Concurrent Programming - Spring 2022 - Homework 2

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If you have any question, you can raise it in the WhatsApp group or send a message to the telegram ID : @mmovahed02.

Problem

In this assignment, you should implement a parallel program for Depth First Search(DFS) graph algorithm.

Description

Explanations related to how DFS algorithm works were provided in the previous homework. In this part you should write a parallel DFS algorithm for the shared memory platform using Open-MP library.

Try to consider Load balancing in your implementation.

Reporting algorithm ruining time is mandatory for serial and parallel implementations.

It is necessary to mention the specifications of the execution platform in the document. Also you should use comments to explain the code

Utilities

- Library: OpenMP

- Languages: C, C++, Fortran