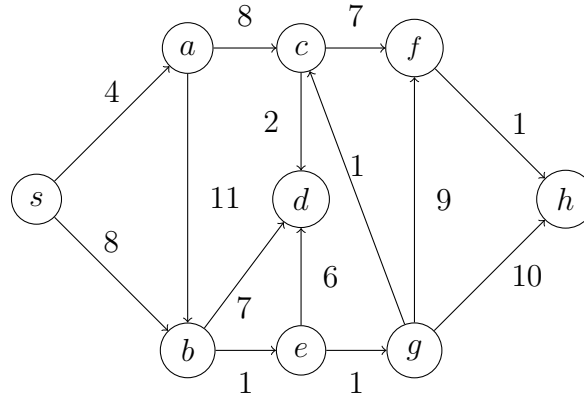


Assignment 5

1. I realized that due to the problem set being due Monday I never had you all do a trace through of Dijkstra's algorithm. So, no need to show work on this specific problem, but do produce the final result (ie the min distances from s to each vertex) of running Dijkstra's on the input below. I'm mostly adding this to make it clear that I'd expect a student of this class to be able to implement Dijkstra's in Java (or whatever language) if they ever needed to.



2. Use the divide and conquer strategy developed in class to compute $1001_2 \times 1010_2$ (here the \cdot_2 means a binary number)