Session 6
Fundamentals: Recurrence

Lecture Summary

Recurrence Relations

1. Review:
   - The 3 ways to specify a math sequence
   - Why interest in sequences?
   - Sequence terms: recurrences vs. summations
2. Solving strategies (for this course), modern resources and tools
3. Standard techniques to solve recurrence relation
   - 🕓📖 Forward substitutions: left for students
   - Backward substitutions (detailed step-by-step examples), strategies to solve

Session Exercise

P7. Use code from P5 to output the first 50 terms of the efficiency sequence of bubble sort. Compare to results from count summation.

Reading List

📖 Appendix B

Keywords