Started on	Tuesday, 12 March 2024, 9:18 AM
State	Finished
Completed on	Tuesday, 12 March 2024, 9:22 AM
Time taken	3 mins 44 secs
Grade	**9.00** out of 10.00 (**90**%)

Question **1**

Correct

Mark 1.00 out of 1.00

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

○ a. 16

○ b. 0

◉ c. 10 ✔

○ d. 32

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. addFirst(E element)

○ c. addLast(E element)

◉ d. add(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. remove(int index)   ✗

○ b. removeFirst()

○ c. removeElement(E element)

○ d. removeAll(Collection c)

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 adds an element, while the set() method retrieves an element

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

◉ c. The get() method retrieves an element, while the set() method replaces 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 element is added at a random position in the ArrayList.

○ b. The element is added to the end of the ArrayList.

◉ c. The ArrayList automatically increases its capacity. ✔

○ d. An exception is thrown.

Your answer is correct.

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

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

◉ a. sort() ✔

○ b. bubbleSort()

○ c. mergeSort()

○ d. quickSort()

Your answer is correct.

The correct answer is:

sort()

Can an ArrayList contain null elements in Java?

- a. Yes, it can.

- b. It depends on the implementation.

- c. No, it cannot.

- d. It depends on the size of the ArrayList.

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(n log n)

- b. O(log n)

- c. O👎

- d. O(1)

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. deleteAll()

○ b. remove()

○ c. removeAll()

◉ d. clear() ✔

Your answer is correct.

The correct answer is:

clear()

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

○ a. ArrayList can only store primitive data types.

○ b. ArrayList does not allow duplicate elements.

◉ c. ArrayList is a resizable array implementation. ✔

○ d. ArrayList is a synchronized class.

Your answer is correct.

The correct answer is:

ArrayList is a resizable array implementation.

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Basic (New) ►