Android Internship Assessment

Submitted By -

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Ques 2) one of the developer is facing the following error while using the application,

Exception in thread "main" java.util.ConcurrentModificationException at java.util.ArrayList\$Itr.checkForComodification(ArrayList.java:859)

at java.util.ArrayList\$ltr.next(ArrayList.java:831)

at main.java.Bobble.main(Test.java:25)

Can you tell what he might be doing wrong? and how he can fix it? demonstrate how to reproduce the error, and then the resolution.

Ans) This error occurs as such a concurrent modification has been made in ArrayList that it has resulted in structural failure of the ArrayList.

With the following example, we can reproduce this error.

```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.ListIterator;
public class MyList {
public static void main(String[] args) {
ArrayList < String > al = new ArrayList < String > ();
al.add("S1");
al.add("S2");
al.add("S3");
al.add("S4");
Iterator<String> lir = al.iterator();
while (lir.hasNext()) {
System.out.println(lir.next());
al.add(2, "inserted");
while (lir.hasNext()) {
System.out.println(lir.next());
```

In the above code, the iterators are said to be fail-fast as modifications to the very structure of the ArrayList have been made after iterator is created without the usage of any methods of the

iterator. To resolve this error, can be accessed error-free.	a new object of th	ne iterator should	be made so that th	ne ArrayList