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using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;

class Program
{
    static void Main()
    {
        List<Student> students = ReadStudentData("Student_Data.txt");

        // Sort Students by name..
        students.Sort((s1, s2) => string.Compare(s1.Name, s2.Name,
StringComparison.Ordinal));

        // Display Sorted Student data..
        DisplayStudentData(students);

        // Search for a Student by name..
        Console.Write("Enter student name to search: ");
        string searchName = Console.ReadLine();
        SearchAndDisplayStudent(students, searchName);
    }

    static List<Student> ReadStudentData(string filePath)
    {
        List<Student> students = new List<Student>();

        try
        {
            using (StreamReader reader = new StreamReader(filePath))
            {
                while (!reader.EndOfStream)
                {
                    string[] data = reader.ReadLine().Split(',').Select(s =>
s.Trim()).ToArray();
                    if (data.Length == 2)
                    {
                        students.Add(new Student { Name = data[0], Class = data[1]
});
                    }
                }
            }
        }
        catch (Exception ex)
        {
            Console.WriteLine($"Error reading data: {ex.Message}");
        }

        return students;
    }

    static void DisplayStudentData(List<Student> students)
    {
        Console.WriteLine("Student Data (Sorted by Name):\n");
        foreach (var student in students)
        {
            Console.WriteLine($"{student.Name}, {student.Class}");
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        }
        Console.WriteLine();
    }

    static void SearchAndDisplayStudent(List<Student> students, string searchName)
    {
        Student foundStudent = students.Find(s => s.Name.Equals(searchName,
StringComparison.OrdinalIgnoreCase));

        if (foundStudent != null)
        {
            Console.WriteLine($"\nStudent found: {foundStudent.Name},
{foundStudent.Class}");
        }
        else
        {
            Console.WriteLine("\nStudent not found.");
        }
    }
}

class Student
{
    public string Name { get; set; }
    public string Class { get; set; }
}
```