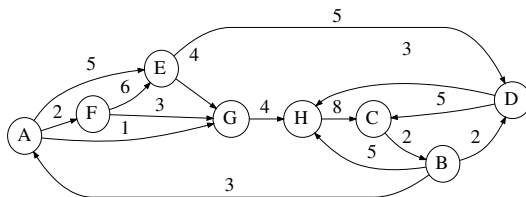
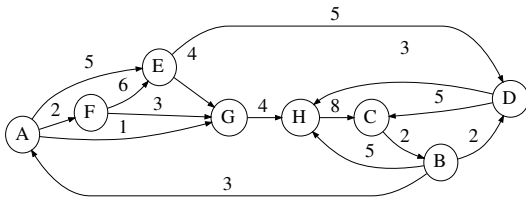


1. Write your name below:

2. Trace the execution of Dijkstra's single-source shortest paths (SSSP) algorithm on the following graph, with source A. Use the textbook's Fig. 22.6 (p.621) as a guide. Annotate predecessor edges with check marks.



[additional space for earlier material]



3. Informal homework (self-study): Augment the answer to Question 2 with the states of the primary data structures at each step (pairing heap, union-find).