

TEAM WEEKLY REPORT NR.5

Secretary

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Session Summary Report

During our session and based on one of our last task which was test performance, we focused on planning and implementing a program designed to evaluate the time taken to solve a maze, we do it multiple times (n iterations). The goal was to collect these timing results and store them in a file for another processing. This data will be analyzed in Python using linear regression to correlate the empirical results with the theoretical complexity previously determined.

Since this task was the quickest to complete during the session (because we already carried out tests on the algorithm's performance), we decided to spend time planning and assigning responsibilities for writing the final report.

Task allocation for the next session:

- **Fauste:** Responsible for processing the test results and conducting the linear regression analysis.
- **Edgar and Mensanh:** Tasked with creating the testing program that evaluates the maze-solving time and writing section (d) of the final report, which includes an explanation of the tests performed for performance analysis and their outcomes.
- **King:** Will draft a concise description of the maze generation and resolution algorithms, section (b).
- **Kian:** Conclusion about the data structure and algorithms chosen, section (e) of the final report.
- **Djakhar:** Assigned to detail the chosen data structure, including its formal specification, section (a).
- **Fatima:** Will provide a proof of the theoretical complexity of the maze resolution algorithm, section (c).