FirstProjectOMP

Dependencies

- CMake 3.9+
- OpenMP
- Python3 3.9.7
- Pipenv

How to run

1. Create a build directory and launch cmake

```
mkdir build
cd build
cmake ..
```

2. Generate executables with `make`

3. To generate measures run

   - `make generate_measuresOn2` to run the execution with time complexity O(n^2)
   - `make generate_measuresOn` to run the execution with time complexity O(n)

4. To extract graphics and tables for speedup and efficiency from the .csv files run

   - `make extract_measuresOn2` to run the extraction for the algorithm with time complexity O(n^2)
   - `make generate_measuresOn` to run the extraction for the algorithm with time complexity O(n)

Results can be found in the `measures/measure` or `measures/measureOn` directory, divided by problem size and the gcc optimization option used.