Java   Name -
ArrayList Worksheet #1

Trace the code and draw the resulting `ArrayList`'s or explain any errors that you find.

1.
```java
ArrayList <String> shoppingCart = new ArrayList<String>();
String box = "Wheaties";
shoppingCart.add(box);
shoppingCart.add("bananas");
shoppingCart.add("crackers");
String jar = "Ragu";
shoppingCart.set(1, jar);
String snack = "Fritos";
shoppingCart.add(2, snack);
shoppingCart.remove(0);
String dairy = "milk";
shoppingCart.set(1, dairy);
```

2.
```java
ArrayList<Integer> list1 = new ArrayList<Integer>();
for (int i = 1; i <= 10; i++)
    list1.add(i);
for (int i = 0; i < list1.size(); i++)
    if (list1.get(i) == 3)
        list1.remove(i);
System.out.println(list1);
```

3.
```java
ArrayList<Integer> list2 = new ArrayList<Integer>();
for (int i = 1; i <= 10; i++)
    list2.add(i);
int size = list2.size();
for (int i = 0; i < size; i++)
    if (list2.get(i) == 3 || list2.get(i) == 4)
        list2.remove(i);
System.out.println(list2);
```

4.
```java
ArrayList<Integer> list3 = new ArrayList<Integer>();
for (int i = 1; i <= 10; i++)
    list3.add(i);
for (int i = 0; i < list3.size(); i++)
    if (list3.get(i) == 3 || list3.get(i) == 4)
        list3.remove(i);
System.out.println(list3);
```