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**Time taken** 4 mins 36 secs

**Grade** 8.00 out of 10.00 (80%)

Question **1**

Incorrect

Mark 0.00 out of 1.00

What is the default initial capacity of an ArrayList in Java?

- ☒ a. 0
- ☐ b. 10
- ☐ c. 32
- ☐ d. 16



Your answer is incorrect.

The correct answer is:

10

Question **2**

Correct

Mark 1.00 out of 1.00

Which of the following methods can be used to add an element to the end of an ArrayList in Java?

- ☐ a. addLast(E element)
- ☐ b. addFirst(E element)
- ☒ c. add(E element)
- ☐ d. add(int index, E element)



Your answer is correct.

The correct answer is:

add(E element)



Question **3**

Incorrect

Mark 0.00 out of 1.00

How do you remove an element from an ArrayList at a specific index in Java?

- ☐ a. removeAll(Collection c)
- ☒ b. remove(int index)
- ☐ c. removeElement(E element)
- ☐ d. removeFirst()



Your answer is incorrect.

The correct answer is:

removeElement(E element)

Question **4**

Correct

Mark 1.00 out of 1.00

What is the difference between the get() and set() methods in ArrayList?

- ☐ a. The get() method retrieves an element, while the set() method adds an element.
- ☐ b. The get() method adds an element, while the set() method retrieves an element
- ☐ c. The get() method replaces an element, while the set() method retrieves an element.
- ☒ d. The get() method retrieves an element, while the set() method replaces an element.



Your answer is correct.

The correct answer is:

The get() method retrieves an element, while the set() method replaces an element.



Question **5**

Correct

Mark 1.00 out of 1.00

What is the default initial capacity of an ArrayList in Java?

- ☐ a. An exception is thrown.
- ☐ b. The element is added at a random position in the ArrayList.
- ☒ c. The ArrayList automatically increases its capacity.
- ☐ d. The element is added to the end of the ArrayList.



Your answer is correct.

The correct answer is:

The ArrayList automatically increases its capacity.

Question **6**

Correct

Mark 1.00 out of 1.00

Which of the following methods is used to sort an ArrayList in Java?

- ☐ a. mergeSort()
- ☒ b. sort()
- ☐ c. quickSort()
- ☐ d. bubbleSort()



Your answer is correct.

The correct answer is:

sort()



Question **7**

Correct

Mark 1.00 out of 1.00

Can an ArrayList contain null elements in Java?

- ☐ a. It depends on the implementation.
- ☐ b. No, it cannot.
- ☒ c. Yes, it can.
- ☐ d. It depends on the size of the ArrayList.



Your answer is correct.

The correct answer is:

Yes, it can.

Question **8**

Correct

Mark 1.00 out of 1.00

What is the time complexity of adding an element to the end of an ArrayList in Java?

- ☒ a.  $O(1)$
- ☐ b.  $O(\text{🗨️})$
- ☐ c.  $O(\log n)$
- ☐ d.  $O(n \log n)$



Your answer is correct.

The correct answer is:

$O(1)$



Question **9**

Correct

Mark 1.00 out of 1.00

Which of the following methods is used to remove all elements from an ArrayList in Java?

- ☐ a. deleteAll()
- ☒ b. clear()
- ☐ c. removeAll()
- ☐ d. remove()



Your answer is correct.

The correct answer is:

clear()

Question **10**

Correct

Mark 1.00 out of 1.00

Which of the following statements is true about ArrayList in Java?

- ☒ a. ArrayList is a resizable array implementation.
- ☐ b. ArrayList does not allow duplicate elements.
- ☐ c. ArrayList can only store primitive data types.
- ☐ d. ArrayList is a synchronized class.



Your answer is correct.

The correct answer is:

ArrayList is a resizable array implementation.

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