



```

        ArrayList numbers3 = change(numbers1);
        printArrayListElements(numbers);
        printArrayListElements(numbers1);
        printArrayListElements(numbers2);
        printArrayListElements(numbers3);
    }
    private static ArrayList change( ArrayList arraylist) {
        for( int i=0; i<arraylist.size(); i++ ) {
            if ((Integer)arraylist.get(i)%2==0)
                arraylist.set(i, (Integer)arraylist.get(i)+1);
        }
        return arraylist;
    }

    private static void printArrayListElements(ArrayList arraylist) {
        for( int i=0; i<arraylist.size(); i++ ) {
            System.out.print( (Integer)arraylist.get(i)+ " ");
        }
        System.out.println();
    }
}

```

Output:

### Question Three: Generic ArrayList

A method with some example code using an ArrayList is shown below. Check that you understand how to use an ArrayList defined by generics in Java 1.5. Complete the output when the *T06Q3()* method is executed. (As Question Two, you could check your result with the running output of *T06Q3.java*)

```

private static void T06Q3() {
    List<String> theAList = new ArrayList<String>();
    System.out.println("1. theAList " + theAList);
    theAList.add(new String("computer"));
    System.out.println("2. theAList " + theAList);
    theAList.add(new String("science"));
    System.out.println("3. theAList " + theAList);
    theAList.add(new String("rock"));
    System.out.println("4. theAList " + theAList);
    theAList.add(1,new String("and"));
    System.out.println("5. theAList "+theAList);
    theAList.remove(1);
    if (theAList.contains(new String("rock")))
        System.out.println("6. contains rock ");
    System.out.println("7. theAList " + theAList);
    System.out.println("8. theAList.isEmpty() " + theAList.isEmpty());
    theAList.set(1, new String("so"));
    System.out.println("9. theAList.get(2) " + theAList.get(2));
    Iterator<String> it = theAList.iterator();
    while (it.hasNext()) {
        System.out.println(it.next().toUpperCase());
    }
    theAList.clear();
    System.out.println("10. theAList " + theAList);
}

```

Output: