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Not yet answered

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Java array is a collection of \_\_\_\_\_.

- ☐ a. different type of element
- ☐ b. heterogeneous data
- ☒ c. the same data
- ☒ d. similar type of elements

**Question 2**

Not yet answered

Marked out of 1.00

We can calculate the length of an array using \_\_\_\_\_.

- ☐ a. sizeof(array)
- ☐ b. array.len
- ☒ c. array.length
- ☐ d. array.sizeof()

[Clear my choice](#)**Question 3**

Not yet answered

Marked out of 1.00

What is returned from arr[3] if arr={6, 3, 1, 2}?

- ☒ a. 2
- ☐ b. 1
- ☐ c. 3
- ☐ d. 6

[Clear my choice](#)**Question 4**

Not yet answered

Marked out of 1.00

Which implementation of Iterator can traverse a collection back and forth?

- ☐ a. Iterator
- ☐ b. SetIterator
- ☐ c. MapIterator
- ☒ d. ListIterator

[Clear my choice](#)**Question 5**

Not yet answered

Marked out of 1.00

Collection \_\_\_\_\_

- ☐ a. implements the Serializable interface
- ☐ b. inherits the Collections class
- ☒ c. inherits the Iterable interface
- ☐ d. implements the Traversable interface

[Clear my choice](#)

## Question 6

Not yet answered

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List, Set and Queue \_\_\_\_\_ Collection.

- ☒ a. inherit
- ☐ b. extends
- ☐ c. inheritance
- ☐ d. implement

Clear my choice

## Question 7

Not yet answered

Marked out of 1.00

Which of the following is an outdated class but still in use?

- ☐ a. ArrayList
- ☒ b. Vector
- ☒ c. Hashtable
- ☐ d. HashMap.

## Question 8

Not yet answered

Marked out of 1.00

Which class stores elements in ascending order?

- ☐ a. HashMap
- ☐ b. HashSet
- ☒ c. TreeSet
- ☐ d. ArrayList

Clear my choice

## Question 9

Not yet answered

Marked out of 1.00

What number is in matrix[2][2]?

```
1 int[][] matrix = {{1, 2, 3, 4},
2                   {5, 6, 7, 8},
3                   {9, 10, 11, 12},
4                   {13, 14, 15, 16}
5                   };
```

- ☐ a. 6
- ☒ b. 11
- ☐ c. 10
- ☐ d. 7

Clear my choice

## Question 10

Not yet answered

Marked out of 1.00

Consider the following field arr and method checkArray. Which of the following best describes what checkArray returns?

```
1 private int[] arr = {1, 3, 5, 7, 11, 9, 13};
2 // precondition: arr.length != 0
3 public int checkArray()
4 {
5     int loc = arr.length / 2;
6     for (int k = 0; k < arr.length; k++)
7     {
8         if (arr[k] > arr[loc])
9         {
10             loc = k;
11         }
12     }
13     return loc;
14 }
```

- ☐ a. 13
- ☒ b. 7
- ☐ c. 4
- ☐ d. 3

[Clear my choice](#)

## Question 11

Not yet answered

Marked out of 1.00

What is the output of the following code fragment?

```
1 public class Main {
2
3     public static void main(String args[]) {
4
5         int[] items = {2, 7, 3, 5, 8, 9};
6         int funny = items[0];
7         for (int i = 0; i < items.length; i++) {
8             if (items[i] > funny) {
9                 funny = items[i];
10            }
11        }
12        System.out.print(funny);
13    }
14 }
```

- ☐ a. 41
- ☒ b. 9
- ☐ c. 2
- ☐ d. 2 7 3 5 8 9

[Clear my choice](#)

## Question 12

Not yet answered

Marked out of 1.00

Consider the following field arr and method checkArray. Which of the following best describes what checkArray returns?

```

1 private int[] arr = {1, 3, 5, 7, 11, 9, 13};
2 // precondition: arr.length != 0
3 public int checkArray()
4 {
5     int loc = arr.length / 2;
6     for (int k = 0; k < arr.length; k++)
7     {
8         if (arr[k] > arr[loc])
9         {
10             loc = k;
11         }
12     }
13     return loc;
14 }

```

- ☒ a. Returns the index of the largest value in array arr
- ☐ b. Returns the index of the first element in array arr whose value is greater than arr[loc].
- ☐ c. Returns the largest value in array arr.
- ☐ d. Returns the index of the last element in array arr whose value is greater than arr[loc].

