Cy Météo Project's Report – PréIng2 MI3

We were three to work on this project together: **Chabaane Zeineb**, **Razumowski Alexandre** and **Pavot Fiona**. To begin with, we all carefully read the instructions of the project as soon as the group was done. Then we processed to split up the work to match everyone's conveniences. Alexandre wanted to take the avl and abr part, Zeineb took the shell filtering and gnuplot's graphics, and Fiona took the tab part.

We began working on the project focusing on parts during the Christmas holidays. We fixed deadlines to submit our work on the git Alexandre created. The first one was right before the festivities (on the 23/12/2022) to be able to take some rest as well during these holidays. To ensure the less confusion, we had a few rules throughout the project (specified in the file INFOPROJET.md) as well, such as only submitting working code on the git and commenting our codes. Most importantly, we did calls to catch up on everyone's progress, to ask questions to each other and to make sure we all understood the same thing on some topics to go in the same direction.

When we got back from holidays, the rhythm started to accelerate. We tried to complete the most of the project during the classes dedicated to it before our exams' week. We did a lot of progress in those classes and we could communicate easily with each other as well. Furthermore, we were able to ask our questions to our teacher and get answers quickly, which helps a lot when we were stuck on a specific problem.

Once our exams were done, we fully invested our working time on our few tasks left. We focused as well on a lot of tests on our different parts, with small files, before putting everything together. Alexandre then took care of the Makefile to compile the whole project properly. We also looked after possible warnings (with -Wall in compilation) in our codes that could end up to be a problem.

Planification

Period of time	Alexandre	Zeineb	Fiona
Before holidays	- Reading of the instructions - Creating the functions for the AVL/ABR sorting according to the options Height and moisture	- Reading of the instructions - Testing some shell commands and reading its man	-Reading of the instructions -Base List functions and structure
During Holidays	-NOTHING	- Filtering the original data according to each option	-Functions to make a list out of a file and the opposite -Sorting functions in ascending and descending order for lists
Before the exams's week	- Creating the functions for the AVL/ABR sorting according to the options temperature and pressure for all the modes	- Filtering the original data according to the Location chosen - Putting conditions on the user's choice of arguments	-Adaptation of Sort functions to the 6 options -Calculus functions to get the min, max, average -Small tests -Optimisation
After the exams	- Creating the function for the sorting AVL/ABR according to the wind - Creating the functions for the TAB sorting (because Fiona's functions didn't work)	- Updating the conditions of the retrieve of the arguments entered by the user - Creating the gnuplot files for the graphs as asked	-Fixing some small erros -Finishing commenting my code -Modulation

List of non-implemented options:

- -d<min><max>
- gnuplot's graphic for temperature/pression Option 3
- -o for the c (for unknown reasons) doesn't work : strcopy of outPath doesn't work