1. Solve problem 1.6.2 on page 60 of your text.

2. Find the number of times the ++ operator is executed the following program segment

   ```
   for(i=0; i<n; i++)
   for(j=0; j<n; j++)
   for(k=0; k<n; k++)
     x++;
   ```

3. Find the number of times the ++ operator is executed the following program segment

   ```
   for(i=0; i<n; i++)
   for(j=0; j<i; j++)
   for(k=0; k<j; k++)
     x++;
   ```

4. Find the number of times the ++ operator is executed the following program segment

   ```
   for(i=0; i<n; i++)
   for(j=0; j<i; j++)
   for(k=0; k<i; k++)
     x++;
   ```

5. What is the complexity of each code fragment in problems 2-4.