

Quiz: ArrayLists and Parameters

Thank you. Your responses have been partially graded, and your preliminary results are shown below. Some of the questions are too complex to be automatically graded. Your instructor will review your responses and assign you a final score.

Score Summary

(Click on question number to jump to question.)		points earned	points possible
Question 1	correct	1	1
Question 2	correct	1	1
Question 3	correct	1	1
Question 4	correct	1	1
Question 5	correct	1	1
Question 6	correct	1	1
Question 7	correct	1	1
Question 8	correct	1	1
Question 9	correct	1	1
Question 10	correct	1	1
Question 11	correct	1	1
Question 12	correct	1	1
Question 13	correct	1	1
Question 14	correct	1	1
Question 15	correct	1	1
Question 16	pending	---	10
Question 17	correct	0	0
Score so far: (60%)		15	25
Maximum score after instructor review: (100%)		25	25

1. What is output by the code below?

```
List<String> list = new ArrayList<String>();
list.add(0,"one");
list.add(0,"two");
list.add(0,"three");
System.out.println(list);
```

- [one, two, three]
- [three, two, one] (correct answer, your response)
- [one]
- [three]
- one, two, three

Points earned: 1 out of 1

2. What is output by the code below?

```
ArrayList<Double> list = new ArrayList<Double>();  
list.add(2.5);  
list.add(5.3);  
list.add(9.0);  
System.out.println(list);
```

- [2.5]
- [9.0, 5.3, 2.5]
- [9.0]
- [2.5, 5.3, 9.0] (correct answer, your response)
- 9.0

Points earned: 1 out of 1

3. Which of the following ArrayList methods returns the number of elements currently stored in the ArrayList?

- count()
- length
- length()
- size() (correct answer, your response)
- clear()

Points earned: 1 out of 1

4. What is output by the code below?

```
List<String> badList = new ArrayList<String>();  
badList.add(0,"one");  
badList.add("two");  
badList.set(0,"three");  
badList.add(1,"four");  
badList.set(1,"five");  
out.println( badList.get(0) );
```

- one
- two
- three (correct answer, your response)
- four
- five

Points earned: 1 out of 1

5. What is output by the code below?

```
ArrayList<Integer> a;  
a = new ArrayList<Integer>();
```

```
int[ ] b = {1,2,3,4,5};  
for( int v : b)  
a.add( v );
```

```
for(int v : a)  
v++;  
System.out.println(a);
```

- [2, 3, 4, 5, 6]
- [6, 6, 6, 6, 6]
- [1, 2, 3, 4, 5] (correct answer, your response)
- [5, 4, 3, 2, 1]

Points earned: 1 out of 1

6. What is output by the code segment below?

```
ArrayList<Integer> b = new ArrayList<Integer>();  
b.add(5);  
b.add(3);  
b.add(0, 7);  
b.add(0, 8);  
b.add(6);  
b.set(0, 2);  
b.set(2, 4);  
b.remove( 2 );  
b.remove( 1 );  
System.out.println( b );
```

- [3, 4, 6]
- [5, 3, 6]
- [2, 3, 6] (correct answer, your response)
- [4, 3, 6]

Points earned: 1 out of 1

7. What is output by the code below?

```
ArrayList<Integer> list = new ArrayList<Integer>();  
list.add(5);  
list.add(8);  
out.println(list);
```

- [5, 8] (correct answer, your response)
- [8, 5]
- 5 8
- 8 5
- 13

Points earned: 1 out of 1

8. What is output by the code below?

```
List<String> list = new ArrayList<String>();  
list.add("three");  
list.add("two");  
list.add("one");  
System.out.println(list);
```

- [one, two, three]
- [three, two, one] (correct answer, your response)
- [one]
- [three]
- two, one

Points earned: 1 out of 1

9. What is output by the code below?

```
List<String> list = new ArrayList<String>();  
list.add("11");  
list.add("2");  
list.add("25");  
list.add("3");  
Collections.sort(list);  
System.out.println(list);
```

