

DAY-25(ArrayList)

1

Which package should be imported to use ArrayList in Java?

☐ java.arraylist

☐ java.io

☒ java.util

☐ java.lang

Correct

Output -

```
ArrayList<String> colors = new ArrayList<>();  
colors.add("Red");  
colors.add("Green");  
colors.add("Blue");  
colors.set(1, "Yellow");  
System.out.println(colors.get(1));
```

- ☐ Runtime error
- ☐ code does not compile
- ☐ Green

☒ Yellow

Correct

What does it mean for a list to be "dynamic"?

- ☐ It may contain multiple types of values
- ☒ You can easily add and remove elements
- ☐ You can access it from anywhere in the program
- ☐ It has a set size once it has been created

Correct

Predict the output -

```
ArrayList<Integer> numbers = new ArrayList<>();  
numbers.add(5);  
numbers.add(10);  
numbers.add(15);  
System.out.println(numbers.indexOf(10));
```

☐ 0

☐ 3

☐ 2

☒ 1

Correct

Which is correct syntax to access an element of an ArrayList in Java?

☒ list.get(index)

☐ list[index]

☐ list.getElement(index)

☐ list.index

Correct

Which method is used to find the number of elements in an ArrayList?

☐ count()

☒ size()

☐ length()

☐ elements()

Correct

```
public class Demo {  
    public static void main(String args[]){  
        List<String> mylist=new ArrayList<>();  
        mylist.add ("a");  
        mylist.add("*");  
        mylist.add(1, "y");  
        mylist.add(0, "w");  
  
        mylist.clear();  
        mylist.add("b");  
        mylist.add("a");  
        mylist.add("c");  
        System.out.println (mylist.contains("a") + " " +  
mylist.contains("x"));  
    }  
}
```

☐ false false

☐ false true

☒ true false

☐ true true

Correct

What will be the output of the below ArrayList program?

```
import java.util.ArrayList;
import java.util.List;

public class Test {
    public static void main(String[] args) {
        List<String> al = new ArrayList<String>();
        al.add("A");
        al.add("B");
        al.add("A");
        al.add(null);
        System.out.println(al);
    }
}
```

☒ [A, B, null]

☐ [A, B, A, null]

☐ Compile time error

☐ [A, A, B, null]

Incorrect

What will be the output of the following Java program?

```
import java.util.*;
class Output {
    public static void main(String args[]) {
        ArrayList obj = new ArrayList();
        obj.add("A");
        obj.ensureCapacity(3);
        System.out.println(obj.size());
    }
}
```

☐ 4

☐ 1

☒ 3

☐ 2

Incorrect

Predict the output -

```
public class Demo {  
    public static void main(String args[]) {  
        List<String> c = new ArrayList<String>();  
        c.add("Oslo");  
        c.add("Paris");  
        c.add("Rome");  
        int index = c.indexOf("Paris");  
        c.add(index, "London");  
        System.out.println(c);  
    }  
}
```

☐ [Oslo, Paris, Rome]

☒ [Oslo, London, Rome]

☐ [London, Oslo, Paris, Rome]

☐ [Oslo, London, Paris, Rome]

Incorrect