I want to write a program to inform when company should service their vehicles. In order for this program to work the drivers must enter mileage into computer before leaving station. This program will direct trucks to maintenance when mileage since last service exceeds 8000 miles.

Here is an example of how the program works. What is value of last service so the program can tally how many miles has past. What is the mileage currently at and what’s the difference between current mileage and last service. This would be useful for companies to use to keep track of the mileage and when to service their truck.

When the mileage entered into program adds up to 8001 miles from last service the user is alerted that service is due. When the program determines it’s been 8,001 miles the program alerts the driver service is required. The program can alert the company how many days on average until next service by taking the sum of miles driven during the week and adding them together and dividing by number of days to give the user an estimate when the likely hood of service would be based on current driving data. This is actually how the company I work for determines when the trucks need service. Every shift when employees login to the computer in the truck we enter truck number and current mileage. When we enter the mileage of the truck the maintenance shop is alerted when the mileage entered is past the amount of miles allowed per service miles

My program I wish to create is going to keep track of the mileage at last service and subtract the current mileage to determine how many miles have been driven since that last service. Therefore if the mileage is 125,500 when it was last serviced and when the driver enters the mileage each day, say for instance 127,200 on day 5 the program would subtract 125,500 from 127,200. This equals to 1700 miles since last service. The program would then determine this is an ok value because the truck is good for 8,000 miles. Now when this number reaches 8,001 the program would inform the driver service is due. When collecting data like this there are many useful ways to put this data to use.

Start

There are 2 trucks in fleet A.

Trucks in fleet A

Truck 01 is in fleet A

Truck 02 is in fleet A

Trucks in fleet B

Truck 03 is in fleet B

Truck 04 is in fleet B

When crews login to software in truck mileage must be entered for maintenance purposes

Truck 01 entered 340200 miles on odometer

Truck 02 entered 275010 miles on odometer

Truck 03 entered 100230 miles on odometer

Truck 04 entered 75020 miles on odometer

Mileage at last service for fleet A

Truck 01 was serviced at 336000 miles

Truck 02 was serviced at 266010 miles

If miles on odometer – miles at last service is > 8000 alert truck to go to shop for service

If miles on odometer – miles at last service <= 8000 alert truck to go in service

Truck 01 odometer – miles from last service

340200 – 336000 = 4200

4200 < 8000

Truck 01 may enter service

Message Truck 01 “ In service “

Truck 02 odometer – miles from last service

275010 – 266010 = 9000

9000 > 8000

Truck 02 must go to shop for service

Message Truck 02 “ report to shop “

After truck is serviced store current mileage in last serviced at

How many miles were driven between last services for fleet A

Add odometers of all trucks in fleet A then subtract mileage at last service

Truck 01 miles since last service + Truck 02 miles since last service

4200 + 9000 = 13200 miles driven since last services

While more than one truck is due for service send truck with that has most miles since last service to shop and other trucks back into service until next odometer entry is submitted at next shift

If a truck fails to enter mileage before leaving station send truck number to shop for technician to contact crew on truck

When mileage entered is less than last shifts entry have shop contact crew for further input