

# Answers to Self-Study Questions

## Test Yourself #2

### Question 1:

```
for (int pos = 0; pos < 2*k; pos+=2) {  
    words.add(pos, words.get(pos));  
}
```

### Question 2:

```
int pos = 0;  
while (pos < words.size()) {  
    String str = (String) words.get(pos);  
    if (str.equals("hello")) {  
        words.remove(pos);  
    }  
    else {  
        pos++;  
    }  
}
```

## Test Yourself #3

### Question 1:

```
public Object remove(int pos) {  
    // check for bad pos  
    if (pos < 0 || pos >= numItems) {  
        throw new IndexOutOfBoundsException();  
    }  
  
    // get the item to be removed from pos  
    Object ob = items[pos];  
  
    // move items over to fill removed pos  
    for (int k = pos; k < numItems-1; k++) {  
        items[k] = items[k+1];  
    }  
  
    // decrease the number of items  
    numItems--;  
  
    // return the removed item  
    return ob;  
}  
  
public Object get(int pos) {  
    // check for bad pos  
    if (pos < 0 || pos >= numItems) {  
        throw new IndexOutOfBoundsException();  
    }  
  
    // return the item at pos  
    return items[pos];  
}
```