Lecture 16

CSE 331

Oct 3, 2018

Quiz 1 on Monday

Quiz 1 on Monday, Oct 8

The first quiz will be from **8-8:10am in class** on **Monday, October 8**. We will have a 5 mins break after the quiz and the lecture will start at 8:15am.

We will hand out the quiz paper at 7:55am but you will **NOT** be allowed to open the quiz to see the actual questions till 8am. However, you can use those 5 minutes to go over the instructions and get yourself in the zone.

There will be two T/F with justification questions (like those in the sample mid term 1: @458.)
#pin

quiz1

Directed Acyclic Graph (DAG)

No directed cycles

Precedence relationships are consistent
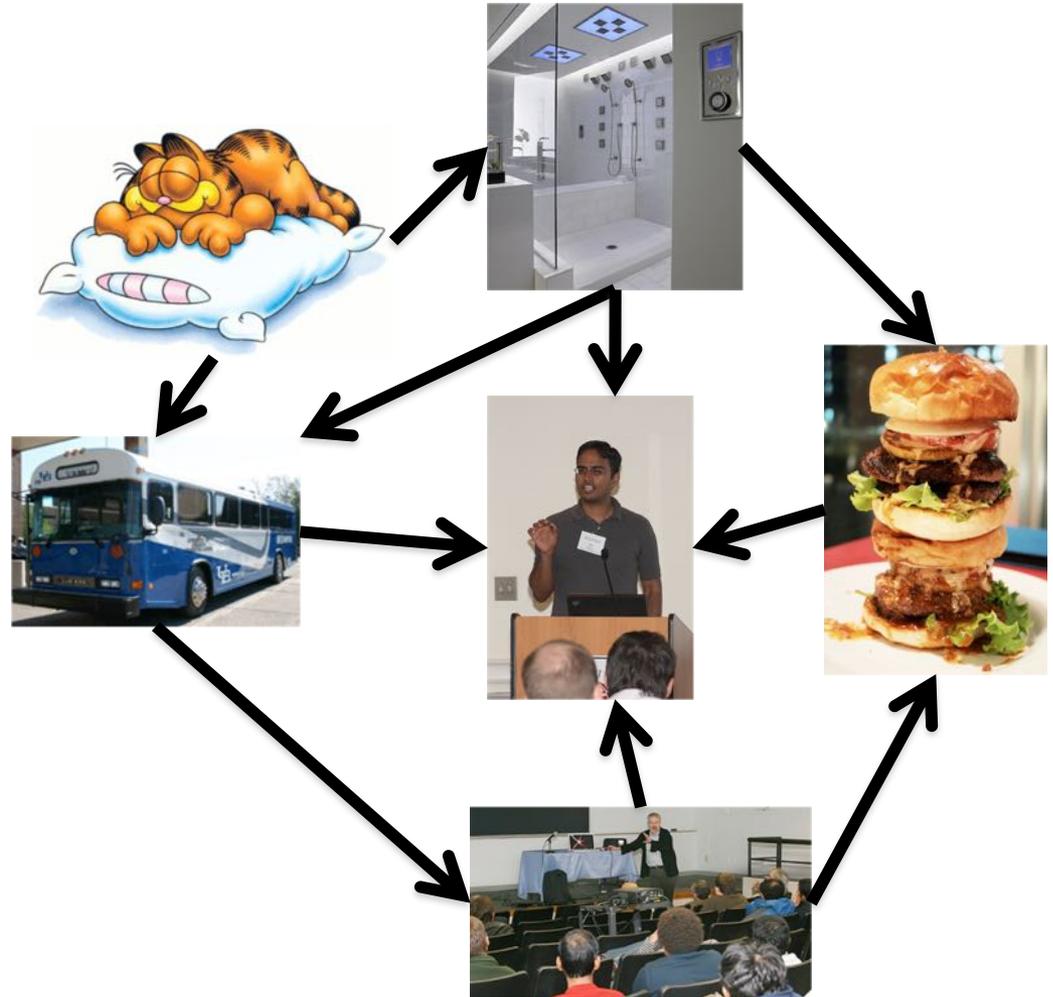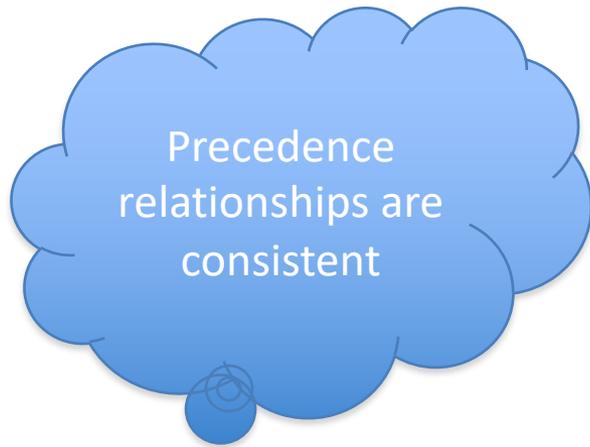
Topological Sorting of a DAG

