using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Text.RegularExpressions;

using System.Threading.Tasks;

namespace Cs\_Lesson17

{

class Car

{

public int Year { get; set; }

public string Model { get; set; }

public string Vendor { get; set; }

public override string ToString()

{

return $"{Model.PadRight(15)}-{Vendor}-{Year}";

}

}

public class Program

{

static void Main(string[] args)

{

//int[] scores = { 41, 22, 63, 84, 25, 16 };

//var scoreQuery =

// from score in scores

// where score > 50

// select score;

//var scoreQuery2 =

// scoreQuery

// .Where(score => score > 50)

// .ToList();

//foreach (var score in scoreQuery)

//{

// Console.WriteLine(score);

//}

var cars = new List<Car>()

{

new Car()

{

Model = "Mustang",

Vendor = "Ford",

Year =1964

},

new Car()

{

Model = "Charger",

Vendor = "Dodge",

Year = 2001

},

new Car()

{

Model = "Veyron",

Vendor = "Bugatti",

Year = 2020

},

new Car()

{

Model = "M5",

Vendor = "BMW",

Year = 2021

},

new Car()

{

Model = "Malibu",

Vendor = "Chevrolet",

Year = 2020

},

new Car()

{

Model = "Escalade",

Vendor= "Cadillac",

Year = 2021

},

new Car()

{

Model = "Fusion",

Vendor = "Ford",

Year = 2001

}

};

//var newCars =

// from car in cars

// where car.Year >= 2006

// orderby car.Year descending

// select car;

//foreach (var car in newCars)

//{

// Console.WriteLine(car);

// Console.WriteLine();

//}

//var newCars =

// from car in cars

// where car.Model.Contains("d")

// orderby car.Model

// select car;

//foreach (var car in newCars)

//{

// Console.WriteLine(car);

// Console.WriteLine();

//}

//string search = string.Empty;

//while (true)

//{

// var letter = Console.ReadKey();

// Console.Clear();

// search += letter.KeyChar;

// //Console.WriteLine(search);

// search = search.ToLower();

// var selectedCars =

// from car in cars

// where car.Vendor.ToLower().Contains(search.ToString()) || car.Model.ToLower().Contains(search.ToString())

// orderby car.Year descending

// select car;

// foreach (var car in selectedCars)

// {

// Console.WriteLine(car);

// }

// Console.WriteLine("\n\n");

//}

//var sameYears =

// from car in cars

// where car.Year > 1800

// orderby car.Year descending

// group car by car.Year into carGroup

// select carGroup;

//foreach (var item in sameYears)

//{

// Console.Write(item.Key);

// foreach (var car in item)

// {

// Console.WriteLine($"\t\t{car}");

// }

//}

//var sameYear =

// cars

// .Where(car => car.Year > 1800)

// .OrderByDescending(car => car.Year)

// .GroupBy(car => car.Year)

// //.Select(car => car)

// .ToList();

//foreach (var item in sameYear)

//{

// Console.WriteLine(item.Key);

// foreach (var car in item)

// {

// Console.WriteLine($"\t\t{car}");

// }

//}

}

}

}