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State	Finished
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Time taken	8 mins 19 secs
Grade	**7.00** out of 10.00 (**70**%)

Question **1**

Correct

Mark 1.00 out of 1.00

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

○ a. 0

○ b. 16

○ c. 32

◉ d. 10 ✔

Your answer is correct.

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. add(int index, E element)

◉ b. add(E element) ✔

○ c. addLast(E element)

○ d. addFirst(E element)

Your answer is correct.

The correct answer is:
add(E element)

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

  ◉ a. remove(int index)   ✖

  ○ b. removeAll(Collection c)

  ○ c. removeElement(E element)

  ○ d. removeFirst()

Your answer is incorrect.

The correct answer is:
removeElement(E element)

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

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

  ○ b. The get() method adds an element, while the set() method retrieves an element

  ○ c. The get() method retrieves an element, while the set() method adds an element.

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

Your answer is correct.

The correct answer is:
The get() method retrieves an element, while the set() method replaces an element.

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

○ a. The ArrayList automatically increases its capacity.

○ b. An exception is thrown.

○ c. The element is added at a random position in the ArrayList.

◉ d. The element is added to the end of the ArrayList.   ✘

Your answer is incorrect.

The correct answer is:
The ArrayList automatically increases its capacity.

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

○ a. quickSort()

◉ b. sort()   ✔

○ c. mergeSort()

○ d. bubbleSort()

Your answer is correct.

The correct answer is:

sort()

Can an ArrayList contain null elements in Java?

○ a. It depends on the size of the ArrayList.

◉ b. Yes, it can. ✔

○ c. It depends on the implementation.

○ d. No, it cannot.

Your answer is correct.

The correct answer is:

Yes, it can.

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

○ a. O(log n)

○ b. O(n log n)

◉ c. O(1) ✔

○ d. O👎

Your answer is correct.

The correct answer is:

O(1)

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

- ○ a. removeAll()

- ◉ b. clear() ✔

- ○ c. deleteAll()

- ○ d. remove()

Your answer is correct.

The correct answer is:

clear()

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

- ○ a. ArrayList is a synchronized class.

- ○ b. ArrayList is a resizable array implementation.

- ○ c. ArrayList can only store primitive data types.

- ○ d. ArrayList does not allow duplicate elements.

Your answer is incorrect.

The correct answer is:

ArrayList is a resizable array implementation.

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