2100030723

```
using System;
using System.Collections.Generic;
using System.Linq;
class Program
{
  static void Main(string[] args)
 {
   // Task 1
    char targetChar1 = 'C';
    List<string> stringList1 = new List<string> { "Cat", "Dog", "Computer", "Car", "Cup" };
    List<string> result1 = GetStringsStartingAndEndingWithChar(stringList1, targetChar1);
    Console.WriteLine("Task 1:");
    Console.WriteLine(string.Join(", ", result1));
    // Task 2
    List<string> stringList2 = new List<string> { "Apple", "Banana", "Orange", "Grape" };
    List<int> result2 = GetSortedLengths(stringList2);
    Console.WriteLine("\nTask 2:");
    Console.WriteLine(string.Join(", ", result2));
    // Task 3
    List<string> stringList3 = new List<string> { "Hello", "World", "CSharp" };
    List<string> result3 = GetFirstAndLastChars(stringList3);
    Console.WriteLine("\nTask 3:");
    Console.WriteLine(string.Join(", ", result3));
```

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// Task 4
   int k = 3;
   List<string> stringList4 = new List<string> { "ABC1", "123", "CDE4", "WXYZ5", "456" };
   List<string> result4 = GetStringsOfLengthKEndingWithDigit(stringList4, k);
   Console.WriteLine("\nTask 4:");
   Console.WriteLine(string.Join(", ", result4));
   // Task 5
   List<int> integerList = new List<int> { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };
   List<string> result5 = GetOddIntegerStringRepresentations(integerList);
   Console.WriteLine("\nTask 5:");
   Console.WriteLine(string.Join(", ", result5));
 }
  static List<string> GetStringsStartingAndEndingWithChar(List<string> stringList, char
targetChar)
 {
   return stringList.Where(s => s.Length > 1 && s[0] == targetChar && s[^1] ==
targetChar).ToList();
 }
 static List<int> GetSortedLengths(List<string> stringList)
 {
   return stringList.Select(s => s.Length).OrderBy(n => n).ToList();
 }
 static List<string> GetFirstAndLastChars(List<string> stringList)
 {
   return stringList.Select(s => s[0].ToString() + s[^1]).ToList();
 }
  static List<string> GetStringsOfLengthKEndingWithDigit(List<string> stringList, int k)
```

```
{
    return stringList.Where(s => s.Length == k && char.IsDigit(s[^1])).OrderBy(s => s).ToList();
}

static List<string> GetOddIntegerStringRepresentations(List<int> integerList)
{
    return integerList.Where(n => n % 2 != 0).Select(n => n.ToString()).OrderBy(s => s).ToList();
}
```

OUTPUT: