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Status	Finished
Started	Wednesday, 6 November 2024, 12:02 PM
Completed	Wednesday, 6 November 2024, 1:14 PM
Duration	1 hour 11 mins

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 %)

```

1 import java.util.ArrayList;
2 import java.util.Scanner;
3 public class prgm{
4     public static void main(String[]args){
5         Scanner r=new Scanner(System.in);
6         ArrayList<Integer> list = new ArrayList<>();
7         int n = r.nextInt();
8         for(int i=0;i<n;i++){
9             list.add(r.nextInt());
10        }
11        int first = list.get(0);
12        int last= list.get(list.size() -1);
13        System.out.println("ArrayList: "+list);
14        System.out.println("First : "+first + ", Last : " +last);
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

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

```
1 import java.util.ArrayList;
2 import java.util.Scanner;
3 public class Prog {
4     public static void main(String[] args)
5     {
6         Scanner sc= new Scanner(System.in);
7         int n = sc.nextInt();
8         ArrayList<Integer> list = new ArrayList<Integer>();
9         for(int i = 0; i<n;i++)
10            list.add(sc.nextInt());
11         // printing initial value ArrayList
12         System.out.println("ArrayList: " + list);
13         list.set(1,100);
14         //Replacing the element at index 1 with 100
15         //Getting the index of first occurrence of 100
16         System.out.println("Index of 100 = "+ list.indexOf(100));
17
18         //Getting the index of last occurrence of 100
19         System.out.println("LastIndex of 100 = "+list.lastIndexOf(100));
20         // Check whether 200 is in the list or not
21         System.out.println(list.contains(200)); //Output : false
22         // Print ArrayList size
23         System.out.println("Size Of ArrayList = "+list.size());
24         //Inserting 500 at index 1
25         list.add(1,500); // code here
26         //Removing an element from position 3
27         list.remove(3); // code here
28         System.out.print("ArrayList: " + list);
29     }
30 }
```

	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]	✓

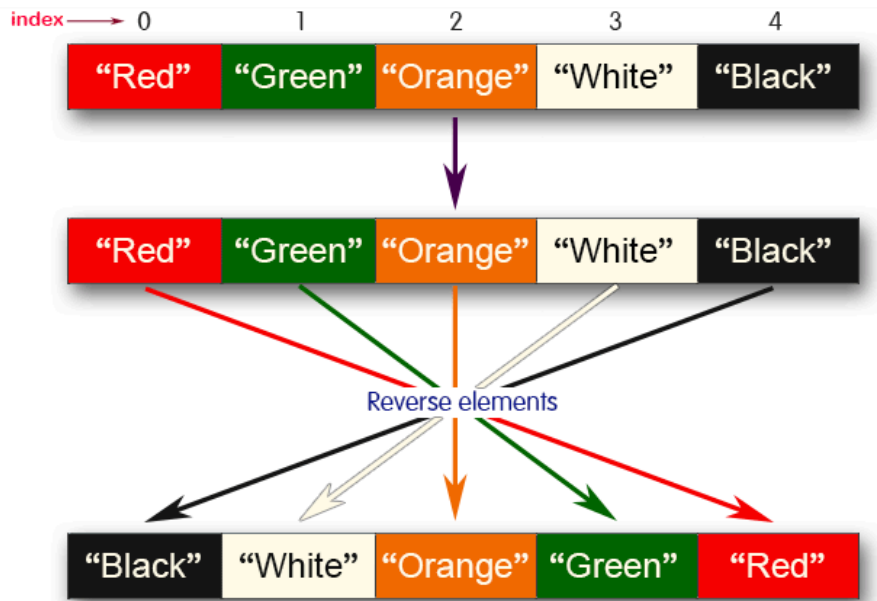
Passed all tests! ✓

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 %)

```

1 import java.util.ArrayList;
2 import java.util.Collections;
3 import java.util.Scanner;
4 public class List{
5     public static void main(String[]args){
6         Scanner s= new Scanner(System.in);
7         ArrayList<String> colors= new ArrayList<>();
8         int n = s.nextInt();
9         s.nextLine();
10        for(int i=0;i<n;i++){
11            colors.add(s.nextLine());
12        }
13        System.out.println("List before reversing :");
14        System.out.println(colors);
15        Collections.reverse(colors);
16        System.out.println("List after reversing : ");
17        System.out.println(colors);
18    }
19 }

```

	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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