**REC-CIS** 

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

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Status Finished Started Thursday, 7 November 2024, 9:07 PM Completed Thursday, 7 November 2024, 9:29 PM **Duration** 21 mins 21 secs

Question 1 Correct Marked out of 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 = 8

- 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 %)

```
1 * import java.util.*;
2 * public class prog{
             public static void main(String args[]){
                   Scanner sc=new Scanner(System.in);
                   int n=sc.nextInt();
sc.nextLine();
                    ArrayList<Integer> al= new ArrayList<Integer>();
                    ArrayListIntegers al= new ArrayListInte
for(int i=0;i<n;i++){
   String input = sc.nextLine();
   int number = Integer.parseInt(input);</pre>
10
11
12
                         al.add(number);
                   System.out.println("ArrayList: "+a1);
System.out.println("First : "+a1.get(0)+", Last : "+a1.get(a1.size()-1));
13
14
15
16
17
```

Test	Input	Expected	Got
1	6 30 20 40 50 10 80	ArrayList: [30, 20, 40, 50, 10, 80] First : 30, Last : 80	ArrayList: [30, 20, 40, 50, 10, 80] First : 30, Last : 80
2	4 5 15 25 35	ArrayList: [5, 15, 25, 35] First : 5, Last : 35	ArrayList: [5, 15, 25, 35] First : 5, Last : 35

Passed all tests!

Question 2 Marked out of

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.size());

The above methods are used for the below Java program.

Answer: (penalty regime: 0 %)

Reset answer

```
1 import java.util.ArrayList;
    import java.util.Scanner;
    class prog {
    public static void main(String[] args)
     Scanner sc= new Scanner(System.in);
     int n = sc.nextInt();
10
11
    ArrayList<Integer> list = new ArrayList<Integer>();
     for(int i = 0; i<n;i++)</pre>
    list.add(sc.nextInt());
16 // printing initial value ArrayList
```

```
System.out.println("ArrayList: " + list);
18
19
        //Replacing the element at index 1 with 100
20
21
      list.set(1,100);
      //Getting the index of first occurrence of 100
System.out.println("Index of 100 = "+ list.indexOf(100));
22
23
24
      //Getting the index of last occurrence of 100
System.out.println("LastIndex of 100 = "+ list.lastIndexOf(100));
// Check whether 200 is in the list or not
System.out.println(list.contains(200)); //Output : false
26
27
28
       // Print ArrayList size
System.out.println("Size Of ArrayList = "+list.size());
//Inserting 500 at index 1
list.add(1,500);  // code
29
30
31
                                                                                   // code here
33
        //Removing an element from position 3
       System.out.print("ArrayList: " + list);
}
34
                                                                              // code here
35
36
37
38
```

Test	Input	Expected	Got
1	5	ArrayList: [1, 2, 3, 100, 5]	ArrayList: [1, 2, 3, 100, 5]
	1	Index of 100 = 1	Index of 100 = 1
	2	LastIndex of 100 = 3	LastIndex of 100 = 3
	3	false	false
	100	Size Of ArrayList = 5	Size Of ArrayList = 5
	5	ArrayList: [1, 500, 100, 100, 5]	ArrayList: [1, 500, 100, 100, 5]

Passed all tests!

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:
[Black, White, Orange, Green, Red]
```

## Answer: (penalty regime: 0 %)

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!

Finish review

¬ Lab-10-MCQ 

↓ Lab-11-MCQ 

Lab-11-MCQ