Words.java

```
1  public class Words
2  {
3     /**
4        Returns the nth short word (length <= 3) in an array.
5        @param words an array of strings
6        @param n an integer > 0
7        @return the nth short word in words, or the empty string if there is
8        no such word
9     */
10    public String nthShortWord(String[] words, int n)
11    {
12       if (n<=2){
13          return words[n];
14       }
15       else {
16          return "";
17       }
18
19
20
21    }
22 }
```

Submit

Calling method

Testing method nthShortWord

	Arguments	Actual	Expected
pass	[Mary, had, a, little, lamb],1	had	had
pass	[Mary, had, a, little, lamb],2	a	a
pass	[Mary, had, a, little, lamb],4		

Score

3/3

Numbers.java

```
1  import java.util.Arrays;
2  public class Numbers
3  {
4     /**
5        Computes the number of even and odd values in a given array
6        @param values an array of integer values
7        @return an array of length 2 whose 0 entry contains the count
8        of even elements and whose 1 entry contains the count of odd
9        values
10    */
11    public int[] evenOdds(int[] values)
12    {
13       int countEven = 0;
14       int countOdd = 0;
15       for (int i = 0; i < values.length; i++){
16          if (values[i]%2 == 0){
17             countEven++;
18          }
19          else if (values[i]%2 == 1){
20             countOdd++;
21          }
22
23       }
24       int [] values1 = {countEven, countOdd};
25       return values1;
26
27
28    }
29 }
```

Submit

Calling method

Testing method evenOdds

	Arguments	Actual	Expected
pass	[1, 2, 3]	[1, 2]	[1, 2]
pass	[1, 3, 5]	[0, 3]	[0, 3]
pass	[]	[0, 0]	[0, 0]

Score

3/3

SwapTester.java

```java
public class SwapTester
{
   /**
      Swaps two values
      @param array an array of length 2 containing the
      values to be swapped
   */
   public static void trueSwap(int[] array)
   {
      int number = array[0];
      array[0] = array[1];
      array[1] = number;
      int [] array1 = {array[0], array[1]};
   }

   public static void main(String[] args)
   {
      int[] xy = new int[2];
      xy[0] = 3;
      xy[1] = 4;
      trueSwap(xy);
      System.out.println (xy[0] + " " + xy[1]);
      System.out.println("Expected: 4 3");
   }
}
```

Submit

Testing SwapTester.java

```
4 3
Expected: 4 3
```

pass

Score

1/1