

Problem 3 - Need for Speed III

Problem for exam preparation for the [Programming Fundamentals Course @SoftUni](https://softuni.org/).

Submit your solutions in the SoftUni judge system at <https://judge.softuni.org/Contests/Practice/Index/2307#2>.

You have just bought the latest and greatest computer game – Need for Speed III. Pick your favorite cars and drive them all you want! We know that you can't wait to start playing.

On the first line of the standard input, you will receive an integer **n** – the **number of cars** that you can obtain. On the next **n** lines, the **cars themselves** will follow with their **mileage** and **fuel available**, separated by " | " in the following format:

"{car} | {mileage} | {fuel}"

Then, you will be receiving different **commands**, each on a new line, separated by " : ", until the **"Stop"** command is given:

- **"Drive : {car} : {distance} : {fuel}"**:
 - You need to **drive the given distance**, and you will **need the given fuel** to do that. If the car **doesn't have enough fuel**, print: **"Not enough fuel to make that ride"**
 - If the car has the required fuel available in the tank, **increase its mileage with the given distance**, **decrease its fuel with the given fuel**, and print:
"{car} driven for {distance} kilometers. {fuel} liters of fuel consumed."
 - You like driving new cars only, so if a car's mileage reaches **100 000 km**, remove it from the collection(s) and print: **"Time to sell the {car}!"**
- **"Refuel : {car} : {fuel}"**:
 - **Refill** the tank of your car.
 - Each tank can hold a **maximum of 75 liters of fuel**, so if the given amount of fuel is more than you can fit in the tank, take only what is required to fill it up.
 - Print a message in the following format: **"{car} refueled with {fuel} liters"**
- **"Revert : {car} : {kilometers}"**:
 - Decrease the **mileage** of the given **car with the given kilometers** and print the kilometers you have decreased it with in the following format:
"{car} mileage decreased by {amount reverted} kilometers"
 - If the mileage becomes **less than 10 000km** after it is decreased, **just set it to 10 000km** and **DO NOT print anything**.

Upon receiving the **"Stop"** command, you need to print all cars in your possession in the following format:

"{car} -> Mileage: {mileage} kms, Fuel in the tank: {fuel} lt."

Input/Constraints

- The **mileage** and **fuel** of the cars will be valid, 32-bit integers, and will never be negative.
- The **fuel** and **distance** amounts in the commands will never be negative.
- The **car names** in the commands will always be **valid cars in your possession**.

Output

- All the output messages with the appropriate formats are described in the problem description.

Examples

Input	Output
3 Audi A6 38000 62 Mercedes CLS 11000 35 Volkswagen Passat CC 45678 5 Drive : Audi A6 : 543 : 47 Drive : Mercedes CLS : 94 : 11 Drive : Volkswagen Passat CC : 69 : 8 Refuel : Audi A6 : 50 Revert : Mercedes CLS : 500 Revert : Audi A6 : 30000 Stop	Audi A6 driven for 543 kilometers. 47 liters of fuel consumed. Mercedes CLS driven for 94 kilometers. 11 liters of fuel consumed. Not enough fuel to make that ride Audi A6 refueled with 50 liters Mercedes CLS mileage decreased by 500 kilometers Audi A6 -> Mileage: 10000 kms, Fuel in the tank: 65 lt. Mercedes CLS -> Mileage: 10594 kms, Fuel in the tank: 24 lt. Volkswagen Passat CC -> Mileage: 45678 kms, Fuel in the tank: 5 lt.
Comments	
<p>After we receive the cars with their mileage and fuel, we start driving them. When we get to "Drive : Volkswagen Passat CC : 69 : 8" command, our program calculates that there is not enough fuel, and we print the appropriate message. Then we refuel the Audi A6 with 50 l of fuel and Revert the Mercedes with 500 kilometers.</p> <p>When we receive the "Revert : Audi A6 : 30000", we set its mileage to 10000 km, because if the current mileage of the Audi is 38543 kms and if we subtract 30000 from it, we receive 8543 kms, which is less than 10000 kms.</p> <p>After all the commands, we print our current collection of cars with their current mileage and current fuel.</p>	
Input	Output

