Chapte 1, page 40, problem 8:

The execution time could exceed the sum of the individual execution times if the system was unable to overlap I/O with processing, even across processes. That is, there will be times when the CPU is idle, yet the system is performing I/O for some of the processes.

Chapter 2, page 74, problem 3:

```
#include     <stdio.h>
char promptString[] = "nutt shell >";
int main() {
   int chPID, thisChPID;
   int stat;
     printf("Parent: Welcome to Exercise 2.7.3\n");
// Create a process
      if((chPID = fork()) == 0) {
      //  This is the child
              printf("Child: Greetings, I am going to sleep ...");
              fflush(stdout);
              sleep(20);
              printf(" now awake after 20 seconds.  Bye\n");
     }
// Wait for the child to terminate
     printf("Parent: Waiting ...\n");
     thisChPID = wait(&stat);
     printf("Parent: Child terminated\n");
     exit(1);
}
```

Chapter 5, page 189: problem 11:

The blocks to be read are 97, 84, 155, 103, 96, and 197.

a. FCFS steps across 13+71+52+7+101 = 244 steps.
b. SCAN visits the tracks in the order 97, 103, 155, 197, 199, 96, 84 incurring 6+52+42+2+103+12 = 217 steps.
c. LOOK visits the tracks in the order 97, 103, 155, 197, 96, 84 incurring 6+52+42+101+12 = 213 steps.