
Lecture 33

CPSC 110

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Lecture 33

Clicker questions

- A node is in a cycle if it is possible to visit it multiple times by traversing the graph.

Questions

- Probably going to be expected to write graph definitions on the final exam.

Functions Operating on Graphs

When you see a graph problem, remember: it is just an arbitrary arity tree problem with cycles. Main differences:

1. Multiple arrows can point to a node.
2. Possible to get stuck in cycles.

Data definitions:

- Main change: must use `shared` to handle cyclic data

Functions

- Need a context preserving accumulator to keep track of visited nodes so we don't get stuck in cycles
- Don't take combination argument for granted
 - `union` vs. `append`
 - `min-with-false` vs `min`