Zac Robbins
zrobbins@my.athens.edu
00100125
CS317-Assignment 10

Problem 1:

Microsoft Visual Studio Debug Console

```
Please enter the name of the file you wish to open:
Series.txt
Searching for file...
File found.
The lowest number in the file is 4
The highest number in the file is 97
The total of all the numbers in the file is 506
The average of all the numbers in the file is 50.6

C:\Users\newuser\OneDrive\Documents\Athens State\CS317\RobbinsAsg
Press any key to close this window . . .
```

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Problem 2:

Player X Win:

```
***
***
***

Player X:
Enter the row (top to bottom) and column (left to right) where you want to place an 'X':
1 3

**X
***
***

Player O:
Enter the row (top to bottom) and column (left to right) where you want to place an 'O':
2 3

**X
**O
***

Player X:
Enter the row (top to bottom) and column (left to right) where you want to place an 'X':
2 2

**X
*XO
***

Player O:
Enter the row (top to bottom) and column (left to right) where you want to place an 'O':
3 1

**X
*XO
O**

Player X:
Enter the row (top to bottom) and column (left to right) where you want to place an 'X':
1 1

X*X
*XO
O**
```

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```
Player X:
Enter the row (top to bottom) and column (left to right) where you want to place an 'X':
1 1

X*X
*XO
O**

Player O:
Enter the row (top to bottom) and column (left to right) where you want to place an 'O':
1 2

XOX
*XO
O**

Player X:
Enter the row (top to bottom) and column (left to right) where you want to place an 'X':
3 3

XOX
*XO
O*X
Congratulations player X
You have won this Tic-Tac-Toe game!

C:\Users\newuser\OneDrive\Documents\Athens State\CS317\RobbinsAsg10\Debug\RobbinsAsg10.exe
Press any key to close this window . . .
```

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Tie:

```
Player X:
Enter the row (top to bottom) and column (left to right) where you want to place an 'X':
2 2

XOX
OX*
***

Player O:
Enter the row (top to bottom) and column (left to right) where you want to place an 'O':
3 1

XOX
OX*
O**

Player X:
Enter the row (top to bottom) and column (left to right) where you want to place an 'X':
2 3

XOX
OXX
O**

Player O:
Enter the row (top to bottom) and column (left to right) where you want to place an 'O':
3 3

XOX
OXX
O*O

Player X:
Enter the row (top to bottom) and column (left to right) where you want to place an 'X':
3 2

XOX
OXX
OXO
Tie! Better luck next time!

C:\Users\newuser\OneDrive\Documents\Athens State\CS317\RobbinsAsg10\Debug\RobbinsAsg10.exe
Press any key to close this window . . .
```

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Problem 3:

a) The size variable must be initialized before it can be used as an array size.
b) The array cannot use a negative value for an element.
c) The loop will overfill the array, because there is no bounds checking in C++.
d) There are no brackets on the initialization list.
e) There cannot be blank spaces in the initialization list, those spaces should be replaced with zeroes. Once one element is left blank, all elements that follow must also be uninitialized.
f) There is no size declaration for the array, or initialization list to set the size.
g) Only the first element will be displayed with the "cout" statement. It should use a loop instead to step through each element of the array and display them one after another.
h) The arrays cannot be set equal to each other in a single "=" statement. It must instead use a loop and set each element individually equal to the corresponding element of the second array.
i) The function definition needs "[]" brackets after the name "nums" because it is an array being passed to the function.