

Name: _____

CS3611 – List Practice

Determine the contents of each list after the code segment is executed.

- 1)

```
List<int> numbers = new List<int> { 1, 2, 3, 4, 5 };  
numbers.Remove(3);  
numbers.Add(6);
```
- 2)

```
List<string> fruits = new List<string> {"Apple", "Banana", "Orange"};  
fruits.Insert(1, "Grape");  
fruits.RemoveAt(2);
```
- 3)

```
List<int> numbers = new List<int> { 10, 20, 30 };  
numbers.Sort();  
numbers.Add(15);
```
- 4)

```
List<string> colors = new List<string>();  
colors.Add("Red");  
colors.Add("Green");  
colors.Add("Blue");  
colors.RemoveAt(1);  
colors.Insert(1, "Yellow");
```
- 5)

```
List<int> numbers = new List<int> { 1, 2, 3, 4 };  
numbers.Reverse();  
numbers.Remove(3);  
numbers.Add(5);
```
- 6)

```
List<int> numbers = new List<int> { 1, 2, 3, 4, 5 };  
numbers.AddRange(new int[] { 6, 7, 8 });  
numbers.RemoveRange(2, 3);
```

```
7) List<string> names = new List<string> { "Alice", "Bob", "Charlie" };
   names.InsertRange(1, new string[] { "David", "Eve" });
   names.Sort();
   names.RemoveAt(2);

8) List<int> numbers = new List<int> { 1, 2, 3, 4 };
   numbers.Reverse();
   numbers.RemoveRange(1, 2);
   numbers.Insert(1, 5);

9) List<string> colors = new List<string> { "Red", "Green", "Blue" };
   List<string> newColors = new List<string> { "Yellow", "Orange" };
   colors.AddRange(newColors);
   colors.RemoveAt(3);
   colors.InsertRange(1, new string[] { "Purple", "Pink" });

10) List<int> numbers = new List<int> { 1, 2, 3, 4, 5 };
    List<int> subList = numbers.GetRange(1, 3);
    subList.Reverse();
    subList.Add(6);

11) List<string> animals = new List<string> {"Dog","Cat","Rabbit"};
    animals.Reverse();
    animals.RemoveAt(1);
    animals.Add("Bird");
    animals.Insert(2, "Fish");
```

- 12) `List<int> numbers = new List<int> { 1, 2, 3, 4, 5 };
numbers.AddRange(new int[] { 6, 7, 8 });
numbers.RemoveRange(2, 3);
numbers.Sort();
numbers.Reverse();
numbers.RemoveAt(1);`
- 13) `List<string> colors = new List<string> {"Red","Green","Blue"};
List<string> newColors = new List<string> {"Yellow","Orange"};
colors.AddRange(newColors);
colors.RemoveAt(3);
colors.InsertRange(1, new string[] { "Purple", "Pink" });
colors.Sort();`
- 14) `List<int> numbers = new List<int> { 1, 2, 3, 4, 5 };
List<int> subList = numbers.GetRange(1, 3);
subList.Reverse();
subList.RemoveAt(1);
numbers.AddRange(subList);`
- 15) `List<string> f = new List<string> {"Apple","Banana","Orange"};
f.Insert(1, "Grape");
f.RemoveAt(2);
f.Sort();`