Section 4.10, p. 225: #3, 4, 6, 7, 27(b,c)

Additional Problems:

- 1. Make a trace table for the linear search, search among {3, 14, 10, 12, 6, 15, 11, 7}
  - a. search for 15
  - b. search for 5;
- 2. Make a trace table for the binary search, search among {3, 6, 7, 10, 11, 12, 14, 15}
  - a. (a) search for 6
  - b. (b) search for 13

3.

Find the final values of j, s, and t after the following algorithm is executed.

```
j := -2

s := 5

t := 10

while j \neq 3

if (j < 0 \text{ or } j = 2)

then t := t + j

else s := s - 1

j := j + 1

end while
```

(See back for flow chart for #3)

