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Project Announcement

Mahir Shahriar Tamim

1 Section

Please make a group of 3 people and fill up the Google Sheet. I will assign each group a problem.

Group List  [_ \(https://docs.google.com/spreadsheets/d/1evjrZwz3PIRNC7fgafAqneaFN45Gzpg3-KIBiHdET7k/edit#gid=0\)](https://docs.google.com/spreadsheets/d/1evjrZwz3PIRNC7fgafAqneaFN45Gzpg3-KIBiHdET7k/edit#gid=0) <-- Here is the link

You all have to use a minimum of three algorithms to solve the problem (such as Greedy Algorithm, Dynamic Algorithm, Brute Force Algorithm, etc.).

Project outline:

- You all will demonstrate your project work in two phases. Both phases will be viva sessions.
- You all will submit the report in your second phase.
- The report must include a detailed time analysis of the algorithms you will apply.
- The report must be in a PDF file and rename your file name with your Group Number (such as Group_3.pdf).

Every group has to submit only one report. Please include the following details in your report as a pdf file (Only one member of the group needs to submit):

- 1) Cover Page (must include group number, names, IDs, and Project Title)
- 2) Introduction
- 3) Analysis of Algorithms
- 4) Experimental Results (Time Complexity showing graph)
- 5) Conclusion

The following are the requirements-

1. Must apply at least three different algorithms to solve the problem.
2. Must show the algorithms' best case, average case, and worst case performance.
3. In the first phase, you will show at lease one algorithm implementation.
4. In the last phase, you will show all implementations and a report of analysis of your algorithms.

5. All phases will be in the form of viva.
6. After the first half of May, the first viva will be scheduled.
7. At the end of the semester, the final viva will be scheduled.
8. Submit the source code.
9. Submit a report in Canvas containing an introduction, complexity, and graph of each complexity, conclusion, and a printed copy of the report to the TA on the day of the final viva.

First Phase: Viva Session regarding details and analysis of the selected algorithms. Expecting at least one or two written algorithms.

Deadline: Mid-May (Will announce the date soon)

Second Phase: Viva Session regarding the entire report. (Questions can be asked from codes also. You must know how the algorithm is working to solve the problem.)


Deadline: End of May tentative (Will announce the date soon)


Note: Late submissions will not be accepted. You will be given an "F" if plagiarism is detected (of any form).

Please email me for any kind of queries and before coming to my office hours, so that we can make the best use of time.

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