CISP 41

Programming in C#

Project Evaluation Sheet

Student Name: ____________ Bryant Tunbutr ______________________ Project Number: _______4________

Project Name: _______BtunbutrProject4_____ Visual Studio Version:___2008________

Date Due: ________11/22/12_____________ Date Turned In: _____11/22/12_____

Above to be completed by student

Points (40 Possible)

Correctness/Efficiency:

Output is accurate	Show when not found	-1
Meets all requirements	Missing file input	-5
Provide appropriate user interface		___________
Logic is efficient		___________

Documentation/Coding Style:

Project can be open from the submitted zip file	___________
Folder is present and contains all necessary project files (no extra files)	___________
Use required coding template	___________
Use proper naming and spacing	___________
Submit all requested information	___________

Test Cases:

List all required test cases	___________
Provide output forms for important test cases	___________

Other issues: ___________

Extra Credit: ___________

Timeliness: -3

Project Score: 31/40

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Project specification

This software is intended to give the spark plug number that is equivalent to other brands.

It is designed to be run in Visual Studio 2008 using the C# coding.

It uses user input including the selected brand and number of the part.

It displays CCC brand number.

Used in the project are arrays, 2-dimensional arrays, methods, list boxes.

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Project status

Can continue to work on it until Thursday.

The project is not complete.

I tried for many hours to get the text file into an array of structure.

I was successful in loading the file into string arrays using this code

```
            //Load text file
            TextReader tr = new StreamReader("C:\\Users\\bryantt\\Desktop\\project 4 3 
test\\WindowsFormsApplication1\\bin\\Debug\\test.txt");

            //lines loaded
            int NumberOfLines = 5;

            //array for each line
            string[] ListLines = new string[NumberOfLines];

            //Read the number of lines and put them in the array
            for (int i = 1; i < NumberOfLines; i++)
            {
                ListLines[i] = tr.ReadLine();
            }

            //Make array for each line
            string[] ccc = ListLines[1].Split(new Char[] { ',' });
            string[] brandsA = ListLines[2].Split(new Char[] { ',' });
            string[] brandsB = ListLines[3].Split(new Char[] { ',' });
            string[] brandsC = ListLines[4].Split(new Char[] { ',' });

            // close the stream
            tr.Close();
```

You don't really need 2-D array, but you can convert these 4 arrays to 2-D array.

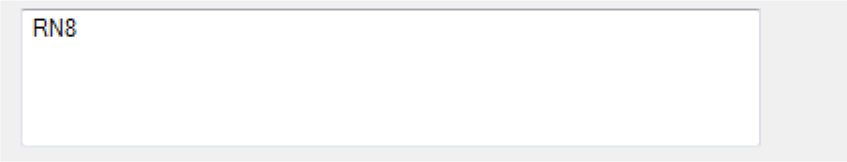
However I was never able to get these string arrays to convert into a 2-dimensional array structure.

I tried parsing methods, I tried integer and character and string conversion without success. I also tried making using loops to create 2-dimensional arrays without success.

I also tried just using these arrays but was unable to do so successfully

I do know that these arrays worked in exporting the data from the text file because when used code like the following, I got successful results

