**Working with Arrays**

You are given an integer array called *nums* of unknown size and contents. Write methods that will produce the following results. Remember that any changes made to the array in the method, will affect the array outside of the method. Unless specifically stated, the original array should be unchanged.

**countElements** - Output the number of elements in the array.

**output10** - Output all elements in the array, with 10 numbers appearing on each line

**findLargest** - Output the largest integer in the array

**numOdd** - Output the number of odd integers in the array

**countNegEven** - Output the number of negative even numbers in the array

**indexGreater100** - Output the index of the first number greater than 90

**count5s** - Output the number of times the value 5 appears in the array.

**sumEven** - Output the sum of all even numbers in the array

**frequency100** - Output the frequency of all numbers from 1 to 100. (how many times 1 appears, 2 appears, etc…)

**oneToTenPresent** - Output true if all values from 1 to 10 appear somewhere in the array, otherwise output false.

**noRepeats** - This boolean method will return true if there are no repeated values in the array, otherwise false is returned. Have it output an appropriate message before it returns the value.

**swap(nums, x, y)** - This receives the integer array and two additional integers. The method will swap the values at the two indices provided, unless the indices are outside of the range of valid array indices, in which case an appropriate message is displayed.