Clear my choice

## Question 13

Not yet answered

Marked out of 1.00

What are the values in a after mult(3) executes?

```

1 private int[] a = {1, 3, -5, -2};
2 public void mult(int amt)
3 {
4     int i = 0;
5     while (i < a.length)
6     {
7         a[i] = a[i++] * amt;
8     } // end while
9 } // end method

```

- ☐ a. {1, 3, -5, -2}
- ☒ b. The code will never stop executing due to an infinite loop
- ☐ c. {2, 6, -10, -4}
- ☐ d. {3, 9, -15, -6}

Clear my choice

## Question 14

Not yet answered

Marked out of 1.00

Which of the following statements is a valid conclusion. Assume that variable b is an array of k integers and that the following is true: b[0] != b[i] for all i from 1 to k-1

- ☐ a. Array b is sorted
- ☐ b. Array b contains no duplicates
- ☐ c. Array b is not sorted
- ☒ d. The value in b[0] does not occur anywhere else in the array

Clear my choice

## Question 15

Not yet  
answeredMarked out of  
1.00

What are the values in a after mult(2) executes?

```
1 private int[ ] a = {1, 3, -5, -2};
2 public void mult(int amt)
3 {
4     int i = 0;
5     while (i < a.length)
6     {
7         a[i] = a[i] * amt;
8     } // end while
9 } // end method
```

- ☐ a. {3, 9, -15, -6}
- ☐ b. {2, 6, -10, -4}
- ☐ c. {1, 3, -5, -2}
- ☒ d. The code will never stop executing due to an infinite loop

Clear my choice

## Question 16

Not yet  
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1.00

What is the output of the following code?

```
1 import java.util.Collections;
2 import java.util.Iterator;
3 import java.util.LinkedList;
4
5 public class Main {
6
7     public static void main(String args[]) {
8         LinkedList<Integer> lang = new LinkedList<Integer>();
9         lang.add(8);
10        lang.add(2);
11        lang.add(1);
12        lang.add(6);
13        Iterator it = lang.iterator();
14        Collections.reverse(lang);
15        while (it.hasNext()) {
16            System.out.print(it.next() + " ");
17        }
18    }
19 }
```

- ☒ a. 6 1 2 8
- ☐ b. 8 2 1 6
- ☐ c. 1 2 6 8
- ☐ d. 8 6 2 1

Clear my choice

## Question 17

Not yet answered

Marked out of 1.00

What is printed as a result of executing the following code segment?

```

1  import java.util.List;
2  import java.util.ArrayList;
3
4  public class Main {
5
6      public static void main(String args[]) {
7          List<Integer> aList = new ArrayList<>();
8          aList.add(1);
9          aList.add(2);
10         aList.add(1, 5);
11         aList.set(1, 4);
12         aList.add(6);
13         aList.add(3);
14         System.out.println(aList);
15     }
16 }
17

```

- ☐ a. [1, 2, 3, 4, 5, 6]  
☒ b. [1, 4, 2, 6, 3]  
☐ c. Compiler error  
☐ d. [1, 2, 5, 4, 6, 3]

Clear my choice

## Question 18

Not yet answered

Marked out of 1.00

Which of the following best describes the behavior of process1 and process2 (shown below)?

```

1  public static List<Integer> process1(int n)
2  {
3      List<Integer> someList = new ArrayList<Integer>();
4      for (int k = 0; k < n; k++)
5          someList.add(k);
6      return someList;
7  }
8
9  public static List<Integer> process2(int n)
10 {
11     List<Integer> someList = new ArrayList<Integer>();
12     for (int k = 0; k < n; k++)
13         someList.add(k, k);
14     return someList;
15 }

```

- ☒ a. Both methods produce the same result and take the same amount of time.  
☐ b. Both methods produce the same result, and process1 is faster than process2.  
☐ c. The two methods produce different results, and process1 is faster than process2.  
☐ d. The two methods produce different results, and process2 is faster than process1.