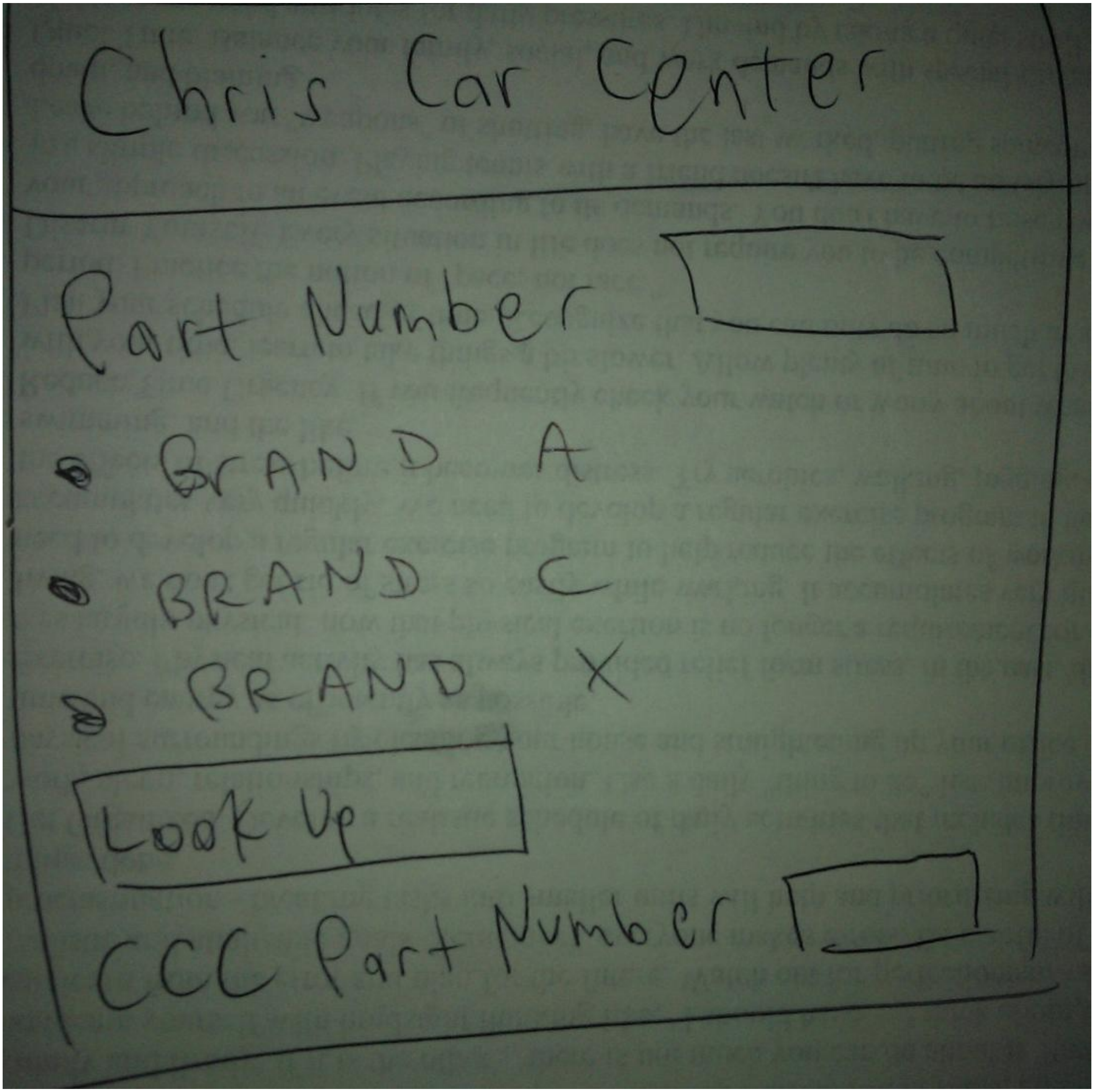
```
            textBox1.Text = brandsB[3].ToString();
```



```
RN8
```

I feel that the project is 95% complete, I am just missing one step of converting these string arrays into the 2-dimensional arrays that I used in the finalized project

Sketch of user interface



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Objects and Properties Plan for __ BTunbutrProject 4_________Form

Object	Property	Setting
Look Up Button	Name Text	**Method**
Look Up	Name Text	**Button Click**
If loop	Text	**Method**
label	Name Text	**Part Number**
Combo text box	Text	**Drop down**
BTunbutrProject4	Name Text	**Form**
brandsString	Text	**array**
cccString	Text	**array**

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Event Plan for ___ BTunbutrProject 4________Form

Object	**Event**	**Action - Pseudocode**
Look Up Button	Click	Call Look Up Button_Click. Display the part number. Run methods with arrays
Part number	Click	Use in method to match
List box	Click	Select array
ccc number	Click	Display method results

