```
// Car.cs
class Car : Vehicle, IRegistrable
   public static int Counter = 0;
   public string Model { get; set; } = string.Empty;
   public string LicensePlate { get; set; } = string.Empty;
   public int Year { get; set; }
   public Car() => Counter++;
   public override string GetInfo() =>
        $"{Brand} {Model} ({LicensePlate}), évjárat: {Year}";
   public string GetLicensePlate() => LicensePlate;
}
// Vehicle.cs
class Vehicle
    public string Brand { get; set; } = string.Empty;
   public virtual string GetInfo() =>
        $"Brand: {Brand}";
}
// IRegistrable.cs
interface IRegistrable
   string GetLicensePlate();
// Document.cs
abstract class Document
{
   public string Details { get; protected set; } = string.Empty;
   public abstract void Print();
}
// CarInfo.cs
class CarInfo : Document
   private Car car;
   public CarInfo(Car car)
        this.car = car;
        Details = $"Részletek: {car.GetInfo()}";
    }
   public override void Print()
    {
        Console.WriteLine(Details);
        Console.WriteLine($"Évjárat: {car.Year}");
```

```
// Repository.cs
class Repository<T>
   private List<T> items = new List<T>();
   public void Add(T item) => items.Add(item);
   public T? FindByLicensePlate(string licensePlate)
        foreach (T item in items)
            if (item is Car car && car.LicensePlate == licensePlate)
                return item;
        return default;
    }
   public List<T> GetAll() => items;
}
// Program.cs
using System.Text.Json;
internal class Program
    static void Main()
        List<Car> cars = LoadCars();
        var repo = new Repository<Car>();
        foreach (var car in cars) repo.Add(car);
        var found = repo.FindByLicensePlate("XYZ-789");
        if (found != null)
            Console.WriteLine("\nTalalt autó:");
            Console.WriteLine(found.GetInfo());
        }
        var filteredCars = cars
            .Where(c => c.Year > 2019)
            .OrderBy(c => c.Brand)
            .ThenBy(c => c.Year);
        foreach (var car in filteredCars)
            Console.WriteLine($"{car.Brand} {car.Model}-{car.Year}");
    }
    static List<Car> LoadCars()
```

```
string json = File.ReadAllText("cars.json");
        List<Car>? cars = JsonSerializer.Deserialize<List<Car>>(json);
        if (cars != null)
            foreach (var car in cars)
                Console.WriteLine($"{car.Brand} {car.Model} ({car.LicensePlate})");
            Console.WriteLine($"Counter: {Car.Counter}");
            return cars;
        }
        Console.WriteLine("A JSON beolvasása nem sikerült vagy üres.");
        return new List<Car>();
    }
}
cars.json
[
  {
    "Brand": "Toyota",
    "Model": "Corolla",
    "LicensePlate": "ABC-123",
    "Year": 2020
  },
  {
    "Brand": "Ford",
    "Model": "Focus",
    "LicensePlate": "XYZ-789",
    "Year": 2019
  },
  {
    "Brand": "Mazda",
    "Model": "3",
    "LicensePlate": "DEF-456",
    "Year": 2021
  }
]
```