

Board Presentations

Description

- Length:** 10 – 20 minutes
Frequency: Two presentations
Value: 1 point each ($\sim 8\%$ overall grade each)

You will present on two topics, one in enumeration and one in graph theory. Topics are already assigned (see below), but you may trade if you like. Contact me if you do trade so that everyone is aware of their new assignment.

Board presentations take place during class at the board without the aid of PowerPoint, Beamer, etc. They should simulate a typical (but short) class lecture, meaning you should check for audience understanding and address their concerns to the best of your ability. You may bring notes to help you remind you of key points, but you may not read from a prepared script. The presentations should last 10 – 20 minutes. Refer to the provided rubric throughout the process to help direct your speaking.

The quality of the presentation will be assessed by the professor using the provided rubric. Your peers will provided qualitative feedback. You will be expected to read this feedback and view a recording of your presentation. To complete the assignment, you will submit a short written reflection that addresses the peer feedback and anything else you noticed during your viewing of the presentation.

Topics

| Enumeration | Graph Theory |
|---|-------------------------------------|
| Binomial Theorem Theorems 4.1, 4.2, 4.4b | Hamiltonian Cycles Theorem 9.5 |
| Compositions Theorems 5.2, 5.3 | Tournaments Theorem 9.7 |
| Stirling Numbers Theorems 5.8, 5.9 | Trees Theorem 10.1, 10.3 |
| Integer Partitions Theorems 5.17, 5.20 | Adjacency Matrices Theorem 10.16 |
| Inclusion-Exclusion Theorem 7.5 | Bipartite Graphs Theorem 11.5 |