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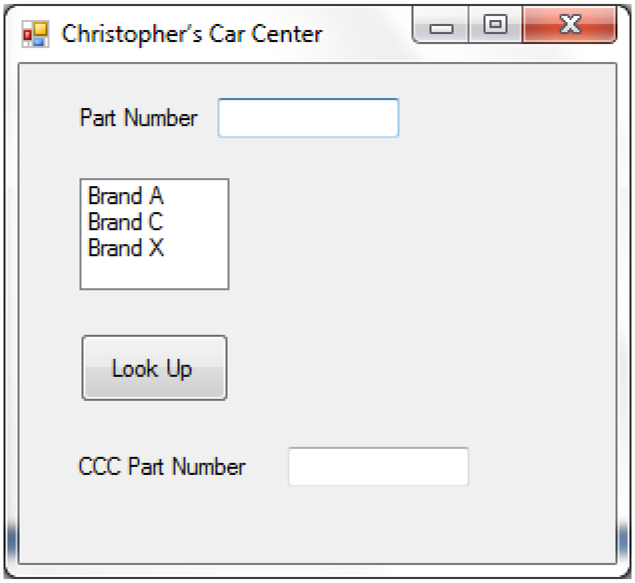
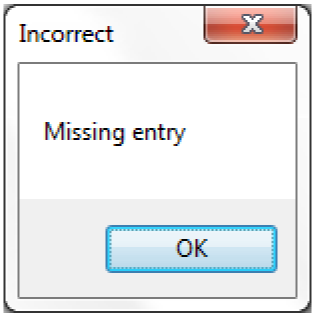
Test cases and captured screens

