

1. (Ex. 2.4.) What do the following programs print to the screen? Think first, and then try running them!

(a)

```
int i = 0, j = 3, k;  
k = ++i + j;  
j = i / 2;  
printf("%d %d %d",  
       i++, j , k);
```

(b)

```
double a = 3.0, b = 2.0, c;  
c = a / b;  
a *= b;  
printf("%f %f %f",  
       a, b, c);
```

2. Write a program that asks the user for two real numbers and then prints the numbers in decreasing order, ie. the greater first then the smaller one, or 'The numbers are equal' if the numbers are the same.
3. Write a program that tests if a number given by the user can be divided by three and / or five. The program should print 'The number can be divided by three and five', 'The number can be divided by three or five', or 'The number cannot be divided by three nor five', depending of course which is the correct statement. (A number can be divided if the modulus is zero, in C if `a % b == 0` is true then a can be divided by b).
4. switch-case structure: A unit-converter. Write a program that asks the user for a temperature and a unit, 'C', 'F', or 'K', and prints the temperature in all the of the units mentioned above.