Comp 305 Algorithms and
Spring 2022 Complexity

Final Project

1 Instructions

Please open a GitHub public repository, include all of your members as contributors(I there is any group member). This step is quite important for us to see your progress and has to be done quickly. Therefore, in the README file please keep a list of completed steps, a TO DO list and the results retrieved if there are any. You will also prepare a presentation and present to the TAs. Therefore, you should also create a Google Slides presentation.

2 Presentation Details

Each of the presentations should take 10 minutes and there will be a 5-minute Q&A session afterwards. If a presentation lasts longer than 10 minutes, then it will be interrupted. During the presentation each of the groups should explain and report:

- The algorithm you designed to solve the problem, the choices of the data structures you used and your reasoning.
- In addition to your actual code, write a pseudo code for your algorithm
- Compare it with another algorithmic approaches
- The time complexity of your algorithm (and the space complexity if applicable)
- Prove that your algorithms gives correct results
- Further improvements that can be done as future works.

This project does not expect from you to come up with just one solution and then test only that solution. For each of the problems you can start with some baseline approaches with more complexity and improve the baseline algorithm step by step. Be as creative as possible. Report different approaches you tested and why did you decide on the final algorithm you present. Your grading will be based on your creativity, your cumulative progress and how well did you present your approach.

3 Deadlines

Project presentations will be held between 10th June, 2022. The deadline is the midnight of June 9.
For further questions, please send an e-mail to comp305staff-group@ku.edu.tr.