Exercise 10

- 1. Open the file h10t01.c.
 - a) Comment *all* commands. Make sure you understand all commands. Also figure out what each of the functions are supposed to do.
 - c) Execute the program in debug mode. Observe the values of the variables and see how the execution progresses in the file.
- 2. Write a program which takes as argument for the main program the name of a file, and writes to the file the file name, the date, and the user name.
- 3. Write a function which tests whether a given string array is in alphabetical order. Using this function, write a program which orders a string array into alphabetical order. Do this in three ways:
 - a) The user enters the words during the execution of the program.
 - b) The words are read from a file.
 - c) The words are given as arguments for the main program.
- 4. Find out how the following functions work, and do the given tasks:
 - **atoi** Write a program which takes as argument for the main program an integer and rounds it up to the nearest multiple of 20.
 - atof Write a program which takes as argument for the main program a real number and rounds it to accuracy of 1/100.

Hint: In the header file math.h there are the functions ceil and floor which round a real number up or down to the nearest integer.