REC-CIS



CS23333-Object Oriented Programming Using Java-2023

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Quiz navigation



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Started Thursday, 7 November 2024, 8:20 AM

Completed Thursday, 7 November 2024, 8:49 AM

Duration 28 mins 53 secs
```

Question 1 Correct Marked out of 1.00 Flag question

```
Given an ArrayList, the task is to get the first and last element of the ArrayList in Java.

Input: ArrayList = [1, 2, 3, 4]

Output: First = 1, Last = 4

Input: ArrayList = [12, 23, 34, 45, 57, 67, 89]

Output: First = 12, Last = 89
```

Approach:

- 1. Get the ArrayList with elements.
- 2. Get the first element of ArrayList using the get(index) method by passing index = 0.
- 3. Get the last element of ArrayList using the get(index) method by passing index = size 1.

```
Answer: (penalty regime: 0 %)
```

Question 2 Correct Marked out of 1.00 Fr Flag question

The given Java program is based on the ArrayList methods and its usage. The Java program is partially filled. Your task is to fill in the incomplete statements to get the desired output.

list.set();

list.indexOf());

list.lastIndexOf())

list.contains()

list.add();

24

list.remove();

The above methods are used for the below Java program.

// Getting the index of last occurrence of 100

Answer: (penalty regime: 0 %)

```
Reset answer

1 | import java.util.ArrayList;
2 import java.util.Scanner;
3
4 | public class Prog {
5 | public static void main(String[] args) {
7 | Scanner sc = new Scanner(System.in);
8 | int n = sc.nextInt();
9 | ArrayList<Integer> list = new ArrayList<Integer>();
11 | for (int i = 0; i < n; i++) | list.add(sc.nextInt());
14 | // Printing initial value of ArrayList
15 | System.out.println("ArrayList: " + list);
17 | // Replacing the element at index 1 with 100 |
19 | list.set(i, 100); // Fill in here
20 | // Getting the index of first occurrence of 100 |
21 | System.out.println("Index of 100 = " + list.indexOf(100)); // Fill in here
21 | System.out.println("Index of 100 = " + list.indexOf(100)); // Fill in here
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                  System.out.println("LastIndex of 100 = " + list.lastIndexOf(100)); // Fill in here
                 // Check whether 200 is in the list or not
System.out.println(""+ list.contains(200)); // Fill in here; Output: false
                 System.out.println("Size Of ArrayList = " + list.size()); // Fill in here
           // Inserting 500 at index 1
list.add(1, 500); // Fill in here
           // Removing an element from position 3
list.remove(3); // Fill in here
                 // Print final ArrayList
System.out.print("ArrayList: " + list);
                sc.close();
45
```

```
Test Input Expected
                     ArrayList: [1, 2, 3, 100, 5]
Index of 100 = 1
LastIndex of 100 = 3
                                                               ArrayList: [1, 2, 3, 100, 5]
Index of 100 = 1
LastIndex of 100 = 3
                     false
Size Of ArrayList = 5
                                                                false
Size Of ArrayList = 5
                     ArrayList: [1, 500, 100, 100, 5] ArrayList: [1, 500, 100, 100, 5]
Passed all tests!
```

Question ${\bf 3}$ Correct Marked out of 1.00 ▼ Flag question

```
Write a Java program to reverse elements in an array list.
```

Sample input and Output: Red Green Orange

White

```
Black
Sample output
List before reversing :

[Red, Green, Orange, White, Black]

List after reversing :
```

[Black, White, Orange, Green, Red] Answer: (penalty regime: 0 %)

```
1 * import java.util.ArrayList;
2 import java.util.Collections;
3 import java.util.Scanner;
            public class ReverseArrayList {
   public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        ArrayList<String> colors = new ArrayList<>();
   10
11
                       int n = scanner.nextInt();
scanner.nextLine();
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                 System.out.println("List before reversing :");
System.out.println(colors);
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27
                Collections.reverse(colors);
                        System.out.println("List after reversing :");
System.out.println(colors);
                        scanner.close();
   28
29
30
```

Test	Input	Expected	Got
1	5 Red Green Orange White Black	List before reversing : [Red, Green, Orange, White, Black] List after reversing : [Black, White, Orange, Green, Red]	List before reversing: [Red, Green, Orange, White, Black] List after reversing: [Black, White, Orange, Green, Red]
2	4 CSE AIML AIDS CYBER	List before reversing : [CSE, AIML, AIDS, CYBER] List after reversing : [CYBER, AIDS, AIML, CSE]	List before reversing : [CSE, AIML, AIDS, CYBER] List after reversing : [CYBER, AIDS, AIML, CSE]

Passed all tests!

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