Order the vertices so that all edges go "forward"

Topological sorting ➜ DAG

DAG ➜ Topological sorting
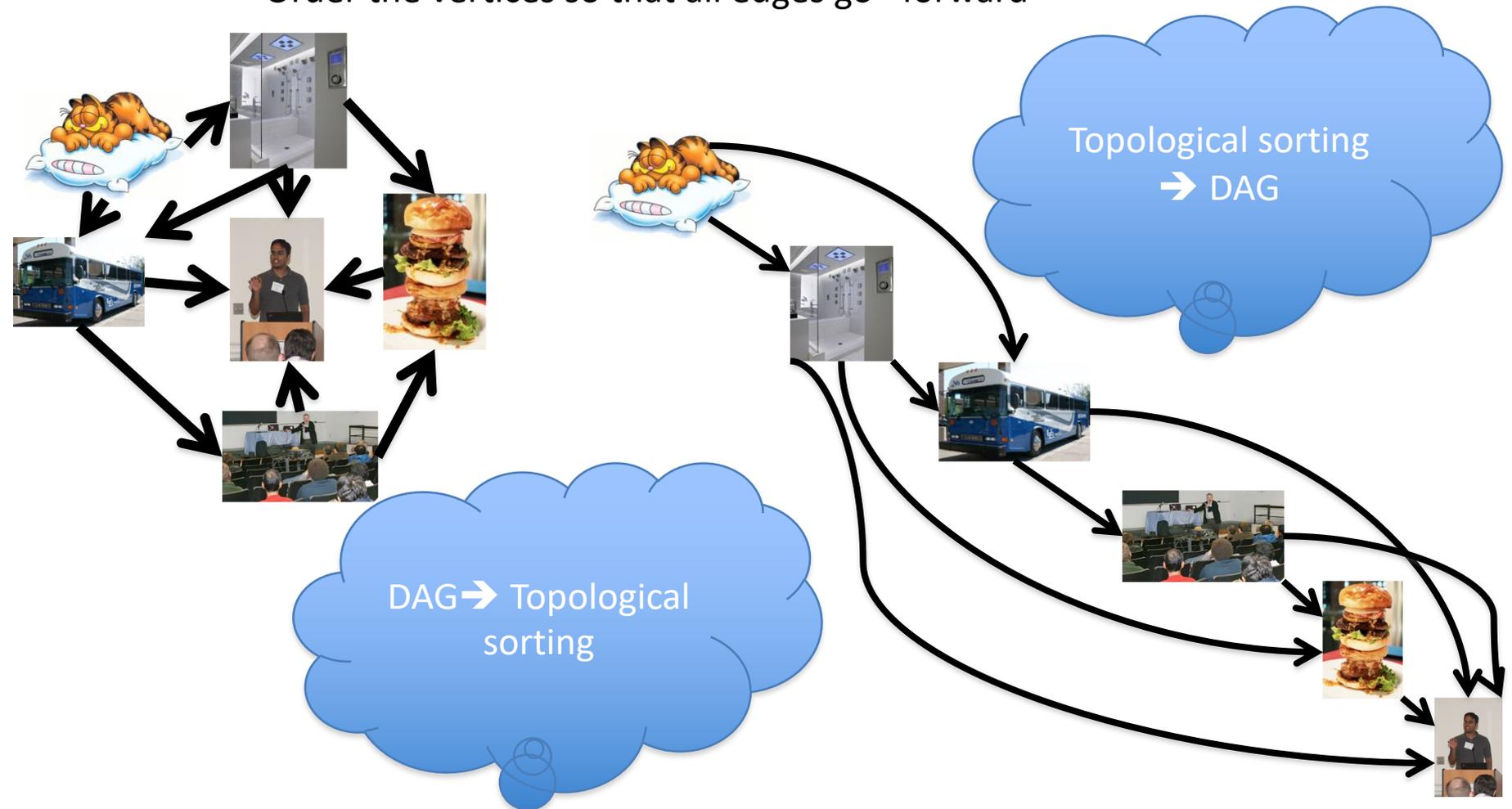
TopOrd(G=(V,E))

