REC-CIS

### CS23333-Object Oriented Programming Using Java-2023

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```
Status Finished
Started Thursday, 7 November 2024, 9:25 AM
Completed Thursday, 7 November 2024, 9:44 AM
Duration 18 mins 52 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 %)
```

```
import java.util.ArrayList;
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        ArrayListCInteger> arrayList = new ArrayList</();
        int n = scanner.nextInt();
        for (int i = 0; i < n; i++) {
            arrayList.add(scanner.nextInt());
        }
        System.out.println("ArrayList: "+arrayList);
        printFirstAndLast(arrayList);
        scanner.close();
    }
}

public static void printFirstAndLast(ArrayList<Integer> arrayList) {
    if (arrayList.isEmpty()) {
        System.out.println("The ArrayList is empty.");
    } else {
        int first = arrayList.get(0);
        int list = arrayList.get(arrayList.size() - 1);
        System.out.println("First : " + first + ", Last : " + last);
    }
}

// ArrayList.integer>
// ArrayList.integer> arrayList.integer> arrayList) {
    if (arrayList.isEmpty()) {
        System.out.println("First : " + first + ", Last : " + last);
    }
}

// ArrayList.integer>
```

1	Гest	Input	Expected	Got
1		6 30	ArrayList: [30, 20, 40, 50, 10, 80] First : 30, Last : 80	ArrayList: [30, 20, 40, 50, 10, 80] First : 30, Last : 80
		20	F11'St . 30, Last . 00	FILSE . 50, Last . 60
		40 50		
		10 80		
2		4	ArrayList: [5, 15, 25, 35]	ArrayList: [5, 15, 25, 35]
2		5	First : 5, Last : 35	First : 5, Last : 35
		15 25		
		35		

## Question **2**Correct Marked out of 1.00

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.lastIndexOf())

list.contains()

list.size());

list.add(); list.remove();

The above methods are used for the below Java program.

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
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:

// Print ArrayList size
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();
}

sc.close();
}
```

Question **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:
```

Answer: (penalty regime: 0 %)

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

1 | import java.util.AnrayList;
2 import java.util.Scanner;
4
5 | public class ReverseArrayList {
6 | public static void main(String[] args) {
7 | Scanner scanner = new Scanner(System.in);
8 | ArrayListcString> colors = new ArrayList<>();
9 | int n = scanner.nextInt();
11 | scanner.nextLine();
12 | int | for (int i = 0; i < n; i++) {
14 | colors.add(scanner.nextLine());
15 | }
16 | System.out.println("List before reversing :");
17 | System.out.println(colors);
18 | System.out.println("List after reversing :");
19 | Collections.reverse(colors);
20 | System.out.println("List after reversing :");
21 | System.out.println(colors);
22 | System.out.println(colors);
23 | System.out.println(colors);
24 | scanner.close();
25 | scanner.close();
27 | }
28 | 29
```

Finish review