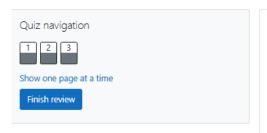
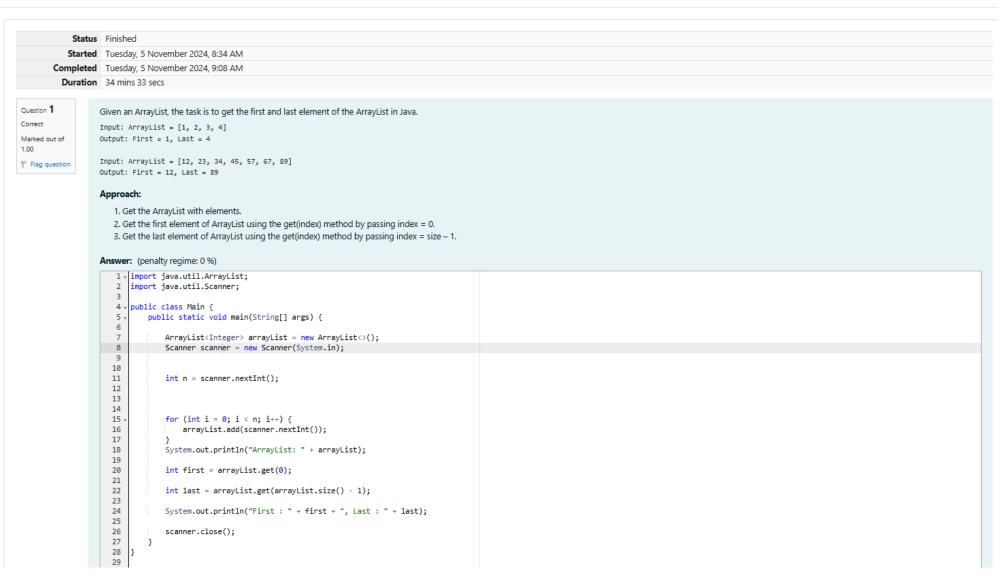
JAVA OOPS ISHWARI RAJMOHAN 230701118 CSE B

WEEK 10

CS23333-Object Oriented Programming Using Java-2023





	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

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());

list.add();

list.remove();

The above methods are used for the below Java program.

Answer: (penalty regime: 0 %)

Reset answer

```
System.out.println("Size Of ArrayList = "+
    //Inserting 500 at index 1
31
                                    // code here
32
33
     //Removing an element from position 3
34
                                   // code here
35
     System.out.print("ArrayList: " + list);
36
37
38
    import java.util.ArrayList;
    import java.util.Scanner;
40
41
42 *
    class prog { // Changed class name to lowercase
        public static void main(String[] args) {
43
            Scanner sc = new Scanner(System.in);
44
            int n = sc.nextInt();
45
46
            ArrayList<Integer> list = new ArrayList<Integer>();
47
48
            for(int i = 0; i < n; i++)</pre>
49
50
                list.add(sc.nextInt());
51
            // Printing initial value of ArrayList
52
            System.out.println("ArrayList: " + list);
53
54
            // Replacing the element at index 1 with 100
55
           list.set(1, 100);
56
57
```

```
58
            // Getting the index of first occurrence of 100
            System.out.println("Index of 100 = " + list.indexOf(100));
59
60
61
            // Getting the index of last occurrence of 100
62
            System.out.println("LastIndex of 100 = " + list.lastIndexOf(100));
63
            // Check whether 200 is in the list or not
64
            System.out.println(list.contains(200)); // Output: false if 200 is not in list
65
66
            // Print ArrayList size
67
            System.out.println("Size Of ArrayList = " + list.size());
68
69
70
            // Inserting 500 at index 1
            list.add(1, 500);
71
72
            // Removing an element from position 3
73
            list.remove(3);
74
75
            // Printing final value of ArrayList
76
77
            System.out.println("ArrayList: " + list);
78
79
80
81
```

	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.
 index → 0
                                           3
                                                     4
                "Green"
                                       "White"
                                                  "Black"
                           "Orange"
                "Green" "Orange"
                                       "White"
       "Red"
                                                  "Black"
                          Reverse elements
                            'Orange" "Green"
                 "White"
       "Black"
                                                   "Red"
```

```
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 %)

```
int numberOfColors = Integer.parseInt(scanner.nextLine());
12
           // Prompt user for input of colors
13
            for (int i = 0; i < numberOfColors; i++) {</pre>
14
15
               String color = scanner.nextLine();
                colors.add(color);
16
17
18
           // Display list before reversing
19
           System.out.println("List before reversing :");
20
            System.out.println(colors);
21
22
            // Reverse the list
23
            Collections.reverse(colors);
24
25
           // Display list after reversing
26
            System.out.println("List after reversing :");
27
            System.out.println(colors);
28
29
            scanner.close();
30
31
32
33
```

	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! 🗸