1. If |V| = {u}, return u
2. Let w be a node with no incoming edges
3. Let G' be G\{w}
4. Return w; TopOrd(G')

Run of TopOrd algorithm
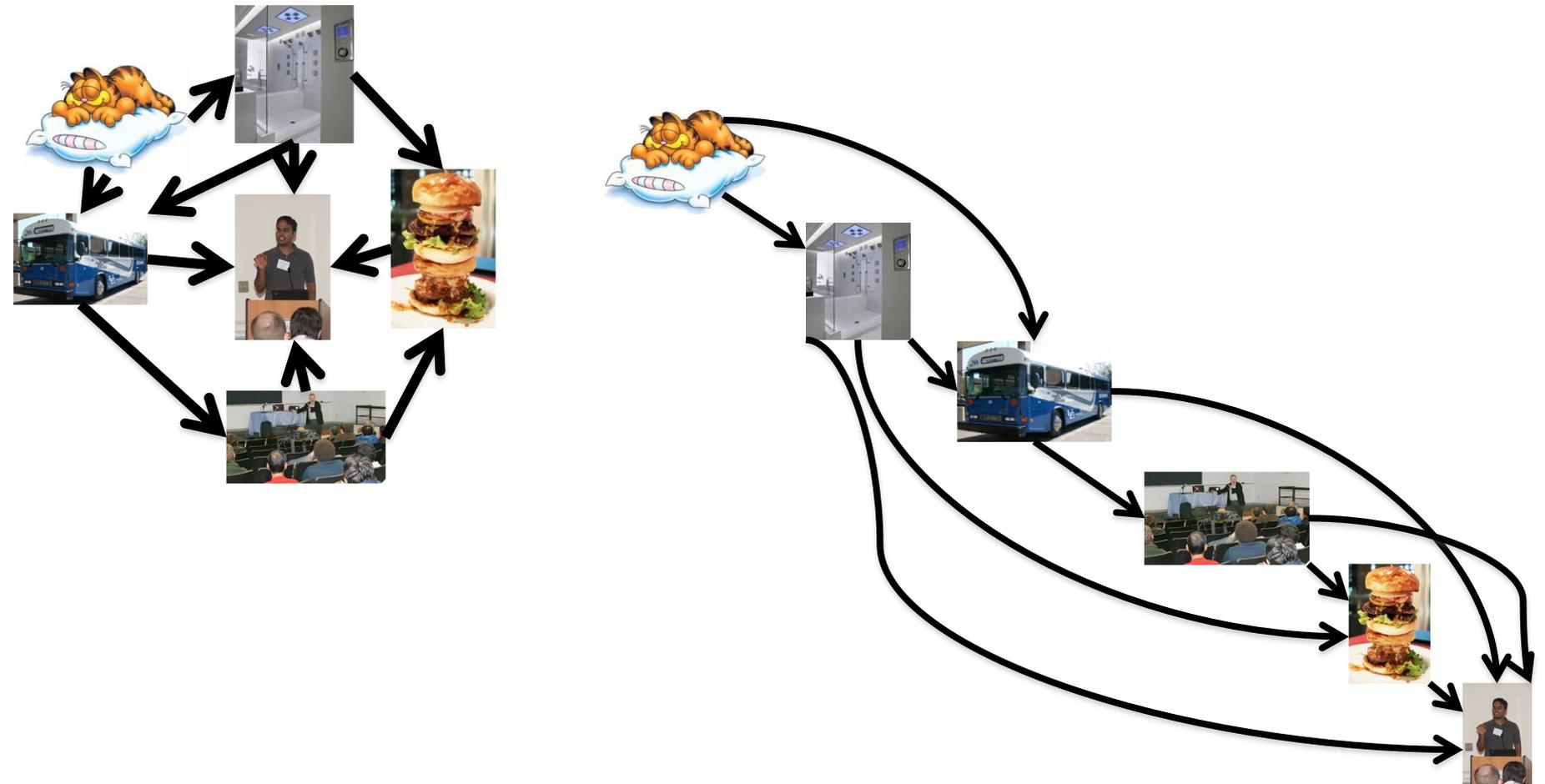
Todays' agenda

Prove Lemma 3

Run time analysis of TopOrd

Mid-term material

Everything we have covered so far (essentially Chaps 1-3 except Sec 1.2)

See piazza post on how to prepare for the mid-terms

Questions?