

CS 6212: Design and Analysis of Algorithms

Fall 2023 - Project 3

Instructions :

- a. Project 3 is a group project, the questions can be found in the link [here](#) and the question numbers corresponding to your group can be found in the Google Sheets link [here](#).
- b. Please follow the submission structure given below:
 - i. *Problem analysis*: Include your question, any assumptions you make, and briefly explain your main idea regarding the solution.
 - ii. *Pseudocode*: Include only the pseudocode for your algorithm.
 - iii. *Time Complexity*: Calculate the theoretical time complexity and provide a short explanation.
 - iv. *Numerical Results*: Implement the algorithm presented and then make a table with the following columns: N, Experimental results, Theoretical results, Scaling Constant, and Adjusted Theoretical Results.
 - v. *Graph*: Plot the Experimental and Theoretical results in one graph.
 - vi. *GitHub Link*: Include a link to your GitHub repository containing the project code.
- c. The submission pdf should not exceed 2 pages.
- d. Include the names and GWIDs of all group members in the submission.
- e. The submission link for the project can be found on Blackboard.
- f. Please reach out to any of the TAs immediately if you were not able to add yourself to any of the groups in the sheet linked above.