

Project Guidelines

The project involves investigating, utilizing the web and other resources, a current topic in the field of algorithms. The choice of topic is up to each group but needs to be approved by Dr. Berman. Each group will need to submit for approval a Title and Abstract of your topic by **Wednesday, Nov. 18**. You are to (1) prepare a report (12 pages double-spaced using MS word, which is prefaced with the **members of your group**, a **title** and **abstract**), (2) prepare power point slides for your presentation, and (3) give a 12 minute presentation during the “Mini-Symposium”, which will be held during the last two weeks of classes (and Final Exam week, during scheduled Final Exam, if necessary).

Guidelines on what to include:

- Description of problem
- How problem relates to what has been covered in course
- History of the problem, how, why, where it arose.
- Algorithmic solutions to the problem.
 - Cite seminal and current papers on the topic
 - What are **key ideas**, **algorithm paradigms** used to solve problem
- Applications of Problem
- Current research on the topic
 - Who is doing research on the problem
 - Where are the centers of research on the problem, e.g. Group X at MIT, Group Y at UC, Group Z at Cambridge Univ., etc.