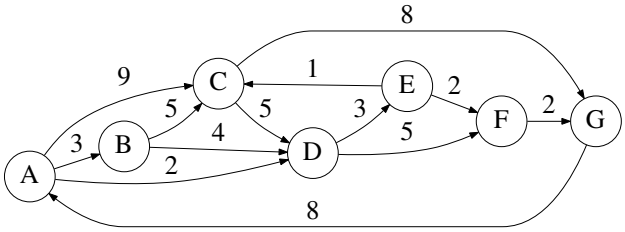
Today: Synthesis and review of recent material.
Next class: Midterm Exam 2. Next week: String matching. 32.{0,1,2,3}.
Reminders: Portfolio/poster. Newsgroup. Reading. Coding. Practice. Don't fall behind.

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

2. (19 pts.) Trace the execution of the Dijkstra's single-source shortest paths (SSSP) algorithm on the following directed graph, with vertex A as the source.
   - Use the textbook's Fig. 24.6 (p.659) as a model.
   - Visit the neighbors of each vertex in lexicographic order.
   - Annotate predecessor edges with check marks.



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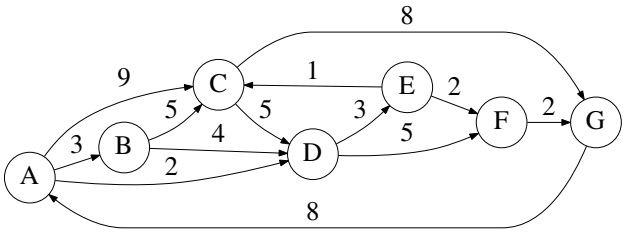
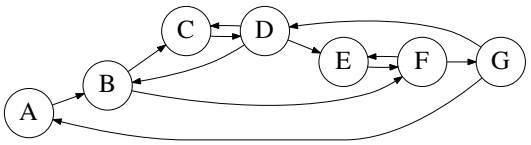


3. (20 pts.) Trace the operation of DFS-Visit(G, A), for the following directed graph G using the conventions of Figure 22.4 (p. 605) of the textbook. In particular:

   - Depict the state of the graph after each iteration of the for loop.
   - Annotate each vertex with its color: **W**hite, **G**ray, **B**lack.
   - Record the discovery and finishing times in the format `d/f`.
   - Highlight tree edges using double lines, and annotate **F**orward, **B**ackward, and **C**ross edges.



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