Team Assignment

CSE 5211 Analysis of Algorithms, Instructor: William Shoaff
Spring 2018

One quarter of a student’s course grade is based on team performance.

- Canvas will randomly generate three person teams. If enrollment is $3k + 1$ there will be 2 two-person teams. If enrollment is $3k + 2$ there will be 1 two-person team.
- Each team must schedule regular meetings of its members, bi-weekly at least.
  - The team will choose a topic to research from the list below. Notify the instructor of the team’s choice by email (mailto:wds@cs.fit.edu) on Monday of week 3 (Jan, 22). Requests will be granted first-come, first-serve. If a collision occurs the latter team must choose another available topic.
  - On Mondays of weeks 5 (Feb, 5), 8 (Feb, 26), 10 (Mar, 12), and 12 (Mar, 26) the team must email a status report to (mailto:wds@cs.fit.edu). The report must outline who has researched, read, written, . . . , what. Software development, mathematical analysis, and presentation outlines should be reported.
  - On Wednesdays and Fridays of weeks: 5, 8, 10, 12, teams schedule review meeting with the instructor during office hours: 9:00 – 10:50 or by appointment.

Presentation Schedule

The team must provide classmates with a one page, double sided handout highlighting the main results of their research. Every team member must participate in discussing the team’s work.

- Monday of week 14 (Apr, 16): Team 1 & 2
- Wednesday of week 14 (Apr, 18): Team 3 & 4
- Friday of week 14 (Apr, 18): Team 5 & 6
- Monday of week 15 (Apr, 23): Team 7 & 8

Final submission

On or before Wednesday of week 15 (Apr, 25) the team must submit on Canvas:

- The handout prepared for classmates
- Slides prepared for the presentation
- Code written, scripts (instructions) for compiling and executing your program, and test data
- A final report summarizing the work: The problem, the algorithm, the analysis, the experiments, the summary, and the references

On or before Wednesday of week 15 (Apr, 25) each student complete:

- A performance evaluation of their teammates
- An evaluation of presentations by other teams

Potential Team Projects

Some of these topics are algorithms, others are data structures that support algorithms, and some are problems where the algorithm is unspecified.
Advice

Guidelines from Teamwork in the Classroom:

- Have clear goals
- Be results-driven
- Be a competent member
- Be committed to the goal
- Collaborate
- Have high standards
- Follow principled leadership
- Seek support, advice, and encouragement

A summary of Tufte’s tips for a successful presentation:

- Show up early
- Lay out the problem
- Present complicated material in order particular, general, particular, …
- Avoid an obvious reliance on notes
- Give everyone in your audience a piece of paper
- Match the information density to the allotted time
- Avoid overhead projectors, keep the lights on
- Never apologize
- Use (relevant, never irritating) humor
- Use gender-neutral speech
- Practice intensely beforehand
- Take questions without condescending
- Express (real) enthusiasm
- Finish early