

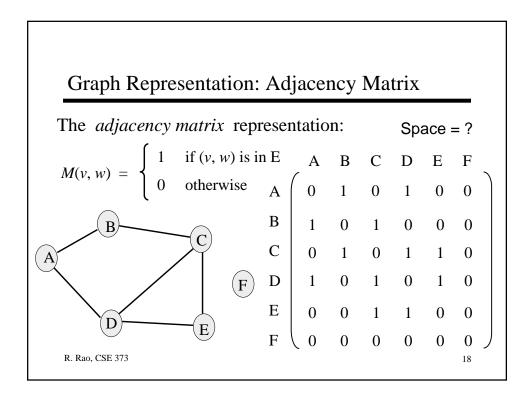
## **Graph Representations**

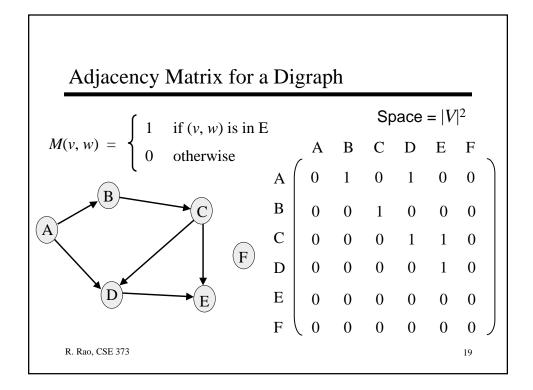
- Space and time are measured in terms of:
  - Number of vertices = |V| and
  - Number of edges = |E|
- There are two ways of representing graphs:
  - The *adjacency matrix* representation

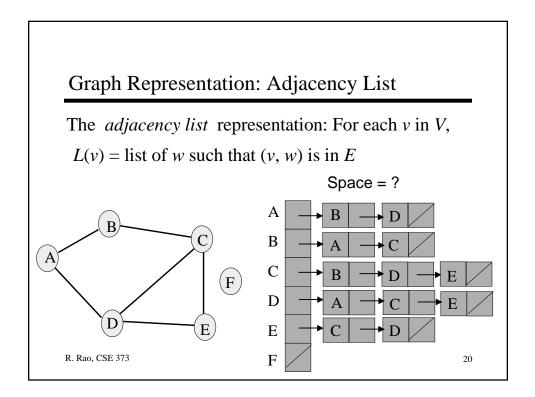
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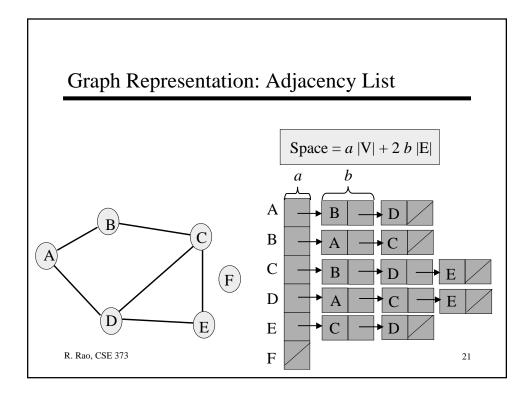
• The *adjacency list* representation

