

COMP3600/COMP6466 in 2006

Lab Three

The task for this lab is to solve the topological sorting problem in a directed acyclic graph (DAG) using depth-first search.

Incomplete source code for the problem can be found at
<http://cs.anu.edu.au/student/comp3600/topsort.c> .

Copy it to your own directory and make it work.

Hints:

- While a node is being examined, the ancestors of the node are coloured GRAY. This is the easiest way to distinguish between a back edge and other types of edge.
- There is no need to record the discovery times and finishing times. The best way is just to put the vertex numbers into an array as the vertices are finished.
- Add more parameters to the procedures as you wish.