Team Members:

Caleb Heydon

Luke Pepin

Jordan Howard

Mitchell Worthington

Selected Project:

Rabin-Karp String Search Algorithm

Project Plan:

Week 4-5: Team Formation and Algorithm Selection

* Form teams of 3-4 members.
* Choose an algorithm Rabin-Karp String Search ARabgorithm, not covered in class.
* Submit Group Project proposal on HuskyCT

Week 6: Research

* Start research and gain a deep understanding of the topic
* Create a document with the highlights of the research
* Focus on creating notes in a format that easily goes into report writing

Week 7-8: Algorithm Implementation

* Start developing the implementation of the selected algorithm in python.
* Ensure the code is well-documented and follows coding standards.
* Begin drafting the implementation details section of your report.

Week 11-14: Report Writing

* Write the report, under the standards the syllabus outlined including:
  + Introduction
  + Comparison with other Algorithms
  + Justification of its superiority
  + detailed explanation of the algorithm
  + Implementation details
  + Results
  + Analysis of time complexity with proofs
  + List of references
* Complete the report and ensure little errors are made.

Week 15: Presentation Preparation

* Prepare a concise presentation with a 5-8 minute time limit.
* Create slides that highlight key points from your report.
* Rehearse the presentation multiple times to ensure a smooth delivery.

Week 16: Final Deliverables

* Submit the final report (5-10 pages) along with any supplementary materials.
* Be prepared to answer questions and provide additional insights during the presentation.
* Post-project reflection on the project experience and what you have learned.
* Evaluate the strengths and weaknesses of your team's implementation and presentation.