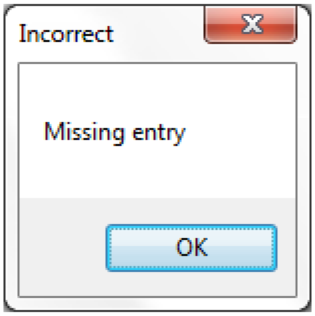
Test case #1
Nothing selected




Incorrect

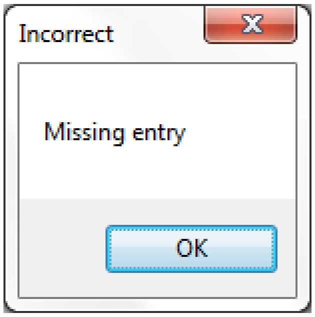
Missing entry

Test case #2a
Only a part number is entered


Incorrect

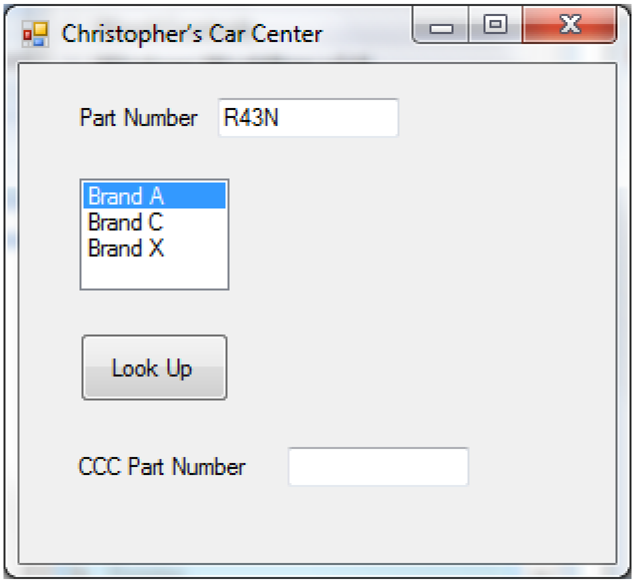
Missing entry

Test case #2b
Only a brand is selected


Incorrect

Missing entry

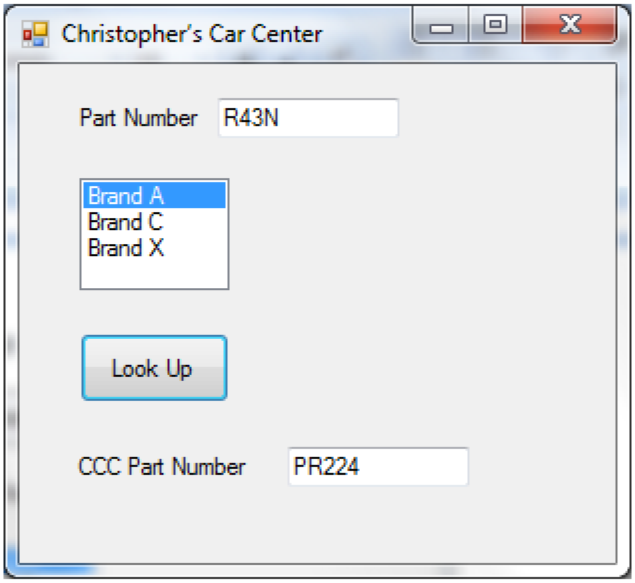
Test case #3



Part Number R43N

Brand A
Brand C
Brand X

CCC Part Number



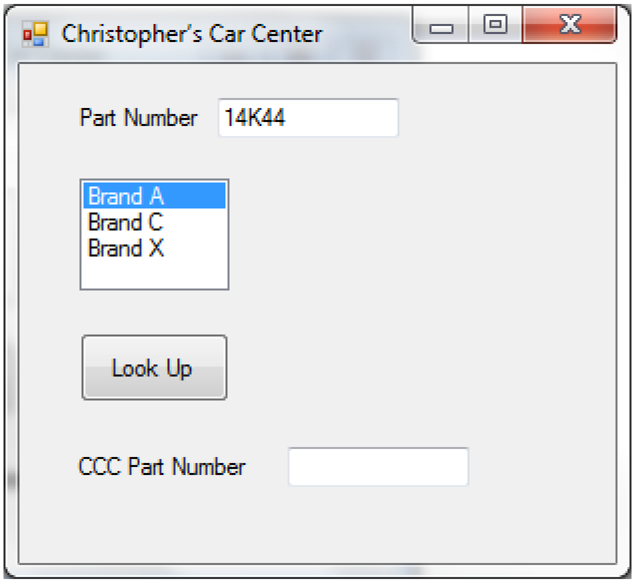
Part Number R43N

Brand A
Brand C
Brand X

CCC Part Number PR224

Test case #4

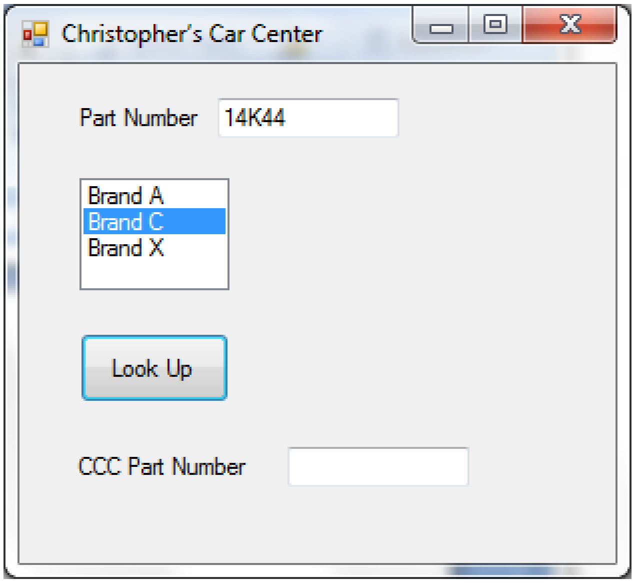
Part #14K44 with each of the brands selected



