Status	Finished
Started	Monday, 4 November 2024, 8:35 AM
Completed	Monday, 4 November 2024, 9:08 AM
Duration	33 mins 8 secs

Question **1**

Correct

Marked out of 1.00

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.*;
public class Main{
    public static void main(String[] args){
        Scanner ob=new Scanner(System.in);
        int n=ob.nextInt();
        int a[]=new int[n];
        for(int i=0;i<n;i++){
            a[i]=ob.nextInt();
        }
        System.out.print("ArrayList: [");
        for(int i=0;i<n-1;i++){
            System.out.print(a[i]+", ");

        }
        System.out.print(a[n-1]+"]\n");
        System.out.println("First : "+a[0]+",

    }
}
```

	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**

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.indexOf());

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

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

public class Prog {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();

        ArrayList<Integer> list = new ArrayLis

        for (int i = 0; i < n; i++) {
            list.add(sc.nextInt());
        }

        // printing initial value of ArrayList
        System.out.println("ArrayList: " + lis

        // Replacing the element at index 1 wi
        list.set(1, 100);

        // Getting the index of first occurren
        System.out.println("Index of 100 = " +

        // Getting the index of last occurrenc
        System.out.println("LastIndex of 100 =

        // Check whether 200 is in the list or
        System.out.println( list.contains(200)

        // Print ArrayList size
        System.out.println("Size Of ArrayList

        // Inserting 500 at index 1
        list.add(1, 500);

        // Removing an element from position 3
        if (list.size() > 3) {
            list.remove(3);
        }

        System.out.print("ArrayList: " + list)
    }
}

```

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

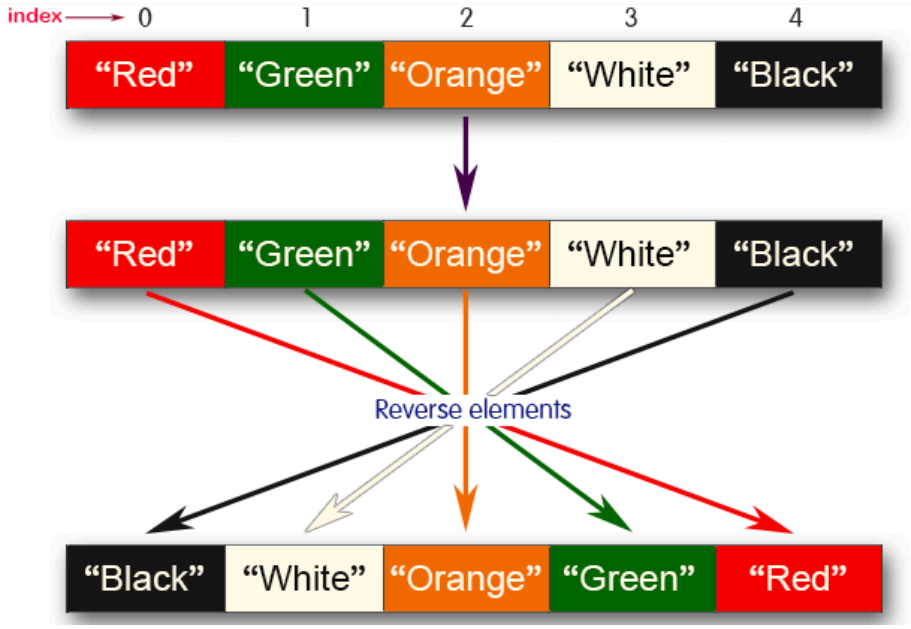
Passed all tests! ✓

Question **3**

Correct

Marked out of 1.00

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 %)

```
import java.util.*;

public class Main {
    public static void main(String[] args) {
        Scanner ob = new Scanner(System.in);
        int n = ob.nextInt();
     ob.nextLine();

        String a[] = new String[n];


        for (int i = 0; i < n; i++) {

            a[i] = ob.nextLine();
        }


        System.out.println("List before revers
        System.out.print("[");
        for (int i = 0; i < n - 1; i++) {
            System.out.print(a[i] + ", ");
        }
        System.out.print(a[n - 1] + "]\n");


```

```
        System.out.println("List after reversi
        System.out.print("[");
        for (int i = n - 1; i > 0; i--) {
            System.out.print(a[i] + ", ");
        }
        System.out.print(a[0] + "]\n");
    }
}
```

	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! ✓

◄ Lab-10-MCQ

Jump to...

Lab-11-MCQ ►