

Name : _____ Date : _____

ArrayList Worksheet 1

DIRECTIONS : Fill in each blank with the correct answer/output. Assume each statement happens in order and that one statement may affect the next statement.

```
public class Student{
    private String name;
    private int age;

    public Student(String n, int a){
        name = n;
        age = a;
    }

    public String toString(){
        return name + " is " + age + " years old";
    }
}
```

```
ArrayList<Student> rayList = new ArrayList< Student >();
rayList.add(new Student("Sam", 17));
rayList.add(new Student("Sandra", 18));
rayList.add(new Student("Billy", 16));
rayList.add(new Student("Greg", 17));
rayList.add(new Student("Jill", 18));
```

```
System.out.println(rayList.get(0)); // LINE 1
```

```
System.out.println(rayList.get(1)); // LINE 2
```

```
System.out.println(rayList.get(2)); // LINE 3
```

```
System.out.println(rayList.size()); // LINE 4
```

```
System.out.println(rayList.remove(0)); //LINE 5
```

```
System.out.println(rayList); // LINE 6
```

```
System.out.println(rayList.remove(1)); //LINE 7
```

```
System.out.println(rayList); // LINE 8
```

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

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ArrayList Worksheet 2

DIRECTIONS : Fill in each blank with the correct answer/output. Assume each statement happens in order and that one statement may affect the next statement.

```
public class Grade{
    //data not shown

    public Grade(double g){
        //code not shown
    }

    public String getLetter(){ //gets letter grade associated with the numeric grade
        //code not shown
    }

    public String toString(){
        return ""+String.format("%.2f",grade);
    }
}

//test code in a client class
//instantiate an ArrayList of Grade references (objects)

//write the code to load in 8 random Grade references - use a for loop

//write the code to print out each of the Grades in the ArrayList

//write the code to print out each of the 8 Grades as a letter grade
```


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ArrayList Worksheet 4

Directions : Fill in the method below with the appropriate code.

```
1.  
//this method will return the number  
//of Strings in rayList with an odd length  
public static int countOddLength(ArrayList<String> rayList)  
{
```

```
}
```

```
2.  
//this method will remove all Strings in rayList  
//that start with same first letter as firstLetter  
public static void removeStrings(ArrayList<String> rayList,  
                                String firstLetter)  
{
```

```
}
```

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ArrayList Worksheet 5

DIRECTIONS : Fill in each blank with the correct answer/output. Assume each statement happens in order and that one statement may affect the next statement.

```
String s = "abcdefghijklmnop";
ArrayList<String> r = new ArrayList<String>();
r.add("abc");
r.add("cde");
r.set(1,"789");
r.add("xyz");
r.add("123");
Collections.sort(r);
r.remove(2);
```

The first index position in an array is _____ .

```
System.out.print( s.substring(0,1) ); // LINE 2
```

```
System.out.print( s.substring(2,3) ); // LINE 3
```

```
System.out.print( s.substring(5,6) ); // LINE 4
```

```
System.out.print( r.get(0) ); // LINE 5
```

```
System.out.print(r.get(0).substring(0,1)); // LINE 6
```

```
System.out.print( r.get(2) ); // LINE 7
```

```
System.out.print( r.indexOf("123")); // LINE 8
```

```
System.out.print( r.contains("abc")); // LINE 9
```

```
System.out.print( r.isEmpty()); // LINE 10
```

```
r.set(1, "\\");
System.out.print(r); // LINE 11
```

```
r.remove(1);
System.out.print(r); // LINE 12
```

```
r.add("one");
System.out.print(r); // LINE 13
```

```
r.add(0,"five");
System.out.print(r); // LINE 14
```

```
r.clear();
System.out.print(r); // LINE 15
```

- | | |
|-----|-------|
| 1. | _____ |
| 2. | _____ |
| 3. | _____ |
| 4. | _____ |
| 5. | _____ |
| 6. | _____ |
| 7. | _____ |
| 8. | _____ |
| 9. | _____ |
| 10. | _____ |
| 11. | _____ |
| 12. | _____ |
| 13. | _____ |
| 14. | _____ |
| 15. | _____ |