CS-200: Programming I
Spring 2017
Northeastern Illinois University
PLTL: Week of 03/05/17
Arrays/Methods

Problem #1

- Write a program that has the class name `Problem1` and that has the `main` method. Leave the `main` method empty for now.

- Write a method named `centeredAverage` that takes one parameter, an integer array `a` and returns an integer.

- The method should find the average of the elements in the array by omitting the largest and smallest integers . If there are multiple smallest and largest numbers you may ignore only one of each respectively.

- Return the average using integer division.

- Several sample usages are provided for you below. Use the sample usages in the `main` method to test your code.

Sample Method Usage	Return Value
`int[] a1 = { 1, 2, 3, 4, 100 };` `int n1 = centeredAverage(a1);`	3
`int[] a2 = { 1, 1, 5, 5, 10, 8, 7 };` `int n2 = centeredAverage(a2);`	5
`int[] a3 = { -10, -4, -2, -4, -2, 0 };` `int n3 = centeredAverage(a3);`	-3

Problem #2

- Write a program that has the class name `Problem2` and that has the `main` method. Prompt the user to enter an integer `n`.

- Write a method named `nMinusString` that takes one parameter, an integer `n` and returns a String array.

- The method should create a new String array size `n`. The method should also populate the array from 0 to n -1.

- Create a `printArray` method that takes a String array and prints out the each elemnt of the array.

- Several sample usages are provided for you below. Use the sample usages in the `main` method to test your code (and use the `printArray` method to print out the results of calling the `tenInARow` method!).

```
Enter an int: 7
0 1 2 3 4 5 6
```

```
Enter an int: 9
0 1 2 3 4 5 6 7 8
```

```
Enter an int: 5
0 1 2 3 4
```