# Yield collection practice

1. Create a Car class that contains Maker , ModelYear fields
2. Create an Agency class that contains Cars list fields, GetEnumerator , GetCars methods to enable foreach iteration. GetCars can receive maker or modelYear parameter that filters the returned cars

Use this documentation to learn about yield, iterators :

[yield contextual keyword - C# Reference | Microsoft Docs](https://docs.microsoft.com/en-us/dotnet/csharp/language-reference/keywords/yield) , [Iterators | Microsoft Docs](https://docs.microsoft.com/en-us/dotnet/csharp/iterators)

Use the following code :

using System.Collections.Generic;

//

Agency a1 = new Agency();

a1.Cars = new Car[]{

        new Car(){ ModelYear = 2001 , Maker = "Subaro"},

        new Car(){ ModelYear = 2021 , Maker = "Toyota"},

        new Car(){ ModelYear = 2013 , Maker = "Subaro"},

        new Car(){ ModelYear = 2004 , Maker = "Fiat"},

        new Car(){ ModelYear = 2021 , Maker = "Fiat"},

        new Car(){ ModelYear = 2015 , Maker = "Subaro"}

};

//

System.Console.WriteLine("All cars in the agency:");

foreach (var car in a1)

    System.Console.WriteLine(car);

System.Console.WriteLine("All cars in the agency from 2021:");

foreach (var car in a1.GetCars(2021))

    System.Console.WriteLine(car);

System.Console.WriteLine("All cars in the agency of Fiat:");

foreach (var car in a1.GetCars("Fiat"))

    System.Console.WriteLine(car);

To produce the following output:

All cars in the agency:

2001,Subaro

2021,Toyota

2013,Subaro

2004,Fiat

2021,Fiat

2015,Subaro

All cars in the agency from 2021:

2021,Toyota

2021,Fiat

All cars in the agency of Fiat:

2004,Fiat