existing.

## GRAMMING EXERCISES

Hypothesize the output from the following code, and then test your hypoth includes the code:

```
ArrayList<String> letters = new ArrayList<String>();
letters.add ("f");
letters.add (1, "i");
letters.add ("e");
letters.add (1, "r");
letters.add ("e");
letters.add (4, "z");
System.out.println (letters);
letters.remove ("i");
int index = letters.indexOf ("e");
letters.remove (index);
letters.add (2, "o");
System.out.println (letters);
```

## CHAPTER 6 Array-Based Lists

For each of the following program segments, hypothesize if the segment would generate a compile-time e a run-time exception, or neither. Then test your hypotheses with a main method that includes each segn

```
ArrayList<String> myList = new ArrayList<String>();
 a.
     myList.add ("yes");
     myList.add (7);
     ArrayList<Double> original = new ArrayList<Double>();
b.
     original.add (7);
      ArrayList<Integer> original = new ArrayList<Integer>();
c.
      double x = 7;
      original.add (x);
     ArrayList<String> newList = new ArrayList<String>();
d.
      newList.add ("yes");
      Integer answer = (Integer)newList.get (0);
Suppose we have the following code:
      ArrayList<String> myList = new ArrayList<String>();
     myList.add ("Karen");
     myList.add ("Don");
     myList.add ("Mark");
     ArrayList<String> temp = new ArrayList<String> (myList);
     ArrayList<String> sameList = myList;
     myList.add (1, "Courtney");
```

Hypothesize what the contents of myList, temp, and sameList will be after this last insertion. Then to your hypothesis with a main method that includes the code.

Hypothesize what will happen when the following -- 1 c