4	Not enough fuel to make that ride
Lamborghini Veneno 11111 74	Aston Martin Valkryie driven for 99 kilometers. 23 liters of fuel consumed.
Bugatti Veyron 12345 67	Aston Martin Valkryie driven for 2 kilometers. 1 liters of fuel consumed.
Koenigsegg CCXR 67890 12	Time to sell the Aston Martin Valkryie!
Aston Martin Valkryie 99900 50	Lamborghini Veneno refueled with 1 liters
Drive : Koenigsegg CCXR : 382 : 82	Bugatti Veyron mileage decreased by 2000 kilometers
Drive : Aston Martin Valkryie : 99 : 23	Lamborghini Veneno -> Mileage: 11111 kms, Fuel in the tank: 75 lt.
Drive : Aston Martin Valkryie : 2 : 1	Bugatti Veyron -> Mileage: 10345 kms, Fuel in the tank: 67 lt.
Refuel : Lamborghini Veneno : 40	Koenigsegg CCXR -> Mileage: 67890 kms, Fuel in the tank: 12 lt.
Revert : Bugatti Veyron : 2000	
Stop	

JS Examples

Input	Output
['3', 'Audi A6 38000 62', 'Mercedes CLS 11000 35', 'Volkswagen Passat CC 45678 5', 'Drive : Audi A6 : 543 : 47', 'Drive : Mercedes CLS : 94 : 11', 'Drive : Volkswagen Passat CC : 69 : 8', 'Refuel : Audi A6 : 50', 'Revert : Mercedes CLS : 500', 'Revert : Audi A6 : 30000', 'Stop']	Audi A6 driven for 543 kilometers. 47 liters of fuel consumed. Mercedes CLS driven for 94 kilometers. 11 liters of fuel consumed. Not enough fuel to make that ride Audi A6 refueled with 50 liters Mercedes CLS mileage decreased by 500 kilometers Audi A6 -> Mileage: 10000 kms, Fuel in the tank: 65 lt. Mercedes CLS -> Mileage: 10594 kms, Fuel in the tank: 24 lt.

]	Volkswagen Passat CC -> Mileage: 45678 kms, Fuel in the tank: 5 lt.
Comments	
<p>After we receive the cars with their mileage and fuel, we start driving them. When we get to "Drive : Volkswagen Passat CC : 69 : 8" command, our program calculates that there is not enough fuel,0 and we print the appropriate message. Then we refuel the Audi A6 with 50 l of fuel and Revert the Mercedes with 500 kilometers.</p> <p>When we receive the "Revert : Audi A6 : 30000", we set its mileage to 10000 km, because if the current mileage of the Audi is 38543 kms and if we subtract 30000 from it, we receive 8543 kms, which is less than 10000 kms.</p> <p>After all the commands, we print our current collection of cars with their current mileage and current fuel.</p>	
Input	Output
<pre>['4', 'Lamborghini Veneno 11111 74', 'Bugatti Veyron 12345 67', 'Koenigsegg CCXR 67890 12', 'Aston Martin Valkryie 99900 50', 'Drive : Koenigsegg CCXR : 382 : 82', 'Drive : Aston Martin Valkryie : 99 : 23', 'Drive : Aston Martin Valkryie : 2 : 1', 'Refuel : Lamborghini Veneno : 40', 'Revert : Bugatti Veyron : 2000', 'Stop']</pre>	<pre>Not enough fuel to make that ride Aston Martin Valkryie driven for 99 kilometers. 23 liters of fuel consumed. Aston Martin Valkryie driven for 2 kilometers. 1 liters of fuel consumed. Time to sell the Aston Martin Valkryie! Lamborghini Veneno refueled with 1 liters Bugatti Veyron mileage decreased by 2000 kilometers Lamborghini Veneno -> Mileage: 11111 kms, Fuel in the tank: 75 lt. Bugatti Veyron -> Mileage: 10345 kms, Fuel in the tank: 67 lt. Koenigsegg CCXR -> Mileage: 67890 kms, Fuel in the tank: 12 lt.</pre>