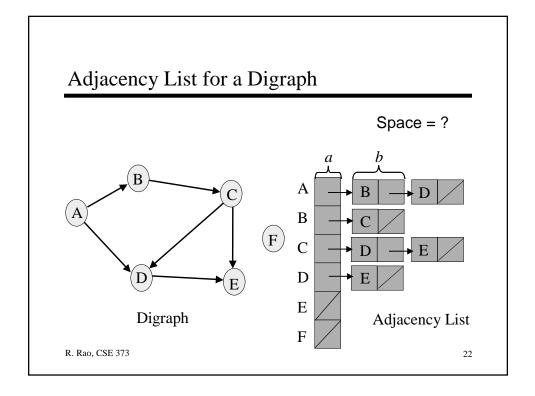
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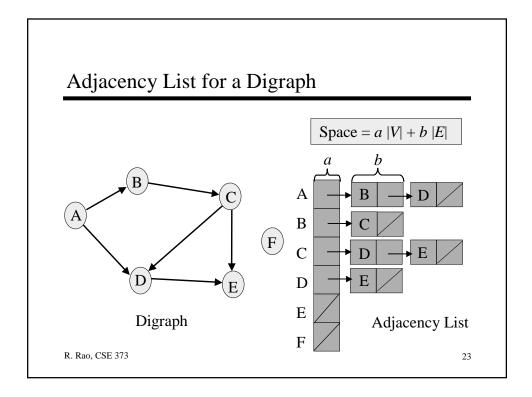


