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src: [Bai-tap-Web-nang-cao/baitap\_tuan5/baitap\_Collection at main · zannie-hg/Bai-tap-Web-nang-cao · GitHub](https://github.com/zannie-hg/Bai-tap-Web-nang-cao/tree/main/baitap_tuan5/baitap_Collection)

**BÀI TẬP COLLECTION**

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**Program.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace exercise1

{

internal class Program

{

static void Main(string[] args)

{

List<int> numbers = new List<int> { 3, 3, 6, 1 };

SumAdjacentEqualNumbers(numbers);

}

static void SumAdjacentEqualNumbers(List<int> numbers)

{

for (int i = 0; i < numbers.Count - 1; i++)

{

if (numbers[i] == numbers[i + 1])

{

numbers[i] \*= 2; // Cộng hai số bằng nhau

numbers.RemoveAt(i + 1); // Xóa số thứ hai

i = -1; // Reset vòng lặp để kiểm tra lại danh sách từ đầu

}

}

Console.WriteLine(string.Join(" ", numbers));

}

}

}

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**Program.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace exercise2

{

internal class Program

{

static void Main(string[] args)

{

List<int> numbers = new List<int> { 1, 2, 3, 4, 5 };

List<int> result = GaussTrick(numbers);

Console.WriteLine(string.Join(" ", result));

}

static List<int> GaussTrick(List<int> numbers)

{

List<int> result = new List<int>();

int left = 0, right = numbers.Count - 1;

while (left <= right)

{

if (left == right)

result.Add(numbers[left]); // Nếu còn một số, thêm vào danh sách kết quả

else

result.Add(numbers[left] + numbers[right]); // Cộng số đầu với số cuối

left++; // Di chuyển con trỏ đầu

right--; // Di chuyển con trỏ cuối

}

return result;

}

}

}

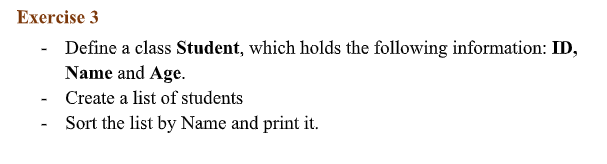
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**Student.cs**



using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace exercise3

{

internal class Student

{

public int Id { get; set; }

public string Name { get; set; }

public int Age { get; set; }

public Student(int id, string name, int age)

{

Id = id;

Name = name;

Age = age;

}

public Student()

{

}

public override string ToString()

{

return $"ID: {Id}, Name: {Name}, Age: {Age}";

}

}

}

**Program.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace exercise3

{

internal class Program

{

static void Main(string[] args)

{

Console.OutputEncoding = Encoding.UTF8;

List<Student> students = new List<Student>();

students.Add(new Student(1,"Nguyẽn Văn Z", 20));

students.Add(new Student(2, "Nguyẽn Văn F", 21));

students.Add(new Student(3, "Nguyẽn Văn E", 19));

Console.WriteLine("Danh sách trước khi sắp xếp theo tên:");

foreach (var student in students)

{

Console.WriteLine(student);

}

Console.WriteLine("Danh sách sau khi sắp xếp theo tên:");

students = students.OrderBy(s => s.Name).ToList();

foreach (var student in students)

{

Console.WriteLine(student);

}

}

}

}

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