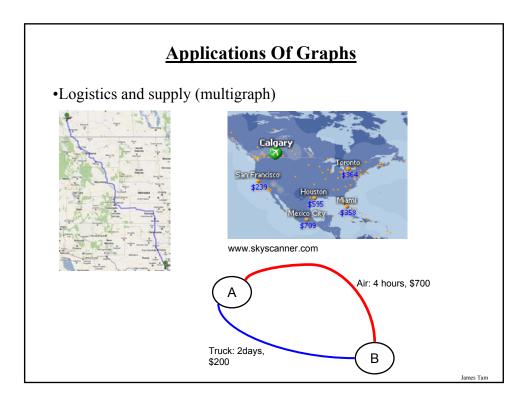
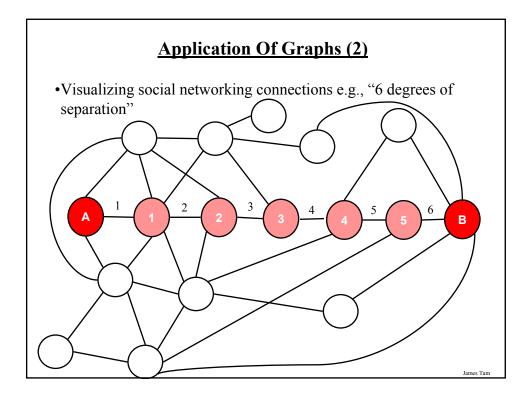
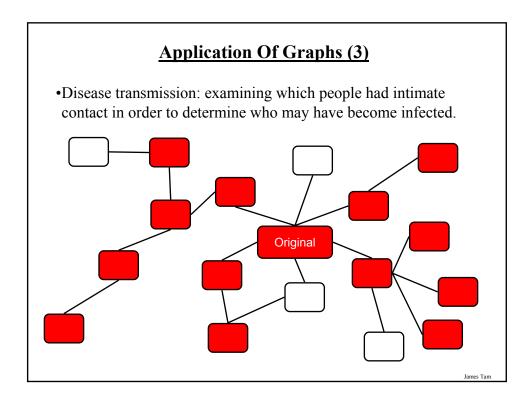


<section-header><list-item><list-item>





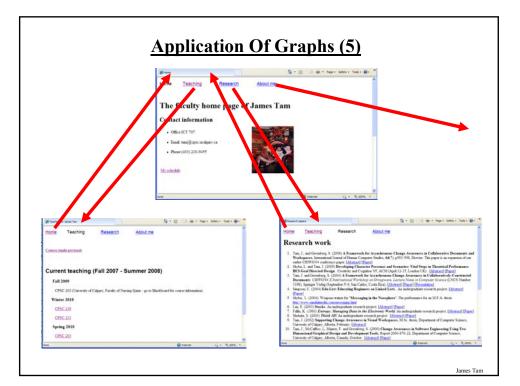


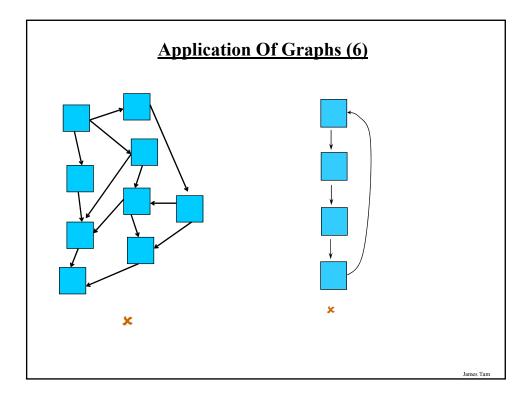
Application Of Graphs (4)

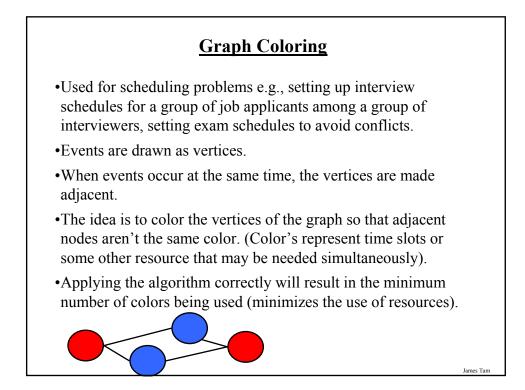
•The World Wide Web itself can be visualized as a directed graph.