- [2, 3, 11, 25]
- [11, 25, 2, 3]
- [11, 2, 25, 3] (correct answer, your response)
- [3, 11, 2, 25]

- [11, 3, 2, 25]

Points earned: 1 out of 1

10. What is output by the code below?

```
List<Integer> list = new ArrayList<Integer>();  
list.add(8);  
list.add(new Integer(2));  
list.add(5);  
list.add(6);  
list.add(new Integer(9));  
Collections.sort(list);  
System.out.println(list);
```

- [8, 2, 5, 6, 9]
- [2, 5, 6, 8, 9] (correct answer, your response)
- [2, 5, 6, 9, 8]
- [2, 8, 5, 6, 9]
- [8, 2, 9, 6, 5]

Points earned: 1 out of 1

11. Which of the following ArrayList methods will change the value of a location in an ArrayList?

- add()
- remove()
- set() (correct answer, your response)
- get()
- clear()

Points earned: 1 out of 1

12. What is output by the code below?

```
List<String> bigList = new ArrayList<String>();  
bigList.add(0,"one");  
bigList.add("two");  
bigList.add(0,"three");  
bigList.add("four");  
bigList.add(0,"five");  
bigList.set(2,"six");  
bigList.set(3,"seven");  
out.println( bigList.indexOf("three") );
```

- 2
- 1 (correct answer, your response)
- 0
- 4
- 5

Points earned: 1 out of 1

13. What is output by the code below?

```
List<String> list = new ArrayList<String>();  
list.add("one");  
list.add(0,"two");  
list.set(0,"three");  
list.add(1,"four");  
list.set(2,"five");  
System.out.println(list);
```

- [one, two, three]
- [three, four, five] (correct answer, your response)
- [one, two, five]
- [one, two, four]
- [three, two, five]

Points earned: 1 out of 1

14. What is output by the code below?

```
String n = "abc";  
String o = n;  
o = null;  
out.println(n);
```

- null
- abc (correct answer, your response)
- def
- abcdef

Points earned: 1 out of 1

15. What is output by the code below?

```
int[ ] bRay = new int[3];
```

```
int[ ] cRay = bRay;
cRay[0] = 7;
out.println(bRay[0]);
```

- 3
- 0
- 7 (correct answer, your response)
- 8

Points earned: 1 out of 1

16. FRQ String Analyzer

DIRECTIONS : Complete method **stringRemoverMachine()** below.

The following StringAnalyzer class will be used to analyze Strings. Write the method **void stringRemoverMachine()** as started below. stringRemoverMachine() will remove all Strings from the list that have more consonants than vowels. You **must** call the method hasMoreVowelsThanConsonants.

```
class StringAnalyzer
{

    /**
     * will receive a String parameter and determine if that parameter has more vowels than
    consonants
     * @param word contains at least 1 character
     * Precondition : word.length >= 1
     * @return true if word has more vowels than consonants
     * @return false if word has more consonants than vowels
     */
    public static boolean hasMoreVowelsThanConsonants( String word )
    {
        /* code not shown */
    }

    /**
     * will remove all Strings that have more consonants than vowels
     * @param words
     * Precondition : words contains at least 1 String
     * Postcondition : words will only contain Strings with more vowels than consonants
     */

    public static void stringRemoverMachine( List<String> words )
```

Your response:

```
public static void stringRemoverMachine( List<String> words ) {  
    if( words.size() > 0 )  
        for( int i = 0; i < words.size(); i++ )  
            if( !( hasMoreVowelsThanConsonants( words.get( i ) ) ) )  
                words.remove( i );  
}
```

Points earned: 0 out of 10 (Instructor review pending)

17. EXTRA CREDIT

Never gonna

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- give you up
- let you down
- run around and desert you
- make you cry
- say goodbye
- tell a lie and hurt you
- all of the above (correct answer, your response)

Feedback: <https://en.wikipedia.org/wiki/Rickrolling>

Points earned: 0 out of 0