Clear my choice

## Question 19

Not yet  
answeredMarked out of  
1.00

What is printed as a result of executing the following code segment?

```
1  import java.util.List;
2  import java.util.ArrayList;
3
4  public class Main {
5
6      public static void main(String args[]) {
7          List<Integer> aList = new ArrayList<Integer>();
8          aList.add(new Integer(1));
9          aList.add(new Integer(2));
10         aList.add(1, new Integer(5));
11         aList.set(1, new Integer(4));
12         aList.add(new Integer(6));
13         aList.add(new Integer(3));
14         System.out.println(aList);
15     }
16 }
17
```

- ☒ a. [1, 4, 2, 6, 3]
- ☐ b. [1, 2, 5, 4, 6, 3]
- ☐ c. [1, 2, 3, 4, 5, 6]
- ☐ d. Compiler error

Clear my choice

## Question 20

Not yet  
answeredMarked out of  
1.00

What is printed as a result of executing the following code segment?

```
1  import java.util.List;
2  import java.util.ArrayList;
3
4  public class Main {
5
6      public static void main(String args[]) {
7          List<Integer> list1 = new ArrayList<Integer>();
8          list1.add(new Integer(1));
9          list1.add(new Integer(2));
10         list1.add(new Integer(3));
11         list1.set(2, new Integer(4));
12         list1.add(2, new Integer(5));
13         list1.add(new Integer(6));
14         System.out.println(list1);
15     }
16 }
```

- ☐ a. [1, 2, 4, 5, 6]
- ☒ b. [1, 2, 5, 4, 6]
- ☐ c. [1, 2, 3, 4, 5]
- ☐ d. [1, 5, 2, 4, 6]

Clear my choice

## Question 21

Not yet  
answeredMarked out of  
1.00

What is the output of the following code?

```
1  import java.util.Arrays;
2
3  public class Main {
4
5      public static void main(String args[]) {
6          int tab[] = new int[6];
7          for (int i = 6; i > 0; i--) {
8              tab[6 - i] = i;
9          }
10         Arrays.fill(tab, 1, 5, 0);
11
12         for (int i = 0; i < 6; i++) {
13             System.out.print(tab[i]);
14         }
15     }
16 }
17
```

- ☐ a. 654321
- ☐ b. 611110
- ☒ c. 600001
- ☐ d. 543210

Clear my choice

## Question 22

Not yet  
answeredMarked out of  
1.00

What is printed as a result of executing the following code segment?

```
1  import java.util.Set;
2  import java.util.TreeSet;
3
4  public class Main {
5
6      public static void main(String args[]) {
7          Set<Integer> aSet = new TreeSet<>();
8          aSet.add(1);
9          aSet.add(2);
10         aSet.add(1);
11         aSet.add(4);
12         aSet.add(6);
13         aSet.add(3);
14         aSet.remove(1);
15         System.out.println(aSet);
16     }
17 }
18
```

- ☐ a. Compiler error
- ☒ b. [2, 3, 4, 6]
- ☐ c. [2, 1, 4, 6, 3]
- ☐ d. [1, 2, 3, 4, 6]

Clear my choice



Question **23**Not yet  
answeredMarked out of  
1.00

What is printed as a result of executing the following code segment?

```
1  import java.util.TreeSet;  
2  import java.util.Iterator;  
3  
4  public class Main {  
5  
6      public static void main(String args[]) {  
7          TreeSet<Integer> aSet = new TreeSet<>();  
8          aSet.add(10);  
9          aSet.add(20);  
10         aSet.add(10);  
11         aSet.add(40);  
12         aSet.add(60);  
13         aSet.add(30);  
14         aSet.remove(10);  
15  
16         Iterator itor = aSet.descendingIterator();  
17         while (itor.hasNext()) {  
18             System.out.print(itor.next() + " ");  
19         }  
20     }
```

- ☐ a. 20 30 40 60
- ☒ b. 60 40 30 20
- ☐ c. 20 10 40 60 30
- ☐ d. Compiler error

Clear my choice

Question **24**Not yet  
answeredMarked out of  
1.00

Iterator and ListIterator can iterate through \_\_\_\_\_

- ☐ a. Set
- ☒ b. List
- ☐ c. Map
- ☐ d. Collections

Clear my choice

Question **25**Not yet  
answeredMarked out of  
1.00

Which of the following interfaces maintains the order in which the elements are inserted?

- ☒ a. List
- ☐ b. Set
- ☐ c. Map
- ☐ d. ArrayList

Clear my choice

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