## Water Dispenser

Write a program that reads on the first line the starting **quantity** of water in a dispenser. Then on the next few lines you will be given the **names** of some people that want to **get water** (each on separate line) until you receive the command **"**Start**"**. Add those people in a **queue**. Finally, you will receive some commands until the command **"**End**"**:

* **{liters}** - Litters that the current person in the **queue** wants to get. Check if there is **enough** water in the dispenser for that person.
  + If there is enough water, print **"{person\_name} got water"** and remove him/her from the queue.
  + Otherwise, print **"{person} must wait"** and **remove the person** from the queue **without reducing** the water in the dispenser
* **refill {liters}** - add the given litters in the dispenser.

At the end print how many litters of water are left in the format: **"{left\_liters} liters left"**

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 2  Peter  Amy  Start  2  refill 1  1  End | Peter got water  Amy got water  0 liters left | We create a queue with Peter and Amy. After the start command we see that Peter wants 2 liters of water (and he gets them). Water dispenser is left with 0 liters. After refulling, there is 1 liter in the dispenser. So when Amy wants 1 liter, she gets it and there are 0 liters left in the dispenser |
| 10  Peter  George  Amy  Alice  Start  2  3  3  3  End | Peter got water  George got water  Amy got water  Alice must wait  2 liters left |  |