## ArrayList "Mini" Starter Lab

Let's do this one in codeHS since this is a "mini" lab! Name the program "ArrayListMiniLab". Do the problems below in the main method. You must have 'import java.util.\*;' at the top of your program.

- 1. Declare and instantiate an ArrayList of Integer objects called numbers.
- 2. Add these values to the empty ArrayList in problem 1 in this order: 1 4 2 6 8 9. System.out.println(numbers); should produce: [1, 4, 2, 6, 8, 9]
- 3. Clear the numbers of all elements. Add these values to the ArrayList numbers in this order at index 0: 9 8 6 2 4 1.

```
System.out.println(numbers); should produce: [1, 4, 2, 6, 8, 9]
```

- 4. Loop through numbers backwards and print: 9, 8, 6, 2, 4, 1 (Make sure there is no comma at the end!)
- 5. Declare and instantiate an ArrayList of String objects called names.
- 6. Add these values to the empty ArrayList in problem 4 in this order:

  Sam, I, Am, Green, Eggs

  System.out.println(names); should produce: [Sam, I, Am, Green, Eggs]
- 7. Loop through names in problem 4 forwards with a For-Each loop to print: Sam, I, Am, Green, Eggs (Make sure there is no comma at the end!)
- 8. Create a new ArrayList<Integer> called values that contains: [2, 3, 5, 1, 7, 9, 11, 12].
- 9. Write a code segment that will change the odd integers in values to be twice their old value. Then print the ArrayList to verify it has been done correctly.
- 10. Write a code segment that will remove any integer in values that is less than 6. **Then print** the ArrayList to verify it has been done correctly.
- 11. Suppose words is an ArrayList<String> and is initially empty.

What would be the contents of words after the following segment is executed? Put your answer in a comment.

```
words.add("I");
words.add("Not");
words.add(1,"Do");
words.add("Green");
words.add("Eggs");
words.add("I");
words.add("Am");
words.add(4,"Like");
words.add("Sam");
```