Midterm Exam Review

- Midterm exam on Monday 7/9 in class
- Duration: 1 hr 15 min
- Open book open notes
- No electronic device
- No collaboration
Problems

- Total 4/5 problems

- Possible problem types:
  - True/False and short questions
  - Evaluating the running time of a given code fragment/function
  - Designing algorithms
  - Proof of correctness of algorithms/claims
Scope

- Following topics from Chapters 1-4:
  - Stable matching problem
  - Asymptotic analysis (Big Oh, Omega, Theta)
  - Application of DFS and BFS trees in designing and analyzing graph algorithms
  - DAGs and Topological Ordering
  - Greedy design strategies: “greedy stays ahead”, structural, exchange argument
  - Dijkstra’s algorithm for the shortest path problem
  - The MST problem

Good luck!