

Today: Elementary graph algorithms, continued: DFS, topological sort, strongly connected components. §§ 22.*.

Next class: Minimum Spanning Trees. §§ 23.*.

Reminders: Read material *before and after* class. Use the class newsgroup.

1. List the members of your group below. Underline your name.

2. Trace the operation of $\text{DFS-VISIT}(G, A)$, for the following directed graph G using the conventions of Figure 22.4 (p. 605) of the textbook. In particular:
 - Depict the state of the graph after each iteration of the for loop.
 - Annotate each vertex with its color: **White**, **Gray**, **Black**.
 - Record the discovery and finishing times in the format d/f .
 - Highlight tree edges using double lines, and annotate **Forward**, **Backward**, and **Cross** edges.



