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lab2

*How My code is organized ?

- I check wether the user entered the input and output files or I will go to the default names of the files.

-read the data at the files and store them into pointer of pointer of int .

-calculate the output matrix with two methods :first method that create a threads that calculate elements in output matrix ,the second that create a threads that calculate row in output matrix

-write the output matrixs that calculate with those two method in different output files.

-Calculate the time execution by the two methods and the number of threads.

*The main function:

- read_line(): take two parameter ,first number of argument , second array of char of argument.

-read_matrix() :read the data from the file and store it in array 2D .

-Multiply_By_Elements(): create thread equal to number of elements in matrix output as each thread calculate single element.

Multiply_By_Row():create thread equal to number of Rows in

matrix output as each thread calculate single Row.

write_output():write the output matrix in a file .

print():calculate the number of threads in the two method and the execution time and print them in the terminal .

How to compile The code?

-open terminal

-go to directory that contain the file.c

-enter make &

-Enter ./out OR ./out mat1 mat2 matout