Assignment Week 14

CT103
C Programming

Submission:

REMEMBER: All files MUST be submitted

before you leave the lab *(even if you don't get it working!)*

You must be marked present by the lab tutor, and they must see your finished program before you leave

USE CORRECT FILE NAME AS PER INSTRUCTIONS

The tutors are there to help you - don't hesitate to ask for help

Assignment

- *You are given a tab-delimited file containing the maintenance schedule for a fleet of vehicles.*

- *Your challenge is to write a program that can read the relevant information from this file and output the maintenance needs as shown in the sample output on the following slides*

- *There aren't many lines of code in the solution, but you will have to work your way through it - start by reading the lines you don't need, and then use fscanf to read in the actual data lines*

- *Don't forget to stop reading when you get to the end of the data (it's clearly marked)*

- *You may not get it all done – just give it your best shot!*

Just read in and print out the actual file contents

```
File Contents
Sample Planned Vehicle Maintenance Schedule 2012

Vehicle Type    Registration No.         January February          March     April   May     June    July
        August   September      October November          December

VAN     12G1001 -       -       S       -       I       S       -       -       S       -       -
S

VAN     13G12345        I       -       S       -       -       S       -       -       S       I
-       S

TRUCK   10G4568 T       I       -       S       C       I       -       S       I       -       S
I

TRUCK   09G90569        -       -       -       T       C       -       I       -       -       S
-       I

END

        Key     S               Service Due

                I               Inspection Service Due

                C               Commercial Vehicle Test Due

                T               Two-year tacho Check Due

                -               no service this month

                -               no service this month

Press any key to continue . . . _
```
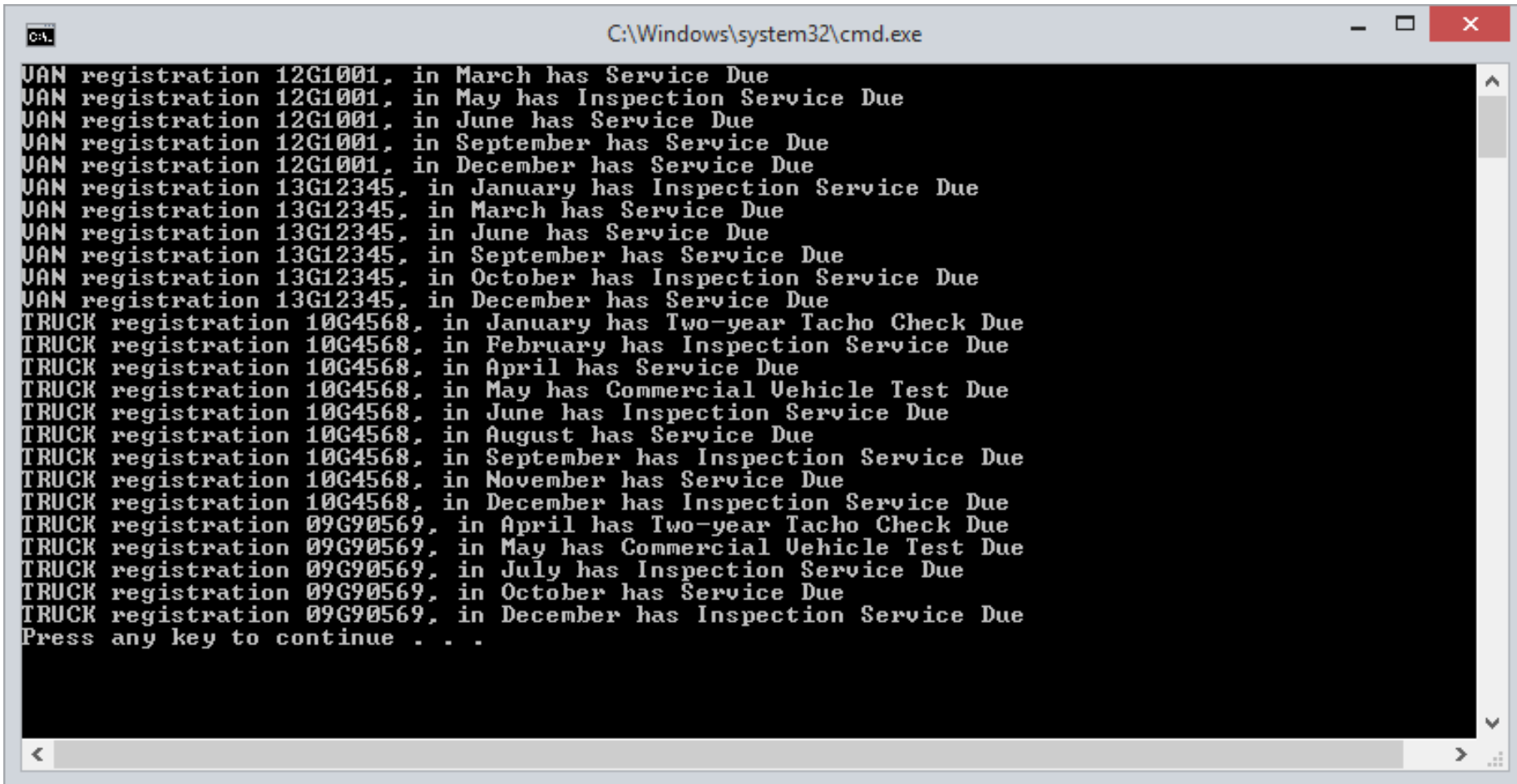
Reading in the file contents and just printing out the instructions


