.

**Look at the examples provided for a better understanding of the problem.**

### Input

* On the **first line**, you will receive **integers** representing the bowls of ramen, **separated** by a single space and a comma ", ".
* On the **second line**, you will receive **integers** representing the customers**,** **separated** by a single space and a comma ", ".

### Output

* If all customers are served, print: "**Great job! You served all the customers.**"
  + Print all of the left **ramen bowls** (**if any**) separated by **comma and space** in the format: **"Bowls of ramen left: {bowls of ramen left}"**
* Otherwise, print: **"Out of ramen! You didn't manage to serve all customers."**
  + Print all **customers** left separated by **comma and space** in the format **"Customers left: {customers left}"**

### Examples

|  |  |
| --- | --- |
| ****Input**** | ****Output**** |
| **14, 25, 37, 43, 19**  **58, 23, 37** | **Great job! You served all the customers**  **Bowls of ramen left: 14, 6** |
| ****Comment**** | |
| Start by taking the last bowl 19 and the first customer 58. The customer value is higher, so we remove the bowl and decrease the value of the customer by 19. Now the two lists should look like this:  Bowls = [14, 25, 37, 43]  Customers = [39, 23, 37]  Next, we take the following bowl (43) and continue with the same customer who is 39 now. The value of the bowl with ramen is higher than the customer's value, so we remove the customer and decrease the value of the ramen bowl. Now the two lists should look like this:  Bowls = [14, 25, 37, 4]  Customers = [23, 37]  We take the last bowl of ramen, which is 4 now, and compare it with the next customer (23). The value of the customer is higher, so we decrease his value by 4 and remove the last bowl. Now the two lists should look like this:  Bowls = [14, 25, 37]  Customers = [19, 37]  Then we continue with the ball 37 and customer 19. The bowl is higher. We remove the customer and decrease the bowl value with the value of the customer 19. Now the two lists should look like this:  Bowls = [14, 25, 18]  Customers = [37]  Then we continue with bowl 18 and customer 37. The customer value is higher. We remove the bowl and decrease the customer value with the value of bowl 18. Now the two lists should look like this:  Bowls = [14, 25]  Customers = [19]  Then we continue with the ball 25 and customer 19. The bowl is higher. We remove the customer and decrease the bowl value with the value of the customer 19. Now the two lists should look like this:  Bowls = [14, 6]  Customers = []  We see that we served all of the customers and print the appropriate string for that case. After that, we print the leftover bowls of ramen. | |

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| ****Input**** | ****Output**** |
| **30, 13, 45**  **70, 25, 55, 15** | **Out of ramen! You didn't manage to serve all customers.**  **Customers left: 7, 55, 15** |
| ****Input**** | ****Output**** |
| **30, 25**  **20, 35** | **Great job! You served all the customers.** |