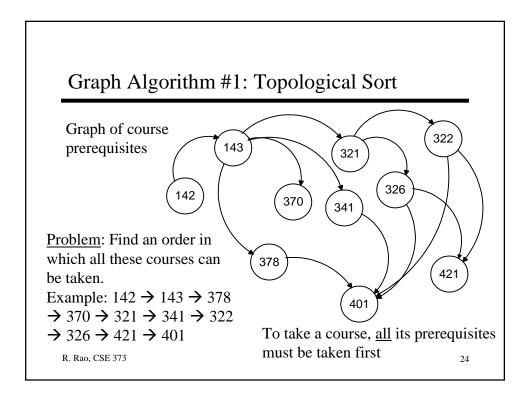


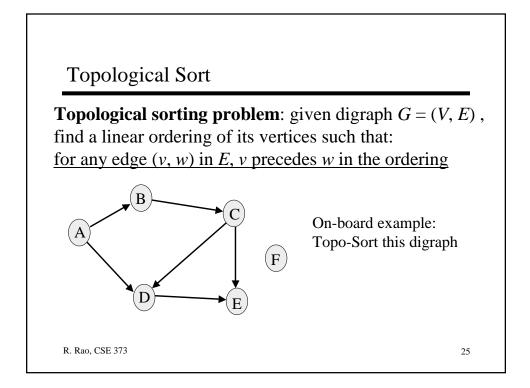


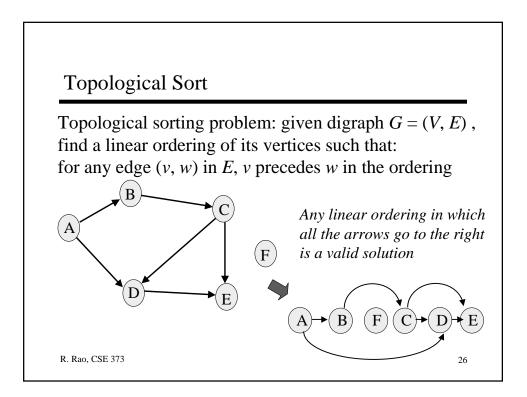


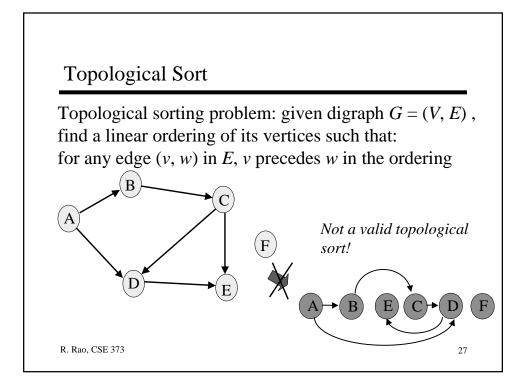


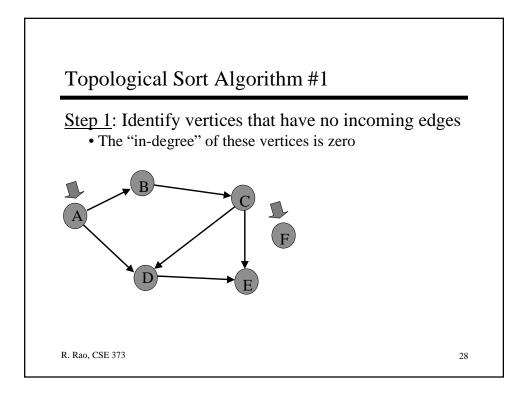


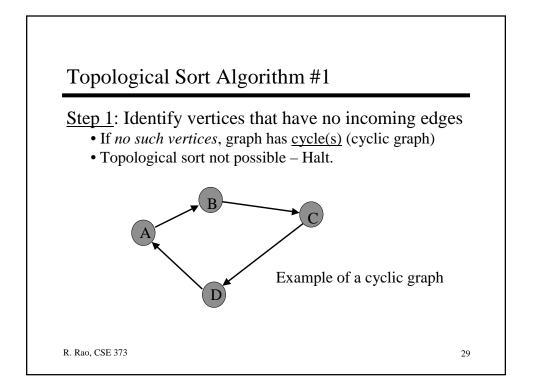


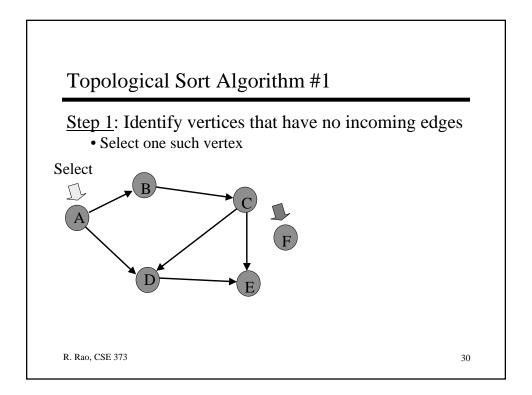


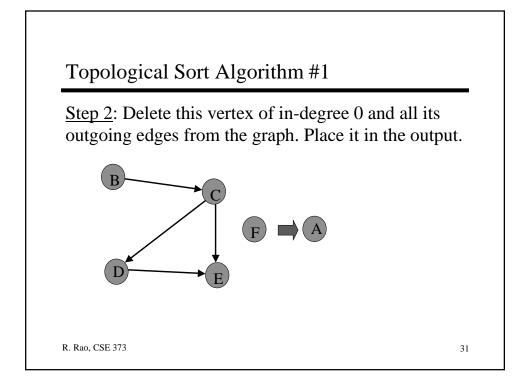


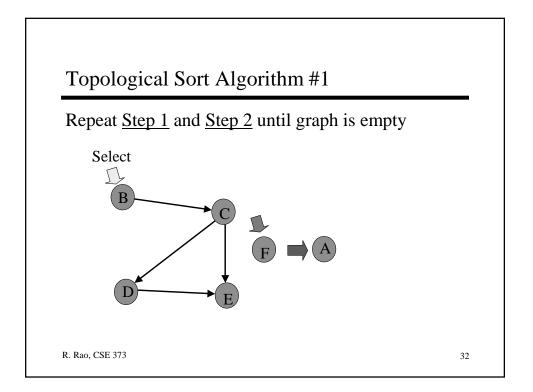


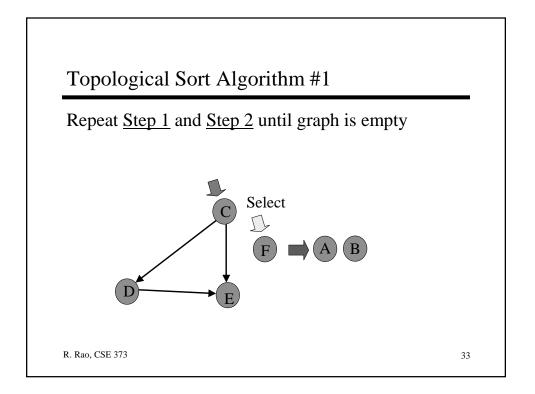


