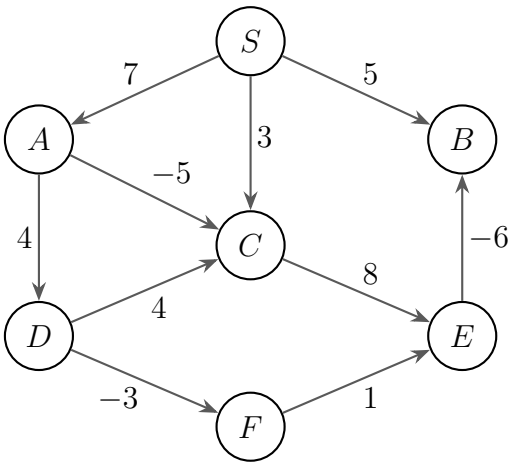
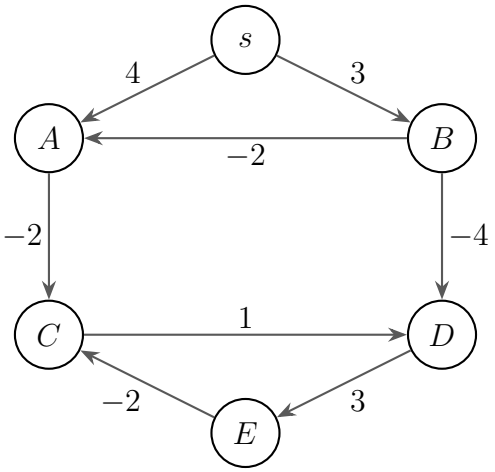
L20

Problem 1 (Shortest Paths on DAGs) *Find the shortest paths from s to every other vertex on this DAG. First, use the space on the right to linearize the DAG. Fill in the top row of the table with a linearization of the DAG, and then use the algorithm on the slide to fill in the distances below.*



v	S						
OPT[v]							

Problem 2 (Bellman-Ford) *Run Bellman-Ford on this graph, starting from s. As you do, think about if anything feels inefficient or unnecessary.*



	s	A	B	C	D	E
OPT$[v][0]$						
OPT$[v][1]$						
OPT$[v][2]$						
OPT$[v][3]$						
OPT$[v][4]$						
OPT$[v][5]$						

Problem 3 (Uh oh!) *What's the shortest path from s to t here, and why is that an issue for the algorithm?*

