## Vehicles Extension

Use your solution of the previous task for starting point and add more functionality. Add new vehicle – **Bus**. Now every vehicle has **tank capacity** and fuel quantity **cannot fall (set)** **below 0** (If fuel quantity become less than 0 **print** on the console **"Fuel must be a positive number"**).

The **vehicles** **cannot be filled** with fuel **more than their tank capacity**. If you **try to put more fuel** in the tank than the **available space,** print on the console **"Cannot fit fuel in tank"** and **do not add any fuel** in vehicles tank.

Add **new command** for the bus. The **bus** can **drive** **with or without people**. If the bus is driving **with people**, the **air-conditioner** **is turned on** and its **fuel consumption** per kilometer is **increased with 1.4 liters**. If there are **no people in the bus** when driving the air-conditioner is **turned off** and **does not increase** the fuel consumption.

### Input

* On the first three lines you will receive information about the vehicles in format:

**Vehicle {initial fuel quantity} {liters per km} {tank capacity}**

* On fourth line - number of commands N that will be given on the next N lines
* On the next N lines – commands in format
  + Drive Car {distance}
  + Drive Truck {distance}
  + Drive Bus {distance}
  + DriveEmpty Bus {distance}
  + Refuel Car {liters}
  + Refuel Truck {liters}
  + Refuel Bus {liters}

### Output

* After each Drive command print whether the Car/Truck was able to travel given distance in format if it’s successful:

"Car/Truck/Bus travelled {distance} km"

* Or if it is not:

"Car/Truck/Bus needs refueling"

* If given fuel is **≤ 0** print **"Fuel must be a positive number".**
* If given fuel cannot fit in car or bus tank print "Cannot fit fuel in tank"
* Finally print the remaining fuel for car, truck and bus rounded 2 digits after floating point in format:

"Car: {liters}

Truck: {liters}

Bus: {liters}"

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| Car 30 0.04 70  Truck 100 0.5 300  Bus 40 0.3 150  8  Refuel Car -10  Refuel Truck 0  Refuel Car 10  Refuel Car 300  Drive Bus 10  Refuel Bus 1000  DriveEmpty Bus 100  Refuel Truck 1000 | Fuel must be a positive number  Fuel must be a positive number  Cannot fit fuel in tank  Bus travelled 10 km  Cannot fit fuel in tank  Bus needs refueling  Cannot fit fuel in tank  Car: 40.00  Truck: 100.00  Bus: 23.00 |