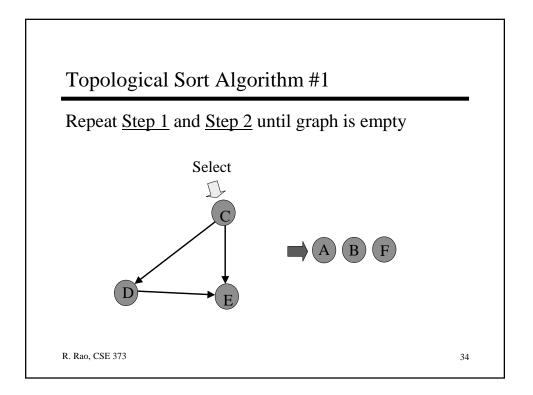


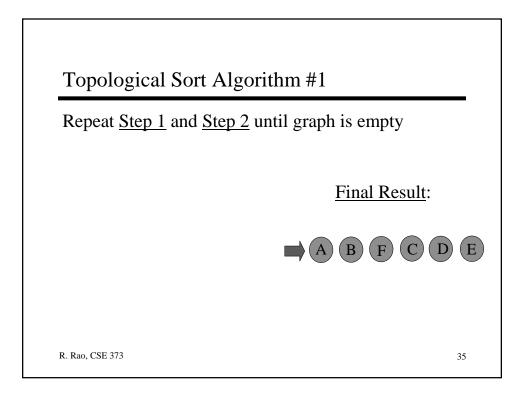


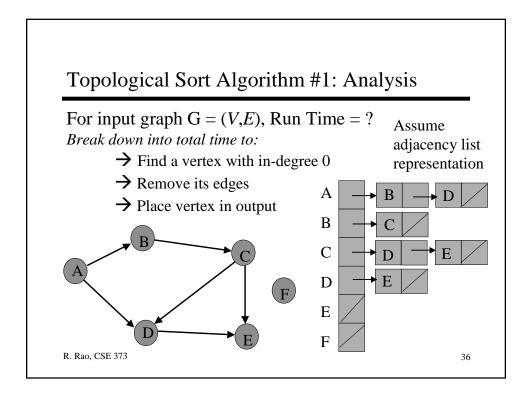


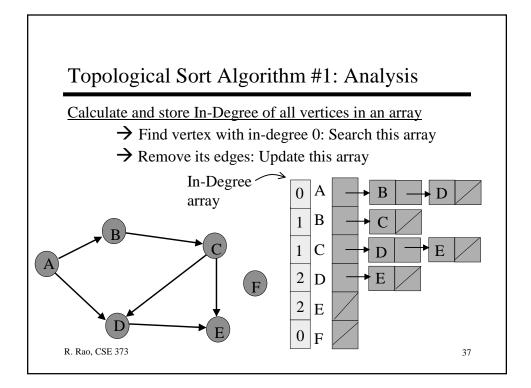


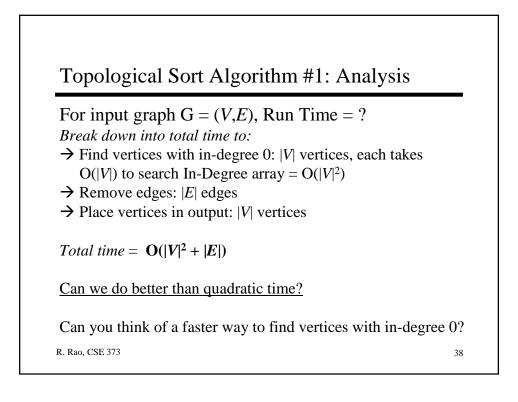












Next Class: Faster Topological Sort and Finding shortest ways to get to your classrooms

To Do:

Read and enjoy chapter 9 Have a great weekend!

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