COMP9020 Week 9 Recap

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Graph Theory

- Definitions and notation: vertices, edges, paths, cycles, connectedness, isomorphisms
- Important graphs: Trees, Complete graphs, complete k-partite graphs
- Graph traversals: DFS/BFS, Eulerian path/circuit, Hamiltonian path/cycle
- Graph properties: Chromatic number, Clique number, Planarity

Combinatorics

- Basic counting rules: Disjoint sets, Cartesian products
- Handling duplication/restrictions

Need to know for this course

- Graph definitions and important graph classes
- How to show/calculate graph properties:
    - Connectedness
    - Eulerian/Hamiltonian traversals
    - Chromatic number
    - Clique number
    - Planarity
- Interactions between graph properties