

**Instructions:** (Same as usual, you have **15 minutes**.)

\_\_\_\_ / 2 pts.

**Question 1** Consider the following code:

```
void Test(int n){
    Test(n - 1);
    Console.WriteLine($"{n} ");
}

Test(3);
```

What will it display?

- |                                  |   |
|----------------------------------|---|
| <input type="checkbox"/> Nothing | <input type="checkbox"/> 3 2 1 0 -1 -2 -3 ... |
| <input type="checkbox"/> n       | <input type="checkbox"/> 2 1 0 -1 -2 -3 ...   |
| <input type="checkbox"/> 3 2 1   | <input type="checkbox"/> 1 2 3                |
| <input type="checkbox"/> 3 2 1 0 | <input type="checkbox"/> 0 1 2 3              |

\_\_\_\_ / 4 pts.

**Question 2** What would the following code display?

```
void Test(int n){
    if (n == 0) { Console.WriteLine("0 "); }
    else if (n < 0){ Console.WriteLine($"{n} ");
                  Test(-(n+1));}
    else{ Test(-n);
          Console.WriteLine($"{n} ");}
}

Test(2);
```

\_\_\_\_ / 4 pts.

**Question 3** Write a *recursive* method that displays a one-dimensional array of `int`. You can write an example usage if it helps you.