Part Number 14K44

Brand A

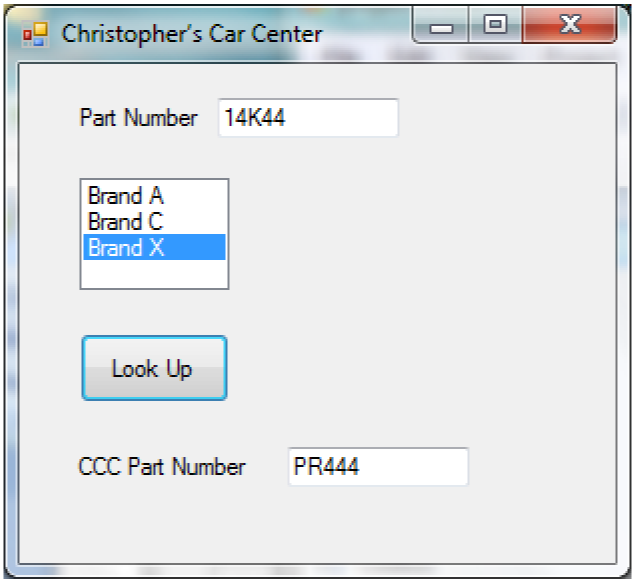
CCC Part Number



Part Number 14K44

Brand C

CCC Part Number



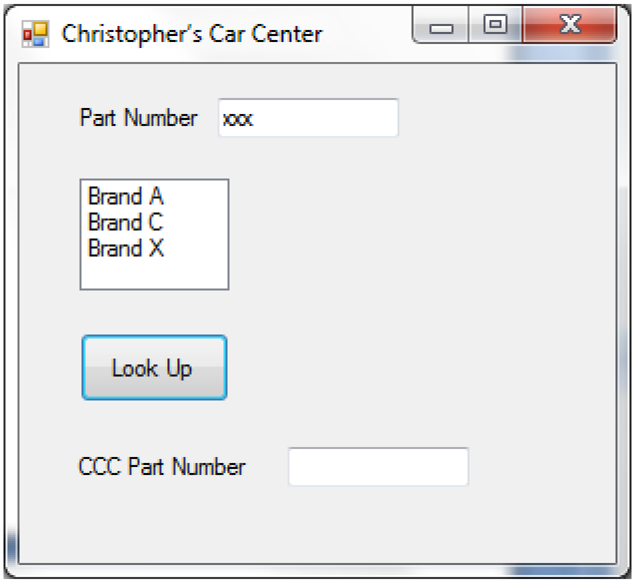
Part Number 14K44

Brand X

CCC Part Number PR444

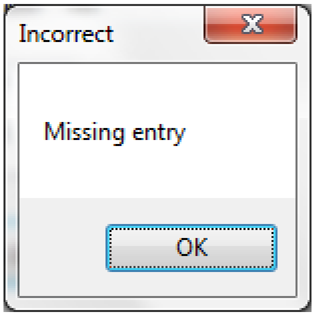
Test case #5

A non existing part number is entered



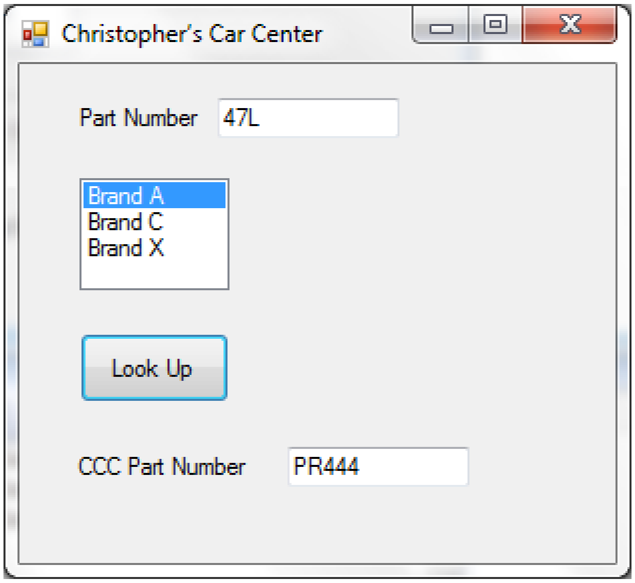
Part Number xxx

CCC Part Number



Missing entry

Test case #6

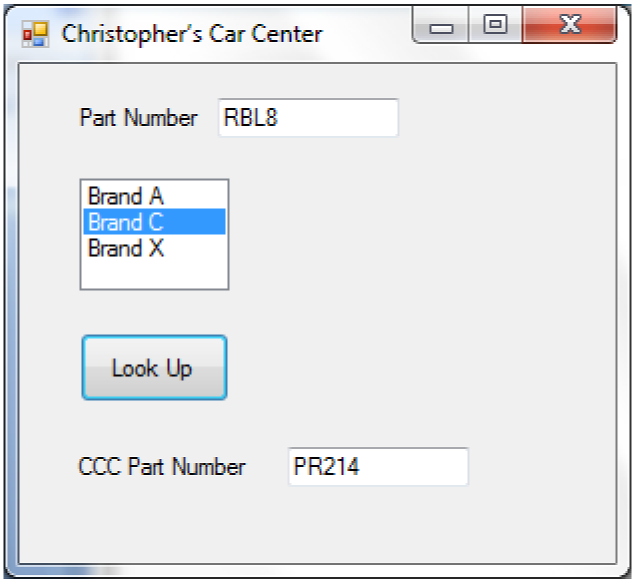


Part Number 47L

Brand A

CCC Part Number PR444

Test case #7

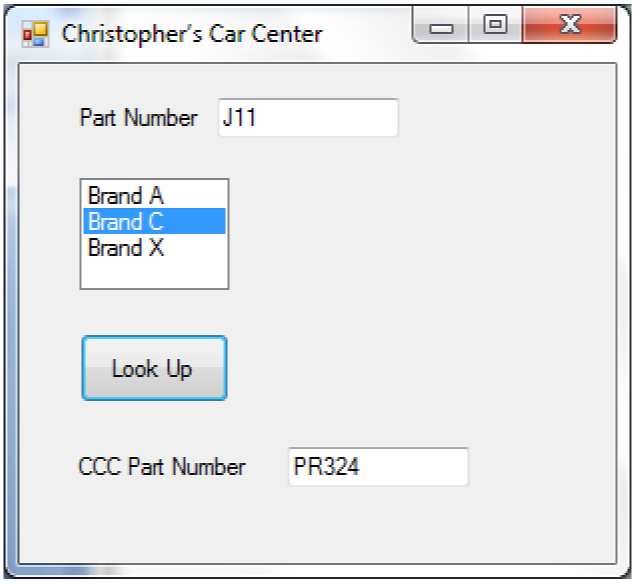


Part Number RBL8

Brand A
Brand C
Brand X

CCC Part Number PR214

Test case #8



Part Number J11

Brand A
Brand C
Brand X

CCC Part Number PR324

Source code

```
/*
* Project: BtunbutrProject4
* Programmer: Bryant Tunbutr
* Date: Nov 22 2012
* Description: Uses array of structures to match part number with brand number
 * I certify that the code below is my own work.
*/

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.IO;

namespace WindowsFormsApplication1
{
    public partial class Form1 : Form
    {
        //Create arrays, 2 dimensional for brands
        string[,] brandsString = new string[9, 3];
        string[] cccString = new string[9];

        public Form1()
        {
            InitializeComponent();
        }

        private void lookUpButton_Click(object sender, EventArgs e)
        {
            //Organize by having each brand have same second integer,
            //i.e. Brand A has second integer of 0

            //Brand A
            brandsString[0, 0] = "MR43T";
            brandsString[1, 0] = "R43";
            brandsString[2, 0] = "R43N";
            brandsString[3, 0] = "R46N";
            brandsString[4, 0] = "R46TS";
            brandsString[5, 0] = "R46TX";
            brandsString[6, 0] = "S46";
            brandsString[7, 0] = "SR46E";
            brandsString[8, 0] = "47L";

            //Brand C
            brandsString[0, 1] = "RBL8";