```
C:\Windows\system32\cmd.exe

VAN registration 12G1001, in March has Service Due
VAN registration 12G1001, in May has Inspection Service Due
VAN registration 12G1001, in June has Service Due
VAN registration 12G1001, in September has Service Due
VAN registration 12G1001, in December has Service Due
VAN registration 13G12345, in January has Inspection Service Due
VAN registration 13G12345, in March has Service Due
VAN registration 13G12345, in June has Service Due
VAN registration 13G12345, in September has Service Due
VAN registration 13G12345, in October has Inspection Service Due
VAN registration 13G12345, in December has Service Due
TRUCK registration 10G4568, in January has Two-year Tacho Check Due
TRUCK registration 10G4568, in February has Inspection Service Due
TRUCK registration 10G4568, in April has Service Due
TRUCK registration 10G4568, in May has Commercial Vehicle Test Due
TRUCK registration 10G4568, in June has Inspection Service Due
TRUCK registration 10G4568, in August has Service Due
TRUCK registration 10G4568, in September has Inspection Service Due
TRUCK registration 10G4568, in November has Service Due
TRUCK registration 10G4568, in December has Inspection Service Due
TRUCK registration 09G90569, in April has Two-year Tacho Check Due
TRUCK registration 09G90569, in May has Commercial Vehicle Test Due
TRUCK registration 09G90569, in July has Inspection Service Due
TRUCK registration 09G90569, in October has Service Due
TRUCK registration 09G90569, in December has Inspection Service Due
Press any key to continue . . .
```

Original Excel file

Screenshot of MaintenanceSchedule.xlsx in Microsoft Excel showing the "Sample Planned Vehicle Maintenance Schedule 2012".

	Vehicle Type	Registration No.	January	February	March	April	May	June	July	August	September	October	Novembe
3	VAN	12G1001	-	-	S	-	I	S	-	-	S	-	-
4	VAN	13G12345	I	-	S	-	-	S	-	-	S	I	-
5	TRUCK	10G4568	T	I	-	S	C	I	-	S	I	-	S
6	TRUCK	09G90569	-	-	-	T	C	-	I	-	-	S	-
7	END												
8		Key	S	Service Due									
9			I	Inspection Service Due									
10			C	Commercial Vehicle Test Due									
11			T	Two-year tacho Check Due									
12			-	no service this month									