Assignment 3

Description:

      Program takes an input that contain random numbers and by multi-threading sorts them by using Merge Sort Algorithm.

Compilation:

      Program uses the pthread.h library so the linker of the compiler (gcc) needs specific arguments to compile.

- -lpthread for pthread.h

So the command needed to compile program is :

            gcc -Wall -g name_of_file.c -o name_of_exec -lpthread

                  In our program:

            gcc -Wall -g External_Merge_Sort.c -o exms -lpthread

Test Cases:

To test the program we are using the following files :

      Random Numbers:

- random_50.txt
- input.txt

Execution:

      The executable file takes as Arguments the Test Cases File we are checking.

So the command to execute the program is :

                      ./exms test_file