            brandsString[1, 1] = "RJ6";
            brandsString[2, 1] = "RN4";
            brandsString[3, 1] = "RN8";
            brandsString[4, 1] = "RBL17Y";
            brandsString[5, 1] = "RBL12-6";
            brandsString[6, 1] = "J11";
            brandsString[7, 1] = "XEJ8";
            brandsString[8, 1] = "H12";

            //Brand X
            brandsString[0, 2] = "14K22";
            brandsString[1, 2] = "14K24";
            brandsString[2, 2] = "14K30";
            brandsString[3, 2] = "14K32";
            brandsString[4, 2] = "14K33";
            brandsString[5, 2] = "14K35";
            brandsString[6, 2] = "14K38";
            brandsString[7, 2] = "14K40";
            brandsString[8, 2] = "14K44";

            //CCC NUMBER
            cccString[0] = "PR214";
            cccString[1] = "PR223";
            cccString[2] = "PR224";
            cccString[3] = "PR246";
            cccString[4] = "PR247";
            cccString[5] = "PR248";
            cccString[6] = "PR324";
            cccString[7] = "PR326";
            cccString[8] = "PR444";

            int brandInteger = brandListBox.SelectedIndex;
            int lengthInteger = 9;

            //make sure user has selected and entered data
            if (partNumberTextBox.Text != "" && brandInteger != -1)

                for (int indexInteger = 0; indexInteger < lengthInteger; indexInteger++)
                {
                        //match part number with brand number.
                        if (partNumberTextBox.Text == brandsString[indexInteger, 
brandInteger])
                        {
                                //display result.
                                cccPartNumberTextBox.Text = cccString[indexInteger];
                        }
                }

            //check for exeption.
            else
            {
                MessageBox.Show("Missing entry", "Incorrect");
            }
        }

    }
}
```

Should indicate that part not found
if applicable.