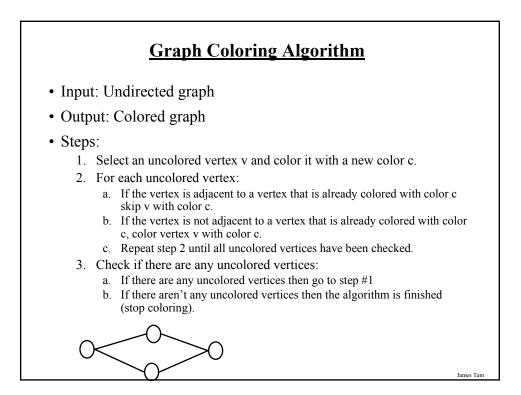
- Vertex = web page, Edge = link between pages.

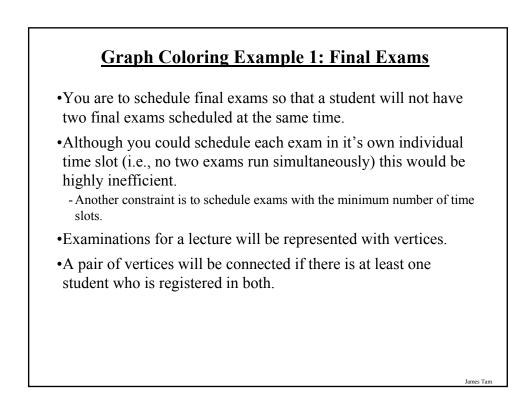
- •Visualizing the layout of a page as a graph can be useful in web design.
 - Are there sufficient connections between pages?
 - Do the connections (links) make sense to visitor?
 - Although it should be possible to reach any page without too much clicking (rule of thumb is 3), there are some pages that should always be accessible e.g., home page, contact page etc.

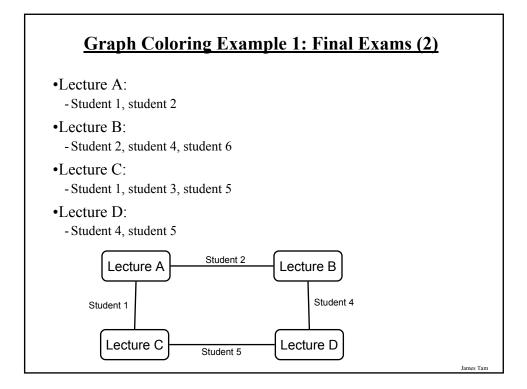


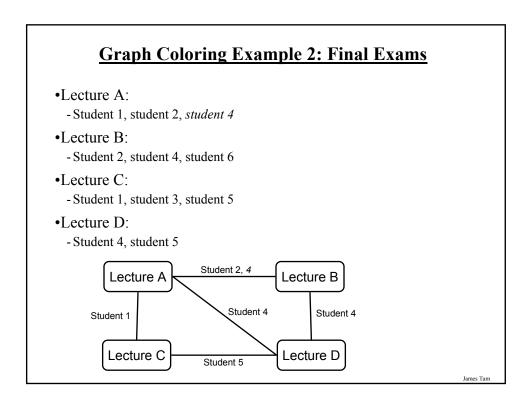


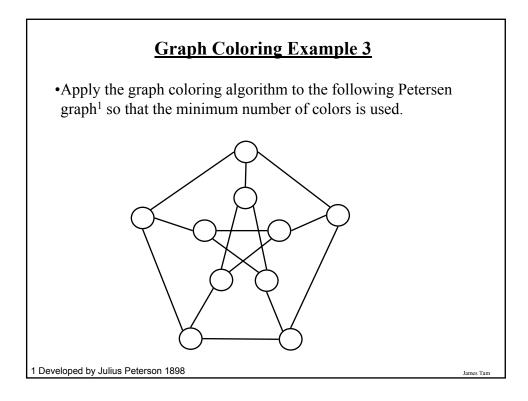












You Should Now Know

- •What is a graph, vertex and edge
- •The difference between a directed and an undirected graph
- •What does it mean for vertices to be adjacent
- •What is a path (directed and undirected graphs)
- •What is a cycle
- •The degree of a vertex (directed and undirected graphs)
- •What is a multi-graph (how it differs from a regular graph)
- •How can graphs can be applied to some everyday situations
- •How to apply the graph coloring algorithm to solve scheduling problems

James Tam